Panasonic

Operating Instructions Functional Manual

DLP™ Projector | Commercial Use

Model No. PT-RZ12K PT-RS11K



Thank you for purchasing this Panasonic product.

- This manual is common to all the models regardless of suffixes of the Model No.
 - for India PT-RZ12KD / PT-RS11KD
 - for other countries or regions PT-RZ12K / PT-RS11K
- Before operating this product, please read the instructions carefully and save this manual for future use.
- Before using this product, be sure to read "Read this first!" (→ pages 5 to 14).









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Read this first!

WARNING: THIS APPARATUS MUST BE EARTHED.

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces this device must not be placed in the direct field of view.

The equipment is not intended for used at a video workstation in compliance BildscharbV.

The sound pressure level at the operator position is equal or less than 70 dB (A) according to ISO 7779.

WARNING:

- Remove the plug from the mains socket when this unit is not in use for a prolonged period of time.
- 2. To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 3. Do not remove the earthing pin on the mains plug. This apparatus is equipped with a three prong earthing-type mains plug. This plug will only fit an earthing-type mains socket. This is a safety feature. If you are unable to insert the plug into the mains socket, contact an electrician. Do not defeat the purpose of the earthing plug.

WARNING:

This equipment is compliant with Class A of CISPR32.

In a residential environment this equipment may cause radio interference.

CAUTION:

To assure continued compliance, follow the attached installation instructions. This includes using the provided power cord and shielded interface cables when connecting to computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

This is a device to project images onto a screen, etc., and is not intended for use as indoor lighting in a domestic environment.

Directive 2009/125/EC

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

TO RAIN OR MOISTURE.

WARNING: RISK OF ELECTRIC SHOCK. DON'T OPEN



Indicated on the projector



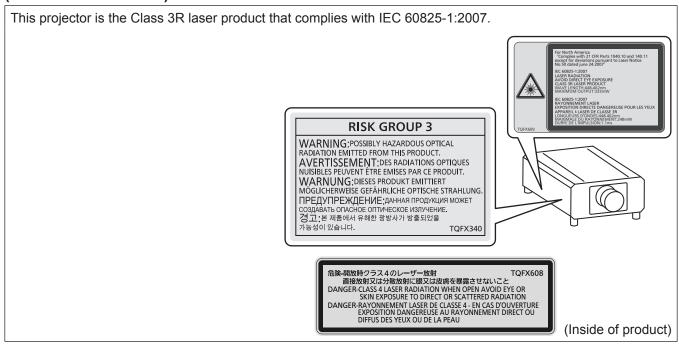
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

Notice on laser

(for USA and Canada)



(for India)

This projector is the Class 1 laser product that complies with IEC/EN 60825-1:2014.

RISK GROUP 3

WARNING:POSSIBLY HAZARDOUS OPTICAL
RADIATION EMITTED FROM THIS PRODUCT.
AVERTISSEMENT:DES RADIATIONS OPTIQUES
NUISBLES PEUVENT ÊTRE EMISES PAR CE PRODUIT.
WARNUNG:DIESES PRODUKT EMITTIERT
MÖGLICHERWEISE GEFÄHRLICHE OPTISCHE STRAHLUNG.
ПРЕДУПРЕЖДЕНИЕ: ДАННАЯ ПРОДУКЦИЯ МОЖЕТ
СОЗДАВАТЬ ОПАСНОЕ ОПТИЧЕСКОЕ ИЗЛУЧЕНИЕ.
경고:본 제품에서 유해한 광방사가 방출되었을
가능성이 있습니다.
TQFX340

(for other countries or regions)

This projector is the Class 1 laser product that complies with IEC/EN 60825-1:2014.

RISK GROUP 3

WARNING: POSSIBLY HAZARDOUS OPTICAL
RADIATION RINTTED FROM THIS PRODUCT.
AVERTISSEMENT: DES RADIATIONS OPTIQUES
NUISIBLES PEUVENT ÊTRE EMISES PAR CE PRODUIT.
WARNUNG: DIESES PRODUKT EMITTEDET ROUTE: DATHARA ΠΡΟΔΥΚЦИЯ МОЖЕТ
СОЗДАВАТЬ ОПАСНОЕ ОТПУЧЕСКОЕ ИЗЛУЧЕНИЕ.
경크: 본 제품에서 유해한 광방사가 방출되었을
가능성이 있습니다.
TQFX340

CAUTION (North/Middle/South America/Taiwan)

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

CAUTION: The AC power cord which is supplied with the projector as an accessory can only be used for

power supplies up to 125 V. If you need to use higher voltages than this, you will need to obtain a separate 250 V power cord. If you use the accessory cord in such situations, fire may result.

CAUTION (North/Middle/South America/Taiwan)

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



WARNING (USA and Canada)

- Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.
- For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring.
- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily
 accessible.

NOTIFICATION (Canada)

This class A digital apparatus complies with Canadian ICES-003.

For USA-California Only

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

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

FCC NOTICE (USA)

Verification

Model Number: PT-RZ12K / PT-RS11K

Trade Name: Panasonic

Responsible Party: Panasonic Corporation of North America
Address: Two Riverfront Plaza, Newark, NJ 07102-5490

General Contact: http://www.panasonic.com/support Projector Contact: http://panasonic.net/avc/projector/

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Warning:

To assure continued compliance, follow the attached installation instructions. This includes using the provided power cord and shielded interface cables when connecting to computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

IMPORTANT: THE MOLDED PLUG (U.K. only)

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a molded three pin mains plug for your safety and convenience. A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark a or the BSI mark \heartsuit on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover, the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from an Authorized Service Center.

If the fitted molded plug is unsuitable for the mains socket in your home, then the fuse should be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are colored in accordance with the following code:

Green - and - Yellow: Earth

Blue: Neutral Brown: Live

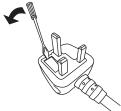
As the colors of the wire in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows.

The wire which is colored GREEN - AND - YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol $\frac{1}{2}$ or colored GREEN or GREEN - AND - YELLOW.

The wire which is colored BLUE must be connected to the terminal in the plug which is marked with the letter N or colored BLACK.

The wire which is colored BROWN must be connected to the terminal in the plug which is marked with the letter L or colored RED.

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.



Importer's name and address within the European Union

Panasonic Marketing Europe GmbH

Panasonic Testing Centre

Winsbergring 15, 22525 Hamburg, Germany

WARNING:

■ POWER

The wall outlet or the circuit breaker shall be installed near the equipment and shall be easily accessible when problems occur. If the following problems occur, cut off the power supply immediately.

Continued use of the projector in these conditions will result in fire or electric shock.

- If foreign objects or water get inside the projector, cut off the power supply.
- If the projector is dropped or the cabinet is broken, cut off the power supply.
- If you notice smoke, strange smells or noise coming from the projector, cut off the power supply.

Please contact an Authorized Service Center for repairs, and do not attempt to repair the projector yourself.

During a thunderstorm, do not touch the projector or the cable.

Electric shocks can result.

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

If the power cord is used while damaged, electric shocks, short-circuits or fire will result.

• Do not damage the power cord, make any modifications to it, place it near any hot objects, bend it excessively, twist it, pull it, place heavy objects on top of it or wrap it into a bundle.

Ask an Authorized Service Center to carry out any repairs to the power cord that might be necessary.

Do not use anything other than the provided power cord.

Failure to observe this will result in electric shocks or fire. Please note that if you do not use the provided power cord to ground the device on the side of the outlet, this may result in electric shocks.

Completely insert the power plug into the wall outlet and the power connector into the projector terminal. If the plug is not inserted correctly, electric shocks or overheating will result.

• Do not use plugs which are damaged or wall outlets which are coming loose from the wall.

Do not handle the power plug and power connector with wet hands.

Failure to observe this will result in electric shocks.

Do not overload the wall outlet.

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

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

Failure to observe this will cause a fire.

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

■ ON USE/INSTALLATION

Do not place the projector on soft materials such as carpets or sponge mats.

Doing so will cause the projector to overheat, which can cause burns, fire or damage to the projector.

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

Using the projector under such conditions will result in fire, electric shocks or deterioration of components. Deterioration of components (such as ceiling mount brackets) may cause the projector which is mounted on the ceiling to fall down.

Do not install this projector in a place which is not strong enough to take the full weight of the projector or on top of a surface which is sloped or unstable.

Failure to observe this will cause projector to fall down or tip over the projector, and severe injury or damage could result.

Do not cover the air intake/exhaust ports or place anything within 500 mm (19-11/16") of them.

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

- Do not place the projector in narrow, badly ventilated places.
- Do not place the projector on cloth or papers, as these materials could be drawn into the air intake port.

WARNING:

Do not look at or place your skin into the light emitted from the lens while the projector is being used. Doing so can cause burns or loss of sight.

- Strong light is emitted from the projector's lens. Do not look at or place your hands directly into this light.
- Be especially careful not to let young children look into the lens. In addition, turn off the power and switch off the main power when you are away from the projector.

Do not project an image with the lens cover of the projection lens (optional) attached.

Doing so can cause fire.

Never attempt to remodel or disassemble the projector.

High voltages can cause fire or electric shocks.

• For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Doing so may cause exposure to dangerous laser radiation.

• The laser module is built in this projector. Follow procedures specified in the Operating Instructions to make operations and adjustments.

Do not allow metal objects, flammable objects, or liquids to enter inside of the projector. Do not allow the projector to get wet.

Doing so may cause short circuits or overheating, and result in fire, electric shock, or malfunction of the projector.

- Do not place containers of liquid or metal objects near the projector.
- If liquid enters inside of the projector, consult your dealer.
- Particular attention must be paid to children.

Use the ceiling mount bracket specified by Panasonic.

Using the ceiling mount bracket other than the specified one will result in falling accidents.

Attach the supplied safety cable to the ceiling mount bracket to prevent the projector from falling down.

Installation work (such as ceiling mount bracket) should only be carried out by a qualified technician.

If installation is not carried out and secured correctly, it can cause injury or accidents, such as electric shocks.

• Be sure to use the wire provided with the ceiling mount bracket as an extra safety measure to prevent the projector from falling down. (Install in a different location to the ceiling mount bracket.)

■ ACCESSORIES

Do not use or handle the batteries improperly, and refer to the following.

Failure to observe this will cause burns, batteries to leak, overheat, explode or catch fire.

- Do not use unspecified batteries.
- Do not charge dry cell batteries.
- Do not disassemble dry cell batteries.
- Do not heat the batteries or place them into water or fire.
- Do not allow the + and terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.
- Do not store or carry batteries together with metallic objects.
- Store the batteries in a plastic bag and keep them away from metallic objects.
- Make sure the polarities (+ and –) are correct when inserting the batteries.
- Do not use a new battery together with an old battery or mix different types of batteries.
- Do not use batteries with the outer cover peeling away or removed.

If the battery fluid leaks, do not touch it with bare hands, and take the following measures if necessary.

- Battery fluid on your skin or clothing could result in skin inflammation or injury.
 - Rinse with clean water and seek medical advice immediately.
- Battery fluid coming in contact with your eyes could result in loss of sight.
 In this case, do not rub your eyes. Rinse with clean water and seek medical advice immediately.

Do not allow children to reach the lens fixing screw.

Accidentally swallowing them can cause physical harm.

• If swallowed, seek medical advice immediately.

Remove the depleted batteries from the remote control promptly.

• Leaving them in the unit may result in fluid leakage, overheating, or explosion of the batteries.

CAUTION:

■ POWER

When disconnecting the power cord, be sure to hold the power plug and power connector.

If the power cord itself is pulled, the lead will become damaged, and fire, short-circuits or serious electric shocks will result.

