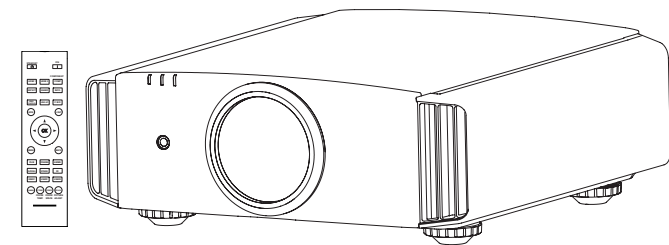


**INSTRUCTIONS
MANUEL D'INSTRUCTIONS
MANUAL DE INSTRUCCIONES**



**D-ILA PROJECTOR
PROJECTEUR D-ILA
PROYECTOR D-ILA**

**DLA-RS65
DLA-RS55
DLA-RS45**



DLA-RS65
DLA-RS55
DLA-RS45

D-ILA PROJECTOR
PROJECTEUR D-ILA
PROYECTOR D-ILA

DLA-RS65/DLA-RS55/DLA-RS45



For Customer use :

Enter below the serial No. which is located on the side of the cabinet. Retain this information for future reference.

Model No. DLA-RS65
DLA-RS55
DLA-RS45

Serial No. _____

Pour utilisation par le client :

Entrer ci-dessous le N° de série qui est situé sous le boîtier. Garder cette information comme référence pour le futur.

N° de modèle DLA-RS65
DLA-RS55
DLA-RS45

N° de série _____

Instrucción para el cliente :

Introduzca a continuación el n° de serie que aparece en la parte inferior lateral de la caja. Conserve esta información como referencia para uso ulterior.

Modelo N° DLA-RS65
DLA-RS55
DLA-RS45

N° de serie _____

Safety Precautions

IMPORTANT INFORMATION

This product has a High Intensity Discharge (HID) lamp that contains mercury.

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 for USA, the Electronic Industries Alliance: <http://www.eiae.org>.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING:

THIS APPARATUS MUST BE EARTHED.

CAUTION:

To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.

This projector is equipped with a 3-blade grounding type plug to satisfy FCC rule. If you are unable to insert the plug into the outlet, contact your electrician.

MACHINE NOISE INFORMATION

(Germany only)

Changes Machine Noise Information Ordinance 3. GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 20 dB (A) according to ISO 7779.

For the customers in Taiwan only



廢電池請回收

FCC INFORMATION (U.S.A. only)

CAUTION:

Changes or modification not approved by JVC could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for Class B digital devices, 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.

About the installation place

Do not install the projector in a place that cannot support its weight securely.

If the installation place is not sturdy enough, the projector could fall or overturn, possibly causing personal injury.

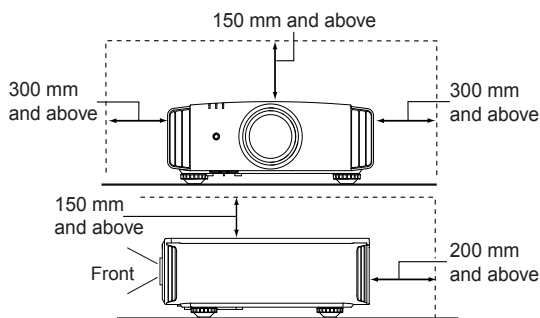
IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD.

In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these Important Safeguards carefully before use.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.

- All warnings on the product and in the operating instructions should be adhered to.
 - All operating instructions should be followed.
 - Place the projector near a wall outlet where the plug can be easily unplugged.
 - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
 - Do not use attachments not recommended by the product manufacturer as they may be hazardous.
 - Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
 - Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
 - When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.
- PORTABLE CART WARNING
(symbol provided by RETAC)
- 
- S3126A
- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)
 - To allow better heat dissipation, keep a clearance between this unit and its surrounding as shown below. When this unit is enclosed in a space of dimensions as shown below, use an air-conditioner so that the internal and external temperatures are the same. Overheating can cause damage.



- power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
 - a) When the power supply cord or plug is damaged.
 - b) If liquid has been spilled, or objects have fallen on the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e) If the product has been dropped or damaged in any way.
 - f) When the product exhibits a distinct change in performance, this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and DVD players, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.
- Do not look into the projection lens while the illumination lamp is turned on. Exposure of your eyes to the strong light can result in impaired eyesight.
- Do not look into the inside of this unit through vents (ventilation holes), etc. Do not look at the illumination lamp directly by opening the cabinet while the illumination lamp is turned on. The illumination lamp also contains ultraviolet rays and the light is so powerful that your eyesight can be impaired.
- Do not drop, hit, or damage the light-source lamp (lamp unit) in any way. It may cause the light-source lamp to break and lead to injuries. Do not use a damaged light source lamp. If the light-source lamp is broken, ask your dealer to repair it. Fragments from a broken light-source lamp may cause injuries.
- The light-source lamp used in this projector is a high pressure mercury lamp. Be careful when disposing of the light-source lamp. If anything is unclear, please consult your dealer.
- Do not ceiling-mount the projector to a place which tends to vibrate; otherwise, the attaching fixture of the projector could be broken by the vibration, possibly causing it to fall or overturn, which could lead to personal injury.
- Use only the accessory cord designed for this product to prevent shock.
- For health reasons, please take a break of about 5-15 minutes every 30-60 minutes and let your eyes rest. Please refrain from watching any 3D-images when you feel tired, unwell or if you feel any other discomfort. Moreover, in case you see a double image, please adjust the equipment and software for proper display. Please stop using the unit if the double image is still visible after adjustment.
- Once every three years, please perform an internal test. This unit is provided with replacement parts needed to maintain its function (such as cooling fans). Estimated replacement time of parts can vary greatly depending on frequency of use and the respective environment. For replacement, please consult your dealer, or the nearest authorized JVC service center.
- When fixing the unit to the ceiling, Please note that we do not take any responsibility, even during the warranty period, if the product is damaged due to use of metal fixtures used for fixation to the ceiling other than our own or if the installation environment of said metal fixtures is not appropriate. If the unit is suspended from the ceiling during use, please be careful in regard to the ambient temperature of the unit. If you use a central heating, the temperature close to the ceiling will be higher than normally expected.
- Video images can burn into the electronic component parts. Please do not display screens with still images of high brightness or high contrast, such as found in video games and computer programs. Over a long period of time it might stick to the picture element. There is no problem with the playback of moving images, e.g. normal video footage.
- Not using the unit for a long time can lead to malfunction. Please power it on and let it run occasionally. Please avoid using the unit in a room where cigarettes are smoked. It is impossible to clean optical component parts if they are contaminated by nicotine or tar. This might lead to performance degradation.
- Please watch from a distance three times the height of the projected image size. Persons with photosensitivity, any kind of heart disease, or weak health should not use 3D glasses.
- Watching 3D-images might be cause of illness. If you feel any change in your physical condition, please stop watching immediately and consult a physician if necessary.
- When watching 3D images, it is recommended to take regular breaks. As the length and frequency of the required breaks differ for every person, please judge according to your own condition.
- If your child watches while wearing 3D glasses, it should be accompanied by its parents or an adult guardian. The adult guardian should be careful to avoid situations where the child's eyes might become tired, as responses to tiredness and discomfort, etc., are hard to detect, and it is possible for the physical condition to deteriorate very quickly. As the visual sense is not yet fully developed in children under the age of 6, please consult a physician in regard to any problem concerning 3D-images if necessary.
- Note that when using the 3D feature, the video output may appear different from the original video image due to image conversion on the device.

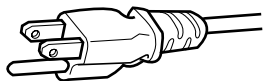
***DO NOT allow any unqualified person to install the unit.**
 Be sure to ask your dealer to install the unit (e.g. attaching it to the ceiling) since special technical knowledge and skills are required for installation. If installation is performed by an unqualified person, it may cause personal injury or electrical shock.

Safety Precautions (Continued)

POWER CONNECTION

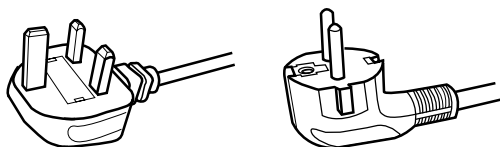
For USA and Canada only
Use only the following power cord.

Power cord



The power supply voltage rating of this product is AC110V – AC240V. Use only the power cord designated by our dealer to ensure Safety and EMC. Ensure that the power cable used for the projector is the correct type for the AC outlet in your country. Consult your product dealer.

Power cord



For United Kingdom

For European continent
countries

WARNING:

Do not cut off the main plug from this equipment.

If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter or consult your dealer. If nonetheless the mains plug is cut off, dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the main supply. If a new main plug has to be fitted, then follow the instruction given below.

WARNING:

THIS APPARATUS MUST BE EARTHED.

IMPORTANT (Europe only):

The wires in the mains lead on this product are colored Vert et jaune in accordance with the following cord:

Green-and-yellow :Earth
Blue :Neutral
Brown :Live

As these colors may not correspond with the colored making identifying the terminals in your plug, proceed as follows:

The wire which is colored green-and-yellow must be connected to the terminal which is marked M with the letter E or the safety earth or colored green or green-and-yellow. The wire which is colored blue must be connected to the terminal which is marked with the letter N or colored black. The wire which is colored brown must be connected to the terminal which is marked with the letter L or colored red.

POWER CONNECTION (United Kingdom only)

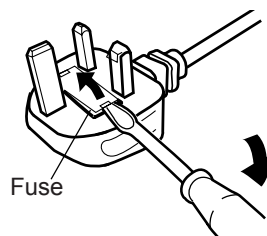
HOW TO REPLACE THE FUSE:

When replacing the fuse, be sure to use only a correctly rated approved type, re-fit the fuse cover.

IF IN DOUBT — CONSULT A COMPETENT ELECTRICIAN.

Open the fuse compartment with the blade screwdriver, and replace the fuse.

(* An example is shown in the illustration below.)



Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of JVC KENWOOD Corporation is:
JVC Technical Services Europe GmbH
Postfach 10 05 04
61145 Friedberg
Germany

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CAUTION

About the marks used in this book

65 Compatible only with DLA-RS65

55 Compatible only with DLA-RS55

45 Compatible only with DLA-RS45

Accessories/Optional Accessories

Check the Accessories

Lens Cover 45	1 piece
Remote Control	1 piece
AAA size Batteries (for operation confirm).....	2 pieces
Power Cord For the US market (2 m).....	1 piece
Power Cord For the EU market (2 m).....	1 piece
Power Cord For the UK market (2 m).....	1 piece

- Instruction manual (this book), warranty card and other printed material are also included.

Optional Accessories

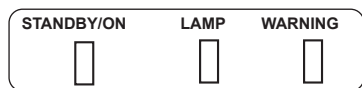
Please check with your authorized dealer for details.

- Replacement Lamp: PK-L2210U
- 3D-Glasses: PK-AG1-B , PK-AG2-B
- 3D Synchro Emitter: PK-EM1

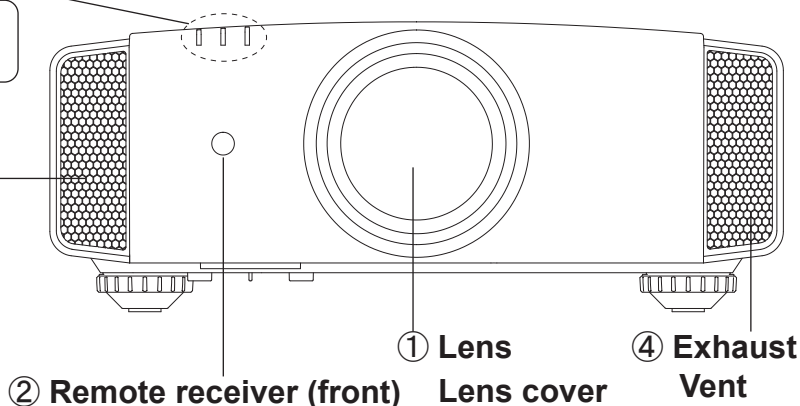
Controls and features

Main body - Front

③ Indicator



④ Exhaust Vent



① Lens

This is a projection lens. Please do not look inside during projection.

Lens cover

The lens cover opens/closes when the power supply is turned on/off.

(Reference page: 66) **65 55**

② Remote receiver (front)

Please aim the remote control at this area when using it.

(*) There is also a remote receiver at the rear.

③ Indicator

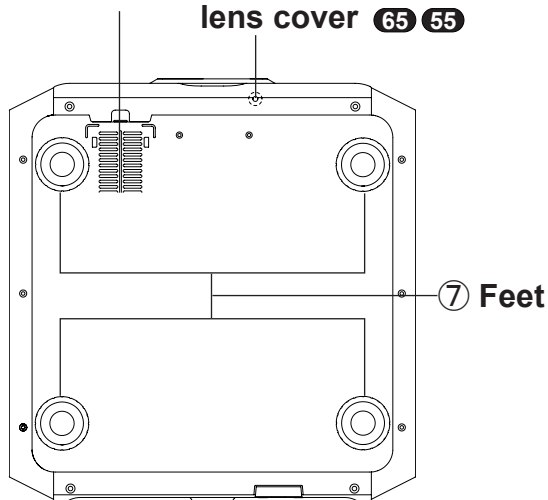
Please see “About the indicator display” for details. (Reference page: 17)

④ Exhaust Vent

Warm air flows out in order to cool the interior of the set. Please do not block the vents.

Main body - Bottom

⑤ Inlets ⑥ Manual button for lens cover **65 55**



⑤ Inlets (at 3 points on the rear/ bottom)

In order to cool the inside of the unit, air is let inside. Do not block or prevent the outflow of hot air. Doing so could lead to failure of the unit.

(*) There are inlets at two points on the right and left sides of the rear side.

(Reference page: 16)

⑥ Manual operation button of the lens cover **65 55**

The lens cover can be opened when pressed down. It is used for maintenance and not used during normal use.

⑦ Feet

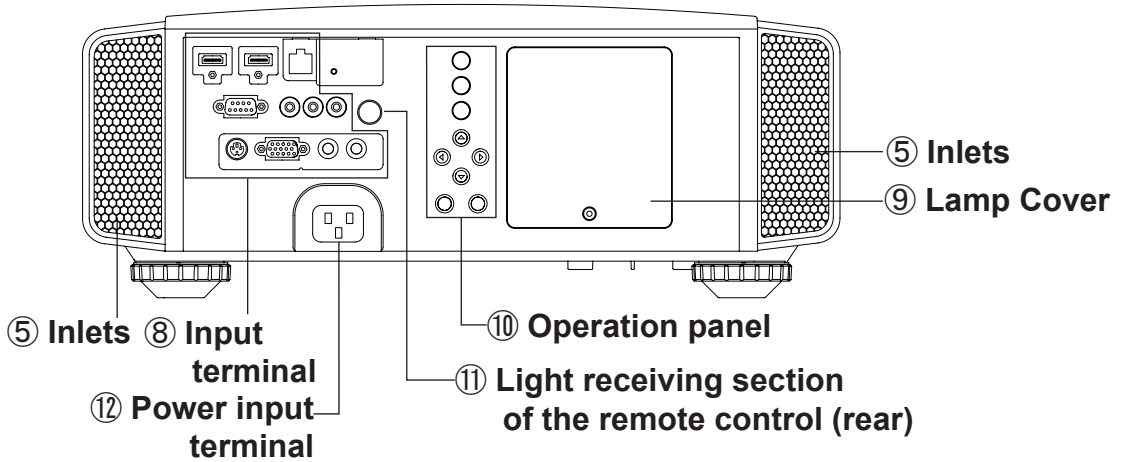
The height (0 to 5 mm) can be adjusted by turning the foot.

When the foot is removed, it can be used as the mounting holes for the ceiling mount bracket.

(Reference page: 24)

Controls and features (continued)

Main body - Rear



⑧ Input terminal

There is also a terminal other than the input terminal for video images, such as those used for controlling or optional equipment. This illustration is **65 55**. Please see “About input terminals” for detailed information **45** about terminals. (Reference page: 19)

⑨ Lamp Cover

When replacing the light source lamp, remove this cover. (Reference page: 78)

⑩ Operation panel

See the following illustration “Control panel” for more details.

⑪ Light receiving section of the remote control (rear)

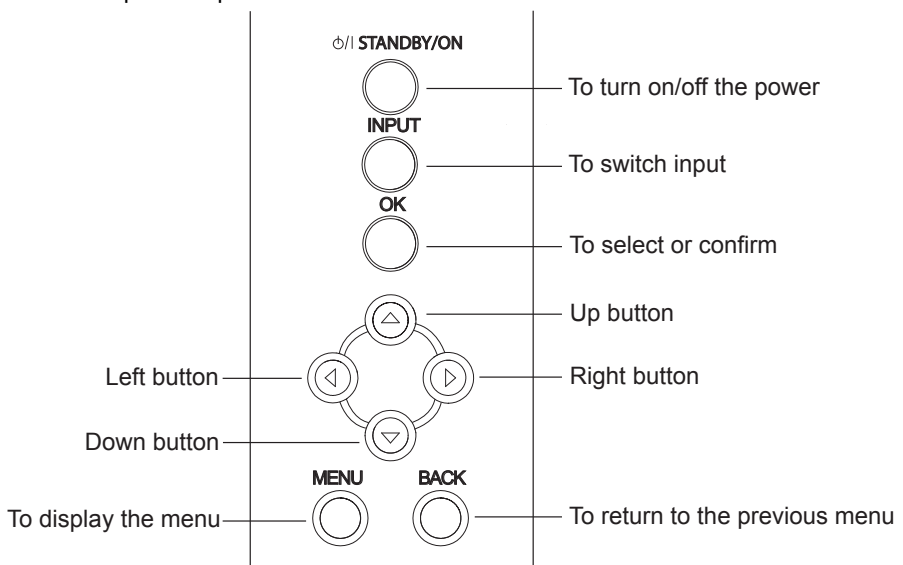
Please aim the remote control at this section when using.

(* There is also a light receiving section at the rear.

⑫ Power input terminal

This is the power input terminal. It is connected via the supplied power cord. (Reference page: 34)

■ Operation panel



Controls and features (continued)

Main body - About the indicator display

Warnings and indications used during normal operation mode of this unit are displayed with the indicators for [STAND BY / ON], [LAMP], [WARNING] at the front of this unit.

Meaning of the lighting figures:



The display the indicator lights.



They display flashing of the indicator.

Operation mode display

Displays the color and lighting/flashing of the [STAND BY / ON] indicator.

STAND BY Light on(Red)

During standby



STAND BY Light on(Green)

While activating the lamp
(about 1 minute)



All Off

During image projection



STAND BY Blinking(Green)

When "Hide" is set to ON



STAND BY Blinking(Red)

During cool down



Criterion indication of the lamp replacement

Displays lighting/flashing of the [LAMP] indicator. Moreover, the [STAND BY / ON] indicator, which shows the operation mode of this unit, is displayed as described above. (Reference page: 92)

LAMP Light on(orange)

Lamp replacement is
near(When accumulated lamp
time has exceeded 2900 hours)



Controls and features (continued)

Main body - Warning display and confirmation/response

Warning display

You are informed of the contents of warning notices by the (repeated) displays of the [WARNING] and [LAMP] indicators. Moreover, the [STAND BY / ON] indicator, which shows the operating mode of the unit, is displayed simultaneously as described above.

Upon activation of the warning mode, the projection is interrupted at the same time for about 60 seconds and the cooling fan is turned on. Please disconnect the power plug from the electric socket after the cooling fan has stopped. Subsequently, please perform the following checks and take appropriate countermeasures.

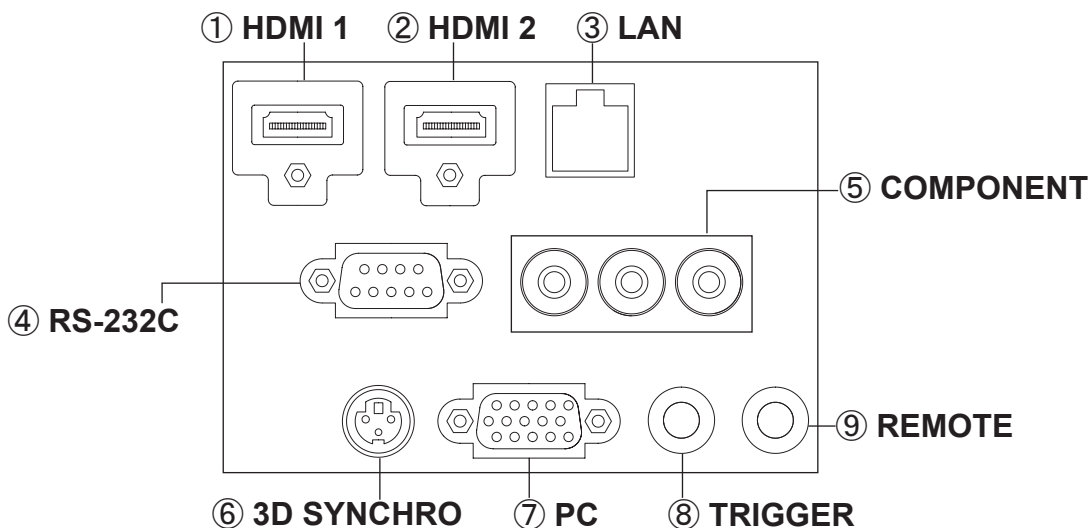
Lighting/flashing lights status diagram	Blinking Frequency	Content	Confirmation and countermeasures
<p>Mode display</p>	1 times	Abnormalities in the power supply	<ul style="list-style-type: none"> ● Check that nothing is blocking the air inlets. ● Check that the external temperature is normal. <p>Action Leave the unit until it cools down. After that, turn on the power again.</p>
	2 times	Cooling fan stops	
	3 times	Internal temperature is too high	
	4 times	External temperature is too high	
<p>Mode display</p> <p>(orange) (red) Simultaneous flashing</p>	1 times	Abnormal electrical circuit	<ul style="list-style-type: none"> ● Check that an impact shock has not occurred during operation. ● Check that the lamp unit and lamp cover are correctly installed. ● Check that nothing is blocking the auto lens cover. <p>Action Turn on the power again.</p>
	2 times		
	3 times		
<p>Mode display</p> <p>(orange) (red)</p>	1 times	Lamp does not light up and unit is unable to project	<ul style="list-style-type: none"> ● Check that the lamp unit and lamp cover are correctly installed. ● Check that nothing is blocking the auto lens cover. <p>Action Turn on the power again.</p>
	2 times	Lamp is turned off during projection	
	3 times	Lamp cover is removed	

If the warning indication is displayed again, please wait for the cooling fan stopped, then pull out the power plug from the power outlet. Then call your authorized dealer for repair.

(*) If the scheduled time for the replacement of the lamp is exceeded, the light might light up.