When not using the projector for an extended period of time, disconnect the power plug from the wall outlet.

Failure to do so may result in fire or electric shock.

Before replacing the projection lens, be sure to turn off the power and disconnect the power plug from the wall outlet.

- Unexpected projection of light may cause injury to eyes.
- Replacing the projection lens without removing the power plug may result in electric shock.

Disconnect the power plug from the wall outlet before carrying out any cleaning and replacing the unit. Failure to do so may result in electric shock.

■ ON USE/INSTALLATION

Do not place heavy objects on top of the projector.

Failure to observe this will cause the projector to become unbalanced and fall, which could result in damage or injury. The projector will be damaged or deformed.

Do not put your weight on this projector.

You could fall or the projector could break, and injury will result.

• Be especially careful not to let young children stand or sit on the projector.

Do not place the projector in extremely hot locations.

Doing so will cause the outer casing or internal components to deteriorate, or result in fire.

• Take particular care in locations exposed to direct sunlight or near heaters.

Do not install the projector in a location where salt pollution or corrosive gas may occur.

Doing so may result in falling due to corrosion. Also, it may result in malfunctions.

Do not place your hands or other objects close to the air exhaust port.

Doing so will cause burns or damage your hands or other objects.

• Heated air comes out of the air exhaust port. Do not place your hands or face, or objects which cannot withstand heat close to this port.

Do not place your hands in the openings beside the optical lens, while shifting the lens.

Failure to observe this could cause injury.

Do not stand in front of the lens while the projector is being used.

Doing so can cause damage and burns to clothing.

• Strong light is emitted from the projector's lens.

Do not place objects in front of the lens while the projector is being used.

Doing so can cause fire, damage to an object, or malfunction of the projector.

• Strong light is emitted from the projector's lens.

The projector must be carried or installed by two or more people.

Failure to do so may cause falling accidents.

Always disconnect all cables before moving the projector.

Moving the projector with cables still attached can damage the cables, which will cause fire or electric shocks to occur.

When mounting the projector on the ceiling, keep mounting screws and power cord from contact with metal parts inside the ceiling.

Contact with metal parts inside the ceiling can cause electric shocks.

CAUTION:

■ ACCESSORIES

When not using the projector for an extended period of time, remove the batteries from the remote control.

Failure to observe this will cause the batteries to leak, overheat, catch fire or explode, which may result in fire or contamination of surrounding area.

■ MAINTENANCE

Do not attach the air filter unit while it is wet.

Doing so may result in electric shock or malfunctions.

After you clean the air filter units, dry them thoroughly before reattaching them.

Ask your dealer about cleaning inside the projector every 20 000 hours of usage as an estimated duration.

Continuous use while dust is accumulated inside the projector may result in fire.

For cleaning fee, ask your dealer.

■ VIEWING 3D VIDEO

Those with a medical history of oversensitivity to light, heart problems, or poor physical health should not view 3D images.

This may lead to a worsening of medical conditions.

If you feel tiredness or discomfort, or other abnormality while viewing with 3D Eyewear, discontinue viewing.

Continuing use may cause health problems. Take a break as necessary.

When viewing 3D movies, aim to view one movie at a time and take a break as necessary.

When viewing 3D images, for example when playing 3D games or using a PC where two way interaction is possible, take an appropriate break every 30 to 60 minutes.

Watching for long periods of time may cause eye fatigue.

When preparing contents, use contents properly created to be used for 3D.

This may cause eye fatigue or health problems.

When viewing 3D images, pay attention to people and objects in the vicinity.

3D video may be mistaken for actual objects, and the related bodily movements can cause damage to objects and lead to injury.

Use 3D Eyewear when viewing 3D videos.

Do not tilt your head when viewing with 3D Eyewear.

Those who are near or far sighted, those with weaker eyesight in one eye, or those with astigmatism should use corrective glasses etc. when using 3D Eyewear.

If the image appears distinctly double when viewing 3D video, discontinue viewing.

Watching for long periods of time may cause eye fatigue.

View at a distance of at least three times the effective height of the screen.

Viewing at distance closer than the recommended distance may cause eye fatigue. As with movies, if there are black bands at the top and bottom of the video, view at a distance of 3 times or more of the height of the video section.

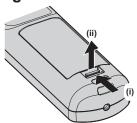
Children younger than 5 or 6 years old should not use 3D Eyewear.

As it is difficult to gauge the reactions of children to fatigue and discomfort their condition may worsen suddenly. If a child uses the 3D Eyewear, guardians should beware of the child's eyes becoming tired.

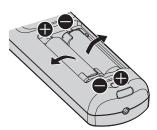
To remove the battery

Remote Control Battery

1. Press the guide and lift the cover.



2. Remove the batteries.



Brazil Only Brasil Apenas

■ Manuseio de baterias usadas



BRASIL

Após o uso, as pilhas e/ou baterias deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.

Cobrir os terminais positivo (+) e negativo (-) com uma fita isolante adesiva, antes de depositar numa caixa destinada para o recolhimento. O contato entre partes metálicas pode causar vazamentos, gerar calor, romper a blindagem e produzir fogo. (Fig. 1)

Fig. 1 Como isolar os terminais

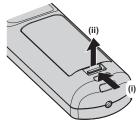


Não desmonte, não remova o invólucro, nem amasse a bateria. O gás liberado pela bateria pode irritar a garganta, danificar o lacre do invólucro ou o vazamento provocar calor, ruptura da blindagem e produzir fogo devido ao curto circuito dos terminais. Não incinere nem aqueça as baterias, elas não podem ficar expostas a temperaturas superiores a 100 °C (212 °F). O gás liberado pela bateria pode irritar a garganta, danificar o lacre do invólucro ou o vazamento provocar calor, ruptura da blindagem e produzir fogo devido ao curto circuito dos terminais provocado internamente.

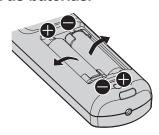
Evite o contato com o liquido que vazar das baterias. Caso isto ocorra, lave bem a parte afetada com bastante água. Caso haja irritação, consulte um médico.

■ Remoção das baterias

1. Pressione a guia e levante a tampa.



2. Remova as baterias.



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 - Please note that the ® and ™ symbols are not specified in this manual.

■ Illustrations in this manual

- Illustrations of the projector, screen, and other parts may vary from the actual product.
- Illustrations of the projector with the power cord attached are only examples. The shape of the supplied power cords varies depending on the country where you purchased the product.

■ Reference pages

Reference pages in this manual are indicated as (⇒ page 00).

■ Term

In this manual, the "Wireless/wired remote control unit" accessory is referred to as "Remote control".

Features of the Projector

High luminance and high contrast

▶ With the high efficient optical system that maximizes the output of the solid-state light source, and unique drive system, high luminance of 12 000 lm and high contrast of 20 000:1 are realized in addition to the high color reproduction.

Easy and highly flexible setup

▶ In addition to the DIGITAL LINK support, Art-Net support, and abundant lineup of the optional lens, application to wide range of usage is possible with support of all 360° direction projection utilizing the characteristics of solid-state light source.

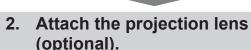
Long life and high reliability

▶ The maintenance cost for long-term operation is reduced by the unique light source cooling control technology and improvement of the dust resistance. Also, it will contribute to the stable operation by implementation of the backup function that will continue the projection by switching to the backup input signal immediately even when the input signal is discontinued, in addition to adopting solid-state light source which has long life.

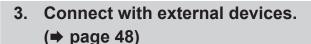
Quick Steps

For details, refer to the corresponding pages.

- 1. Set up the projector.
 - (**⇒** page 34)



(**⇒** page 46)



- Connect the power cord.
 (⇒ page 54)
- 5. Switch on the projector.(⇒ page 55)
- 6. Make initial settings.(⇒ page 56)
 - Take this step when you switch on the power for the first time after purchasing the projector.
- Select the input signal.
 (⇒ page 64)
- 8. Adjust the image.(⇒ page 64)

Chapter 1 Preparation

This chapter describes things you need to know or check before using the projector.

Precautions for use

Cautions when transporting

- Before using the projector, remove the dust sponge from the mounting portion of the projection lens and store it
 for the future use. When transporting the projector, remove the projection lens before attaching the dust sponge.
 Otherwise dust will accumulate inside and may cause malfunctions.
- Transport the projector with 2 or more people. Failure to do so may drop the projector, which may result in damage or deformation of the projector, or injury.
- When transporting the projector, hold it securely by its bottom and avoid excessive vibration and impacts. They
 may damage the internal components and result in malfunctions.
- Do not transport the projector with the adjustable feet extended. Doing so may damage the adjustable feet.

Cautions when installing

■ Do not set up the projector outdoors.

The projector is designed for indoor use only.

■ Do not set up the projector in the following locations.

- Places where vibration and impacts occur such as in a car or vehicle: Doing so may cause damage to internal components or malfunction.
- Location close to sea or where corrosive gas may occur: The projector may fall due to corrosion. Also, failure to do so may shorten the life of the components and result in malfunctions.
- Near the exhaust of an air conditioner: Depending on the conditions of use, the screen may fluctuate in rare
 cases due to the heated air from the air exhaust port or the hot or cooled air. Make sure that the exhaust
 from the projector or other equipment, or the air from the air conditioner does not blow toward the front of the
 projector.
- Places with sharp temperature fluctuations such as near lights (studio lamps): Doing so may shorten the life of the light source, or result in deformation of the projector due to heat, which may cause malfunctions.
 Follow the operating environment temperature of the projector.
- Near high-voltage power lines or near motors: Doing so may interfere with the operation of the projector.
- Places where there is high-power laser equipment: Directing a laser beam onto the projection lens surface causes damage to the DLP chips.

■ Be sure to ask a specialized technician or your dealer when installing the projector on a ceiling.

The optional Ceiling Mount Bracket is required.

Model No.: ET-PKD520H (for High Ceilings), ET-PKD520S (for Low Ceilings), ET-PKD520B (Projector Mount Bracket)

■ Ask a qualified technician or your dealer to install the cable wiring for DIGITAL LINK connection.

Image and sound may be disrupted if cable transmission characteristics cannot be obtained due to inadequate installation.

■ The projector may not work properly due to strong radio wave from the broadcast station or the radio.

If there is any facility or equipment which outputs strong radio waves near the installation location, install the projector at a location sufficiently far from the source of the radio waves. Or, wrap the LAN cable connected to the <DIGITAL LINK/LAN> terminal using a piece of metal foil or a metal pipe which is grounded at both ends.

■ Focus adjustment

The high clarity projection lens is thermally affected by the light from the light source, making the focus unstable in the period just after switching on the power. It is recommended that images be projected continuously for at least 30 minutes before the focus is adjusted.

■ Do not install the projector at an altitude of 4 200 m (13 780') or higher above sea level.

■ Do not use the projector in a location that the ambient temperature exceeds 50 °C (122 °F).

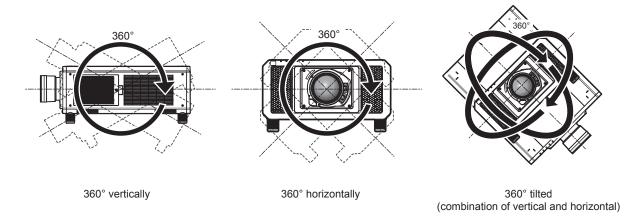
Using the projector in a location that the altitude is too high or the ambient temperature is too high may reduce the life of the components or result in malfunctions.