Controls and features (continued)

Main body - Input terminal



① HDMI 1 Terminal

② HDMI 2 Terminal

You can connect a device equipped with HDMI output, etc. It is fitted to the M3 lock hole. Screw hole depth 3mm. (Reference page: 29)

③ LAN terminal “RJ-45”

This is a LAN-terminal. If one connects an external PC, it is possible to control this unit by sending control commands. (Reference page: 33)

④ RS-232C terminal (male D-Sub 9 pin)

This is a RS-232C interface standard terminal. If one connects an external PC, it is possible to control this unit. (Reference page: 32)

⑤ COMPONENT terminal “RCaX3”

It is also used as input terminal for analog RGB (G on Sync) signals, component (Y, Cb, Cr) signals, DTV format (Y, Pb, Pr) signals. It can also be connected with devices, which are equipped with signal output, etc. (Reference page: 30)

⑥ 3D SYNCHRO terminal

3D synchro emitter: it is connected to the PK-EM1 (sold separately) when enjoying 3D video contents. (Reference page: 31)

⑦ PC terminal “D-Sub 15 pin” **65 55**

This is an input term used for Personal Computer (PC) signals only (RGB video signals and sync signals). Use to connect a computer display output terminal, etc. (Reference page: 31)

⑧ TRIGGER terminal (⊖ ⊕)

DC power supply output terminal with DC12V, 100mA. It is used for output signals which control the vacillating screen responding to the SCREEN TRIGGER. Please note it can cause damage to your equipment if the connection is done incorrectly. (Tip = DC +12 V, Sleeve = GND) (Reference Page: 32, 72)

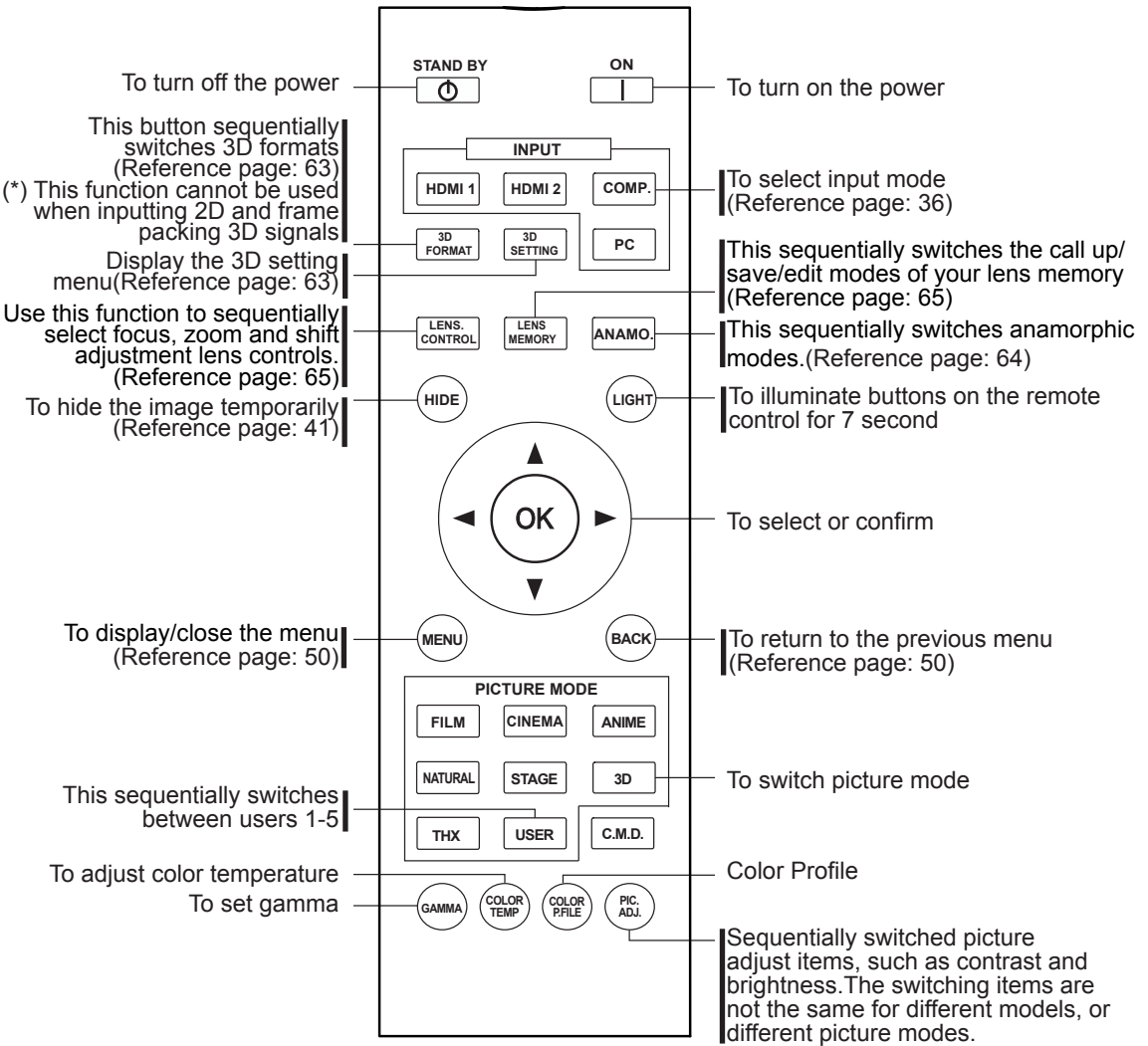
⑨ REMOTE terminal to “Stereo mini jack”

In case it is impossible to use the remote control due to the installation of this unit's dedicated BOX or rear projection, one can set up an external light receiving section. It is used to connect this external receiver and this unit. There is no such product as an external light receptor. Therefore, please consult your authorized JVC KENWOOD Corporation. (Reference page: 33)

Controls and features (continued)

Remote Control

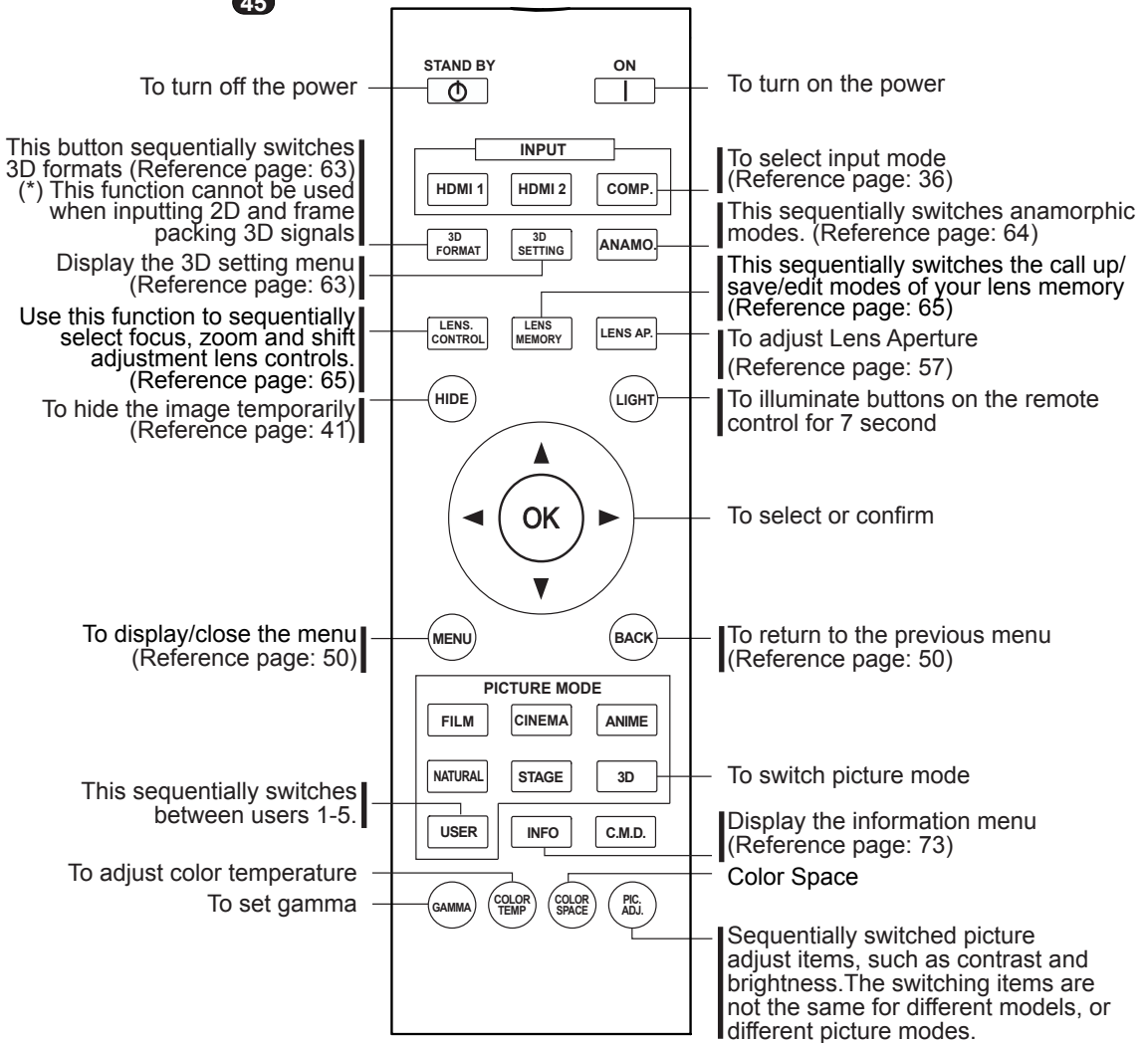
65 55



Controls and features (continued)

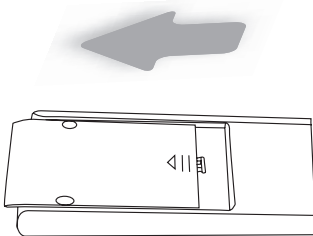
■ Remote Control

45

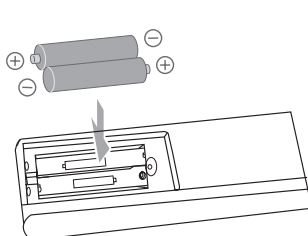


How to insert batteries into the remote control

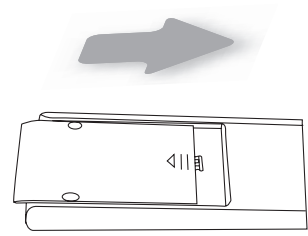
①



②



③



- If the remote control has to be brought closer to the projector to operate, it means that the batteries are wearing out. When this happens, replace the batteries. Insert the batteries according to the ⊕ ⊖ marks.
- Be sure to insert the ⊖ end first.
- If an error occurs when using the remote control, remove the batteries and wait for 5 minutes. Load the batteries again and operate the remote control.

About installation

Important points concerning the installation

Please read the following carefully before the installation of this unit.



Installation environment

CAUTION

This unit is a precision device. Therefore, please refrain from installation or use in the following locations.

Otherwise, it may cause fire or malfunction.

- Dust, wet and humid locations.
- Sooty or cigarette smoke filled locations.
- On top of a carpet or bedding, or other soft surfaces.
- Locations with high temperatures - as located in direct sunlight.

- Locations with high or low temperatures.

Permissible operating temperature range: +5 ° to +35° .

Relative humidity range permissible for operating: 20% ~ 80% (non-condensing) .

Storage temperature tolerance: -10° to +60° .

- If the installation of the unit is done in a room with soot and/or smoke over a longer period, even small amounts of these substances will affect the device. This unit cools its optical components, which produce a great amount of heat, by sucking in air. If the optical circuits get dirty, this might lead to malfunctions, like the video images becoming darker or a deterioration of the color development. Dirt sticking to the optical components cannot be removed.

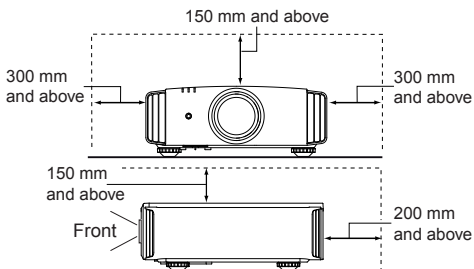


Please be careful to perform the installation at a certain distance from walls and other devices

For better heat dissipation, please keep a minimum distance between this unit and its surroundings as shown in the following illustration.

Moreover, please open the front of the unit. If there are any objects in front of the exhaust port, the hot air will flow back to the unit and heat it. The hot air flowing out of the unit might cause shadows on the screen (heat haze phenomenon).

Moreover, when it is enclosed in a space as shown in the following illustration, please make sure that the enclosed interior has the same temperature as the outside. High temperatures might lead to failure of the unit.



Please be careful when using

CAUTION

This unit uses a projection lamp, which will get hot when in use. Please refrain from projecting in the following circumstances.

Otherwise, it might cause fire or malfunction.

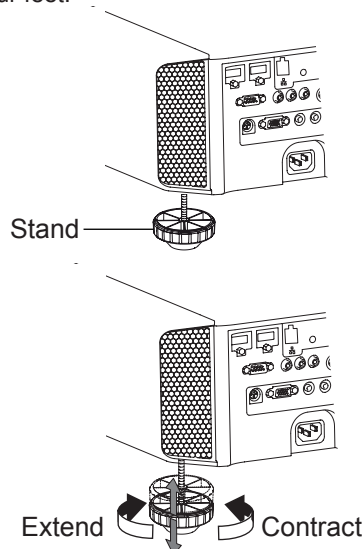
- Projection while lying on its side. Please avoid projection if the installation of the unit is done at an excessive angle of more than $\pm 30^\circ$. It may cause harm to the life of the lamp and color shading.
- Please avoid projection at a location where the air vents or exhaust ports might get blocked.

Please choose a non-uniform cloth material for the screen. If you choose something uniform, like something with a checkered pattern, there might be interference with the pixel array of the D-ILA components. One way to reduce the interference pattern is to change the size of the screen, so that it will not be so noticeable.

Inclination adjustment for this unit

How to adjust the vertical angle

Height and inclination of the unit (0 ~ 5mm) can be adjusted by rotating its feet. Lift the unit and adjust the four feet.



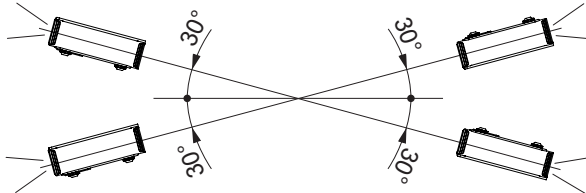
About installation (Continued)

Installing the Projector and Screen

While installing, please place this unit and the screen perpendicular to each other. Failing to do so may increase trapezoidal distortion. (Reference page: 36, 52)

Set Angle

The angle range which can be set for this unit is $\pm 30^\circ$.

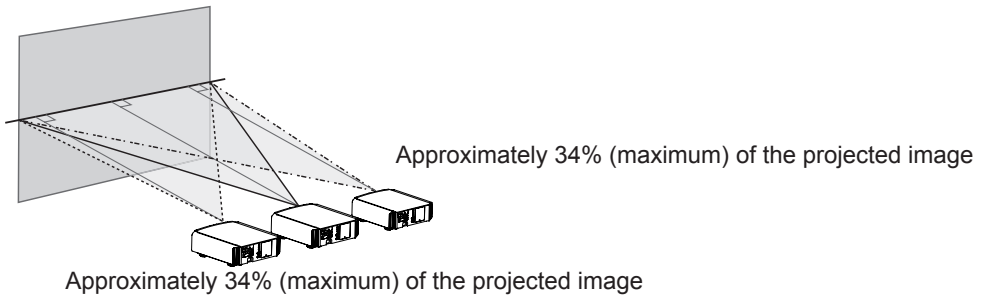


- Malfunctions may occur if the angle is not set within the above-mentioned range.

Shift

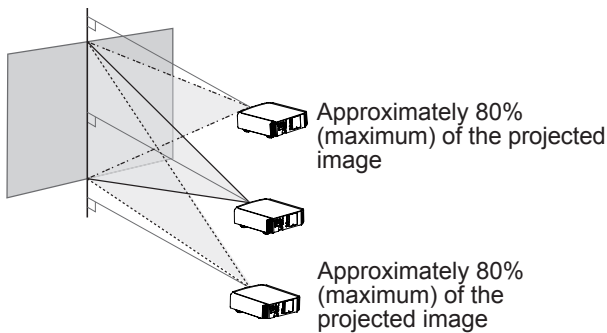
■ Left/Right position

(*) 0% up/down position (center)

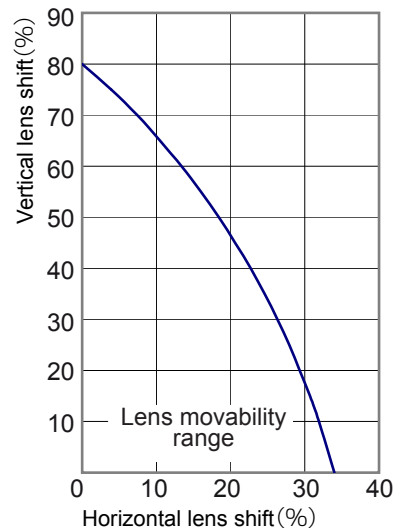


■ Up/Down position

(*) 0% left/right position (center)



■ Lens shift movement range



Lens shift correlation chart:

Left-Right Shift(%)	0%	10%	20%	30%	34%
Up-Down Shift(%)	80%	66%	47%	18%	0%

- Maximum Up-Down shift varies with the amount of Left-Right shift. Likewise, maximum Left-Right shift varies with the amount of Up-Down shift.
- The values on the chart are intended to act as a guide. Use them for reference during installation.

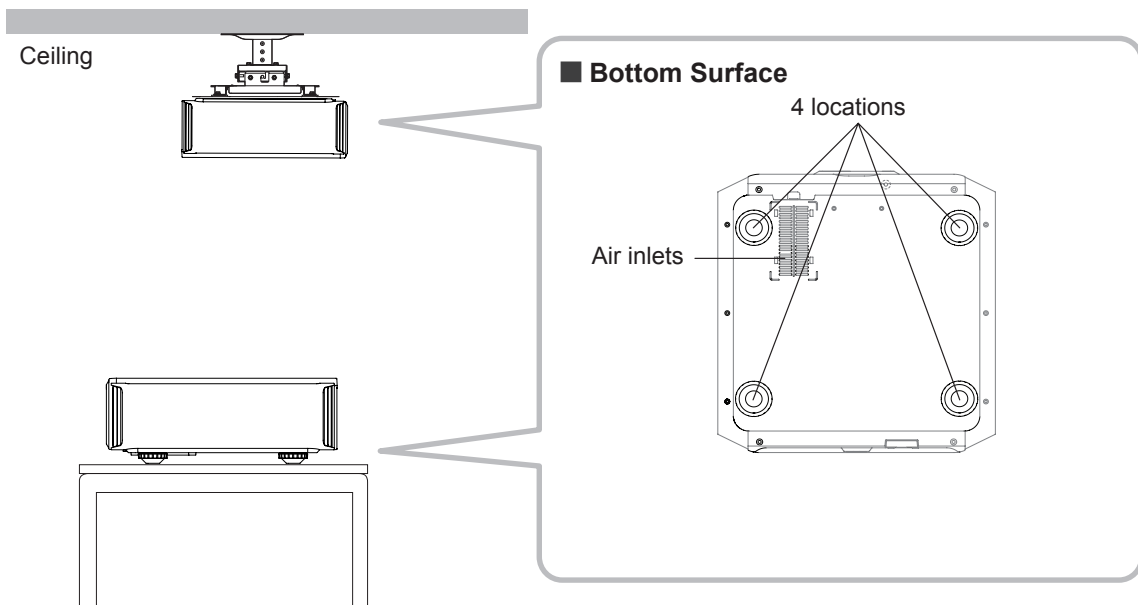
Preparation

About installation (Continued)

Fixation of the projector

Measures to prevent the unit from toppling or dropping should be taken for safety reasons and accident prevention during emergencies including earthquakes.

When mounting this unit on a pedestal or ceiling, remove the 4 feet on the bottom surface and use all the 4 screw holes (M5 screws) to mount.



Precautions for Mounting

- Special expertise and techniques are required for mounting this unit. Be sure to ask your dealer or a specialist to perform mounting.
- Depth of the screw holes (screw length) is 23 mm. Use screws shorter than 23 mm but longer than 13 mm.
Using other screws will result in malfunctioning or cause the unit to drop.
- When mounting to a pedestal, ensure sufficient space (foot height of 10 mm or higher) around the unit so that the air inlets are not blocked.
- Do not tilt this unit more than ± 5 degrees from side to side when using.
- Regardless whether the unit is still under guarantee, JVC is not liable for any product damage caused by mounting the unit with non-JVC ceiling fittings or when the environment is not suitable for ceiling-mount.
- When using the unit hanging from a ceiling, pay attention to the surrounding temperature. When a heater is in use, temperature around the ceiling is higher than expected.

About installation (Continued)

Screen Size and Projection Distance

Determine the distance from the lens to the screen to achieve your desired screen size.
This unit uses a 2.0x power zoom lens for projection.

Relationship Between Projection Screen Size and Projection Distance

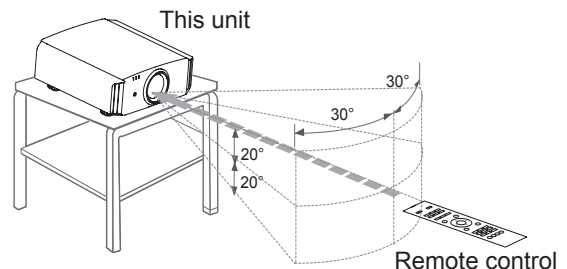
Projection Screen Size (Height, Width) Aspect Ratio 16:9	Approximate Projection Distance W(Wide) to T(Tele)
60" (Approx. 0.7, 1.3m)	Approx. 1.78m to Approx. 3.66m
70" (Approx. 0.9, 1.5m)	Approx. 2.09m to Approx. 4.28m
80" (Approx. 1.0, 1.8m)	Approx. 2.40m to Approx. 4.89m
90" (Approx. 1.1, 2.0m)	Approx. 2.70m to Approx. 5.51m
100" (Approx. 1.2, 2.2m)	Approx. 3.01m to Approx. 6.13m
110" (Approx. 1.4, 2.4m)	Approx. 3.31m to Approx. 6.75m
120" (Approx. 1.5, 2.7m)	Approx. 3.62m to Approx. 7.36m
130" (Approx. 1.6, 2.9m)	Approx. 3.92m to Approx. 7.98m

Projection Screen Size (Height, Width) Aspect Ratio 16:9	Approximate Projection Distance W(Wide) to T(Tele)
140" (Approx. 1.7, 3.1m)	Approx. 4.23 m to Approx. 8.60m
150" (Approx. 1.9, 3.3m)	Approx. 4.53m to Approx. 9.22m
160" (Approx. 2.0, 3.5m)	Approx. 4.84m to Approx. 9.84m
170" (Approx. 2.1, 3.8m)	Approx. 5.14m to Approx. 10.45m
180" (Approx. 2.2, 4.0m)	Approx. 5.45m to Approx. 11.07m
190" (Approx. 2.4, 4.2m)	Approx. 5.75m to Approx. 11.68m
200" (Approx. 2.5, 4.4m)	Approx. 6.06m to Approx. 12.30m

Effective Range of Remote Control Unit

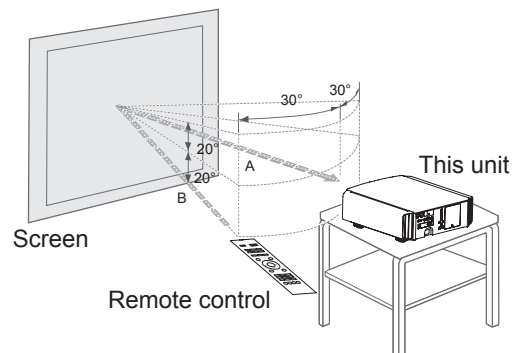
When directing the remote control toward this unit.