The upper limit of the operating environment temperature differs depending on the altitude or the [OPERATING MODE] setting in the [PROJECTOR SETUP] menu \rightarrow [OPERATION SETTING] (\Rightarrow page 125).

| | Setting for [OPE | OPERATING MODE] | |
|--|-------------------------------------|--|--|
| Altitude above sea level | [NORMAL], [USER1], [USER2], [USER3] | [ECO], [LONG LIFE1], [LONG LIFE2], [LONG LIFE3] | |
| Altitude of 0 m (0') or higher to lower than 1 400 m (4 593') | 0 °C (32 °F) to 50 °C (122 °F) | 0 °0 (22 °5) 45 45 °0 (442 °5) | |
| Altitude of 1 400 m (4 593') or higher to lower than 2 700 m (8 858') | 0 °C (22 °E) to 45 °C (442 °E) | 10 °C (32 °F) to 45 °C (113 °F) | |
| Altitude of 2 700 m (8 858') or higher to lower than 4 200 m (13 780') | 0 °C (32 °F) to 45 °C (113 °F) | The projector cannot be used. | |

When the Smoke Cut Filter is used, the operating environment temperature should be between 0 $^{\circ}$ C (32 $^{\circ}$ F) and 40 $^{\circ}$ C (104 $^{\circ}$ F) regardless of the [OPERATING MODE] setting. It cannot be used at an altitude of 1 400 m (4 593') or higher above sea level.

■ Projection in all 360° direction is possible.

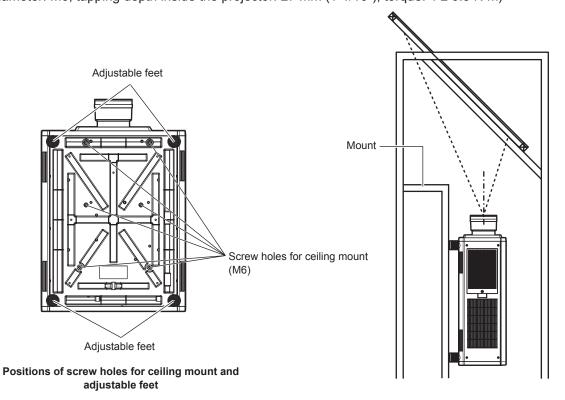


■ Cautions when setting up the projector

- Use the adjustable feet only for the floor standing installation and for adjusting the angle. Using them for other purposes may damage the projector.
- The adjustable feet can be removed if not needed in the installation. However, do not use the screw holes where the adjustable feet were removed to fix the projector in place.
 - Also, insert only the screws that are specified in the user manual of the optional accessories into the screw holes of the adjustable feet. Failure to do so may cause damage to the projector.

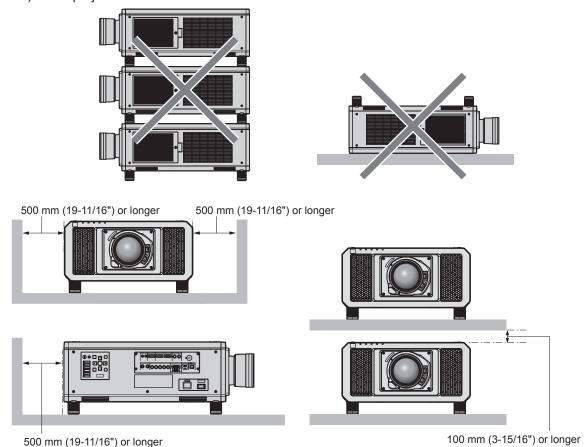
• When installing the projector in a method other than the floor installation using the adjustable feet, or the ceiling installation, remove the adjustable feet (4 locations) and use the six screw holes for ceiling mount to fix the projector to a mount (as shown in the figure).

(Screw diameter: M6, tapping depth inside the projector: 27 mm (1-1/16"), torque: 4 ± 0.5 N·m)



- Do not stack three or more projectors.
- Do not stack two projectors and use them simultaneously.
 When stacking two projectors, use one of the either projector, and the other project as a backup. Also, take measure to prevent slipping off as a precaution. Use the optional Frame (Model No.: ET-PFD510) when stacking two projectors and using them simultaneously.
- Do not use the projector supporting it by the top.
- Do not block the ventilation ports (intake and exhaust) of the projector.

 Prevent hot and cool air from the air conditioning system to blow directly to the ventilation ports (intake and exhaust) of the projector.



• Do not install the projector in a confined space.

When installing the projector in a confined space, provide air conditioning or ventilation separately. Exhaust heat may accumulate when the ventilation is not enough, triggering the protection circuit of the projector.

Security

When using this product, take safety measures against the following incidents.

- Personal information being leaked via this product
- Unauthorized operation of this product by a malicious third party
- Interfering or stopping of this product by a malicious third party

Take sufficient security measures. (→ pages 152, 177)

- Make your password difficult to guess as much as possible.
- Change your password periodically.
- Panasonic Corporation or its affiliate companies will never ask for your password directly. Do not divulge your password in case you receive such inquiries.
- The connecting network must be secured by a firewall, etc.
- Set a password for the web control and restrict the users who can log in.

DIGITAL LINK

"DIGITAL LINK" is a technology to transmit the video, audio, Ethernet, and serial control signals using a twisted pair cable by adding unique functions by Panasonic to the HDBaseT™ communication standard formulated by HDBaseT Alliance.

This projector supports the optional Panasonic DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) and peripheral devices by other manufacturers (twisted-pair-cable transmitters such as the "XTP transmitter" of Extron Electronics) that use the same HDBaseT™ standard. For the devices of other manufacturers that the operation has been verified with this projector, visit the Panasonic website (http://panasonic.net/avc/projector/). Note that the verification for devices of other manufacturers has been made for the items set by Panasonic Corporation, and not all the operations have been verified. For operation or performance problems caused by the devices of other manufacturers, contact the respective manufacturers. This projector does not support audio transmission because it is not equipped with audio function.

Art-Net

"Art-Net" is an Ethernet communication protocol based on the TCP/IP protocol.

By using the DMX controller and the application software, illumination and stage system can be controlled. Art-Net is made based on DMX512 communication protocol.

Early Warning Software

The projector supports "Early Warning Software", which monitors the status of the display (projector or flat panel display) and the peripheral devices inside an intranet, and notifies of abnormality of such equipment and detects signs of possible abnormality. Also, maintenance can be performed in advance, because this software gives notification of approximate time to replace consumables of the display, to clean each part of the display, and to replace the components of the display.

Depending on the type of license, the number of displays that can be registered for monitoring varies. Limited to the first 90 days after installation in a computer, it is possible to register up to 2048 units of displays free of charge. Download the software from the Panasonic website (http://panasonic.net/avc/projector/pass/). It is necessary to register and login to PASS*1 to download.

*1 PASS: Panasonic Professional Display and Projector Technical Support Website Visit the Panasonic website (http://panasonic.net/avc/projector/pass/) for details.

Disposal

To dispose of the product, ask your local authorities or dealer for correct methods of disposal.

Cautions on use

■ To get a good picture quality

In order to view a beautiful image in higher contrast, prepare an appropriate environment. Draw curtains or blinds over windows and turn off any lights near the screen to prevent outside light or light from indoor lamps from shining onto the screen.

■ Do not touch the surface of the projection lens with your bare hands.

If the surface of the projection lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen.

Attach the supplied lens cover to the optional projection lens when not using the projector.

DLP chips

- The DLP chips are precision-made. Note that in rare cases, pixels of high precision could be missing or always lit. Such a phenomenon does not indicate malfunction.
- Directing a high-power laser beam onto the projection lens surface can damage the DLP chips.

■ Do not move the projector or subject it to vibration or impact while it is operating.

Doing so may shorten the life of the built-in motor.

■ Light source

The light source of the projector uses lasers, and has the following characteristics.

- Depending on the operating environment temperature, the luminance of the light source will decrease.
 - The higher the temperature becomes, the more the luminance of the light source decreases.
- The luminance of the light source will decrease by duration of usage.

The time until when the luminance of the light source decreases by half differs depending on the setting of the [PROJECTOR SETUP] menu \rightarrow [OPERATION SETTING] \rightarrow [OPERATING MODE].

The estimated time until when the luminance of the light source decreases by half is as follows.

(The time is estimated when the [PICTURE] menu \rightarrow [DYNAMIC CONTRAST] is set to [3].)

- When [OPERATING MODE] is set to [NORMAL]: Approximately 20 000 hours
- When [OPERATING MODE] is set to [ECO]: Approximately 24 000 hours
- When [OPERATING MODE] is set to [LONG LIFE1]: Approximately 43 000 hours
- When [OPERATING MODE] is set to [LONG LIFE2]: Approximately 61 000 hours
- When [OPERATING MODE] is set to [LONG LIFE3]: Approximately 87 000 hours

Chapter 1 Preparation — Precautions for use

The luminance can be maintained as much as possible for the same runtime by setting the [PROJECTOR SETUP] menu \rightarrow [OPERATION SETTING] \rightarrow [CONSTANT MODE] to [AUTO]. These times are rough estimate when the projector is used without changing the [OPERATING MODE] and [CONSTANT MODE] settings, and will vary depending on individual difference and usage condition.

If brightness is noticeably reduced and the light source does not turn on, ask your dealer to clean inside the projector or replace the light source unit.

■ Computer and external device connections

• When connecting a computer or an external device, read this manual carefully regarding the use of power cords and shielded cables as well.

■ Viewing 3D images

The projector can display the 3D video signal input in various formats such as "frame packing", "side by side", etc. You are required to prepare external devices for viewing 3D images (such as 3D eyewear, video signal output devices) which are suitable for your 3D system. Connections of the projector and external devices vary depends on the 3D system to be used, see the operating instructions of external devices you use.

Refer to "List of 3D compatible signals" (→ page 209) for the types of 3D video signals that can be used with the projector.

Accessories

Make sure that the following accessories are provided with your projector. Numbers enclosed in < > show the number of accessories.

Wireless/wired remote control unit <1> (N2QAYB001052)



(K2CZ3YY00058)



(K2CZ3YY00032)



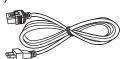
Power cord (K2CM3YY00007)



(K2CT3YY00014)



(K2CG3YY00189)



CD-ROM <1> (TXFQB02WQGZ)



AA/R6 battery <2>



(For remote control unit)

Lens fixing screw <1> (XYN4+J18FJ)



Attention

- After unpacking the projector, discard the power cord cap and packaging material properly.
- Do not use the supplied power cord for devices other than this projector.
- For missing accessories, consult your dealer.
- Store small parts in an appropriate manner, and keep them away from small children.

Note

- The type and number of the supplied power cords vary depending on the country or region where you purchased the product.
- The model numbers of accessories are subject to change without prior notice.

Contents of the supplied CD-ROM

The contents of the supplied CD-ROM are as follows.

| Instruction/list (PDF) | Operating Instructions – Functional Manual | |
|------------------------|--|--|
| | Multi Monitoring & Control Software Operating Instructions | |
| | Logo Transfer Software Operating Instructions | |
| | List of Compatible Device Models | This is a list of display models (projector or flat panel display) that are compatible with the software contained in the CD-ROM and their restrictions. |
| Software | Multi Monitoring & Control Software (Windows) | This software allows you to monitor and control multiple displays (projector or flat panel display) connected to the LAN. |
| | Logo Transfer Software (Windows) | This software allows you to transfer original images, such as company logos to be displayed when projection starts, to the projector. |

Optional accessories

| Optional accessories (product name) | Model No. | |
|---|---|--|
| Projection lens | Zoom Lens | ET-D75LE6, ET-D75LE8, ET-D75LE10, ET-D75LE20, ET-D75LE30, ET-D75LE40 |
| | Fixed-focus Lens | ET-D75LE50, ET-D75LE90 |
| Ceiling Mount Bracket | ET-PKD520H (for High Ceilings), ET-PKD520S (for Low Ceilings), ET-PKD520B (Projector Mount Bracket) | |
| Frame | ET-PFD510 | |
| Replacement Filter Unit | ET-EMF330 | |
| Smoke Cut Filter | ET-SFR330 | |
| Early Warning Software (Basic license/3-year license) | ET-SWA100 Series*1 | |
| Upgrade Kit | ET-UK20 | |
| Auto Screen Adjustment Upgrade Kit | ET-CUK10*2 | |
| Digital Interface Box | ET-YFB100G | |
| DIGITAL LINK Switcher | ET-YFB200G | |

^{*1} The suffix of the Model No. differs according to the license type.