- When aiming the remote control towards the remote sensor on this unit, ensure that the distance to the sensor in front or at the rear of this unit is within 7 m.
- If the remote control fails to work properly, move closer to this unit.



When reflecting off a screen

- Ensure that the total of distance A between this unit and screen and distance B between remote control and screen is within 7 m.
- As the efficiency of signals reflected from the remote control unit differ with the type of screen used, operable distance may decrease.



About the connection

Types of possible input signals

Analog Video Input Format signals		480i, 480p, 576i, 576p, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz
Digital Video Input Format signals		480i, 480p, 576i, 576p, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz, 1080p/24Hz, 1080p/50Hz, 1080p/60Hz
3D signal	frame pack method	720p/50Hz, 720p/60Hz, 1080p/24Hz, 1080i/50Hz, 1080i/60Hz
	side by side method	1080i/60Hz, 1080p/60Hz, 1080i/50Hz, 1080p/50Hz, 1080p/24Hz, 720p/50Hz, 720p/60Hz
	top and down method	720p/50Hz, 720p/60Hz, 1080p/24Hz

● PC signal (HDMI)

No.	Designation	Resolution	fh [kHz]	fv [Hz]	dot CLK [MHz]	Total No. of dots [dot]	Total No. of lines [line]	No. of effective dots [dot]	No. of effective lines [line]
1	VGA 60	640 X 480	31.500	60.000	25.200	800	525	640	480
2	VGA 59.94	640 X 480	31.469	59.940	25.175	800	525	640	480
3	SVGA 60	800 X 600	37.879	60.317	40.000	1,056	628	800	600
4	XGA 60	1024 X 768	48.363	60.004	65.000	1,344	806	1,024	768
5	WXGA 60	1280 X 768	47.760	60.000	79.998	1,675	796	1,280	768
6	WXGA +60	1440 X 900	55.919	59.999	106.470	1,904	932	1,440	900
7	SXGA 60	1280 X 1024	63.981	60.020	108.000	1,688	1,066	1,280	1,024
8	WSXGA +60	1680 X 1050	65.222	60.002	147.140	2,256	1,087	1,680	1,050
9	WUXGA 60	1920 X 1200	74.038	59.95	154.000	2,080	1,235	1,920	1,200

About the connection (Continued)

Types of possible input signals (PC compatible)

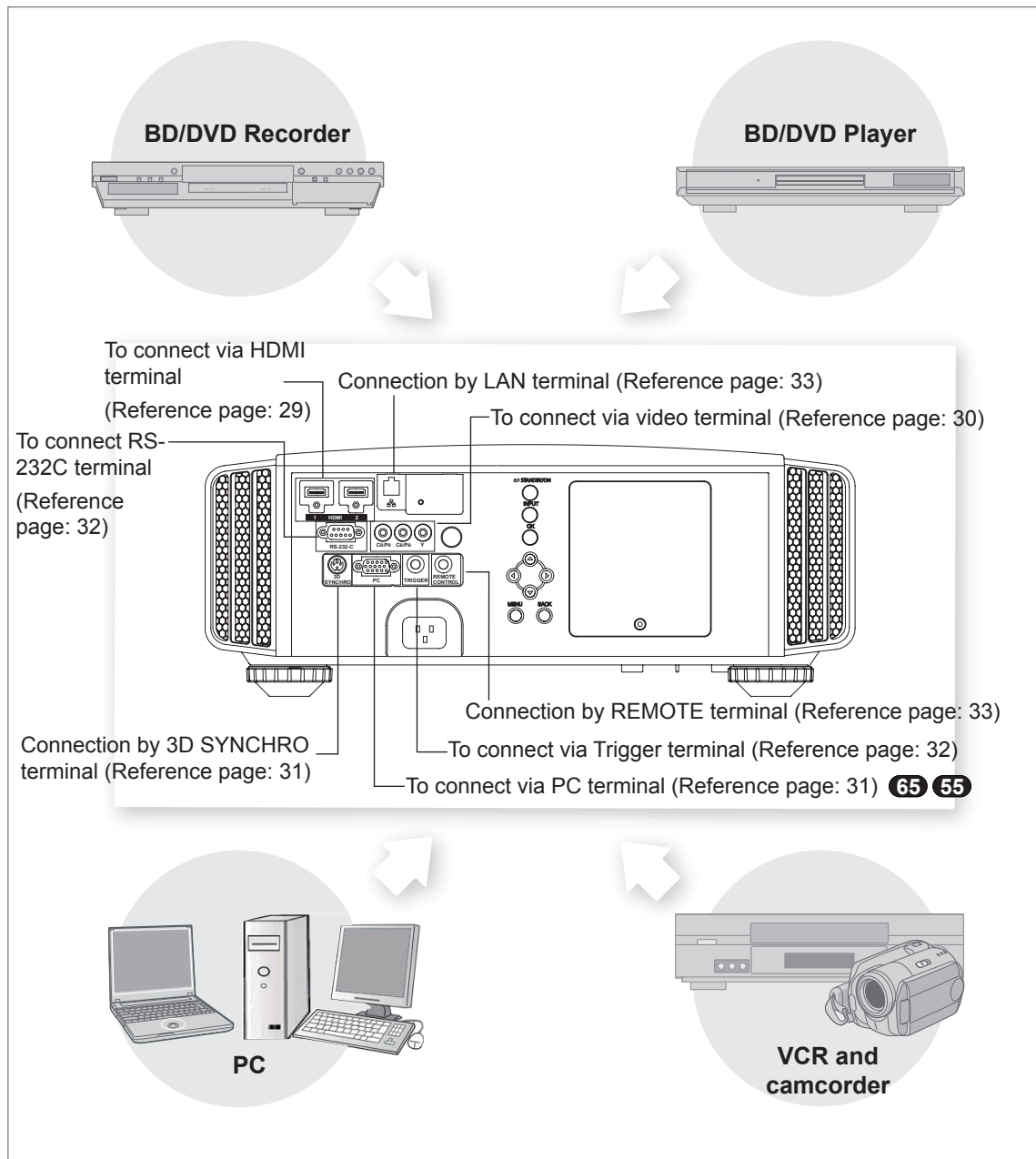
● PC signal (D-sub 3-lines 15 pins) **65** **55**

No.	Designation	Resolution	fh [kHz]	fv [Hz]	dot CLK [MHz]	Total No. of dots [dot]	Total No. of lines [line]	No. of effective dots [dot]	No. of effective lines [line]
1	VGA 60	640 X 480	31.500	60.000	25.175	800	525	640	480
2	VGA 72	640 X 480	37.900	72.000	31.500	832	520	640	480
3	VGA 75	640 X 480	37.500	75.000	31.500	840	500	640	480
4	VGA 85	640 X 480	43.300	85.000	36.000	832	509	640	480
5	SVGA 56	800 X 600	35.200	56.000	36.000	1024	625	800	600
6	SVGA 60	800 X 600	37.900	60.000	40.000	1056	628	800	600
7	SVGA 72	800 X 600	48.100	72.000	50.000	1040	666	800	600
8	SVGA 75	800 X 600	46.900	75.000	49.500	1056	625	800	600
9	SVGA 85	800 X 600	53.700	85.000	56.250	1048	631	800	600
10	XGA 60	1024 X 768	48.400	60.000	65.000	1344	806	1024	768
11	XGA 70	1024 X 768	56.500	70.000	75.000	1328	806	1024	768
12	XGA 75	1024 X 768	60.000	75.000	75.750	1312	800	1024	768
13	XGA 85	1024 X 768	68.700	85.000	94.500	1376	808	1024	768
14	WXGA 60	1280 X 768	47.760	60.000	79.998	1675	796	1280	768
15	WXGA+ 60	1440 X 900	55.919	59.999	106.470	1904	932	1440	900
16	SXGA 60	1280 X 1024	64.000	60.000	108.000	1688	1066	1280	1024
17	SXGA+ 60	1400 X 1050	63.981	60.020	108.000	1688	1066	1400	1050
18	WSXGA+ 60	1680 X 1050	65.222	60.002	147.140	2256	1087	1680	1050
19	1920x1080 60	1920 X 1080	67.500	60.00	148.500	2200	1125	1920	1080
20	MAC13"	640 X 480	35.000	66.667	30.240	864	525	640	480
21	MAC16"	832 X 624	49.107	75.087	55.000	1120	654	832	624
22	MAC19"	1024 X 768	60.241	74.927	80.000	1328	804	1024	768

About the connection (Continued)

Connection to the unit

- Do not turn on the power until connection is complete.
- The connection procedures differ according to the device used. For details, refer to the instruction manual of the device to be connected.
- This device is used for image projection. Connect to an audio output device such as amplifier and speaker for audio output from the connected device.
- **The images may not be displayed depending on the devices and cables to be connected.** For HDMI cable (sold separately), only use one that is HDMI-approved.
- It may not be possible to connect to this unit depending on the dimension of the connector cover of the cables to be connected.



About the connection (Continued)

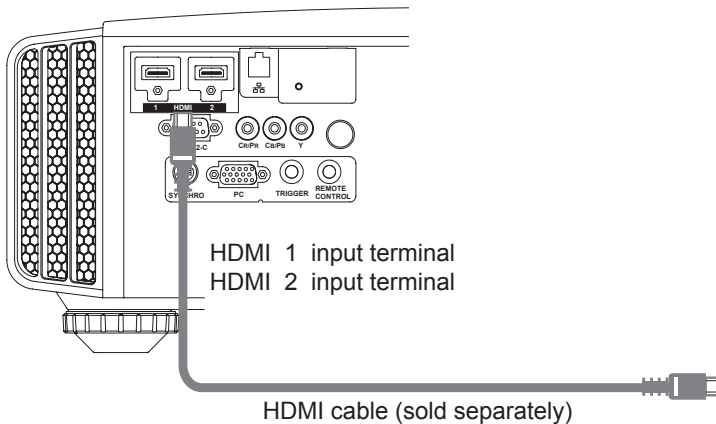
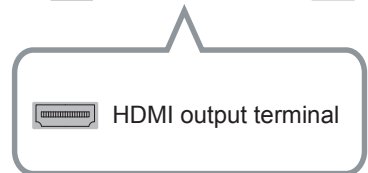
■ Connecting via HDMI Cable

This unit

Notebook PC



BD/DVD recorder



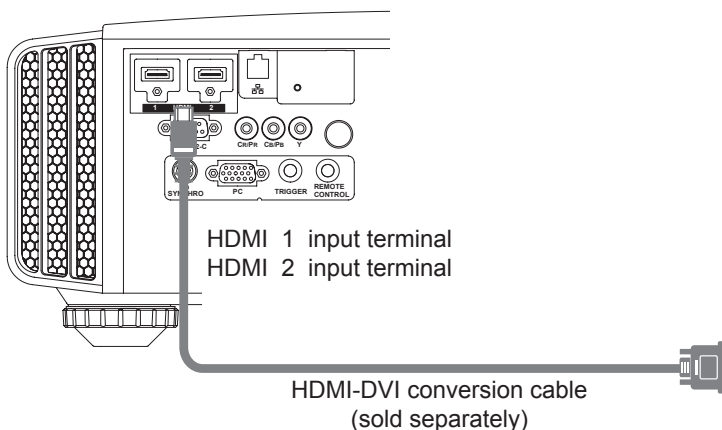
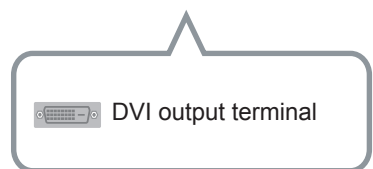
Preparation

- If noise is produced, take PCs (Notebook PC) away from this unit.
- For a transmission bandwidth in compliance with the HDMI standard, a 340MHz cable is recommended. In case a cable is used for transmission bandwidth of 75MHz, it is recommended to choose 1080i or less for the transmitting equipment.
- If the video is not displayed, try to reduce the length of the cable or lowering the resolution of the video transmitting equipment.

■ Connecting via HDMI-DVI Conversion Cable

This unit

Desktop computer

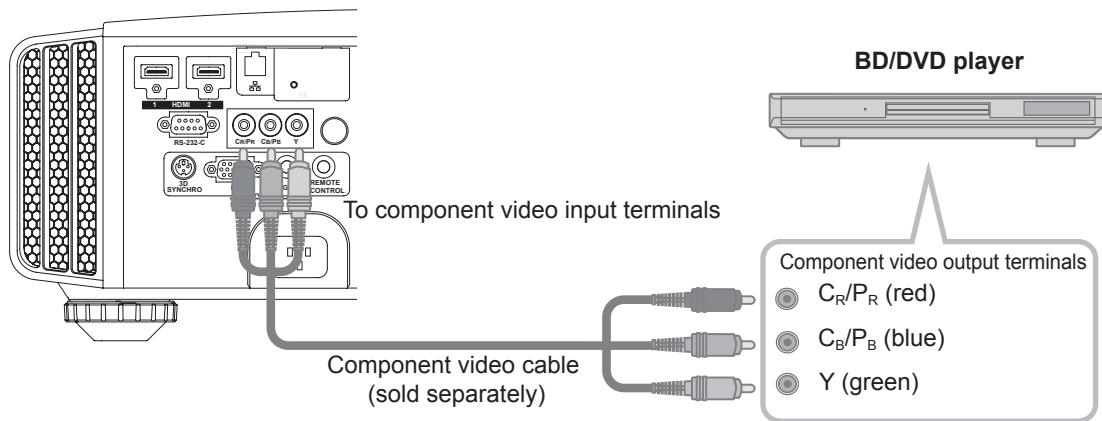


- If noise is produced, take PCs (desktop computer) away from this unit.
- If the video is not displayed, try to reduce the length of the cable or lowering the resolution of the video transmitting equipment.

About the connection (Continued)

■ Connecting via Component Video Cable

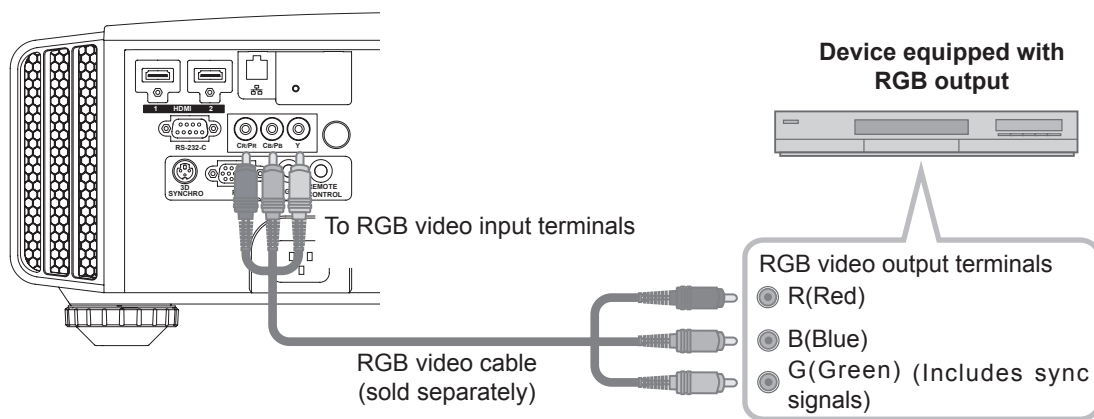
This unit



- Set "COMP." in the setting menu to "Y Pb/Cb Pr/Cr". (Reference page: 60)

■ Connecting via RGB Video Cable

This unit

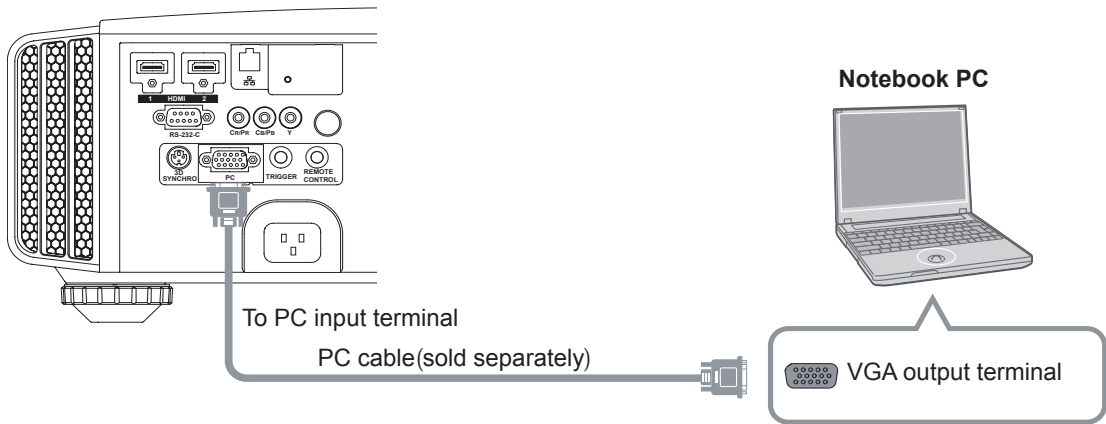


- Set "COMP." in the setting menu to "RGB". (Reference page: 60)
- For information on compatible input signals, see "Specifications". (Reference page: 92)

About the connection (Continued)

■ Connecting via PC Cable 65 55

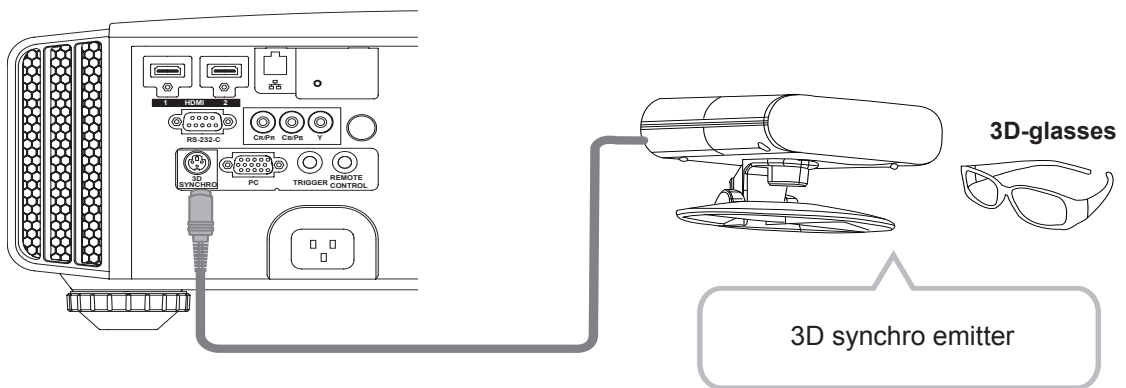
This unit



- For information on supported input signals, please refer to "Specifications". (Reference page: 92)

■ Connected by a 3D SYNCRO terminal

This unit



- 3D syncro emitter: This is a dedicated terminal for PK-EM1 (sold separately).
- The PK-EM1 infrared sometimes affects other infrared communication devices.
- 3D glasses (PK-AG1-B, PK-AG2-B) is an optional device, and is not included in the 3D syncro emitter.



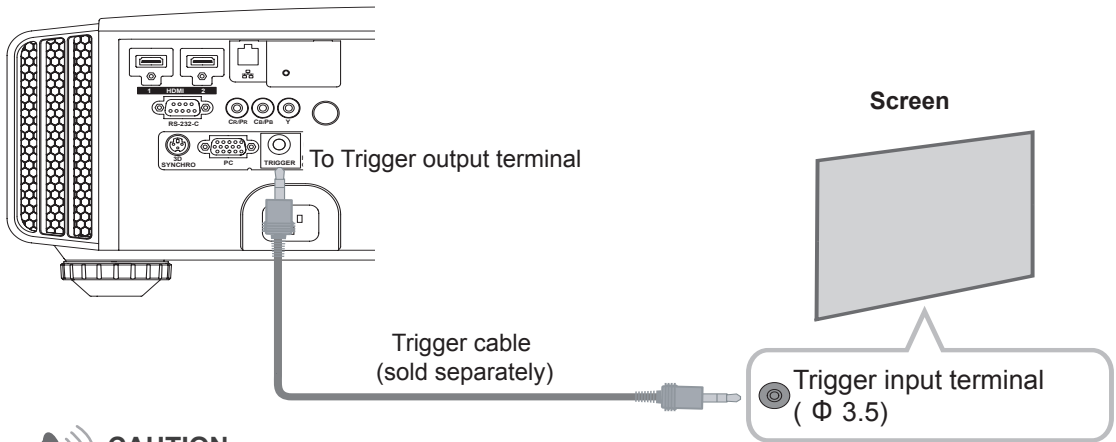
CAUTION

- Note that converting 2D images to 3D ones using the 3D feature of this product, and playing them for commercial purposes or for broadcasting in public places may infringe the rights of authors protected under the copyright laws.
- 3D images may appear different depending on the ambient temperature and lamp usage. Stop using the projector if images cannot be projected correctly.
- Before you watch 3D video images, make sure to read "3D description of the system". (Reference page: 75 to 77)

About the connection (Continued)

■ Connecting via Trigger Cable

This unit

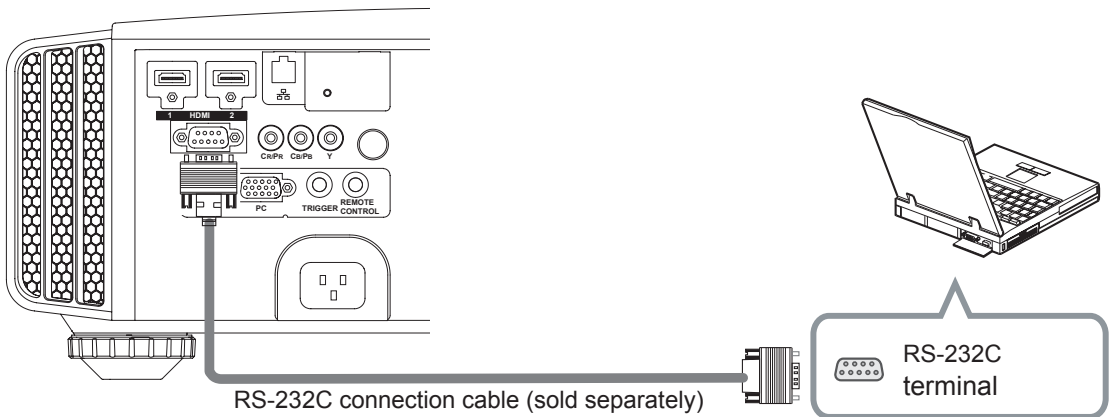


CAUTION

- Do not supply the power to the other devices.
- Do not connect audio terminals of the other devices such as headphones etc. Otherwise, this may cause a malfunction of the other devices or injury.
- Using beyond the rated value will cause malfunction.
- Exercise adequate caution to prevent short circuit as the trigger terminal outputs a voltage of 12V.
- The default is set to "No output". Please set it under the item "Trigger" of menu [5] "Function". (Reference page: 72)