Note

• The model numbers of optional accessories are subject to change without prior notice.

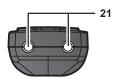
^{*2} Available worldwide except in the United States.

About your projector

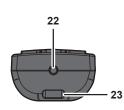
Remote control



■ Top



■ Bottom





1 Remote control indicator

Blinks if any button in the remote control is pressed.

2 Power on <| > button

Sets the projector to projection mode when the <MAIN POWER> switch on the projector is set to <ON> and the power is turned off (standby mode).

3 Power standby <⊕> button

Sets the projector to the state where the projector is turned off (standby mode) when the <MAIN POWER> switch on the projector is set to <ON> and in projection mode.

4 <MENU> button/<ENTER> button/▲▼◀▶ buttons
Used to navigate through the menu screen. (➡ page 76)

5 <ON SCREEN> button

Switches the on-screen display function on (display) or off (hide). (→ page 72)

6 <AUTO SETUP> button

Automatically adjusts the image display position while projecting the image

[PROGRESS] is displayed while in automatic adjustment. (★ page 72)

7 <ASPECT> button

Switches the aspect ratio of the image. (⇒ page 72)

8 Number (<0> - <9>) buttons

Used for entering an ID number or a password in a multiple projector environment.

9 <STATUS> button

Displays the projector information.

10 <LIGHT> button

Pressing this button lights up the remote control buttons. The lights will go off when the remote control operation goes idle for 10 seconds.

11 <INPUT MENU> button

Displays the input selection screen. (→ page 71)

12 Input selection buttons (<RGB1>, <RGB2>, <VIDEO>, <S-VIDEO Y/C>, <DIGITAL LINK>, <DVI-D>, <HDMI>, <SDI>) Switches the input signal to project. (→ page 70)

The <DISPLAY PORT> button, the <SLOT1> button, and the <SLOT2> button are not used with the projector.

13 <SHUTTER> button

Used to temporarily turn off the image. (⇒ page 71)

14 <TEST PATTERN> button

Displays the test pattern. (→ page 73)

15 Lens buttons (<FOCUS>, <ZOOM>, <SHIFT>)

Adjusts the projection lens. (⇒ page 64)

16 <FUNCTION> button

Assigns a frequently used operation as a shortcut button. (→ page 73)

17 <DEFAULT> button

Resets the content of the sub-menu to the factory default. (page 77)

18 <ID SET> button

Sets the ID number of the remote control in a multiple projector environment. (→ page 31)

19 <ID ALL> button

Used to simultaneously control all the projectors with a single remote control in a multiple projector environment. (\Rightarrow page 31)

20 <LOCK> button

Used to prevent unintended operation by careless pressing of the buttons and prevent draining the remote control batteries. Operation of each button on the remote control is disabled by sliding the <LOCK> button toward the arrow.

21 Remote control signal transmitter

22 Remote control wired terminal

This is a terminal used to connect to the projector via a cable when the remote control is used as a wired remote control. (\Rightarrow page 32)

23 Strap hole

Attention

• Do not drop the remote control.

Chapter 1 Preparation — About your projector

- · Avoid contact with liquids or moisture.
- Do not attempt to modify or disassemble the remote control.
- Do not swing the remote control holding onto the strap when a strap is attached.
- Observe the following instructions that are indicated on the caution label at the back of the remote control:
 - Do not use old battery with new one.
 - Do not use batteries other than the type specified.
 - Be sure the batteries are inserted properly.

For other instructions, read the instructions related to batteries that are described in "Read this first!".



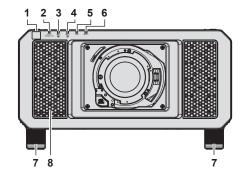
Caution label at the back of the remote control

Note

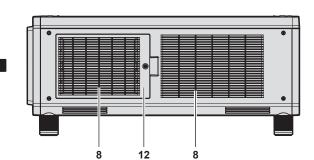
- When operating the remote control by directly pointing the remote control signal receiver of the projector, operate the remote control at
 a distance approx. 30 m (98'5") or shorter from the remote control signal receiver. The remote control can control at angles of up to ±15°
 vertically and ±30° horizontally, but the effective control range may be reduced.
- If there are any obstacles between the remote control and the remote control signal receiver, the remote control may not operate properly.
- The signal will be reflected off the screen. However, the operating range may be limited from light reflection loss due to the screen material.
- If the remote control signal receiver directly receives strong light, such as fluorescent light, the remote control may not operate properly. Use it in a place distant from the light source.
- The power indicator <ON (G)/STANDBY (R)> will blink if the projector receives a remote control signal.

Projector body

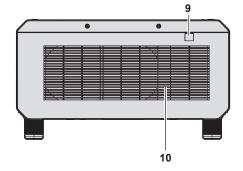
■ Front

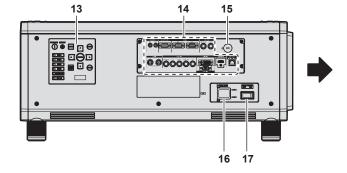


■ Side

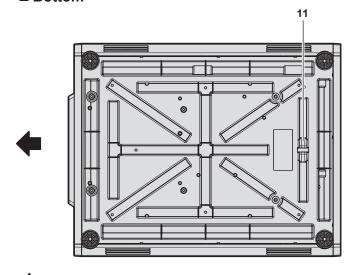


■ Rear





■ Bottom



- 4 Light source indicator <LIGHT2> Indicates the status of light source 2.
- 5 Temperature indicator <TEMP> Indicates the internal temperature status.
- 6 Filter indicator <FILTER> Indicates the status of the air filter unit.
- 7 Adjustable feet Adjusts the projection angle.
- 8 Air intake port
- 9 Remote control signal receiver (rear)
- 10 Air exhaust port
- Burglar hook port
 Attaches a burglar prevention cable, etc.
- **12 Air filter cover**The air filter unit is inside.
- 13 Control panel (⇒ page 29)
- 14 Connecting terminals (→ page 30)
- 15 Security slot

This security slot is compatible with the Kensington security cables.

- 16 <AC IN> terminal
 Connect the supplied power cord.
- 17 <MAIN POWER> switch
 Turns on/off the main power.

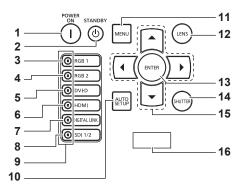
: Projection direction

- 1 Remote control signal receiver (front)
- 2 Power indicator <ON (G)/STANDBY (R)> Indicates the status of the power.
- 3 Light source indicator <LIGHT1> Indicates the status of light source 1.

<u>Attention</u>

• Do not block the ventilation ports (intake and exhaust) of the projector.

■ Control panel



1 Power on <|> button

Sets the projector to projection mode when the <MAIN POWER> switch on the projector is set to <ON> and the power is turned off (standby mode).

2 Power standby <⊕> button

Sets the projector to the state where the projector is turned off (standby mode) when the <MAIN POWER> switch on the projector is set to <ON> and in projection mode.

3 <RGB1> button

Switches the input to RGB1.

4 <RGB2> button

Switches the input to RGB2.

5 <DVI-D> button

Switches the input to DVI-D.

6 <HDMI> button

Switches the input to HDMI.

7 < DIGITAL LINK > button

Switches the input to DIGITAL LINK.

8 <SDI 1/2> button

Switches the input to SDI.

9 Input selection terminal indicator

Indicator that shows the selected input terminal. This indicator lights up when a video signal is being input to the selected terminal, and blinks when there is no video signal being input.

10 <AUTO SETUP> button

Automatically adjusts the image display position while the image is projected. [PROGRESS] is displayed while in automatic adjustment. (\Rightarrow page 72)

11 <MENU> button

Displays or hides the main menu. (page 76)
Returns to the previous menu when a sub-menu is displayed.
If you press the <MENU> button on the control panel for at least three seconds while the on-screen display is off (hidden), the on-screen display is turned on.

12 <LENS> button

Adjusts the focus, zoom, and shift (position) of the lens.

13 <ENTER> button

Determines and executes an item in the menu screen.

14 <SHUTTER> button

Used to temporarily turn off the image. (→ page 71)

15 ▲▼◀▶ buttons

Used to select items in the menu screen, change settings, and adjust levels.

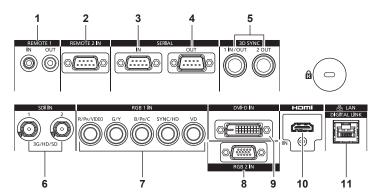
Also used to enter a password in [SECURITY] or enter characters.

16 Self-diagnosis display

Automatically displays the value of the input supply voltage, or details of errors or warnings when they occur.

(⇒ pages 74, 189)

■ Connecting terminals



1 <REMOTE 1 IN> terminal/<REMOTE 1 OUT> terminal

These are terminals to connect the remote control for serial control in a multiple projector environment.

2 <REMOTE 2 IN> terminal

This is a terminal to remotely control the projector using the external control circuit.

3 <SERIAL IN> terminal

This is the RS-232C compatible terminal to externally control the projector by connecting a computer.

4 <SERIAL OUT> terminal

This is a terminal to output the signal connected to the <SERIAL IN> terminal.

5 <3D SYNC 1 IN/OUT> terminal/<3D SYNC 2 OUT> terminal These are terminals to input or output control signals when using the projector in 3D systems.

6 <SDI IN 1> terminal/<SDI IN 2> terminal

These are terminals to input SDI signals.

7 <RGB 1 IN> terminals (<R/P_R/VIDEO>, <G/Y>, <B/P_B/C>, <SYNC/HD>, <VD>)

These are terminals to input RGB signals, YC $_{\!B}C_{R}/YP_{B}P_{R}$ signals, Y/C signals, or video signals.

8 < RGB 2 IN> terminal

This is a terminal to input RGB signals or YC_BC_R/YP_BP_R signals.

9 <DVI-D IN> terminal

This is the terminal to input DVI-D signals.

10 <HDMI IN> terminal

This is the terminal to input HDMI signals.

11 <DIGITAL LINK/LAN> terminal

This is the LAN terminal to connect to the network. This is also used when connecting a video signal transmission device via the LAN terminal.

Attention

When a LAN cable is directly connected to the projector, the network connection must be made indoors.

Preparing the remote control

Inserting and removing the batteries

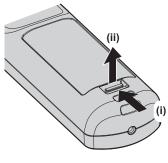


Fig. 1

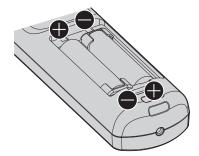


Fig. 2

- 1) Open the cover. (Fig. 1)
- 2) Insert the batteries and close the cover (insert the side first). (Fig. 2)
 - When removing the batteries, perform the steps in reverse order.

When using the multiple projectors

When you use the multiple projectors together, you can operate all the projectors simultaneously or each projector individually using single remote control, if a unique ID number is assigned to each projector.

When using the projectors by setting the ID numbers, set the ID number of the projector body after initial settings have been completed. Then, set the ID number of the remote control. For initial settings, refer to "When the initial setting screen is displayed" (*page 56).