■ Connected by RS-232C connection cable

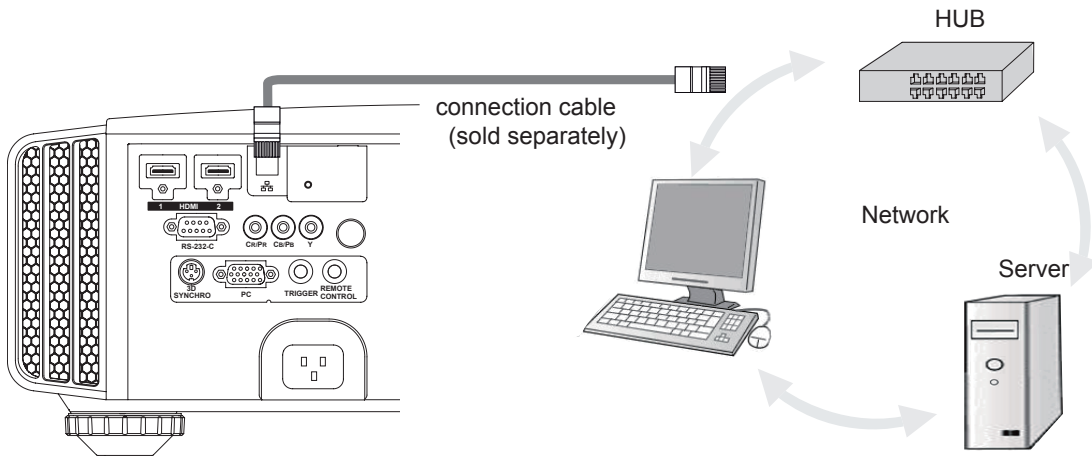
This unit



About the connection (Continued)

■ Connected by LAN terminal

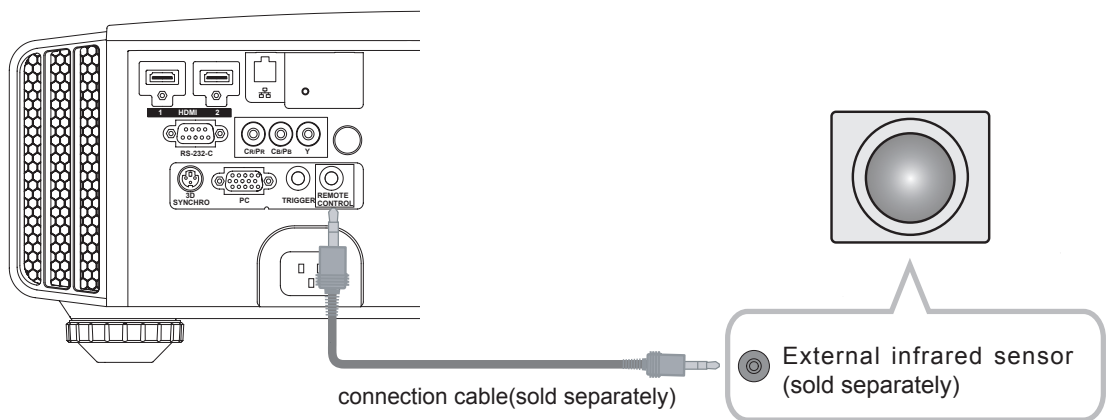
This unit



- The network is used to control the unit. It is not used for transmission of the video signal.
- Please contact your network administrator for questions concerning the network connection.

■ Connected by a REMOTE terminal

This unit

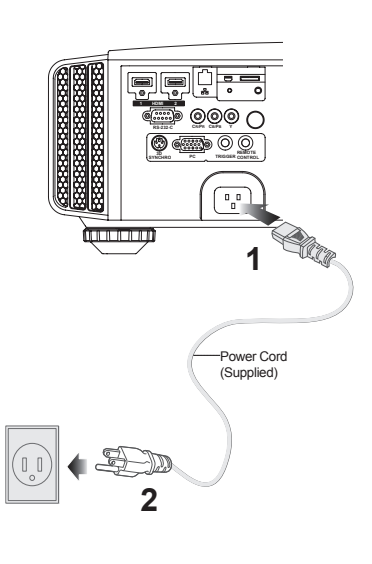


- For an external infrared sensor and connecting cable, please contact your dealer.

About the connection (Continued)

Connection of the power cord (provided)

Once you have connected the equipment, connect the projector power cord.



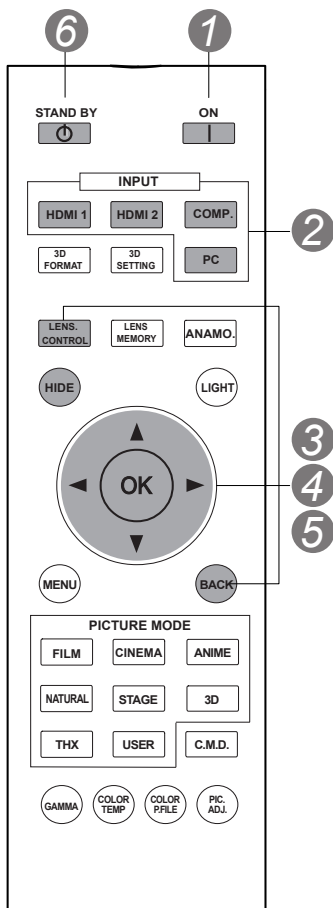
- 1 Connect the power cord supplied with the unit power input terminal
- 2 Connect to the power outlet

Be careful to avoid fire and electric shocks



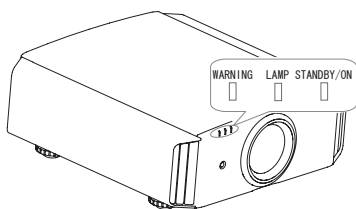
- As the amount of electrical energy for this unit is large, please connect it directly into the wall outlet.
- When you are not using the equipment, please unplug the power cord.
- Connect it only with the provided power cord.
- Do not use voltage other than the indicated power voltage.
- Do not damage, break or modify the power cord. Moreover, the power cord will be damaged if you place it under heavy objects, heat or pull it.
- Do not unplug with wet hands.

Basic Operation



65 55

45 : The same button arrangement is used for the operations in this explanation.



Basic operation procedures

Once you have finished the basic setup, the unit can normally be used just with the following operations.

1 Turn on power source



- You can also press the button on the unit to turn on the power. (Reference page: 16)

- The lens cover will be opened. **65 55**

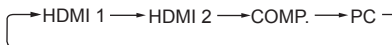
Remove the lens cover. **45**

(*) Be sure to remove the lens cover when you use the product Projection without removing the lens cover may cause the product to malfunction.

2 Choose the projected image

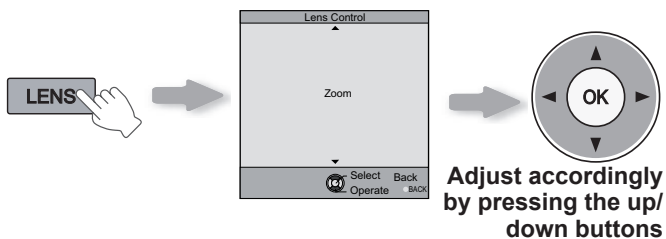
1 Select input mode

- You can also select the input mode by pressing the button on the unit. (Reference page: 16)

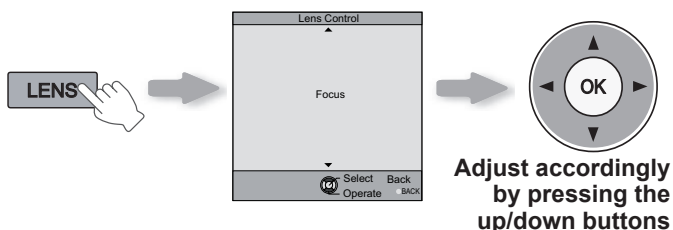


2 Play back the selected device

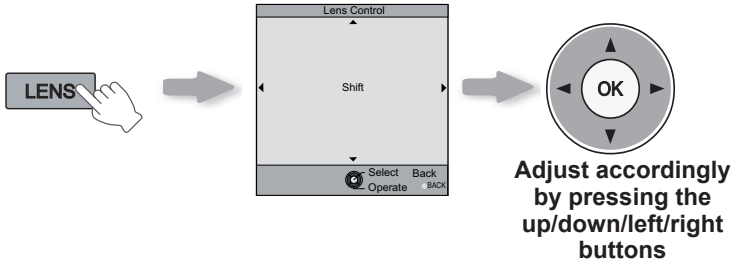
3 Adjust the zoom (screen size)



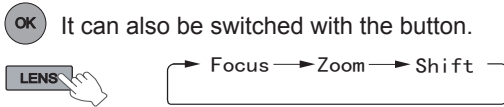
4 Adjust the focus (focal point)



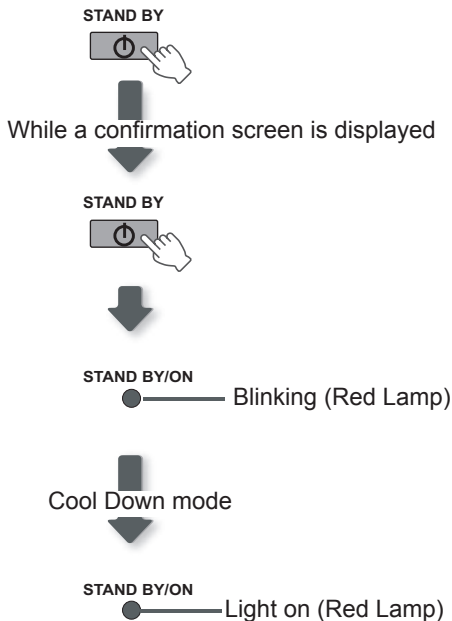
5 Adjust the shift (image position)



- After adjusting the image position, it may be necessary to select "Pixel Adjust" from the Settings menu "Installation". (Reference page: 66 to 67)
- Every time the **LENS** button is pressed, the adjustment item will be switched among "Focus", "Zoom" and "Shift".



6 Turn off power source



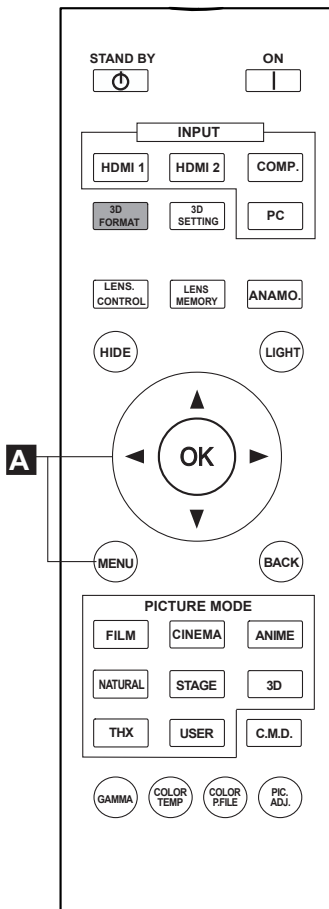
- When power off, the lens cover will be closed. **65 55**
Set the lens cover. **45**
- The power cannot be turned off within approximately 90 seconds after it has been turned on. Start operation only after 90 seconds time.
- You can also press the **⏻/⏸** button on the unit to turn off the power. (Reference page: 16)
- Pull out the power plug when the unit will not be used for a prolonged time.



About Cool Down mode

- The Cool Down mode is a function to cool down the lamp for approximately 60 seconds after projection is complete. This function prevents the internal parts of the unit from deformation or damage due to overheating of the lamp. It also prevents lamp blowout and premature shortening of lamp life.
- During Cool Down mode, the [STANDBY/ON] indicator blinks in red.
- After the Cool Down mode is complete, the unit automatically returns to standby mode.
- Do not pull out the power plug during Cool Down mode. This may shorten the lamp life and cause a malfunction.
- The slide cover will not close if the [Lens Cover] is set to [Open] in the [3. Installation] - [3-1. Lens Control] menu. (Reference page: 66)

Basic Operation (continued)



65 55

45 : The same button arrangement is used for the operations in this explanation.

Frequently used useful functions

You can change the screen size of the projected image or hide the surrounding area of an image for which quality at the outer area has deteriorated.

- ▲ Setting the Screen Size
- Masking the Surrounding Area of an Image
- Temporary turning-off of the video
- Adjustment of the keystone correction

A Setting the Screen Size

The projected image can be set to a most appropriate screen size (aspect ratio).

- When PC signals are input, the “Aspect(Computer)” setting will be available instead. (Reference page: 60)

■ Input Image and Projected Image by Different Screen Size

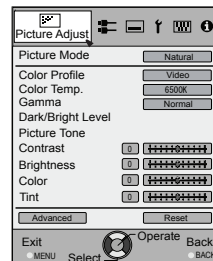
1 Project the image



← 4:3 video signal

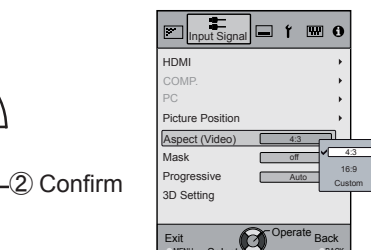
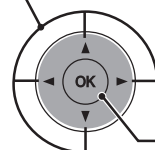
2 Aspect the image

1 Display the setting menu

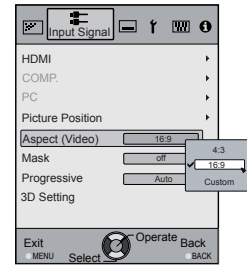
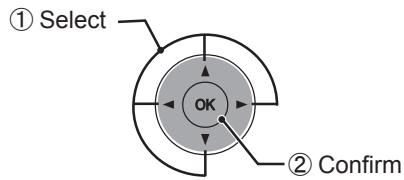


2 Select “Input Signal” → “Aspect (Video)”

① Select



3 Set a Aspect value



Example:

When the "Aspect" value is changed from "4:3" ➔ "16:9"



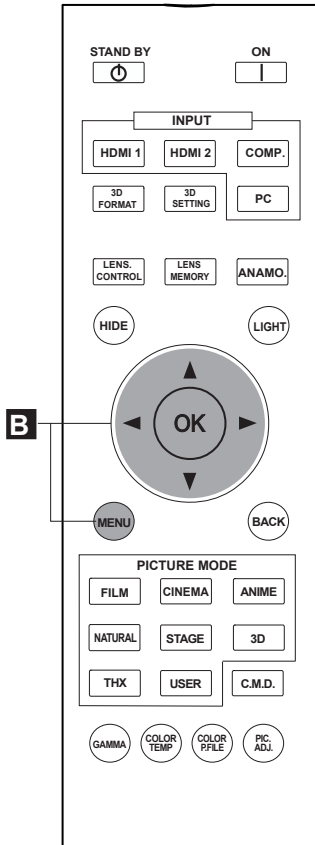
3 To end



- Depending on the input image, selecting "4:3" may result in a vertically stretched image, while selecting "16:9" provides you with the most appropriate screen size.
- When there is 3D signal input, the ratio is fixed to "16:9".

MEMO

- Masking is available only when high definition images are input.



65 55

45 : The same button arrangement is used for the operations in this explanation.
 (*) When there is a 3D input signal, adjustment is not possible.

Example:
 When the "Mask" value is changed from "Off" → "5%"

B Masking the Surrounding Area of an Image

Images for which quality at the outer area has deteriorated can be projected by masking (hiding) the surrounding area of the projected image.

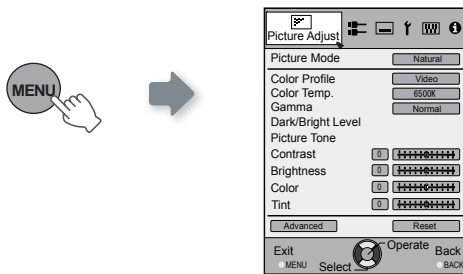
1 Project the image



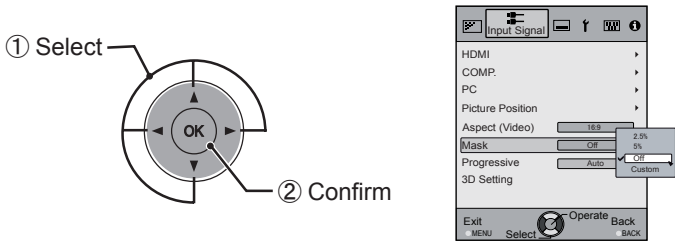
← Image for which quality at the outer area has deteriorated.

2 Mask the image

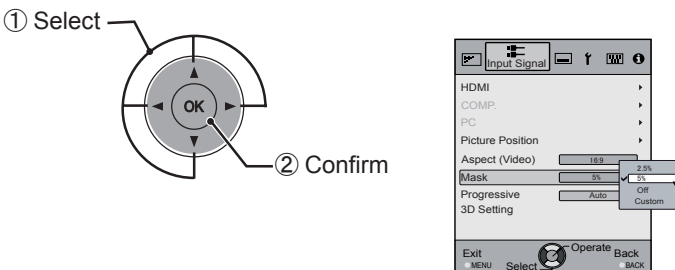
1 Display the setting menu



2 Select "Input Signal" → "Mask"



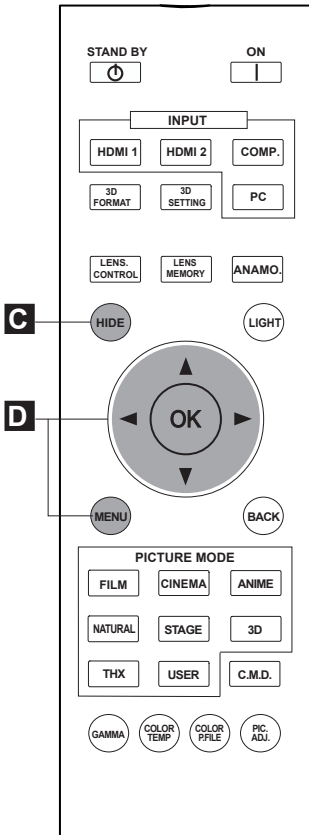
3 Set a mask value



3 To end



Basic Operation (continued)



65 55

45 : The same button arrangement is used for the operations in this explanation.

C Temporary turning-off of the video

You can hide the image temporarily.



STANDBY/ON



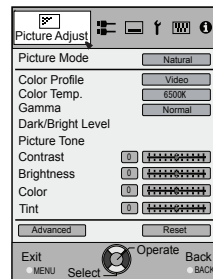
Green light blinks when the image is hidden.

- Press the **HIDE** button again to display image.
- The power cannot be turned off when the image is temporarily hidden.

D Adjustment of the keystone correction

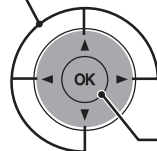
In regards to the projection plane, any occurring keystone distortion is adjusted in case the installation location is inclined.

1 Display the setting menu

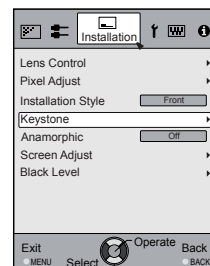


2 Select "Installation" → "Keystone"

① Select



② Confirm



3 Adjusts keystone correction

If one presses the cursor (vertical and horizontal arrows) in the keystone correction mode, the keystone distortion can be adjusted.

Adjust horizontal distortion with the cursors for left and right.



Adjust vertical distortion with the cursors for up and down.



- When there is a 3D input signal, adjustment is not possible. Moreover, even if the keystone correction is adjusted, keystone correction is removed when there is a 3D input signal.

4 Exit

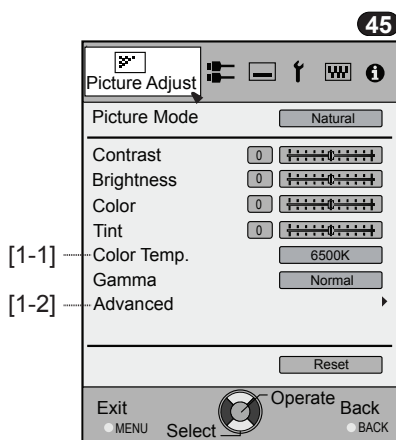
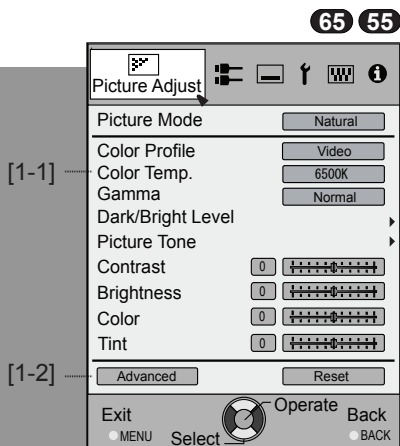


Adjustments and settings in the menu

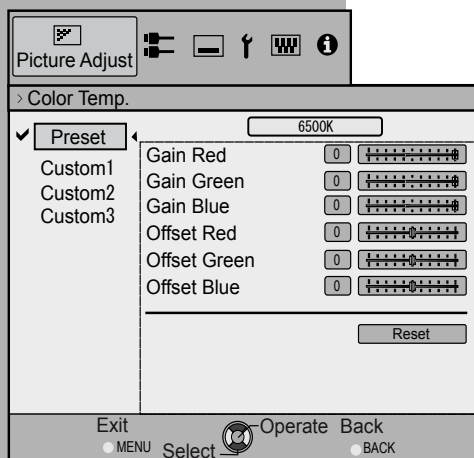
Structure of the menu hierarchy (summary)

The Menu of this unit is organized as follows. As this is only a brief guideline, items, which might not be displayed due to certain settings, are still displayed in the illustration. Moreover, in regard to , it shows countermeasures for all kinds of devices, but there the values for setting and adjustment might be different. See “Description of menu items” (Reference: Since 52 and following) for details. It can be moved to subscreens used for adjustment, even for items that do not feature submenus.

[1] Picture Adjust



[1-1] Color Temp.



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Continue to the next

Adjustments and settings in the menu (continued)

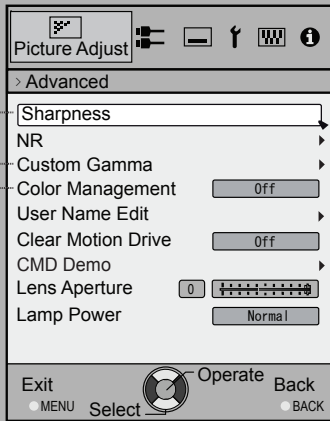
[1-2] Advanced

65 55

[1-2-1]

[1-2-2]

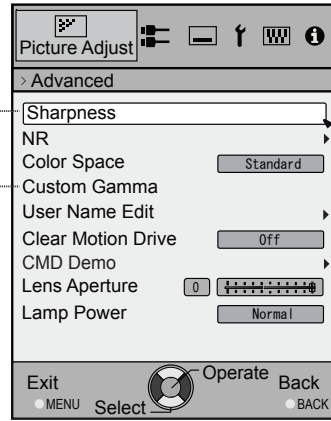
[1-2-3]



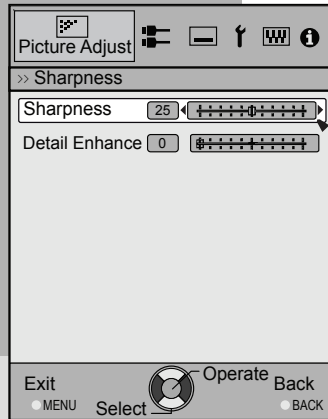
45

[1-2-1]

[1-2-2]



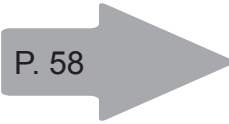
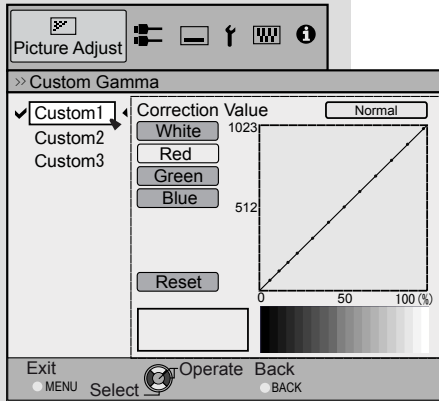
[1-2-1] Sharpness



Continue to the next

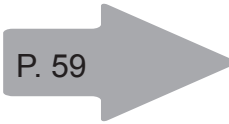
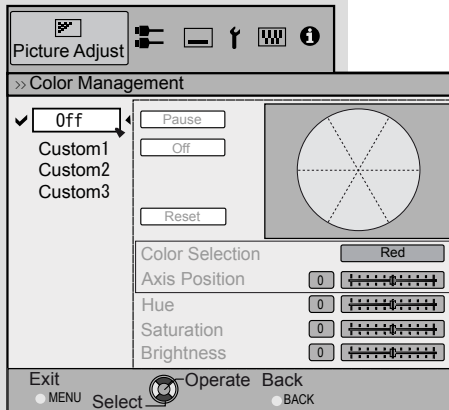
Adjustments and settings in the menu (continued)

[1-2-2] Custom Gamma



[1-2-3] Color Management

65 55

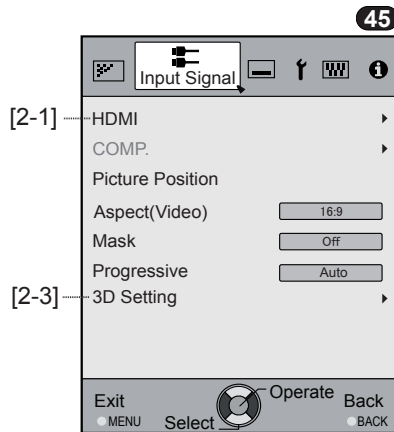
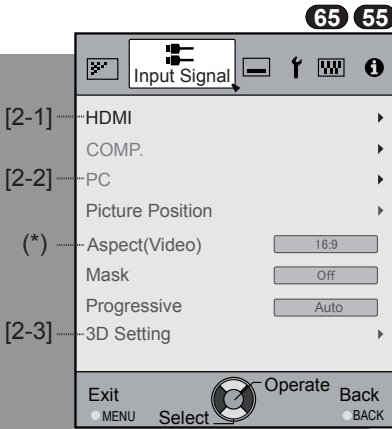


Adjustments and settings in the menu (continued)

[2] Input Signal

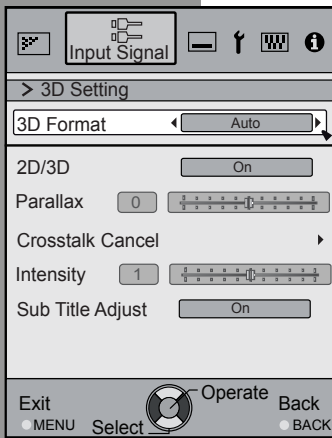
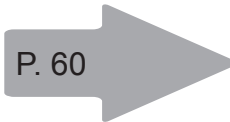
When inputting 2D signals

When inputting 2D signals

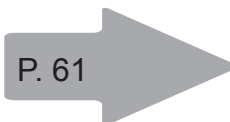
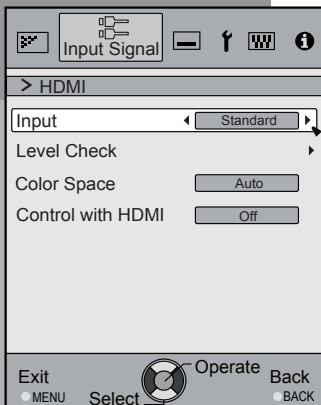


(*) When there is a PC signal input, "Aspect (PC)" is displayed.

The "Input Signal" menu display during 3D signal input is the same as the menu display for "[2-3] 3D Setting".



[2-1] HDMI

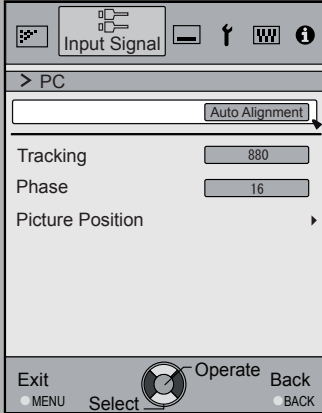


Continue to the next

Adjustments and settings in the menu (continued)

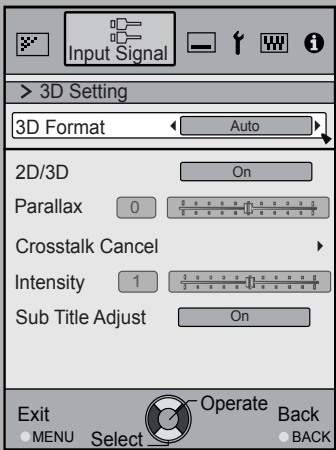
[2-2] PC

65 55



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[2-3] 3D Setting

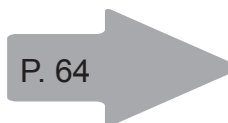
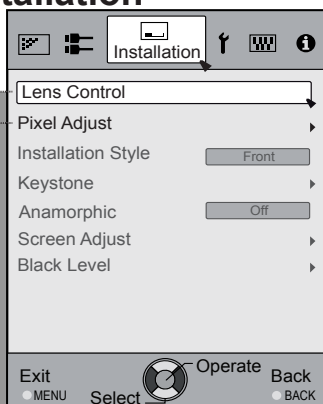


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Adjustments and settings in the menu (continued)

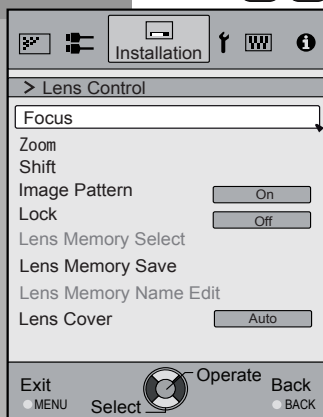
[3] Installation

[3-1]
[3-2]

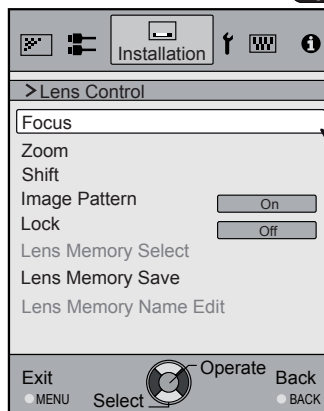


[3-1] Lens Control

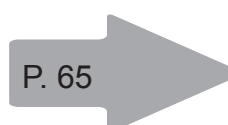
65 55



45

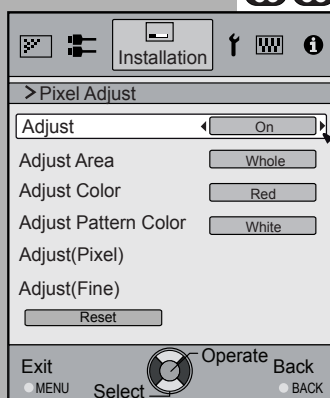


Operation

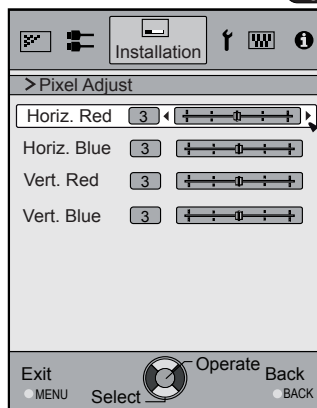


[3-2] Pixel Adjust

65 55

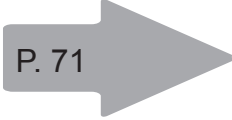
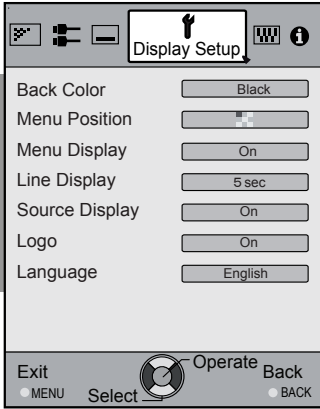


45

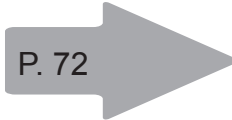
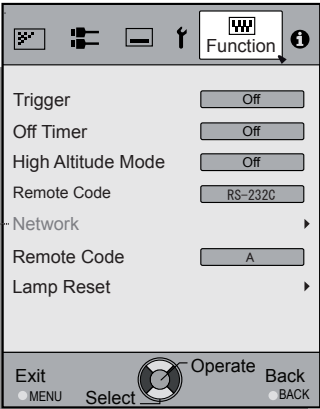


Adjustments and settings in the menu (continued)

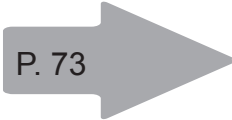
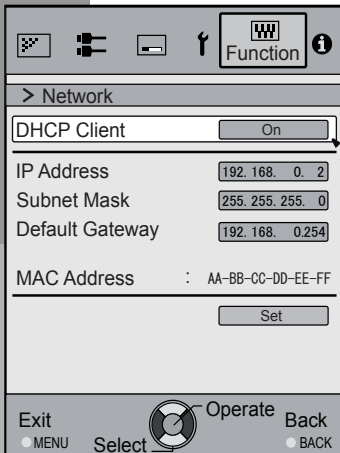
[4] Display Setup



[5] Function



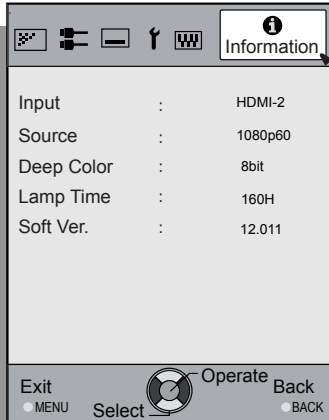
[5-1] Network



Adjustments and settings in the menu (continued)

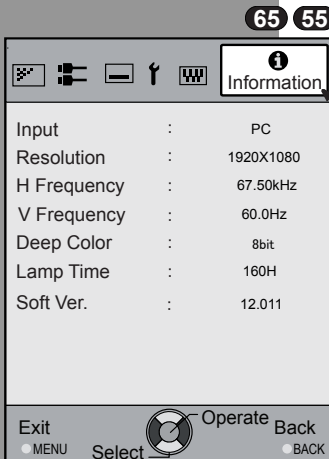
[6] Information

When inputting HDMI signals



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When inputting PC signals

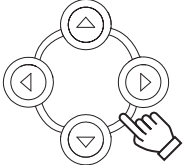
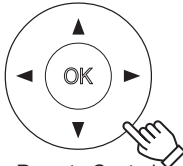


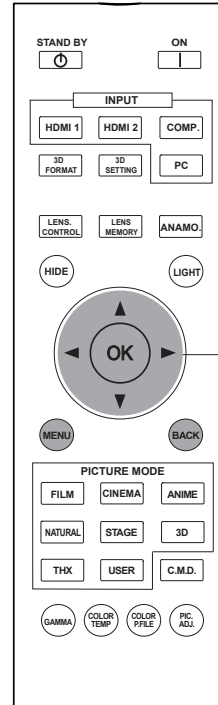
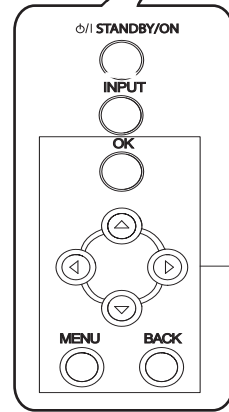
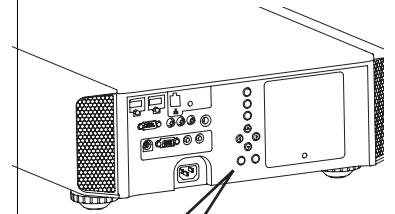
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Adjustments and settings in the menu (continued)

Menu operation button

Operate the menu by use of the buttons on the main body or the remote control.

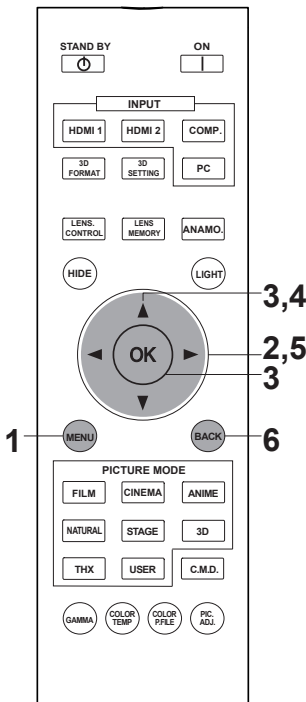
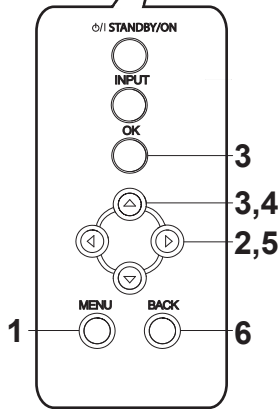
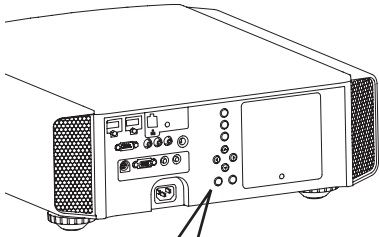
Button		Function
This unit	Remote Control	
MENU	MENU	Menu is displayed. ● While the menu is displayed, the menu screen is turned off.
OK	OK	While showing "Main menu" (Layer 1) selected items are confirmed, and "Submenu" (Layer 2) will be displayed. When the submenu is displayed, press OK, and the displayed items in the selection are moved to the "Setting screen" (Layer 3).
BACK	BACK	Return to the previous menu screen. The menu screen is turned off when the main menu screen is shown.
 This unit	 Remote Control	<p>Displaying the main menu and the submenu</p> <p>◀▶ : Select an adjustment item in the menu. Set the setting value of the selected adjustment item. The adjusted setting value is immediately reflected in the image.</p> <p>▼▲ : Selection of a displayed sub-menu item. Selection of an item in the menu.</p>



65 55

45 : The same button arrangement is used for the operations in this explanation.

Adjustments and settings in the menu (continued)



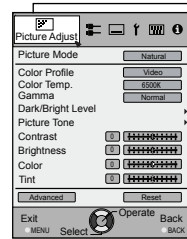
65 55

45 : The same button arrangement is used for the operations in this explanation.

Menu operation procedure

1 Press MENU.

The main menu is displayed on the screen.



The submenu items, which are currently selected, are shown. Currently selected menu items are highlighted and the icon is colored in orange.

The submenu items, which are currently selected, are displayed.

This displays the remote control operation guide.

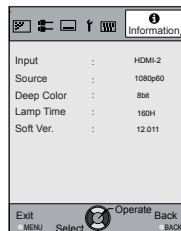
Example: Picture Adjust **65 55**

2 Press cursor (◀ / ▶) to select a submenu.

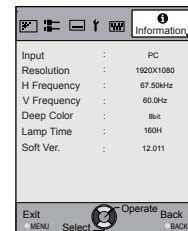
- A submenu (picture adjust, input signal, installation, display setup, function, information) is selected:
- If one selects "Information", information about the currently selected video input and PC input are displayed at the bottom of the menu.

3 Press OK or cursor (▲ / ▼).

- Sub-menu item is displayed.
- Sub-menu items vary depending on the input signal and the picture mode. See "Content menu" on the next page for more details.



Example: Input of signals other than PC signals



Example: When inputting PC signals

4 Press the cursor (▲ / ▼) to select the items to adjust.

If the name of a submenu item is displayed in a dimmed manner, it cannot be selected.

5 Press cursor (◀ / ▶) to change settings.

6 After adjusting, press BACK.

Every time it is pressed, you will return to the respective previous menu screen.

7 Repeat steps 6-2 to adjust other items.

After all adjustments are done, press MENU, and the menu disappears from the screen.

Operation

Adjustments and settings in the menu (continued)

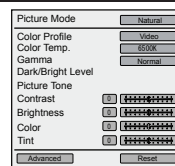
Menu item description

All numbers for the items within [] are default settings.

- It is possible to operate all items displayed in the menu display by pressing OK/BACK or the cursor (up, down, left, right arrows).
- Displayed items vary depending on the selected item in the menu and type of input signal or absence of a signal.

[1] Picture Adjust

Adjust the video image contents and projector projection environment picture to your preferred color, gamma, brightness and other settings. Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.



Items	Explanation, operation, precautions, settings
Picture Mode	Please refer to the description of each mode, and then use the mode to best suited for you. Moreover, it is possible to adjust the image quality by using a User 1-5. Settings: Film, Cinema, Animation, Natural, Stage, 3D, THX, User 1-5.
	[Natural]
Film	This quality setting is similar to the texture of the film setting. It is suitable for watching movies in general.
Cinema	This image setting is based on the DCI standard and brings to life brightly colored pictures. Suitable for viewing action movies and brightly colored images. DCI: Shorthand for Digital Cinema Initiatives.
Animation	An image quality setting for watching animation movies and the like.
Natural	It is an image quality setting with natural color/tone. Suitable for viewing video material, such as dramas/serials.
Stage	This image quality setting is suitable for watching of live events, e.g. on a stage.
3D	This is an image quality setting for watching 3D movies.
THX 65 55	It is an image setting certified by the company THX.
User 1	The User 1-5 should adjust the image quality as desired in each case. Data of the last adjustment is saved. Edit to set your preferred your username using the "[1-2] Advanced" "User Name Edit" function.
User 2	
User 3	
User 4	
User 5	
Color Profile 65 55	It selects a color profile to suit the input source. Depending on the settings, the items that can be set in the "Picture Mode" vary. (See Table 1) The color profile is selected based on the video production. We recommend to match the color profile of the video you want to watch. (*) If you select "Off", it is impossible to perform any picture adjust for other color temp. other than "Lamp power" and "Lens aperture" under "Advance", and also not gamma or sharpness. Setting: Film 1, Film 2, Cinema 1, Cinema 2, Standard, Anime 1, Anime 2, Video, Vivid, Adobe, Stage, 3D, Off, Custom 1-5. [Depending on the picture mode, the default values will change. (See Table 1)]
Film 1	This is a profile that comes close to a color space that resembles using a Xenon lamp to transmit a film used for movies by the Eastman Kodak Company.
Film 2	This is a profile that comes close to a color space that resembles using a Xenon lamp to transmit a film used for movies by the FUJIFILM Corporation.
Cinema 1	This is a profile that resembles the color space of the DCI standard.
Cinema 2	This is a profile that resembles the color space of HDTV.
Standard	It is a profile with an especially rich representation of the film-specific colors. HDTV: Shorthand for High Definition Television.

Adjustments and settings in the menu (continued)

Anime 1	This is a profile suitable for CG-animations, which can be often found in Hollywood-produced animated series. It is intended for animations with multiple bright colors.
Anime 2	This is a profile suitable for animation cel-style animation series, which are common in Japan. It is intended for animations with many dim colors.
Video	This profile is suitable e.g. for TV / drama / sports.
Vivid	This is a profile with rich sense of color, which makes it suitable for games.
Adobe	This is the color profile for Adobe RGB. (*) Adobe, and the Adobe logo are registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
Stage	This profile is suitable for live music, orchestra and opera concerts, theater, etc.
3D	This is the most suitable profile when using 3D-glasses.
Off	It is a mode that does not adjust the color management. 65
Custom 1	You can install the color profile supplied by this JVC. The name changes after installation. 65
Custom 2	
Custom 3	
Custom 4	
Custom 5	

[Table 1] The setting contents and default values of the color profiles for the picture mode

		Picture Mode						
		Film	Cinema	Anime	Natural	Stage	3D	THX
Color Profile	Film 1	Cinema 1	Anime 1	Video	Stage	3D	THX	Everything is displayed except for Film 1,2 and THX.
	Film 2	Cinema 2	Anime 2	Vivid	Standard	Standard		
		Standard	Standard	Adobe		Vivid		
				Standard				

This is the default value according to the picture mode.

Adjustments and settings in the menu (continued)

Color Temp.	It is possible to set the color temp. To "[1-1] Color Temp." of the submenu
Gamma	It is possible to set the gamma curve. Please set to your preference. Settings: Normal, A (3D), B (3D), Film 1, Film 2, Film 3 Film 4, A, B, C, D, Custom 1, Custom 2, Custom 3 [Normal]
Normal	Typically we recommend this setting. (*) You cannot configure Normal Mode when the "Picture Mode" is set to "Film" or "3D".
A (3D) B (3D)	A (3D), B (3D) can only be set, if the "Picture Mode" is "3D". This is a standard gamma curve for 3D. A (3D) will be brighter.
Film 1	Film 1, 2, 3, 4 can only be set if the "Picture Mode" is set to "Film" . This is a gamma curve that approximates the characteristics of an Eastman Kodak Company film for movies. 65 55
Film 2	This is a gamma curve that approximate the gamma curve characteristics of a cinematographic film made by the FUJIFILM Corporation.
Film 3	This is a gamma curve that is even more focused on tone for the gamma of Film 1.
Film 4	This is a gamma curve that emphasizes more contrast for the gamma of Film 2. (*) You cannot configure A, B, C, and D when the "Picture Mode" is set to "Film" or "3D".
A	In regard to normal gamma, this is a gamma curve focused on tone.
B	This is a gamma curve for the film's unique S curve.
C	This is a gamma curve that – in regard to the gamma of B – emphasized even more the feeling of contrast.
D	For normal, this is a gamma curve where the intermediate gradations look very bright.
Custom 1 Custom 2 Custom 3	(*) Custom 1, 2, 3 cannot be configured during 3D signal input and when the "Picture Mode" is set to 3D. Under submenu "[1-2-2] Custom Gamma", it is possible to change the gamma curve and save it. The initial value of Custom 1, 2, and 3 is the same as for "Normal".
Dark/Bright Level	Compensating darkness / brightness of an area. (*) It is possible to set it unless the "Picture Mode" is set to "Film".
Dark Level	Settings: (makes dark areas darker) -7 to 7 (brightens dark areas) [0]
Bright Level	Settings: (darkens bright areas) -7 to 7 (makes bright areas brighter) [0]
Picture Tone	You can reproduce the intensity of the exposure image. (*) This function can be configured when the "Picture Mode" is set to "Film" and "Gamma" is set to "Film 1-4". (*) "Video Tone" is displayed when the "Picture Mode" setting is anything except "Film".
White	Settings: (The more under-exposure, the darker) -16 to 16 (the more over-exposure, the brighter) [0]
Red	Settings: (under-exposure to for red), -16 to 16 (over-exposure for red) [0]
Green	Settings: (under-exposure for green) -16 to 16 (over-exposure for green) [0]
Blue	Settings: (under-exposure for blue) -16 to 16 (over-exposure for blue) [0]
Contrast	Adjusts the contrast of the video images. Settings: (blackish) -50 50 (whitish)
Brightness	You can adjust the brightness of the video image. Settings: (dark) -50 to 50 (bright)
Color	Adjust the color intensity of the video images. Settings: (dim), -50 to 50 (saturated)
Tint	Adjusts the image tint of the video images. Settings: (reddish) -50 to 50 (greenish)
Advanced	Functions such as contour correction, custom gamma and color management can be set to sub-menu "[1-2] Advanced".
Reset	Sets settings to default factory settings.