The factory default ID number of the projector (projector body and remote control) is set to [ALL], so you can use it as it is. Set the ID numbers of the projector body and remote control as necessary.

For details on setting the ID number of the remote control, refer to "Setting ID number of the remote control" (→ page 74).

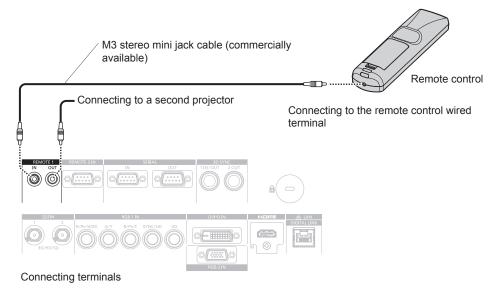
Note

• Set the ID number of the projector body from the [PROJECTOR SETUP] menu \rightarrow [PROJECTOR ID].

Connecting the remote control to the projector with a cable

If you control the multiple projectors with a single remote control, use commercially available M3 stereo mini jack cables to connect to the <REMOTE 1 IN>/<REMOTE 1 OUT> terminals of the projectors.

The remote control is effective even in places where an obstacle stands in the light path or where devices are susceptible to outside light.



Attention

• Use a cable that is 15 m (49'3") or shorter, with 2 core shielded. The remote control may not operate when the length of the cable exceeds 15 m (49'3") or when the shielding of the cable is inadequate.

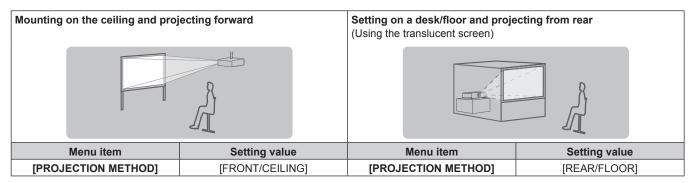
Chapter 2 Getting Started

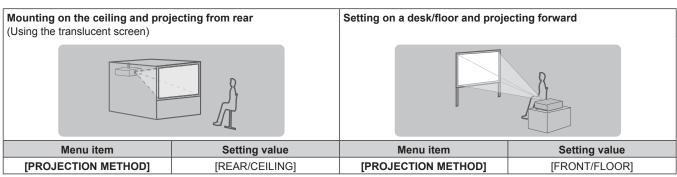
This chapter describes things you need to do before using the projector such as the setup and connections.

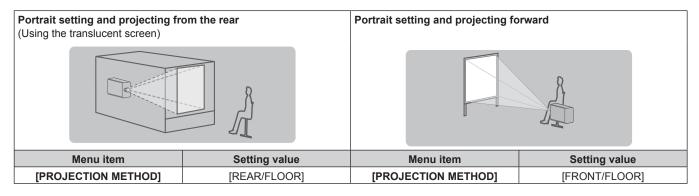
Setting up

Installation mode

The installation modes of the projector are as follows. Set the [PROJECTOR SETUP] menu \rightarrow [PROJECTION METHOD] (\Rightarrow page 125) depending on the installation mode.







Note

In the portrait setting, the on-screen menu is displayed sideways.
 To display the on-screen menu in portrait, go to the [DISPLAY OPTION] menu → [ON-SCREEN DISPLAY] (→ page 118) and change the [OSD ROTATION] setting.

Parts for ceiling mount (optional)

The projector can be installed on the ceiling by combining the optional Ceiling Mount Bracket (Model No.: ET-PKD520H (for High Ceilings), ET-PKD520S (for Low Ceilings)) and Ceiling Mount Bracket (Model No.: ET-PKD520B (Projector Mount Bracket)).

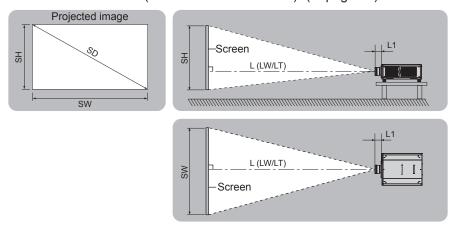
- Be sure to use the Ceiling Mount Bracket specified for this projector.
- Refer to the Installation Instructions of the Ceiling Mount Bracket when installing and setting up the projector. Two projectors can be stacked and used simultaneously by using the optional Frame (Model No.: ET-PFD510).

Attention

 To ensure projector performance and security, installation of the Ceiling Mount Bracket must be carried out by your dealer or a qualified technician.

Projected image and throw distance

Install the projector referring to the projected image size and projection distance. Image size and image position can be adjusted in accordance with the screen size and screen position. When the Fixed-focus Lens (Model No.: ET-D75LE90) is attached, the projection relation between the screen and the projector differs from that of other lenses. Refer to "For the Fixed-focus Lens (Model No.: ET-D75LE90)" (\Rightarrow page 36) for details.



(Unit: m)

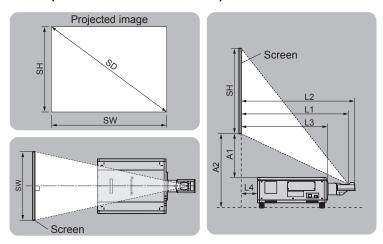
| L (LW/LT)*1 | Projection distance |
|-------------|---------------------------|
| L1 | Lens protrusion dimension |
| SH | Projected image height |
| SW | Projected image width |
| SD | Projected image size |

11 LW: Minimum projection distance when the Zoom Lens is used LT: Maximum projection distance when the Zoom Lens is used

(Unit: m)

| Projection lens Model No. | Dimension for L1 (approximate value) |
|---------------------------|--------------------------------------|
| ET-D75LE6 | 0.212 |
| ET-D75LE8 | 0.254 |
| ET-D75LE10 | 0.125 |
| ET-D75LE20 | 0.121 |
| ET-D75LE30 | 0.121 |
| ET-D75LE40 | 0.124 |
| ET-D75LE50 | 0.203 |

■ For the Fixed-focus Lens (Model No.: ET-D75LE90)



(Unit: m)

| SH | Projected image height |
|----|---|
| SW | Projected image width |
| SD | Projected image size |
| L1 | Projection distance (from the screen to the mirror reflection surface*1) |
| L2 | Distance between the projector and the screen (from the screen to the tip of the lens) |
| L3 | Distance between the projector and the screen (from the screen to the front surface of the projector) |
| L4 | Distance between the projector and the screen (from the screen to the rear surface of the projector) |
| A1 | Distance between the projector and the screen (from the screen bottom edge to the projector top) |
| A2 | Distance between the projector and the screen (from the screen bottom edge to the projector bottom) |

^{*1} The mirror reflection surface cannot be seen from the outside, because it is located inside the Fixed-focus Lens.

(Unit: m)

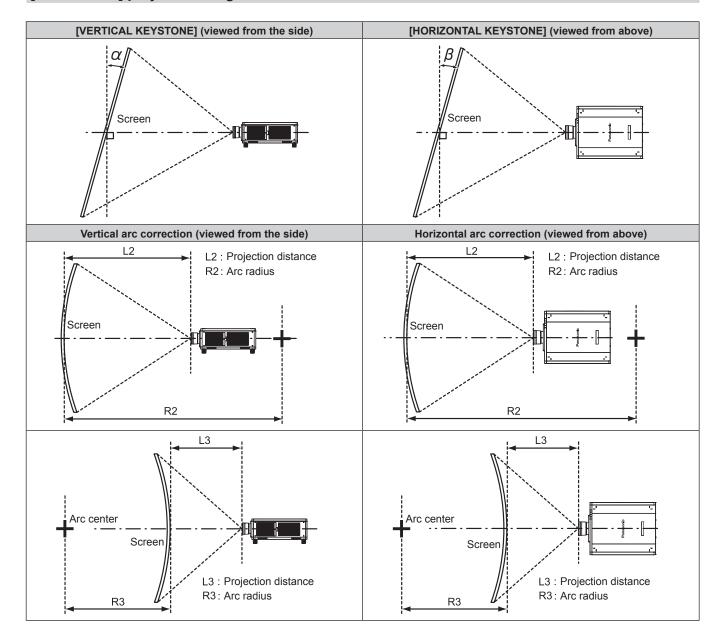
| Distance between projector and screen | Formula |
|---------------------------------------|----------------|
| L2 | = L1*1 + 0.029 |
| L3 | = L1*1 – 0.277 |
| L4 | = L1*1 - 1.002 |
| A2 | = A1*1 + 0.324 |

^{*1} For details of calculating values, refer to "Formula for calculating the projection distance per projection lens" (▶ page 44).

Attention

- Before setting up, read "Precautions for use" (*) page 18).
 Especially when the Fixed-focus Lens (Model No.: ET-D75LE90) is used, install the projector so that its back plane is parallel to the screen, making the projected image rectangular.
 - The vertical keystone distortion in moderate range can be corrected by the [POSITION] menu \rightarrow [GEOMETRY] \rightarrow [KEYSTONE] \rightarrow [VERTICAL KEYSTONE] (\Rightarrow page 93) even after the projector is installed. For the range that can be corrected, refer to "[GEOMETRY] projection range" (\Rightarrow page 37).
- Do not use the projector and the high-powered laser equipment in the same room. The DLP chips can be damaged if a laser beam hits the projection lens surface.
- The dimension of L4 is not the distance between the rear of the projector body and the wall, but the distance between the rear of the projector body and the screen surface. Install the projector with 500 mm (19-11/16") or larger space between the rear of the projector body and the wall or any object so that the ventilation is not obstructed.
 - When installing the projector in a confined space, provide air conditioning or ventilation separately. Exhaust heat may accumulate when the ventilation is not enough, triggering the protection circuit of the projector.

[GEOMETRY] projection range



Standard status

| | Only [KEYS | TONE] used | [KEYS | TONE] and [CU | IRVED] used to | gether | Only [CURVED] used | | |
|---------------------------------|---|---|---|---|------------------------|------------------------|---------------------|---------------------|--|
| Projection lens Model No. | Vertical keystone correction angle α (°) | Horizontal keystone correction angle β (°) | Vertical keystone correction angle α (°) | Horizontal keystone correction angle β (°) | Min. value of R2/L2 | Min. value of R3/L3 | Min. value of R2/L2 | Min. value of R3/L3 | |
| ET-D75LE6 | ±28 | ±15 | ±10 | ±10 | 1.6 | 3.9 | 0.9 | 2.3 | |
| ET-D75LE8 | ±40 | ±15 | ±20 | ±15 | 0.2 | 0.4 | 0.2 | 0.3 | |
| ET-D75LE10 | ±40 | ±15 | ±20 | ±15 | 1.1 | 2.6 | 0.6 | 1.5 | |
| ET-D75LE20 | ±40 | ±15 | ±20 | ±15 | 0.9 | 1.7 | 0.5 | 1.0 | |
| ET-D75LE30 | ±40 | ±15 | ±20 | ±15 | 0.6 | 1.2 | 0.4 | 0.7 | |
| ET-D75LE40 | ±40 | ±15 | ±20 | ±15 | 0.4 | 0.7 | 0.2 | 0.4 | |
| ET-D75LE50 | ±22 | ±15 | ±8 | ±8 | 2.0 | 4.9 | 1.2 | 2.9 | |
| ET-D75LE90*1 | +5 / -0 | 0 | _ | _ | _ | _ | _ | _ | |

^{*1} Only the vertical keystone correction angle can be corrected in the direction in which the projector body moves away from the screen.