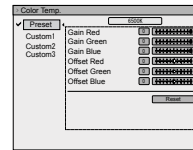
Adjustments and settings in the menu (continued)

[1-1] Color Temp.

Use this function to set the video image color temperature. Adjust according to your preference.

(*) The settings available will vary depending on the "Picture Mode". However, settings cannot be adjusted when "Picture Mode" is set to "THX".

Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.



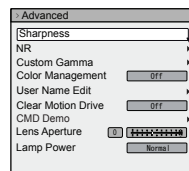
Items	Explanation, operation, precautions, settings
Preset	Set the color temp. of the video images. Please adjust to your preference. (*) For this setting, the setting items can differ in accordance with the "Picture Mode". Adjustment is not possible when set to "THX". Settings: (Preset value), Xenon1, Xenon2, Xenon3, High Bright, Custom 1, Custom 2, Custom 3 [6500]
(Preset value)	The color temp. can be adjusted within the range of 5500K to 9500K in steps of 500K. It is said that a value of 6500K produces a well balanced video image. (*) This cannot be configured when the "Picture Mode" is set to "Film". Settings: Between (reddish) 5500-9500 (bluish) in steps of 500K
(Preset value)	Xenon 1, Xenon 2, Xenon 3 can each be adjusted based on the dark color of the video images.
Red	Settings: (Weak red) -50 to 50 (strong red) [0]
Green	Settings: (Weak green), -50 to 50 (strong green) [0]
Blue	Settings: (Weak blue) -50 to 50 (strong blue) [0]
High Bright	Select this to get the brightest image. (*) This can be configured when the "Picture Mode" is set to "3D". 65 55
Xenon1	This reproduces the color temp. characteristics of a xenon lamp being used in cinemas.
Xenon2	(*) This can be configured only when the "Picture Mode" is set to "Film" or "Cinema". A light source color that is emitted by a film projector.
Xenon3 65 55	A light source color emitted by a projector used for digital cinema. A light source color that looks cooler than that of the Xenon2.
(Preset value)	Xenon 1, Xenon 2, Xenon 3 can each be adjusted based on the dark color of the video images.
Red	Settings: (Weak red) -50 to 50 (strong red) [0]
Green	Settings: (Weak green), -50 to 50 (strong green) [0]
Blue	Settings: (Weak blue) -50 to 50 (strong blue) [0]
Custom 1	You can adjust the color temp. and save each Custom 1, 2, and 3. Please save your preferred adjustment values and enjoy it.
Custom 2	
Custom 3	
Gain	It is possible to adjust the bright part of the video images for each color.
Red	Settings: (Weak red) -255 to 0 (strong red) [0]
Green	Settings: (Weak green) -255 to 0 (strong green) [0]
Blue	Settings: (Weak blue) -255 to 0 (strong blue) [0]
Offset	For each color, the dark areas of the video images can be adjusted.
Red	Settings: (Weak red) -50 to 50 (strong red) [0]
Green	Settings: (Weak green) -50 to 50 (strong green) [0]
Blue	Settings: (Weak blue) -50 to 50 (strong blue) [0]

Adjustments and settings in the menu (continued)

[1-2] Advanced

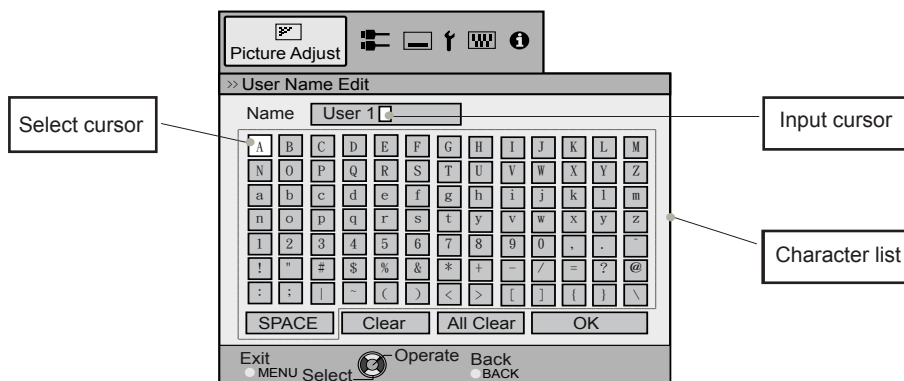
Use this function to set video image contours, overall sharpness, noise reduction mode and video afterimage. You can also create your preferred gamma and color quality.

Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.



Items	Explanation, operation, precautions, settings
Sharpness	You can set the sharpness and detail enhance to "[1-2-1] Sharpness" of the submenu
NR	Reduces the noise of the video images. Please adjust to your preference.
RNR	Adjusts the intensity of random noise elimination of the image. Settings: (Low) 0 to16 (strong) [0]
MNR	Adjusts the intensity of mosquito noise elimination of the video images. (* It is not possible to set it when the "Picture Mode" is set to "3D". Moreover, it is not possible to set it when there is an input of HD input signals. Settings: (Low) 0 to16 (strong) [0]
BNR	Reduces the block noise of the video images. (* It is not possible to set it when the "Picture Mode" is set to "3D" Moreover, it is not possible to set it when there is an input of HD input signals. Settings: On, Off [Off]
Color Space 45	You can switch the color space display of the projector output. Settings: Standard, Wide 1, Wide 2 [Standard]
Standard	Equivalent to the HDTV color space
Wide 1	Equivalent to the color space of the DCI standard
Wide 2	A color space that is broader than Wide1
Custom Gamma	It is possible to set the gamma curve and save it. Please adjust to your preference. To "[1-2-2] Custom Gamma" of the submenu
Color Management	It is possible to set the color of the screen to the preferred color and save it. 65 55 To "[1-2-3] Color Management" of the submenu.
User Name Edit	You can edit the "Picture Mode" User Name. (* No. of characters is limited to 10 (* You can use capital and small alphabet letters, numbers and symbols.
User 1	Select the user name you want to edit.
User 2	Press the [OK] key on the main unit or on the remote control to confirm and enter the edit mode.
User 3	
User 4	(* Press the [BACK] key on the main unit or on the remote control to exit edit mode.
User 5	Doing so will delete the content of your modifications.
Input cursor	This displays the place where you will enter the characters. The cursor will move automatically; it cannot be moved to the left or right.
Select cursor	Move the cursor using the [UP], [DOWN], [LEFT], and [RIGHT] keys on the main unit or on the remote control. Move to the letter you want to enter and press the [OK] key on the main unit or on the remote control to set the letter at the input cursor position in the NAME field.
Clear	Use this function to delete a character. Move the select cursor to the desired location and press the [OK] key on the main unit or on the remote control. This will delete the character to the left of the input cursor in the Name field.
All Clear	Use this function to delete all characters. Move the select cursor to the desired location and press the [OK] key on the main unit or on the remote control. A delete confirmation message will appear.
OK	Use this function to set your name. Move the select cursor to the desired location and press the [OK] key on the main unit or on the remote control. A save confirmation message will appear.

Adjustments and settings in the menu (continued)



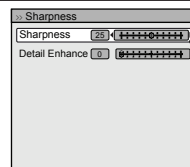
Operation

Clear Motion Drive	<p>It improves video images with fast movements to produce clear video images with little residual image retention.</p> <p>This cannot be set when the PC Signal/3D Signal and "[2-3] 2D/3D" are ON.</p> <p>Moreover, it may happen that the image is distorted in some scenes, or light and dark flashes occur. In this case, please choose "Off", etc., and then a setting of your choice.</p> <p>Settings: Off, Mode 1, Mode 2, Mode 3, Mode 4, Inverse Telecine [Off]</p>
Off	Off
Mode 1	Black insertion weak
Mode 2	Black interpolation strong
Mode 3	Interpolation weak
Mode 4	Interpolation strong
Film Motion	With 60i/60p signals, e.g of TV-broadcast and DVDs, original 24 frame video image footage is changed to a 24 frame display. (*) 24p will not function.
CMD Demo	<p>It is possible to confirm the effect of the setting of Mode 3 and Mode 4 of the Clear motion drive. Upon pressing the button "OK", it will be displayed on all sides of a screen in the center split into two parts. Finally, it will turn to "Off". It cannot be set for PC and 3D signals.</p> <p>Settings: Left, right, top, Bottom, Off [Off]</p>
Left	The left screen displays a demonstration of the Clear motion drive.
Right	The right screen displays a demonstration of the Clear motion drive.
Top	The upper screen displays a demo of the Clear motion drive.
Bottom	The screen below displays a demo of the Clear motion drive.
Off	The Demo of the Clear motion drive is turned off.
Lens Aperture	<p>Adjusts the amount with which the optical iris is squeezed. A setting of 0 means fully opened.</p> <p>Settings: (Dark) -15 to 0 (bright) [0]</p>
Lamp Power	<p>It is possible to change the brightness of the lamp.</p> <p>(*) If continually used with "High", the lamp will become dark earlier.</p> <p>(*) The more one lets the interior temperature of the device rise due to generation of heat, the less the level of tolerance against high temperatures.</p> <p>(*) For about 60 seconds after the lamp is lit, the lamp cannot be switched off.</p> <p>(*) This will be "High" when the "Picture Mode" is set to "3D". 65 55</p> <p>(*) This will be "High" when the "Picture Mode" is set to "3D", "Film" and "Cinema". 45</p> <p>Settings: Normal, High [Normal]</p>
Normal	Normally this setting is chosen.(160W drive)
High	In a bright room, when the video is hard to see, this setting is chosen.(220W drive)

Adjustments and settings in the menu (continued)

[1-2-1] Sharpness

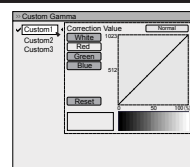
Use this function to set video image contours and overall sharpness according to your preference.
Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.



Items	Explanation, operation, precautions, settings
Sharpness	Emphasizes the outlines of video images. Please adjust to your preference. Settings: 0 to 50 (clear)
Detail Enhance	It makes minute details of the video images stand out. Please adjust to your preference. Settings: 0 to 50 (strong)

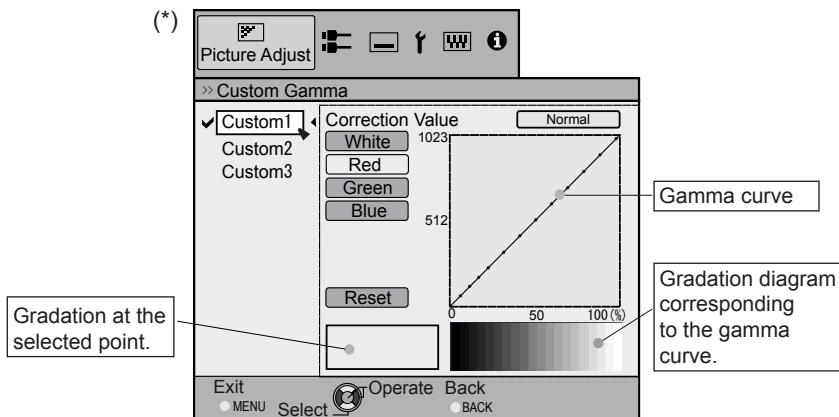
[1-2-2] Custom Gamma

Use this function to create your preferred gamma curve.
Select CUSTOM 1, 2 or 3 using the UP and DOWN keys, then press the [OK] key to set and adjust each item. Press the [BACK] key to return to the previous screen.



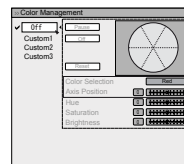
Items	Explanation, operation, precautions, settings
Custom 1~3	[1] It is possible to select a gamma curve adjustment for Custom 1, 2, and 3 under the "Gamma" of the picture adjust and then save it. Please adjust to your preference. (*) Custom 1, 2, 3 cannot be configured during 3D signal input and when the "Picture Mode" is set to 3D. (*) Initial values of Custom 1, 2, and 3 are the same as for "Normal". (*) Please refer to the figure at the bottom of the menu in two frames for adjustment. (*) It is recommended that you read "Gamma Curve" (Reference page: 74) for hints about adjustment.
Correction Value	You can choose to add the underlying gamma curve adjustment. (*) Can choose any setting, as the default gamma curve will always appear linear. Settings: Normal, A, B, C, D (brightens in particular dark to intermediate parts) 1.8 to 2.6 (darkens in particular dark to intermediate parts) in the range of values with increments of 0.1 [Normal]
Gamma Adjustment	The gamma curve for "green" is being displayed as being representative. If "white", "red," "green" or "blue" are selected, the corresponding color curves are displayed. Place the cursor on a gamma curve with 12 points with the buttons for left and right, and then use the buttons for up and down buttons to move those points up or down.
White	Red, green and blue can be adjusted at the same time.
Red	It is possible to adjust the gamma curve of red.
Green	It is possible to adjust the gamma curve for green.
Blue	It is possible to adjust the gamma curve for blue.
Reset	The same data as for the "Normal" mode are used. (*) When you exit the adjustment menu of Custom Gamma, please save the adjustment values. You can return to the original data, which should be saved.

Adjustments and settings in the menu (continued)



[1-2-3] Color Management 65 55

Use this function to create your preferred Color. Select CUSTOM 1, 2 or 3 using the UP and DOWN keys, then press the [OK] key to set and adjust each item. Press the [BACK] key to return to the previous screen.



Items	Explanation, operation, precautions, settings
Custom 1~3	Set the 7 color axis (red / orange / yellow / green / cyan / blue / magenta) color as you like and save it then. For example you may want to change only the red color of roses. Please adjust to your preference. According to your adjustments, the input image in the background changes. It is possible to confirm the video image before adjustment by pressing the "HIDE" button of the remote control.
Pause	It is possible to display the input video image of the background being adjusted as a still picture. Settings: On, Off [Off]
On	Freezes the input video image.
Off	Unfreezes the input video image.
Color Selection	It is possible with the 7 colors of red, orange, yellow, green, cyan, blue and magenta to precisely adjust the hue, color saturation and brightness, and then save it. Please adjust to your preference.
Axis Position	Fine-tune the position of the central axis of the selected color further. Settings: -30 to 30 [0]
Hue	Adjust the hue. Settings: -30 to 30 [0]
Saturation	Adjust the color saturation. Settings: (dim color), -30 to 30 (vivid colors) [0]
Brightness	Adjust the brightness. Settings: (dark) -30 to 30 (bright colors) [0]

Operation

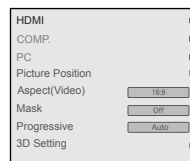
Adjustments and settings in the menu (continued)

[2] Input Signal

Use this function to set the appropriate specifications for the video image signals input from HDMI, COMP and PC. Set the aspect ratio and screen mask.

Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.

(*) This becomes "[2-3]3D Setting" during 3D signal input.



Items	Explanation, operation, precautions, settings
HDMI	It is possible to set this if one selects the HDMI terminal to the submenu "[2-1] HDMI".
COMP.	(*) This can be set when the HDMI terminal is selected.
Color Space	It configures the input signal method of the component input terminal. Settings: Y Pb/Cb Pr/Cr, RGB [Y Pb/Cb Pr/Cr]
Y Pb/Cb Pr/Cr	It is set for the component video image input signal.
RGB	It is set for the RGB video image input signal.
PC (65) (55)	This can be set if one selects the PC terminal to the submenu "[2-2] PC".
Picture Position	Please adjust if the edges of the picture are partially missing due to the timing of horizontal and vertical synchronization signals. The value of the picture position depends on the input signal. (*) Depending on the input signal, it may be the case that not everything of the video image is displayed. (*) When there is a 3D input signal, adjustment is not possible.
Horiz.	This aligns the horizontal direction of the image position.
Vert.	This aligns the vertical positions of the image.
Aspect (Video)	(*) It is displayed when there is a video signal input. (*) If set to 3D, ratio is fixed to 16:9. Settings: 4:3, 16:9, Zoom [16:9]
4:3	Sets the screen size of the image to 4:3. For HD signals, left and right sides are reduced.
16:9	Sets the screen size of the video image screen to 16:9. For SD signals left and right sides are expanded.
Zoom	Zooms the video images. (*) For HD signals, this cannot be selected.
Aspect (PC)	Sets the video image screen size when there is a PC video signal input. (*) Is displayed when there is a PC signal input. Settings: Auto, 1:1, Full [Auto]
Auto	Positions the video image screen in the center of the display range, to fill the screen. Depending on the size of the video screen, left and right black borders will be drawn.
1:1	The video image screen size is displayed with the size of the input image. Depending on the input video image, the screen will become smaller or part of the input image off the screen is cut off.
Full	It does not keep the aspect ratio of the video image screen and fills the entire screen.

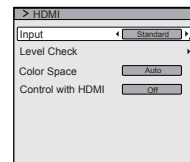
Adjustments and settings in the menu (continued)

Mask	It hides the upper, lower, left and right borders of the screen with a black mask. Can be individually adjusted vertically and horizontally. Please adjust to your preference. (*) When there is a 3D input signal, adjustment is not possible. Settings: Off, 2.5%, 5%, Custom	[Off]
Off	Not masked.	
2.5%	Compared to the original video images, around 2.5% around the video images are masked.	
5%	Compared to the original video images, around 5% around the video images are masked.	
Custom		
Left	Compared to the original video images, around 5% of the video images are masked on the left side. Settings: 0 ~ 5%	[0]
Right	Compared to the original video images, around 5% of the video images is masked on the right side. Settings: 0 ~ 5%	[0]
Top	Compared to the original video images, around 5% of the video images are masked at the upper side. Settings: 0 ~ 5%	[0]
Bottom	Compared to the original video images, around 5% of the video images are masked at the bottom side. Settings: 0 ~ 5%	[0]
Progressive	Interlaced signals (480i/576i/1080i) are converted to progressive signals. Interpolates interlaced signal video images with video images from the surrounding. Please set to your preference. Settings: Auto, Off	[Auto]
Auto	It is automatically detected if the 24p video images, which can be seen in the film screens, interlaced signals from the original video material or if they are the product of signal conversion and are interpolated accordingly.	
Off	The interpolation of video images as interlaced video signals, e.g. video material is done.	
3D Setting	Go to "[2-3] 3D settings" in the submenu.	

[2-1] HDMI

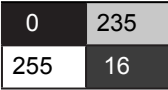
Configure this when using the HDMI terminal.
Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.

(*) This can be set when the HDMI terminal is selected.



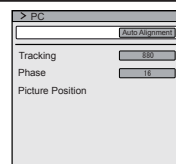
Items	Explanation, operation, precautions, settings	
Input	Sets the dynamic range of the input video images (scale). Dark and bright areas, which are not matched to the range, might get brighter or darker. If you are unsure of the input signal dynamic range, please check under "Level Check". Settings: Standard, Enhance, Super White	[Standard]
Standard	It gets set if the dynamic image range of the gradation level of the input image is set to 16-235. In case of a video signal, please set it up here.	
Enhanced	It is set if the dynamic range of the input video scale level is 0-255. If these are PC signals, please set them here.	
Super White	It is set if the dynamic range of the input video scale level is 16-255. Please set the output to video equipment compatible with Super White for Super White-enabled DVD / BD etc.	

Adjustments and settings in the menu (continued)

Level Check	You can confirm the dynamic range of the input signal. A pattern as shown in the illustration is displayed in the four corners and center of the screen. Please compare the dynamic range of input signal with this pattern illustration and confirm. (*) The number in the illustration is the scale level. This number is not displayed. The illustration of the gradation in the figure is accentuated for explanatory purposes. It is different from the actual scale level.
	
Color Space	It sets the color space of the input signal. Settings: Auto, YCbCr(4:4:4), YCbCr(4:2:2), RGB [Auto]
Auto	YCbCr(4:4:4), YCbCr(4:2:2), RGB signals are automatically detected and configured.
YCbCr (4:4:4)	Sets it if the input of the YCbCr(4:4:4) input video image signal is performed.
YCbCr (4:2:2)	Sets it if the input of the YCbCr(4:2:2) input video image signal is performed.
RGB	It is set when the RGB video signals input is performed.
Control with HDMI	Configured communication of the HDMI equipment control Settings: On, Off [Off]

[2-2] PC 65 55

Configure this when using the PC terminal.
Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.
(*) This can be set when the PC terminal is selected.

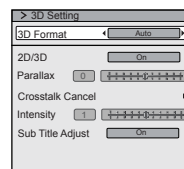


Items	Explanation, operation, precautions, settings
Auto Alignment	The picture position of Tracking and Phase are automatically adjusted.
Tracking	Adjusts the size and display of the horizontal direction and display area of the video images. (Depending on the signal, there is normally no need to be adjusted.)
Phase	Adjusts the flickering and blur of the video images. (Depending on the signal, there is normally no need to adjustment.)
Picture Position	Adjust the display of the picture position.
Horiz	Adjusts the horiz. of the video image.
Vert.	Adjusts the vertical position of the image.

Adjustments and settings in the menu (continued)

[2-3] 3D Setting

Use this function to select the 3D signal mode, turn 2D/3D conversion ON/OFF and to adjust the appearance for 3D video images.
Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.