When using the optional Upgrade Kit (Model No.: ET-UK20)

| | Only [KEYS] | ONE] used*1 | [KEYS | TONE] and [CU | IRVED] used to | gether | Only [CURVED] used | | | |
|---------------------------------|---|---|---|---|---------------------|------------------------|---------------------|------------------------|--|--|
| Projection lens Model No. | Vertical keystone correction angle α (°) | Horizontal keystone correction angle β (°) | Vertical keystone correction angle α (°) | Horizontal keystone correction angle β (°) | Min. value of R2/L2 | Min. value of R3/L3 | Min. value of R2/L2 | Min. value of R3/L3 | | |
| ET-D75LE6 | ±28 | ±15 | ±10 | ±10 | 1.2 | 3.0 | 0.7 | 1.7 | | |
| ET-D75LE8 | ±45 | ±40 | ±20 | ±15 | 0.2 | 0.3 | 0.1 | 0.2 | | |
| ET-D75LE10 | ±40 | ±40 | ±20 | ±15 | 0.9 | 2.0 | 0.5 | 1.1 | | |
| ET-D75LE20 | ±40 | ±40 | ±20 | ±15 | 0.7 | 1.3 | 0.4 | 0.7 | | |
| ET-D75LE30 | ±45 | ±40 | ±20 | ±15 | 0.5 | 0.9 | 0.3 | 0.5 | | |
| ET-D75LE40 | ±45 | ±40 | ±20 | ±15 | 0.3 | 0.5 | 0.2 | 0.3 | | |
| ET-D75LE50 | ±22 | ±15 | ±8 | ±8 | 1.5 | 3.7 | 0.9 | 2.2 | | |
| ET-D75LE90*2 | +5 / -0 | 0 | _ | _ | _ | _ | _ | _ | | |

^{*1} When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55°.

- When [GEOMETRY] is used, the focus of the entire screen may be lost as correction increases.
- Make the curved screen a circular arc shape with one part of a perfect circle removed.
- Adjustment range of the [GEOMETRY] items may not match the listed projection range depending on the projection lens. Use this projector within the projection range, otherwise the correction may not work.

^{*2} Only the vertical keystone correction angle can be corrected in the direction in which the projector body moves away from the screen.

Projection distance of each projection lens

A ±5 % error in listed projection distances may occur.

When [GEOMETRY] is used, distance is corrected to become smaller than the specified image size.

For PT-RZ12K

■ When the image aspect ratio is 16:10

| Le | | Zoom Lens | | | | | | | | | | | | |
|---------------|-------------|------------|-------|-------|-------|-------|-------|--------|----------|--------|--------|--------|--------|--------|
| Projection | lens Model | No. | ET-D7 | 75LE6 | ET-D7 | 5LE10 | ET-D7 | 5LE20 | ET-D7 | 5LE30 | ET-D7 | 5LE40 | ET-D7 | 75LE8 |
| Thro | ow ratio*1 | | 0.9- | 1.1:1 | 1.3- | 1.7:1 | 1.7-2 | 2.4:1 | 2.4-4 | 4.7:1 | 4.6- | 7.4:1 | 7.3-1 | 3.8:1 |
| Projecte | d image siz | е | | | | | Pro | ection | distance | e (L) | | | | |
| Diagonal (SD) | Height | Width (SW) | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| Diagonal (SD) | (SH) | width (Sw) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) |
| 1.78 (70") | 0.942 | 1.508 | 1.35 | 1.62 | 1.90 | 2.46 | 2.46 | 3.58 | 3.56 | 6.94 | 6.87 | 11.04 | 10.78 | 20.56 |
| 2.03 (80") | 1.077 | 1.723 | 1.55 | 1.86 | 2.19 | 2.83 | 2.82 | 4.11 | 4.08 | 7.96 | 7.88 | 12.65 | 12.37 | 23.55 |
| 2.29 (90") | 1.212 | 1.939 | 1.76 | 2.10 | 2.47 | 3.20 | 3.19 | 4.64 | 4.61 | 8.98 | 8.88 | 14.25 | 13.97 | 26.54 |
| 2.54 (100") | 1.346 | 2.154 | 1.96 | 2.34 | 2.76 | 3.56 | 3.55 | 5.17 | 5.13 | 9.99 | 9.88 | 15.85 | 15.57 | 29.53 |
| 3.05 (120") | 1.615 | 2.585 | 2.36 | 2.82 | 3.32 | 4.30 | 4.28 | 6.22 | 6.18 | 12.03 | 11.89 | 19.05 | 18.76 | 35.50 |
| 3.81 (150") | 2.019 | 3.231 | 2.96 | 3.55 | 4.18 | 5.40 | 5.37 | 7.81 | 7.75 | 15.08 | 14.90 | 23.85 | 23.54 | 44.47 |
| 5.08 (200") | 2.692 | 4.308 | 3.97 | 4.75 | 5.60 | 7.24 | 7.19 | 10.45 | 10.38 | 20.16 | 19.92 | 31.86 | 31.52 | 59.41 |
| 6.35 (250") | 3.365 | 5.385 | 4.98 | 5.96 | 7.02 | 9.07 | 9.00 | 13.09 | 13.00 | 25.25 | 24.95 | 39.86 | 39.49 | 74.36 |
| 7.62 (300") | 4.039 | 6.462 | 5.99 | 7.17 | 8.44 | 10.91 | 10.82 | 15.73 | 15.62 | 30.34 | 29.97 | 47.87 | 47.47 | 89.30 |
| 8.89 (350") | 4.712 | 7.539 | 6.99 | 8.37 | 9.86 | 12.74 | 12.64 | 18.37 | 18.24 | 35.42 | 34.99 | 55.87 | 55.44 | 104.24 |
| 10.16 (400") | 5.385 | 8.616 | 8.00 | 9.58 | 11.28 | 14.58 | 14.46 | 21.01 | 20.86 | 40.51 | 40.01 | 63.87 | 63.42 | 119.19 |
| 12.70 (500") | 6.731 | 10.770 | 10.01 | 11.99 | 14.12 | 18.25 | 18.09 | 26.29 | 26.11 | 50.68 | 50.05 | 79.88 | 79.37 | 149.08 |
| 15.24 (600") | 8.077 | 12.923 | 12.03 | 14.40 | 16.96 | 21.92 | 21.73 | 31.58 | 31.35 | 60.85 | 60.09 | 95.89 | 95.32 | 178.96 |
| 17.78 (700") | 9.423 | 15.077 | 14.04 | 16.82 | 19.80 | 25.60 | 25.36 | 36.86 | 36.60 | 71.02 | 70.13 | 111.90 | 111.27 | _ |
| 20.32 (800") | 10.770 | 17.231 | 16.06 | 19.23 | 22.64 | 29.27 | 29.00 | 42.14 | 41.84 | 81.19 | 80.17 | 127.91 | 127.23 | _ |
| 22.86 (900") | 12.116 | 19.385 | 18.07 | 21.64 | 25.48 | 32.94 | 32.63 | 47.42 | 47.09 | 91.36 | 90.21 | 143.92 | 143.18 | _ |
| 25.40 (1000") | 13.462 | 21.539 | 20.08 | 24.06 | 28.33 | 36.61 | 36.27 | 52.70 | 52.33 | 101.53 | 100.25 | 159.93 | 159.13 | _ |

| Le | ns type | | Fixed-focus Lens | | | | | | | |
|---------------|---------------------------------------|--------|---------------------|-------------|----------------------------|-------------------------|--|--|--|--|
| Projection | lens Model | No. | | ET-D75LES | 90*2 | ET-D75LE50 | | | | |
| Thro | ow ratio*1 | | | 0.36:1 | | 0.7:1 | | | | |
| Projecte | ed image siz | е | Projection distance | Distance be | tween projector and screen | Projection distance (L) | | | | |
| Diagonal (SD) | (SH) \ | | | (L4) | (A1) | Fixed | | | | |
| 1.78 (70") | 0.942 | 1.508 | _ | _ | _ | 1.01 | | | | |
| 2.03 (80") | 2.03 (80") 1.077 1.723 | | | _ | _ | 1.16 | | | | |
| 2.29 (90") | | | | _ | _ | 1.32 | | | | |
| 2.54 (100") | · · · · · · · · · · · · · · · · · · · | | | _ | _ | 1.47 | | | | |
| 3.05 (120") | 1.615 | 2.585 | 0.94 | -0.06 | 0.24 - 0.33 | 1.78 | | | | |
| 3.81 (150") | 2.019 | 3.231 | 1.18 | | | 2.24 | | | | |
| 5.08 (200") | 2.692 | 4.308 | 1.56 | 0.56 | 0.49 - 0.63 | 3.01 | | | | |
| 6.35 (250") | 3.365 | 5.385 | 1.95 | 0.94 | 0.64 - 0.82 | 3.78 | | | | |
| 7.62 (300") | 4.039 | 6.462 | 2.33 | 1.33 | 0.80 - 1.01 | 4.56 | | | | |
| 8.89 (350") | 4.712 | 7.539 | 2.72 | 1.71 | 0.95 - 1.21 | 5.33 | | | | |
| 10.16 (400") | 5.385 | 8.616 | 3.10 | 2.10 | 1.11 - 1.40 | 6.10 | | | | |
| 12.70 (500") | 6.731 | 10.770 | 3.87 | 2.87 | 1.41 - 1.78 | 7.64 | | | | |
| 15.24 (600") | 8.077 | 12.923 | 4.64 | 3.64 | 1.72 - 2.16 | 9.18 | | | | |
| 17.78 (700") | | | | _ | _ | 10.72 | | | | |
| 20.32 (800") | 20.32 (800") 10.770 17.231 | | _ | _ | _ | 12.27 | | | | |
| 22.86 (900") | 22.86 (900") 12.116 19.385 | | _ | _ | _ | 13.81 | | | | |
| 25.40 (1000") | | | | _ | _ | 15.35 | | | | |

^{*1} The throw ratio is based on the value during projection with the projected image size of 3.81 m (150").
*2 When the Fixed-focus Lens (Model No.: ET-D75LE90) is attached, the projection relation between the screen and the projector differs from that of other lenses. Refer to "For the Fixed-focus Lens (Model No.: ET-D75LE90)" (→ page 36) for details.