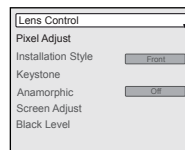
Items	Explanation, operation, precautions, settings
3D Formats	Use this function to set the 3D input signal format. Use the LEFT/RIGHT keys to configure settings. Press the OK key to display the settings list, then use the UP/DOWN keys to select your settings. The [BACK] key will return you to the previous screen. (*) Signals that do not contain 3D data may be treated as normal 2D signals, and, therefore, will not project correctly. In such cases, configure the signal manually. (*) It is recommended to read "About 3D" (Reference page: 75 to 77) before viewing 3D video images. Settings: Auto, Side by Side, Top and Bottom, 2D [Auto]
Auto	These settings are performed automatically.
Side by Side	Select this setting when the 3D input signal is in Side-by-Side mode.
Top and Bottom	Select this setting when the 3D input signal is in Top and Bottom mode.
2D	This is projected as a 2D signal.
2D/3D	Use this function to convert the 2D video image into a quasi-3D video image. The effect may not be visible with some images. Settings: On , Off [Off]
On	Use this function to convert the 2D video image into a 3D video image.
Off	Will not convert to 3D video image.
Parallax	Use this function to adjust the amount of misalignment of the left and right 3D video images. Adjust settings according to your preference using the LEFT/RIGHT keys. Press the [OK] key to display the adjustment gauge window. The [BACK] key will return you to the previous screen. (*) Cannot be adjusted during 3D signal input or when "2D/3D" is ON. Settings: -15~15 [0]
Crosstalk Cancel	Use this function to lessen cross-talk between 3D video images. Adjust settings according to your preference using the LEFT/RIGHT keys. Press the [OK] key to display the adjustment gauge window. The [BACK] key will return you to the previous screen. (*) Can be adjusted during 3D signal input, but not when "2D/3D" is ON.
White	Settings: -8~8 [0]
Red	Settings: -8~8 [0]
Green	Settings: -8~8 [0]
Blue	Settings: -8~8 [0]
Intensity	Use this function to adjust depth perception. Adjust settings according to your preference using the LEFT/RIGHT keys. Press the [OK] key to display the adjustment gauge window. The [BACK] key will return you to the previous screen. (*) This is adjustable when "2D/3D" is ON. Settings: 1~5 [1]
Sub Title Adjust	Use this function to automatically identify subtitles and set 3D conversion ON or OFF. Adjust settings according to your preference. (*) This is adjustable when "2D/3D" is ON. (*) There may be instances where automatic identification does not work, or video images are identified as subtitles. Use the LEFT/RIGHT keys to configure settings. Press the [OK] key to display the settings list, then use the UP/DOWN keys to select your settings. The [BACK] key will return you to the previous screen. Settings: Off , On [Off]
Off	Use this function to make 2D subtitles.
On	Use this function to turn subtitle correction OFF.


Adjustments and settings in the menu (continued)

[3] Installation

Use this function to set and adjust installation method and projection environment.

Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.

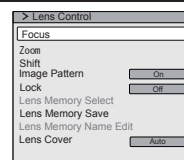


Items	Explanation, operation, precautions, settings
Lens Control	To sub-menu "[3-1] Lens Control"
Pixel Adjust	To sub-menu "[3-2] Pixel Adjust"
Installation Style	Matching the state of the projector's projection, one can switch horizontal and vertical flip / forward switch. Settings: Front, Ceiling Mount (Front), Rear, Ceiling Mount (RE) [Front]
Front	Front upright projection mode.
Ceiling Mount (F)	Ceiling/front projection mode.
Rear	Rear upright projection mode.
Ceiling Mount (R)	Ceiling/ rear projection mode.
Keystone	In regards to the projection plane, any occurring keystone distortion is adjusted in case the installation location is inclined. (*) There may be instances, when the video image - after having corrected keystone distortion - will not match the screen. The position with a shift correction of 0% position is an exception. (*) When there is a 3D input signal, adjustment is not possible.
Horizontal	Adjusts the horizontal keystone. Settings: -40 to 40 [0]
Vertical	Adjusts the vertical keystone. Settings: -30 to 30 [0]
Anamorphic	The video images are projected after being enlarged in the vertical direction of the panel resolution. This setting is used when one uses the anamorphic lens to enlarge them in the horizontal direction. If a 3D signal is fed in when Anamorphic mode is set to A or B, Anamorphic mode is automatically turned Off. Settings: A, B, Off [Off]
A	Video with an aspect ratio of 2.35:1 is enlarged in the vertical direction of the panel resolution and then projected.
B	Video with an aspect ratio of 16:9 are displayed by reducing them in the horizontal direction, without changing their size in the vertical direction.
Off	Used when watching video images other than those with a 2.35:1 aspect ratio while using an anamorphic lens. 2.35:1 video images are projected without any changes. (Black bands appear on all sides)
Screen Adjust	It corrects the white balance fault according to the reflective properties of the projection screen. Please adjust to your preference.
Black Level	Sets the black level when used indoors. Settings: 0 to 10 [0]
	The frame is displayed in the center as shown in the figure on the right. (Resolution is emphasized in this figure and is not a true representation.) The actual black that can be displayed by this machine is shown in the right frame. Adjust so that the borderline shared with the left frame does not stand out. (*) This adjustment decreases shading, making fine adjustments from the black (dark) side to the white (bright) side. Adjust settings according to your preference.

Adjustments and settings in the menu (continued)

[3-1] Lens Control

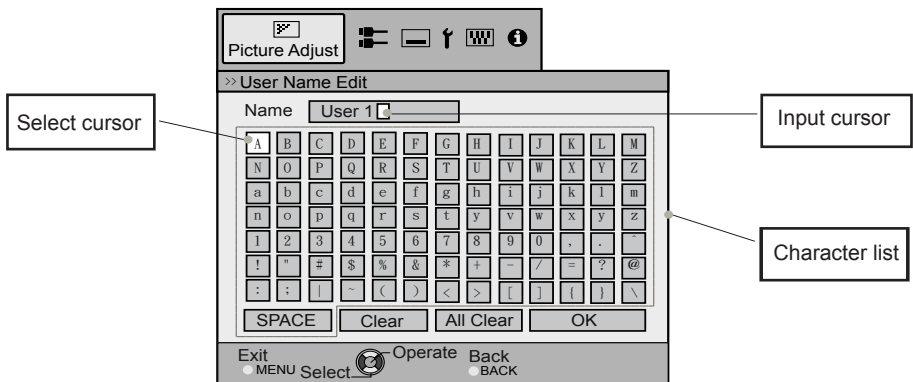
Use this function to adjust focus, zoom and shift. You can also turn image pattern display ON or OFF and save lens position settings during adjustment. Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.



Items	Explanation, operation, precautions, settings
	It controls each motorized functions of the lens during the projector-installation.
Focus	This function is used to adjust the focus.
Zoom	This function is used to adjust the zoom.
Shift	This function is used to adjust the shift.
Image Pattern	It is possible to adjust the projection screen during adjustment of the focus zoom shift. Settings: On, Off [On]
On	During the adjustment, the image pattern is displayed. The image pattern is displayed in conjunction with the above setting items.
Off	The external input signal is displayed without displaying the image pattern.
Lock	This sets the lens control to on/off. Settings: On, Off [Off]
On	It is not possible to adjust the above setting items. If the remote control button "LENS" button is pressed, a warning message is issued.
Off	This functions as lens control function.
Lens Memory Select	Use this function to call up saved lens adjustment data. Configure to automatically adjust the lens to the saved settings. (*) There may sometimes be a slight difference between this and saved conditions.
Lens Memory Save	Select lens focus, zoom and shift settings after adjustments have been made to save the adjustment data at the time of selection. Select Memory 1, Memory 2 or Memory 3 in accordance with your preference. You can also save as a different name when save data.
Lens Memory Name Edit	You can edit the lens memory name. (*) No. of characters is limited to 10. (*) You can use capital and small alphabet letters, numbers and symbols.
Memory1	Select the user name you want to edit.
Memory2	Press the [OK] key on the main unit or on the remote control to confirm and enter edit mode.
Memory3	Press the [OK] key on the main unit or on the remote control to confirm and enter edit mode. (*) A "-" displays if the data is not saved. (*) Press the [BACK] key on the main unit or on the remote control to exit edit mode. Doing so will delete the content of your modifications.
Input cursor	This displays the place where you will enter the characters. The cursor will move automatically; it cannot be moved to the left or right.
Select cursor	Move the cursor using the [UP], [DOWN], [LEFT], and [RIGHT] keys on the main unit or on the remote control. Move to the letter you want to enter and press the [OK] key on the main unit or on the remote control to set the letter at the input cursor position in the NAME field.

Adjustments and settings in the menu (continued)

Clear	Use this function to delete a character. Move the select cursor to the desired location and press the [OK] key on the main unit or on the remote control. This will delete the character to the left of the input cursor in the Name field.
All Clear	Use this function to delete all characters. Move the select cursor to the desired location and press the [OK] key on the main unit or on the remote control. A delete confirmation message will appear.
OK	Use this function to set your name. Move the select cursor to the desired location and press the [OK] key on the main unit or on the remote control. A save confirmation message will appear.



Lens Cover	This function is used to set if the lens cover should be linked with a power supply for opening/closing, or if it should be left open. Settings: Auto, Open	[Auto]
65 55		
Auto	This opens/closes the lens cover when it is linked to on/off of a power supply.	
Open	Regardless if the power supply is on/off, the lens cover is always open.	

[3-2] Pixel Adjust **65 55**

Use this function to adjust slight color errors in the horizontal/vertical directions of the video image. It is recommended to first set the "Adjust Area" to [Whole] and make general adjustments using [Adjust (Pixel)], then make further adjustments using the [Adjust (Fine)] function. Next, set the "Adjust Area" to "Zone" to make partial adjustments.

See Summary "Pixel Adjust Flow and Operation."

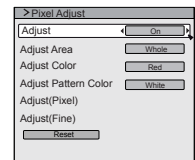
Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.

(*) It is impossible to match all image pixels on the screen. Due to the equipment, there will always be some gaps. Color errors vary depending on screen position.

(*) In case the image is reversed, or upside-down, the horizontal and vertical directions are reversed.

(*) Please perform adjustments on a clear still picture.

(*) For fine tuning, the effects of adjustments may be difficult to understand for some video images.



Items	Explanation, operation, precautions, settings	
Adjust	Use this function to turn the pixel alignment adjust function ON and OFF. Settings: Off, On	[Off]
Adjust Area	Use this function to set the pixel error adjustment range. Settings: Whole, Zone	[Whole]
Whole	Select the entire screen as the adjustment area.	
Zone	The entire screen can be divided into 11X11 sections for adjustment. (*) The size of the zone cannot be changed.	

Adjustments and settings in the menu (continued)

Adjust Color	Use this function to set the color of the pixels you want to adjust. Settings: Red, Blue	[Red]
Adjust Pattern Color	Use this function to set the adjust pattern color. Set according to your preference. Settings: White, Green + (Adjust Color)	[White]
White	Use this function to set the Adjust pattern to white.	
Green + (Adjust Color)	Use this function to set the Adjust pattern to green and the color set using [Adjust Color] items.	
Adjust(Pixel)	Use this function to move the color selected using the [Adjust Color] items for the pixels on the entire screen pixel by pixel in the vertical and horizontal directions. (*) This function cannot be used when the [Adjust Area] is set to [Zone]. H (Horizontal) settings: -2 ~ 2 V (Vertical) settings: -2 ~ 2	[0] [0]
Adjust(Fine)	Use this function to move the color selected using the [Adjust Color] items for the pixels on the entire screen pixel by pixel in the vertical and horizontal directions. H (Horizontal) settings: -31 ~ 31 V (Vertical) settings: -31 ~ 31	[0] [0]
Reset	Setting all pixel adjust data to default factory settings.	

[3-2] Pixel Adjust 45

Use this function to adjust color errors on the horizontal and vertical directions of the video images.

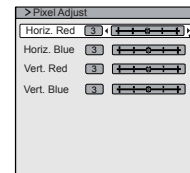
Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.

(*) It is impossible to match all image pixels on the screen. Due to the equipment, there will always be some gaps. Color errors vary depending on screen position.

(*) In case the image is reversed, or upside-down, the horizontal and vertical directions are reversed.

(*) Please perform adjustments on a clear still picture.

(*) For fine tuning, the effects of adjustments may be difficult to understand for some video images.



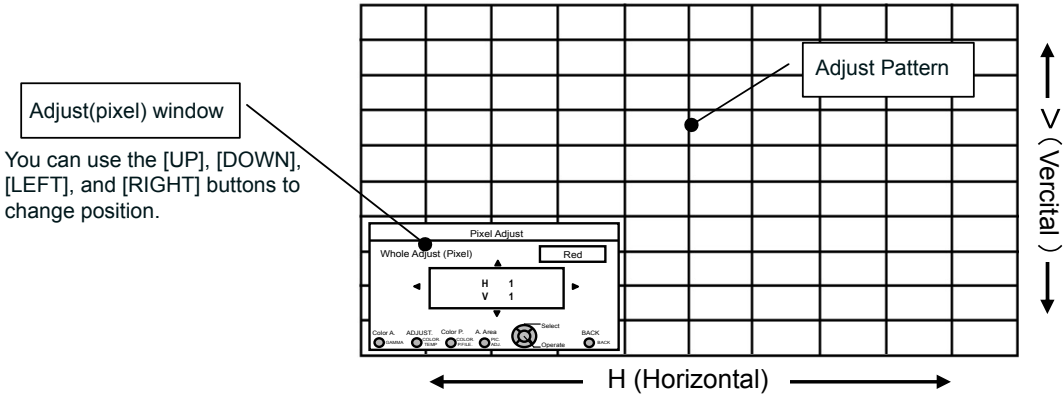
Items	Explanation, operation, precautions, settings	
Horiz. Red	(Move red to the left) 1 to 5 (move red to the right)	[3]
Horiz. Blue	(Move blue to the left) 1 to 5 (move red to the right)	[3]
Vert. Red	(move red down) 1 to 5 (move red up)	[3]
Vert. Blue	(move blue down) 1 to 5 (move blue up)	[3]

Adjustments and settings in the menu (continued)

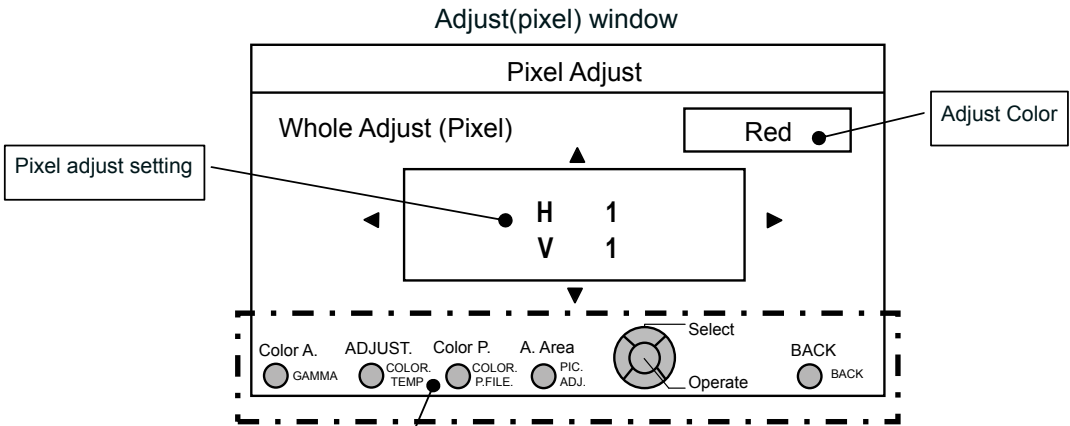
See Pixel Adjust Flow and Operation: Adjust(Pixel)

Use this function to make general adjustments in the slight color errors in the horizontal/vertical directions of the video images.

Select [Adjust Area] to [Whole] and select [Adjust Color] and [Adjust Pattern]. Move the cursor to [Adjust(Pixel)], then press the [OK] Button on the remote control to display the adjust pattern and adjust (pixel) window on the screen.



Press the [OK] button on the remote control to enter the adjust operation mode. Use the [UP], [DOWN], [LEFT], and [RIGHT] buttons to move and adjust pixels in the vertical and horizontal directions across the entire screen. The adjustment settings appear in the center of the Adjust (pixel) window. Use the [BACK] button to exit the adjust operation mode.



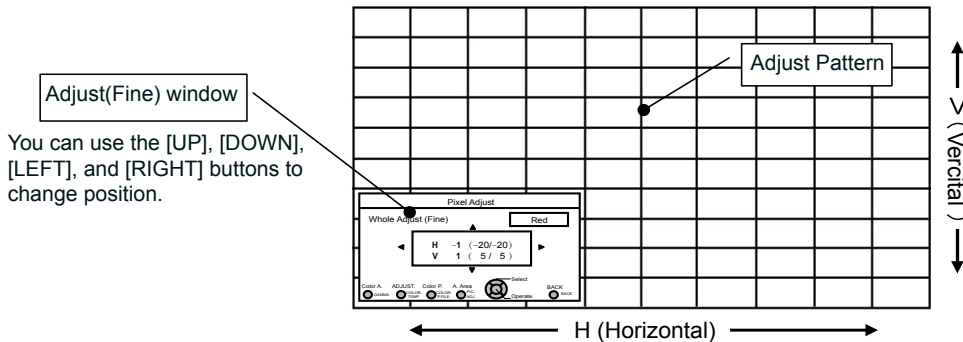
Remote Control Operation Guide

Use the [GAMMA] button on the remote control to change [Adjust color].
 Use the [PIC ADJ] button on the remote control to change [Adjust Area] and switch to the Zone adjust screen. At the same time, the zone cursor will appear on the adjust pattern.
 Use the [COLOR P.FILE] button on the remote control to change [Adjust pattern]. Use the [COLOR TEMP] button on the remote control to change [Adjust (Pixel)] and [Fine Tune] and switch to the fine tune window.
 (*) This becomes [Adjust (Pixel)] when the Adjust Area is set at "Zone".
 You can use the [BACK] button on the remote control to stop pixel adjust. When in Adjust Operation Mode, the [BACK] button will exit the mode.

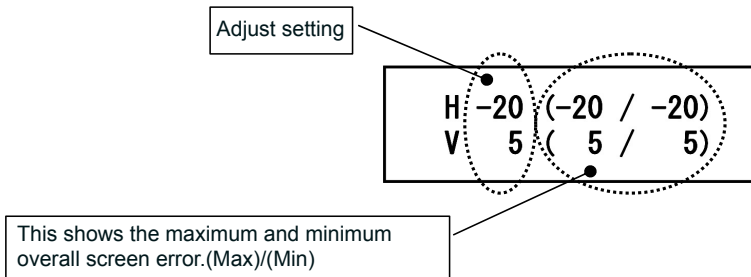
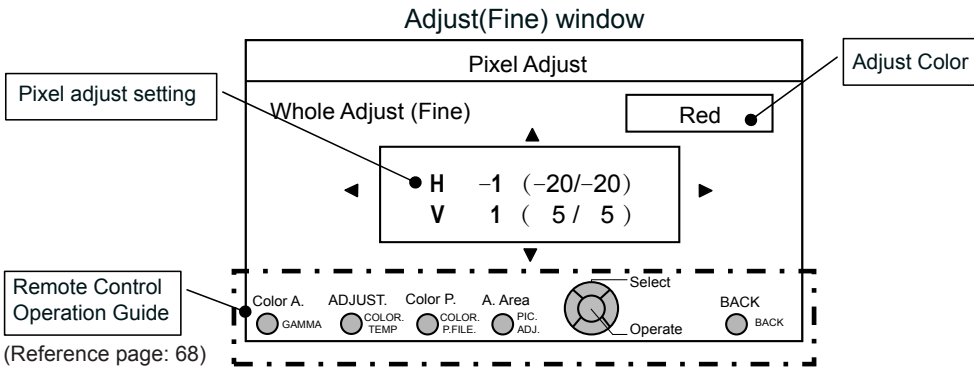
Adjustments and settings in the menu (continued)

See Pixel Adjust Flow and Operation: Adjust(Fine)

After making overall adjustment for error across the entire screen, proceed to fine-tuning. Press the [COLOR TEMP] button on the remote control to display the [Adjust(Fine) Window]. Also, from the main menu, set the [Adjust Area] to [All] and select [Adjust Color] and [Adjust Pattern], then move the cursor to [Adjust (Fine)] and press the [OK] button on the remote control to display the adjust pattern and the fine tune window.
 (*) The range of adjustment may narrow depending on the adjust amount of the entire screen.



Press the [OK] button on the remote control to enter the adjust operation mode. Use the [UP], [DOWN], [LEFT], and [RIGHT] buttons to move and adjust pixels in the vertical and horizontal directions across the entire screen. The adjustment settings appear in the center of the Adjust (Fine) window. Use the [BACK] button to exit the adjust operation mode.



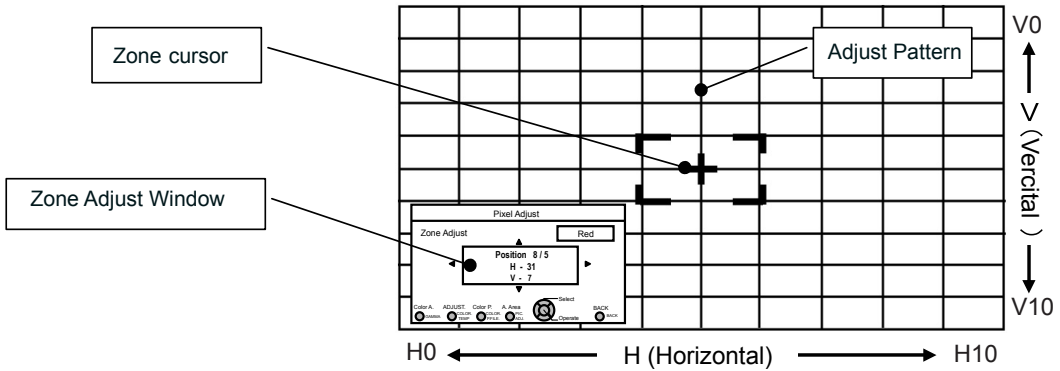
When both H (horizontal direction) and V (vertical direction) show a maximum overall screen error of 31, even if the adjust setting is less than this, you may not configure an adjustment setting that is larger than the displayed setting. Furthermore, when the minimum overall screen error is -31, even if the adjust setting is greater than this, you may not configure an adjustment setting that is larger than the displayed setting.

Adjustments and settings in the menu (continued)

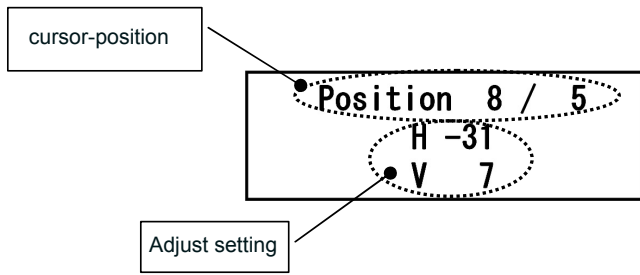
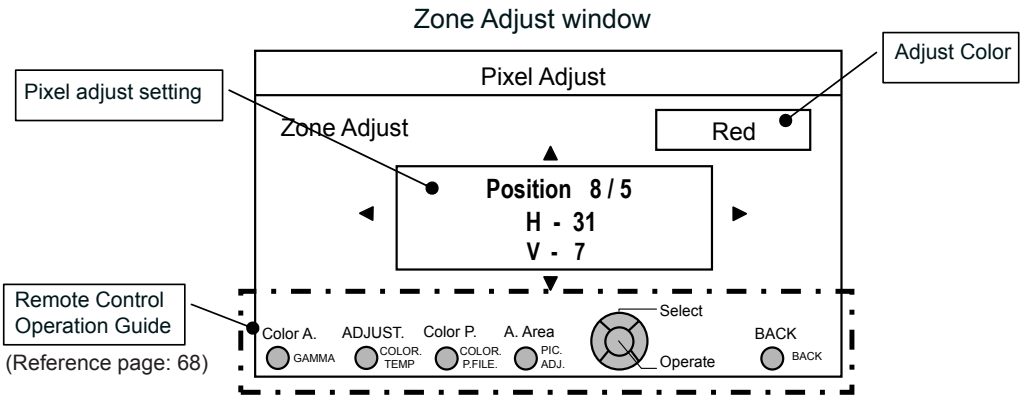
See Pixel Adjust Flow and Operation: Zone Adjust

After making overall adjustment for error across the entire screen, proceed to fine-tuning. The screen can be divided vertically and horizontally into 10 sections to make adjustments. Press the [PIC ADJ] button on the remote control to display the [Zone Adjust Window]. Or, from the main menu, set the [Adjust Area] to [Zone] and select [Adjust Color] and [Adjust Pattern], then move the cursor to [Adjust(Fine)] and press the [OK] button on the remote control to display the adjust pattern and the zone adjust window.