■ When the image aspect ratio is 16:9

| Lei | ns type | | Zoom Lens | | | | | | | | | | | |
|---------------|-------------|------------|-----------|-------|-------|-------|-------|-----------|----------|--------|--------|--------|--------|--------|
| Projection | lens Model | No. | ET-D7 | 75LE6 | ET-D7 | 5LE10 | ET-D7 | 5LE20 | ET-D7 | 5LE30 | ET-D7 | 5LE40 | ET-D7 | 75LE8 |
| | w ratio*1 | | 0.9- | 1.1:1 | 1.3- | 1.7:1 | 1.7-2 | 2.4:1 | 2.4-4 | 4.7:1 | 4.6-7 | 7.4:1 | 7.3-1 | 3.8:1 |
| Projecte | d image siz | e | | | | | Pro | jection (| distance | e (L) | | | | |
| Diagonal (SD) | Height | Width (SW) | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| Diagonal (3D) | (SH) | width (3w) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) |
| 1.78 (70") | 0.872 | 1.550 | 1.39 | 1.66 | 1.96 | 2.53 | 2.53 | 3.68 | 3.66 | 7.14 | 7.07 | 11.36 | 11.09 | 21.14 |
| 2.03 (80") | 0.996 | 1.771 | 1.60 | 1.91 | 2.25 | 2.91 | 2.91 | 4.23 | 4.20 | 8.19 | 8.10 | 13.00 | 12.73 | 24.21 |
| 2.29 (90") | 1.121 | 1.992 | 1.81 | 2.16 | 2.54 | 3.29 | 3.28 | 4.77 | 4.74 | 9.23 | 9.13 | 14.65 | 14.37 | 27.29 |
| 2.54 (100") | 1.245 | 2.214 | 2.01 | 2.41 | 2.83 | 3.67 | 3.65 | 5.31 | 5.28 | 10.28 | 10.16 | 16.29 | 16.01 | 30.36 |
| 3.05 (120") | 1.494 | 2.657 | 2.43 | 2.90 | 3.42 | 4.42 | 4.40 | 6.40 | 6.35 | 12.37 | 12.23 | 19.58 | 19.29 | 36.50 |
| 3.81 (150") | 1.868 | 3.321 | 3.05 | 3.65 | 4.29 | 5.55 | 5.52 | 8.03 | 7.97 | 15.50 | 15.32 | 24.52 | 24.21 | 45.72 |
| 5.08 (200") | 2.491 | 4.428 | 4.08 | 4.89 | 5.75 | 7.44 | 7.39 | 10.74 | 10.67 | 20.73 | 20.48 | 32.75 | 32.40 | 61.08 |
| 6.35 (250") | 3.113 | 5.535 | 5.12 | 6.13 | 7.21 | 9.33 | 9.26 | 13.46 | 13.36 | 25.96 | 25.64 | 40.97 | 40.60 | 76.44 |
| 7.62 (300") | 3.736 | 6.641 | 6.15 | 7.37 | 8.67 | 11.21 | 11.13 | 16.17 | 16.06 | 31.18 | 30.80 | 49.20 | 48.80 | 91.79 |
| 8.89 (350") | 4.358 | 7.748 | 7.19 | 8.61 | 10.13 | 13.10 | 12.99 | 18.88 | 18.75 | 36.41 | 35.96 | 57.43 | 57.00 | 107.15 |
| 10.16 (400") | 4.981 | 8.855 | 8.22 | 9.85 | 11.59 | 14.99 | 14.86 | 21.60 | 21.45 | 41.64 | 41.12 | 65.65 | 65.19 | 122.51 |
| 12.70 (500") | 6.226 | 11.069 | 10.29 | 12.33 | 14.51 | 18.76 | 18.60 | 27.03 | 26.84 | 52.09 | 51.44 | 82.11 | 81.59 | 153.23 |
| 15.24 (600") | 7.472 | 13.283 | 12.36 | 14.81 | 17.44 | 22.54 | 22.33 | 32.46 | 32.23 | 62.54 | 61.76 | 98.56 | 97.98 | 183.95 |
| 17.78 (700") | 8.717 | 15.497 | 14.43 | 17.29 | 20.36 | 26.31 | 26.07 | 37.89 | 37.62 | 73.00 | 72.08 | 115.02 | 114.38 | _ |
| 20.32 (800") | 9.962 | 17.710 | 16.50 | 19.77 | 23.28 | 30.09 | 29.81 | 43.31 | 43.01 | 83.45 | 82.41 | 131.47 | 130.77 | _ |
| 22.86 (900") | 11.207 | 19.924 | 18.57 | 22.25 | 26.20 | 33.86 | 33.54 | 48.74 | 48.40 | 93.90 | 92.73 | 147.92 | 147.17 | _ |
| 25.40 (1000") | 12.453 | 22.138 | 20.64 | 24.73 | 29.12 | 37.63 | 37.28 | 54.17 | 53.79 | 104.36 | 103.05 | 164.38 | 163.56 | _ |

| Le | ns type | | Fixed-focus Lens | | | | | | | |
|---------------|---------------------------|--------|---------------------|-------------|----------------------------|-------------------------|--|--|--|--|
| Projection | lens Model | No. | | ET-D75LE | 90*2 | ET-D75LE50 | | | | |
| Thr | ow ratio*1 | | | 0.36:1 | | 0.7:1 | | | | |
| Projecte | ed image siz | :e | Projection distance | Distance be | tween projector and screen | Projection distance (L) | | | | |
| Diagonal (SD) | (SH) \ | | | (L4) | (A1) | Fixed | | | | |
| 1.78 (70") | 0.872 | 1.550 | _ | _ | _ | 1.04 | | | | |
| 2.03 (80") | 0.996 | 1.771 | _ | _ | _ | 1.20 | | | | |
| 2.29 (90") | | | | _ | _ | 1.36 | | | | |
| 2.54 (100") | 1.245 | 2.214 | _ | _ | _ | 1.51 | | | | |
| 3.05 (120") | 1.494 | 2.657 | 0.97 | -0.03 | 0.21 - 0.29 | 1.83 | | | | |
| 3.81 (150") | 1.868 | 3.321 | 1.21 | 0.20 | 0.30 - 0.40 | 2.31 | | | | |
| 5.08 (200") | 2.491 | 4.428 | 1.60 | 0.60 | 0.44 - 0.58 | 3.10 | | | | |
| 6.35 (250") | 3.113 | 5.535 | 2.00 | 1.00 | 0.58 - 0.75 | 3.89 | | | | |
| 7.62 (300") | 3.736 | 6.641 | 2.39 | 1.39 | 0.73 - 0.93 | 4.68 | | | | |
| 8.89 (350") | 4.358 | 7.748 | 2.79 | 1.79 | 0.87 - 1.11 | 5.48 | | | | |
| 10.16 (400") | 4.981 | 8.855 | 3.19 | 2.18 | 1.01 - 1.28 | 6.27 | | | | |
| 12.70 (500") | 6.226 | 11.069 | 3.98 | 2.97 | 1.30 - 1.63 | 7.85 | | | | |
| 15.24 (600") | 7.472 | 13.283 | 4.77 | 3.77 | 1.58 - 1.99 | 9.44 | | | | |
| 17.78 (700") | ` , | | _ | _ | _ | 11.02 | | | | |
| 20.32 (800") | 20.32 (800") 9.962 17.710 | | _ | _ | _ | 12.61 | | | | |
| 22.86 (900") | | | _ | _ | _ | 14.19 | | | | |
| 25.40 (1000") | 12.453 | 22.138 | _ | _ | _ | 15.78 | | | | |

^{*1} The throw ratio is based on the value during projection with the projected image size of 3.81 m (150").

^{*2} When the Fixed-focus Lens (Model No.: ET-D75LE90) is attached, the projection relation between the screen and the projector differs from that of other lenses. Refer to "For the Fixed-focus Lens (Model No.: ET-D75LE90)" (→ page 36) for details.

■ When the image aspect ratio is 4:3

| Le | Lens type | | | | | | | Zoom | Lens | | | | | |
|---------------|-------------|------------|-------|-------|-------|-------|-------|--------|----------|--------|--------|--------|--------|--------|
| | lens Model | No. | ET-D7 | 75LE6 | ET-D7 | 5LE10 | ET-D7 | 5LE20 | ET-D7 | 5LE30 | ET-D7 | 5LE40 | ET-D7 | 75LE8 |
| Thro | ow ratio*1 | | 1.1-1 | 1.3:1 | 1.6-2 | 2.0:1 | 2.0-2 | 2.9:1 | 2.9- | 5.6:1 | 5.5-8 | 8.9:1 | 8.8-1 | 6.5:1 |
| Projecte | d image siz | e | | | | | Pro | ection | distance | e (L) | | | | |
| Diagonal (SD) | Height | Width (SW) | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| Diagonal (SD) | (SH) | Width (SW) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) |
| 1.78 (70") | 1.067 | 1.422 | 1.54 | 1.84 | 2.17 | 2.80 | 2.80 | 4.07 | 4.04 | 7.88 | 7.80 | 12.52 | 12.25 | 23.32 |
| 2.03 (80") | 1.219 | 1.626 | 1.77 | 2.11 | 2.49 | 3.22 | 3.21 | 4.67 | 4.64 | 9.03 | 8.94 | 14.34 | 14.06 | 26.71 |
| 2.29 (90") | 1.372 | 1.829 | 2.00 | 2.38 | 2.81 | 3.63 | 3.62 | 5.27 | 5.23 | 10.19 | 10.07 | 16.15 | 15.87 | 30.09 |
| 2.54 (100") | 1.524 | 2.032 | 2.22 | 2.66 | 3.13 | 4.05 | 4.03 | 5.86 | 5.82 | 11.34 | 11.21 | 17.96 | 17.67 | 33.47 |
| 3.05 (120") | 1.829 | 2.438 | 2.68 | 3.20 | 3.77 | 4.88 | 4.86 | 7.06 | 7.01 | 13.64 | 13.48 | 21.59 | 21.28 | 40.24 |
| 3.81 (150") | 2.286 | 3.048 | 3.36 | 4.02 | 4.74 | 6.13 | 6.09 | 8.85 | 8.79 | 17.09 | 16.89 | 27.02 | 26.70 | 50.39 |
| 5.08 (200") | 3.048 | 4.064 | 4.50 | 5.39 | 6.35 | 8.21 | 8.15 | 11.84 | 11.76 | 22.85 | 22.58 | 36.09 | 35.73 | 67.31 |
| 6.35 (250") | 3.810 | 5.080 | 5.64 | 6.76 | 7.96 | 10.28 | 10.20 | 14.83 | 14.73 | 28.61 | 28.26 | 45.15 | 44.76 | 84.23 |
| 7.62 (300") | 4.572 | 6.096 | 6.78 | 8.12 | 9.56 | 12.36 | 12.26 | 17.82 | 17.70 | 34.36 | 33.94 | 54.21 | 53.79 | 101.14 |
| 8.89 (350") | 5.334 | 7.112 | 7.92 | 9.49 | 11.17 | 14.44 | 14.32 | 20.81 | 20.67 | 40.12 | 39.63 | 63.27 | 62.82 | 118.06 |
| 10.16 (400") | 6.096 | 8.128 | 9.06 | 10.85 | 12.78 | 16.52 | 16.38 | 23.80 | 23.63 | 45.88 | 45.31 | 72.33 | 71.85 | 134.98 |
| 12.70 (500") | 7.620 | 10.160 | 11.34 | 13.58 | 16.00 | 20.68 | 20.49 | 29.78 | 29.57 | 57.39 | 56.68 | 90.45 | 89.91 | 168.81 |
| 15.24 (600") | 9.144 | 12.192 | 13.62 | 16.32 | 19.21 | 24.83 | 24.61 | 35.76 | 35.51 | 68.91 | 68.05 | 108.58 | 107.96 | 202.65 |
| 17.78 (700") | 10.668 | 14.224 | 15.90 | 19.05 | 22.43 | 28.99 | 28.72 | 41.74 | 41.45 | 80.42 | 79.41 | 126.70 | 126.02 | |
| 20.32 (800") | 12.192 | 16.256 | 18.18 | 21.78 | 25.65 | 33.15 | 32.84 | 47.72 | 47.38 | 91.93 | 90.78 | 144.82 | 144.08 | |
| 22.86 (900") | 13.716 | 18.288 | 20.46 | 24.51 | 28.86 | 37.31 | 36.95 | 53.70 | 53.32 | 103.45 | 102.15 | 162.95 | 162.14 | _ |
| 25.40 (1000") | 15.240 | 20.320 | 22.74 | 27.24 | 32.08 | 41.46 | 41.07 | 59.68 | 59.26 | 114.96 | 113.52 | 181.07 | 180.20 | _ |