(*) The range of adjustment may narrow depending on the adjust amount of the entire screen.



Use the [UP], [DOWN], [LEFT], and [RIGHT] buttons to move the cursor to the position you want to adjust. Press the [OK] button on the remote control to enter the adjust operation mode. Use the [UP], [DOWN], [LEFT], and [RIGHT] buttons to move and adjust pixels in the vertical and horizontal directions within the zone. The adjustment settings appear in the center of the Zone adjust window along with the cursor position. Use the [BACK] button to exit the adjust operation mode.

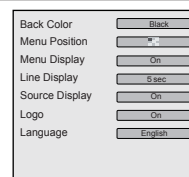


Adjustments and settings in the menu (continued)

[4] Display Setup

Use this function to turn the messages that appear on each screen ON or OFF and to set the background color when there is no signal.

Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.

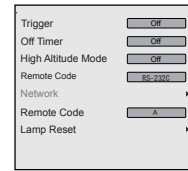


Items	Explanation, operation, precautions, settings	
Back Color	Sets the color of the background, which is displayed without an input signal. Settings: Blue, Black	[Blue]
Blue	Sets the background color to blue.	
Black	Sets the background color to black.	
Menu Position	Sets the picture position of the menu. Please set to your preferred position. Navigate the menu by pressing the left or right keys when you have selected an item. Moreover, if one presses the button [OK], an image illustration appears at the position of the menu. The highlighted position in the illustration moves by use of the left and right keys. If one presses [OK], the menu moves to the highlighted position. If you press the key to the right, the menu will move starting from the top left -> top right -> central -> bottom right -> bottom left and then back to the upper left. By pressing of the left key, the menu moves in the opposite direction.	[Upper left]
Menu Display	Sets the time for the menu to be displayed. Settings: 15 sec, On	[On]
15 sec	If there is no menu operation for 15 seconds, the menu display vanishes.	
On	Display always.	
Line Display	Configures if input is displayed or not when input is switched. Settings: 5 sec, Off	[5 sec]
5 sec	Displays for 5 seconds.	
Off	Not displayed.	
Source Display	Configures whether or not to display the signal, when the input is switched. Settings: On, Off	[On]
On	Display.	
Off	Not displayed.	
Logo	Configures whether or not to display the "D-ILA" logo upon activation. Settings: On, Off	[On]
On	Displayed for 5 seconds.	
Off	Not displayed.	

Adjustments and settings in the menu (continued)

[5] Function

Use this function to set command communications, remote control codes, OFF timer function, etc. You can also reset the lamp time. Use the UP/DOWN keys to select an adjustment item. Press the [BACK] key to return to the previous screen.



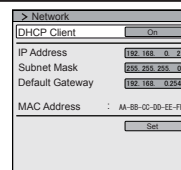
Items	Explanation, operation, precautions, settings	
Trigger	Configures 12V output to an external screen equipped with a trigger function. Settings: Off, On(Power), On(Anamo)	[Off]
Off	No output.	
On (Power)	When turned on, control signals (12V) from the trigger terminal are emitted. If you turn off the power, the output of the control signal stops. During standby mode, an output will occur if the [OK] button is pressed. After cooling, the output stops when you go back to standby.	
On (Anamo)	Control signals (12V) are emitted when the Anamorphic mode is set from "Off" to "A" or "B". If the Anamorphic mode is set to "A" or "B", the operation in this state equals "On (Power)".	
Off Timer	Sets Off Timer function and its time. (*) If there are no operations, the unit powers off automatically. (*) It powers off automatically even while projecting an image. (*) You will be given a warning 60 seconds before power turns OFF. Press the [OK] button while the warning is being displayed to delete the warning display. You cannot configure settings to omit warning display. Settings: Off, 1 hour, 2 hours, 3 hours, 4 hours	[Off]
Off	Power is not turned off.	
1 Hour	Power is turned off automatically after 1 hour.	
2 Hours	Power is turned off automatically after 2 hours.	
3 Hours	Power is turned off automatically after 3 hours.	
4 Hours	Power is turned off automatically after 4 hours.	
High Altitude Mode	Set to use at low pressure locations (900m above sea level). Settings: On, Off	[Off]
On	Set.	
Off	Do not set.	
Communication Terminal	Sets the used control terminal. It is not possible to use it at the same time. Settings: RS-232C, LAN	[RS-232C]
RS-232C	Sets the RS-232C terminal.	
LAN	Sets the LAN terminal.	
Network	It is displayed, if the setting of the "Communication terminal" to the submenu "[5-1] Network" is set to "LAN".	
Remote Code	Use this function to change the projector's remote control code. The projector can be operated only with a remote control configured with the same code. To change the remote control code itself, press "MENU" and [BACK] together for three seconds or more. All of the buttons on the remote control will begin to blink. Two blinks indicate "Change A to B"; three blinks indicate "Change B to A". Settings: A, B	[A]
A	Set the projector's remote control code to "A".	
B	Set the projector's remote control code to "B".	
Lamp Reset	Reset of the lamp use time to "0".	

Adjustments and settings in the menu (continued)

[5-1] Network

Use this function to configure the network settings used for command communication.

Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.



Items	Explanation, operation, precautions, settings
DHCP Client	Sets the DHCP client. Settings: On, Off [Off]
On	Obtains automatically an IP address from within the connected network's DHCP server. (* The automatic retrieval starts with the "Set" within the menu.
Off	The network settings are being done manually.
IP Address	Sets the IP address. [192.168.0.2]
Subnet Mask	Sets the subnet mask. [255.255.255.0]
Default Gateway	Sets the default gateway. [192.168.0.254]
MAC Address	Displays the MAC address of the unit.
Set	[5-1] Reflects the network setting.

[6] Information

This displays the input signal specifications information, lamp time and software version.

Use the UP and DOWN keys to select items. Press the [BACK] key to return to the previous screen.

Input	HDMI-2	Input	PC
Source	1080p60	Resolution	1920X1080
Deep Color	8bit	H Frequency	67.50kHz
Lamp Time	160H	V Frequency	60.0Hz
Soft Ver.	12.011	Deep Color	8bit
		Lamp Time	160H
		Soft Ver.	12.011

Displays upon HDMI/COMP. input

Items	Explanation, operation, precautions, settings
Input	Displays video image input terminal.
Source	Displays the name of the input source.
Deep Color	Displays the color bit depth concerning an input video image signal. (* When you input YCbCr (4:2:2), it is not displayed. (* When there is information about DeepColor from the source device, it is displayed.
Lamp Time	Displays the lamp use time.
Soft Ver.	The firmware version is displayed.

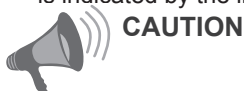
Displays upon PC input

Items	Explanation, operation, precautions, settings
Input	Displays video image input terminal.
Resolution	Displays image resolution.
H Frequency	Displays the H Frequency.
V Frequency	Displays V Frequency.
Deep Color	Displays the color bit depth concerning an input video image signal. (* When you input YCbCr (4:2:2), it is not displayed. (* When there is information about DeepColor from the source device, it is displayed.
Lamp Time	Displays the lamp use time.
Soft Ver.	The firmware version is displayed.

Replacing the Lamp

The lamp is a consumable item. If the image is dark or the lamp is turned off, replace the lamp unit.

- When the lamp replacement time approaches, a message is displayed on the screen and the condition is indicated by the indicator. (Reference page: 17 to 18, 86)



- Do not insert your hands into the opening of the lamp! This could cause obvious deterioration of the equipment's function, wounds and electric shocks.
- Do not replace the lamp immediately after the unit has been used, and allow a cooling period of 1 hour or more before replacement. The temperature of the lamp is still high and this may cause a burn.
- Do not apply shock to the lamp unit. It may cause lamp blowout.
- Do not use flammable air duster to clean the internal parts of the unit. This may cause fire.



Usable Lamp Life

- When using the "Lamp Power" set at "Normal", the lifetime of the lamp will be approximately 3000 hours. This is an average lifetime and cannot be guaranteed.
- The lamp life may not reach 3000 hours depending on the operating conditions.
- When the lamp has reached the end of its usable life, deterioration progresses rapidly.
- If the picture becomes dark, the tint becomes strange, or the image flickers, promptly the lamp unit for a new one.

Purchasing the Lamp Unit

Please consult your authorized dealer.

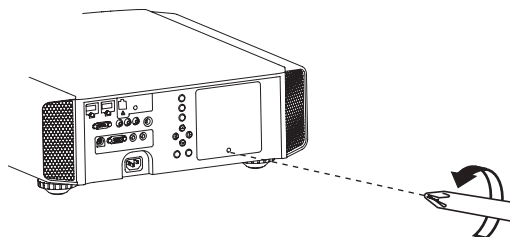
■ Lamp Unit
Part No.: PK-L2210U

Lamp replacement procedure

1 Remove the power plug from the outlet

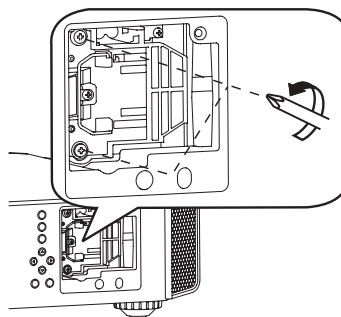
2 Remove the lamp cover

- Remove the screws with a ⊕ screwdriver.



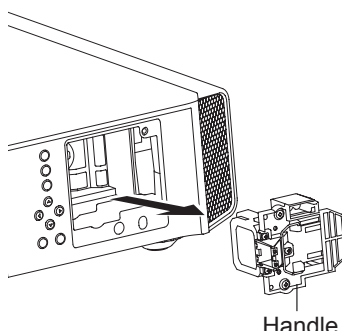
3 Loosen the screws on the lamp unit

- Loosen the screws with a ⊕ screwdriver.

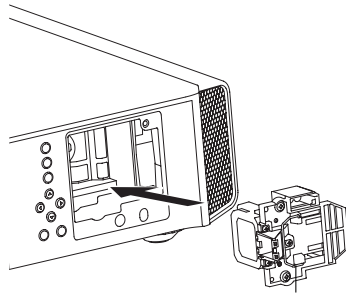


4 Pull out the lamp unit

- Grasp the handle and pull out the lamp unit.



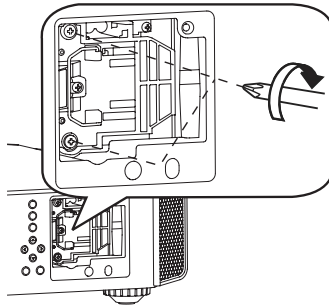
5 Install the new lamp unit



Handle

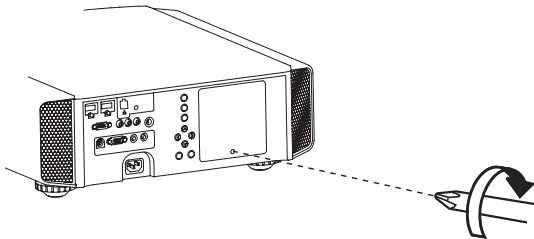
6 Tighten the screws of the new lamp unit

- Tighten the screws with a ⊕ screwdriver.



7 Attach the lamp cover

- Insert the top part (with 2 claws) of the lamp cover into the unit.
- Fasten the screws with a ⊕ screwdriver.



CAUTION

- Use only genuine replacement parts for the lamp unit. Also, never attempt to reuse an old lamp unit. This may cause a malfunction.
- Do not touch the surface of a new lamp. This may shorten the lamp life and cause lamp blowout.

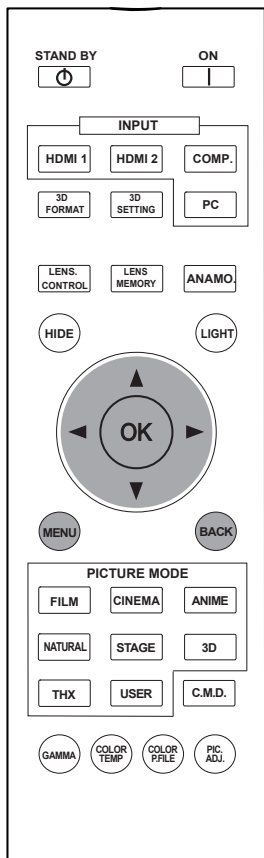


MEMO

After Replacing the Lamp

- Do not place the removed lamp unit at locations that is reachable by children or near combustible items.
- Dispose used lamp units in the same way as fluorescent lamps. Follow your local community rules for disposal.

Replacing the Lamp (Continued)



65 55

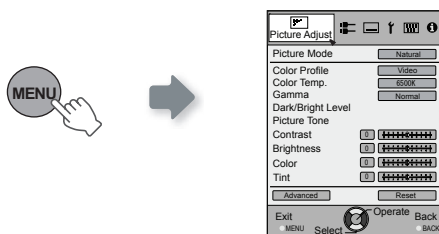
45 : The same button arrangement is used for the operations in this explanation.

Resetting lamp Time

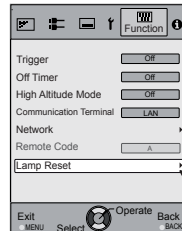
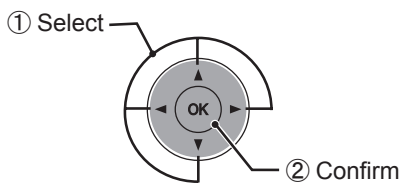
After replacing a new lamp unit, please reset the lamp time. Description of two methods.

Reset the lamp time from the menu screen.

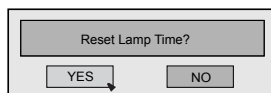
1 Display the setting menu



2 Select "Function" → "Lamp Reset"



3 Re-confirm



- Select "Yes" and the lamp time is set to zero. Moreover, one returns to the previous menu.

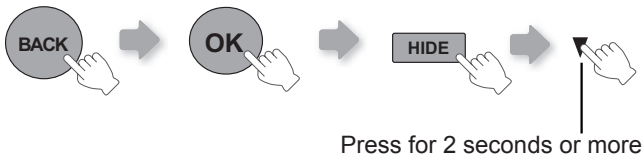
Reset the lamp time by remote control.

1 Insert the power plug to the power outlet

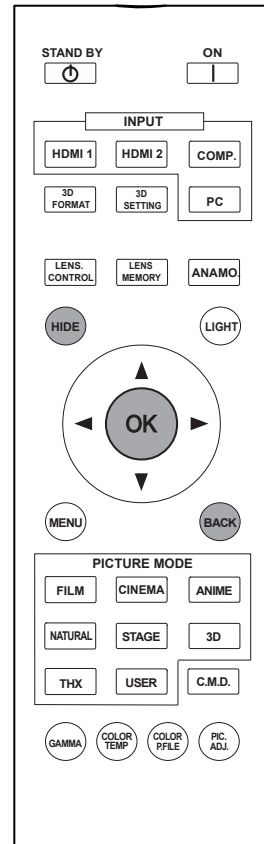
STANDBY/ON  Red Lights

2 Must operate with the remote control in the standby mode (the projector is powered, but is not turned on).

- Press in the order as shown.
- Press each button within 2-second intervals and press the last button for 2 seconds or more.

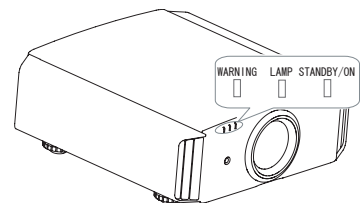


- [STANDBY/ON] indicator and [LAMP] indicator blink alternately for 3 seconds. After that, the unit switches to standby mode.



65 55

45 : The same button arrangement is used for the operations in this explanation.



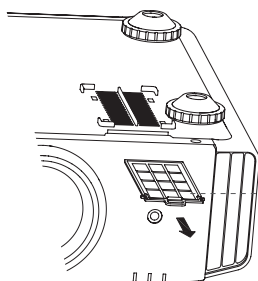
CAUTION

- Reset the lamp time only when you have replaced the lamp.
- Never reset the service time when the lamp is still in use. Otherwise, the approximate standard for gauging replacement time may be inaccurate and lamp blowout may occur.

Method for cleaning and replacing filters

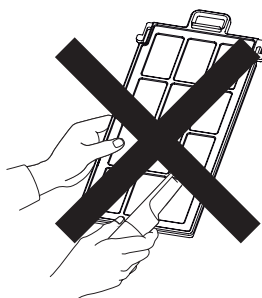
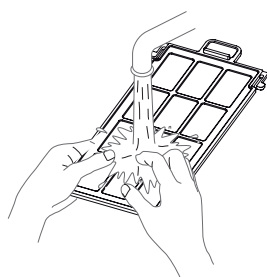
Clean the filter regularly or air intake efficiency may deteriorate and malfunction may occur.

1 Remove the inner filter.



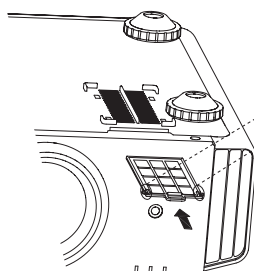
Lift up while pushing the claw

2 Clean the filter.



- Wash the filter with water and dry it in a shaded area.
- In extremely soiled cases, using a neutral detergent is recommended. Put on rubber gloves when using a neutral detergent.
- After washing the filter with water, make sure that it is completely dry before reinstalling. Otherwise electric shock or malfunctions may occur.
- Do not clean the filter with a vacuum cleaner or air duster. The filter is soft and may be damaged.

3 Reinstall the inner filter.



Check that the left and right claws are locked onto the unit



CAUTION

- Pull the power plug from the power outlet.
- Please turn this unit and if you put it on a bed or a table, first place something soft like a piece of cloth below. Then you can put it on top of it. Otherwise, it may cause scratches on this unit.



MEMO

If the filter is damaged or too dirty to be cleaned.

-
- Replace with a new filter. A dirty filter will dirty the internal parts of the unit and cause shadows on the video image.
 - To purchase a new filter or when it is dirty in the internal parts, consult your authorized dealer.

- Inner Filter
Part No.:
- Replacement Filter:
PC010661199

Troubleshooting

Before sending the unit to your authorized dealer for repair, please check the following points.

The following situations are not malfunctions.

- You do not need to worry about the following situations if there is no abnormality on the screen.
 - Part of the top surface or front of the unit is hot.
 - A creaking sound is heard from the unit.
 - An operating sound is heard from the inside of the unit.
 - Color smear occurs on some screens.
- Perform the following operations when the unit is unable to operate normally due to external static or noise.
 - ① When the unit is in standby mode, please pull out the power plug, then insert again.
 - ② Press the power button on the unit to turn on the power again.
- A sound may be heard when the lamp is off but there is no danger.
- D-ILA device is manufactured using high-precision technology but there may be some missing pixels or pixels that remain permanently lit up.

Power is not supplied		
Is the power cord disconnected?	Insert the power cord (plug) firmly.	Reference page: 34
Is the lamp cover properly shut?	Remove the power plug when the unit is in standby mode and close the lamp cover properly. After that, insert the plug again.	Reference page: 79
Is the lamp in Cool Down mode?	After the Cool Down mode is complete, turn on the power again.	Reference page: 37

Video image does not appear		
Is the correct external input selected?	Select the correct external input.	Reference page: 36
Is the AV device properly connected?	Connect the AV device properly.	Reference page: 28 to 33
Is the power of the AV device turned on?	Turn on the power of the AV device and play the video.	Reference page: 34
Are the correct signals being output from the AV device?	Set the AV device properly.	Reference page: 28 to 33
Is the setting of the input terminal correct?	Set "COMP." and "HDMI" in the setting menu according to the input signal.	Reference page: 60 to 61
Is the video image temporarily hidden?	Press the [HIDE] button to display the video image again.	Reference page: 41

Remote control does not work		
Are batteries installed correctly?	Match the polarities (⊕ or ⊖) correctly when inserting the batteries.	Reference page: 21
Are batteries exhausted?	Replace with new batteries.	Reference page: 21
Is there an obstructive object between the remote control and remote sensor?	Remove any obstructive objects.	Reference page: 25
Is the remote control held too far away from the unit?	Hold the remote control closer to the sensor when using.	Reference page: 25

The picture cannot be projected

Will the picture flicker and become invisible with HDMI input?

Please use a short HDMI cable.

Reference page:
29

The image cannot output by HDMI terminal

Is the setup of "Control with HDMI" function "Off"?

Set up the "Control with HDMI" function to "Off".

Reference page:
62

- Even if the "Control with HDMI" function is "On", there are still some devices cannot reveal image normally.

Color does not appear or looks strange

Is the image correctly adjusted?

Adjust "Color" and "Tint" in the setting menu.

Reference page:
54

Video image is fuzzy

Is the focus correctly adjusted?

Adjust the focus.

Reference page:
36

Is the unit placed too near or too far away from the screen?

Set the unit at a correct distance from the screen.

Reference page:
23, 25

Video images are missing

Has setting been performed for screen mask?

Set "Mask" in the setting menu to "Off".

Reference page:
40
Reference page:
61

Is the display out of position?

Alter the "Picture Position" value in the setting menu to ensure that images are not missing.

Reference page:
60

Projected image is dark

Is the lamp near exhaustion?

Check the lamp time on the information menu. Prepare a new lamp unit or replace as soon as possible when the lamp is near exhaustion.

Reference page:
78 to 81

The unit works when power is turned on but stops abruptly after a few minutes

Are the air inlets and exhaust vent blocked?

Remove the power plug when the unit is in standby mode and remove any blocking object. After that, insert the plug again.

Reference page:
3, 15

Is the filter dirty?

Clean the filter.

Reference page:
82

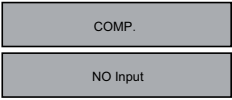

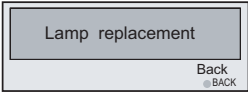
Power is cut off suddenly

Has setting been performed for off timer?

Set "Off Timer" in the setting menu to "Off".

Reference page:
72

In case this message is displayed

Message	Cause (Details)
	<p>No device is connected to the input terminal. The input terminal is connected but there is no signal.</p> <p>➡ Input the video signals.</p>
	<p>A video signal that cannot be used in this unit has been input.</p> <p>➡ Input video signals that can be used.</p> <p>*The names of input terminals such as COMP. will be displayed in yellow</p>
	<p>This message is displayed when the accumulated lamp time has exceeded 2900 hours. To clear the message, press the [Back] button.</p> <p>➡ Get ready a new lamp unit and replace as soon as possible. Reset the lamp time after replacing the lamp. (Reference page: 78 to 81)</p>