| Le | ns type | | Fixed-focus Lens | | | | | | |
|---------------|----------------------------|--------|---------------------|-------------|-------------------------|------------|--|--|--|
| Projection | lens Model | No. | | ET-D75LES | 90*2 | ET-D75LE50 | | | |
| Thro | ow ratio*1 | | | 0.44:1 | | 0.8:1 | | | |
| Projecte | ed image siz | e | Projection distance | Distance be | Projection distance (L) | | | | |
| Diagonal (SD) | 5 (SH) . | | | (L4) | (A1) | Fixed | | | |
| 1.78 (70") | 1.067 | 1.422 | _ | _ | _ | 1.15 | | | |
| 2.03 (80") | 1.219 | 1.626 | _ | _ | _ | 1.33 | | | |
| 2.29 (90") | 1.372 | 1.829 | _ | _ | _ | 1.50 | | | |
| 2.54 (100") | 1.524 | 2.032 | _ | _ | _ | 1.67 | | | |
| 3.05 (120") | 1.829 | 2.438 | 1.07 | 0.06 | 0.29 - 0.39 | 2.02 | | | |
| 3.81 (150") | 2.286 | 3.048 | 1.33 | 0.33 | 0.40 - 0.52 | 2.55 | | | |
| 5.08 (200") | 3.048 | 4.064 | 1.76 | 0.76 | 0.57 - 0.73 | 3.42 | | | |
| 6.35 (250") | 3.810 | 5.080 | 2.20 | 1.20 | 0.74 - 0.95 | 4.29 | | | |
| 7.62 (300") | 4.572 | 6.096 | 2.64 | 1.63 | 0.92 - 1.17 | 5.17 | | | |
| 8.89 (350") | 5.334 | 7.112 | 3.07 | 2.07 | 1.09 - 1.38 | 6.04 | | | |
| 10.16 (400") | 6.096 | 8.128 | 3.51 | 2.50 | 1.27 - 1.60 | 6.91 | | | |
| 12.70 (500") | 7.620 | 10.160 | 4.38 | 3.38 | 1.62 - 2.03 | 8.66 | | | |
| 15.24 (600") | 9.144 | 12.192 | 5.25 | 4.25 | 1.97 - 2.46 | 10.40 | | | |
| 17.78 (700") | | | | _ | _ | 12.15 | | | |
| 20.32 (800") | 20.32 (800") 12.192 16.256 | | | _ | _ | 13.90 | | | |
| 22.86 (900") | 22.86 (900") 13.716 18.288 | | _ | _ | _ | 15.64 | | | |
| 25.40 (1000") | | | | _ | _ | 17.39 | | | |

^{*1} The throw ratio is based on the value during projection with the projected image size of 3.81 m (150").

^{*2} When the Fixed-focus Lens (Model No.: ET-D75LE90) is attached, the projection relation between the screen and the projector differs from that of other lenses. Refer to "For the Fixed-focus Lens (Model No.: ET-D75LE90)" (→ page 36) for details.

For PT-RS11K

■ When the image aspect ratio is 4:3

| Le | ns type | | Zoom Lens | | | | | | | | | | | |
|---------------|-------------|------------|-----------|-------|-------|-------|-------|-----------|----------|--------|--------|--------|--------|--------|
| Projection | lens Model | No. | ET-D7 | 75LE6 | ET-D7 | 5LE10 | ET-D7 | 5LE20 | ET-D7 | 5LE30 | ET-D7 | 5LE40 | ET-D7 | 75LE8 |
| Thro | ow ratio*1 | | 1.0- | 1.2:1 | 1.4- | 1.8:1 | 1.8-2 | 2.6:1 | 2.6- | 5.1:1 | 5.0- | 8.0:1 | 7.9-1 | 5.0:1 |
| Projecte | d image siz | :e | | | | | Pro | jection (| distance | e (L) | | | | |
| Diagonal (SD) | Height | Width (SW) | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| Diagonal (3D) | (SH) | width (3w) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) | (LW) | (LT) |
| 1.78 (70") | 1.067 | 1.422 | 1.39 | 1.66 | 1.95 | 2.52 | 2.52 | 3.66 | 3.64 | 7.10 | 7.02 | 11.28 | 11.09 | 21.14 |
| 2.03 (80") | 1.219 | 1.626 | 1.60 | 1.91 | 2.24 | 2.89 | 2.89 | 4.20 | 4.17 | 8.13 | 8.05 | 12.92 | 12.73 | 24.21 |
| 2.29 (90") | 1.372 | 1.829 | 1.81 | 2.16 | 2.53 | 3.27 | 3.26 | 4.74 | 4.71 | 9.17 | 9.07 | 14.56 | 14.37 | 27.29 |
| 2.54 (100") | 1.524 | 2.032 | 2.01 | 2.41 | 2.82 | 3.64 | 3.63 | 5.28 | 5.24 | 10.21 | 10.10 | 16.19 | 16.01 | 30.36 |
| 3.05 (120") | 1.829 | 2.438 | 2.43 | 2.90 | 3.40 | 4.39 | 4.37 | 6.36 | 6.31 | 12.29 | 12.15 | 19.46 | 19.29 | 36.50 |
| 3.81 (150") | 2.286 | 3.048 | 3.05 | 3.65 | 4.27 | 5.52 | 5.49 | 7.98 | 7.92 | 15.41 | 15.23 | 24.37 | 24.21 | 45.72 |
| 5.08 (200") | 3.048 | 4.064 | 4.08 | 4.89 | 5.72 | 7.39 | 7.34 | 10.67 | 10.60 | 20.60 | 20.35 | 32.54 | 32.40 | 61.08 |
| 6.35 (250") | 3.810 | 5.080 | 5.12 | 6.13 | 7.17 | 9.27 | 9.20 | 13.37 | 13.28 | 25.79 | 25.48 | 40.72 | 40.60 | 76.44 |
| 7.62 (300") | 4.572 | 6.096 | 6.15 | 7.37 | 8.62 | 11.14 | 11.06 | 16.07 | 15.96 | 30.99 | 30.61 | 48.89 | 48.80 | 91.79 |
| 8.89 (350") | 5.334 | 7.112 | 7.19 | 8.61 | 10.07 | 13.02 | 12.91 | 18.77 | 18.63 | 36.18 | 35.74 | 57.07 | 57.00 | 107.15 |
| 10.16 (400") | 6.096 | 8.128 | 8.22 | 9.85 | 11.52 | 14.90 | 14.77 | 21.46 | 21.31 | 41.38 | 40.87 | 65.25 | 65.19 | 122.51 |
| 12.70 (500") | 7.620 | 10.160 | 10.29 | 12.33 | 14.42 | 18.65 | 18.48 | 26.86 | 26.67 | 51.77 | 51.12 | 81.60 | 81.59 | 153.23 |
| 15.24 (600") | 9.144 | 12.192 | 12.36 | 14.81 | 17.33 | 22.40 | 22.19 | 32.25 | 32.03 | 62.15 | 61.38 | 97.95 | 97.98 | 183.95 |
| 17.78 (700") | 10.668 | 14.224 | 14.43 | 17.29 | 20.23 | 26.15 | 25.91 | 37.65 | 37.38 | 72.54 | 71.64 | 114.30 | 114.38 | _ |
| 20.32 (800") | 12.192 | 16.256 | 16.50 | 19.77 | 23.13 | 29.90 | 29.62 | 43.04 | 42.74 | 82.93 | 81.89 | 130.65 | 130.77 | |
| 22.86 (900") | 13.716 | 18.288 | 18.57 | 22.25 | 26.03 | 33.65 | 33.33 | 48.44 | 48.10 | 93.32 | 92.15 | 147.00 | 147.17 | _ |
| 25.40 (1000") | 15.240 | 20.320 | 20.64 | 24.73 | 28.93 | 37.40 | 37.05 | 53.83 | 53.45 | 103.71 | 102.41 | 163.36 | 163.56 | _ |

| Le | ns type | | | Fixe | d-focus Lens | |
|---------------|---------------------------------------|------------|------------------|-------------|----------------------------|-------------------------|
| Projection | lens Model | No. | | ET-D75LE | 90*2 | ET-D75LE50 |
| Thre | ow ratio*1 | | | 0.39:1 | | 0.8:1 |
| Projecte | ed image siz | :e | Projection | Distance be | tween projector and screen | Projection distance (L) |
| Diagonal (SD) | Height (SH) | Width (SW) | distance (L1) | (L4) | (A1) | Fixed |
| 1.78 (70") | 1.067 | 1.422 | _ | _ | _ | 1.03 |
| 2.03 (80") | 1.219 | 1.626 | _ | _ | _ | 1.19 |
| 2.29 (90") | 1.372 | 1.829 | _ | _ | _ | 1.35 |
| 2.54 (100") | | | | _ | _ | 1.50 |
| 3.05 (120") | 1.829 | 2.438 | 0.96 | -0.04 | 0.25 | 1.82 |
| 3.81 (150") | 2.286 | 3.048 | 1.20 | 0.20 | 0.34 | 2.29 |
| 5.08 (200") | 3.048 | 4.064 | 1.59 | 0.59 | 0.50 | 3.08 |
| 6.35 (250") | 3.810 | 5.080 | 1.99 | 0.98 | 0.66 | 3.87 |
| 7.62 (300") | 4.572 | 6.096 | 2.38 | 1.38 | 0.81 | 4.65 |
| 8.89 (350") | 5.334 | 7.112 | 2.77 | 1.77 | 0.97 | 5.44 |
| 10.16 (400") | 6.096 | 8.128 | 3.17 | 2.16 | 1.13 | 6.23 |
| 12.70 (500") | 7.620 | 10.160 | 3.95 | 2.95 | 1.44 | 7.80 |
| 15.24 (600") | 9.144 | 12.192 | 4.74 | 3.74 | 1.76 | 9.38 |
| 17.78 (700") | 10.668 | 14.224 | _ | _ | _ | 10.96 |
| 20.32 (800") | 12.192 | 16.256 | _ | _ | _ | 12.53 |
| 22.86 (900") | 13.716 | 18.288 | _ | _ | _ | 14.11 |
| 25.40 (1000") | · · · · · · · · · · · · · · · · · · · | | | _ | _ | 15.68 |

^{*1} The throw ratio is based on the value during projection with the projected image size of 3.81 m (150").
*2 When the Fixed-focus Lens (Model No.: ET-D75LE90) is attached, the projection relation between the screen and the projector differs from that of other lenses. Refer to "For the Fixed-focus Lens (Model No.: ET-D75LE90)" (→ page 36) for details.

■ When the image aspect ratio is 16:9

| Le | Lens type | | | | | | | Zoom | Lens | | | | | |
|---------------|----------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Projection | lens Model | No. | ET-D7 | 75LE6 | ET-D7 | 5LE10 | ET-D7 | 5LE20 | ET-D7 | 5LE30 | ET-D7 | 5LE40 | ET-D7 | 75LE8 |
| Thro | ow ratio*1 | | 1.0- | 1.2:1 | 1.4- | 1.8:1 | 1.8-2 | 2.6:1 | 2.6- | 5.1:1 | 5.0-8 | 3.0:1 | 8.0-1 | 5.0:1 |
| Projecte | d image siz | e | | | | | Pro | jection (| distance | e (L) | | | | |
| Diagonal (SD) | Height (SH) | Width (SW) | Min. (LW) | Max. (LT) |
| 1.78 (70") | 0.872 | 1.550 | 1.52 | 1.82 | 2.13 | 2.75 | 2.75 | 4.00 | 3.97 | 7.74 | 7.66 | 12.31 | 12.12 | 23.06 |
| 2.03 (80") | 0.996 | 1.771 | 1.75 | 2.09 | 2.44 | 3.16 | 3.15 | 4.59 | 4.55 | 8.88 | 8.78 | 14.09 | 13.90 | 26.41 |
| 2.29 (90") | 1.121 | 1.992 | 1.97 | 2.36 | 2.76 | 3.57 | 3.56 | 5.17 | 5.14 | 10.01 | 9.90 | 15.87 | 15.69 | 29.76 |
| 2.54 (100") | 1.245 | 2.214 | 2.20 | 2.63 | 3.08 | 3.98 | 3.96 | 5.76 | 5.72 | 11.14 | 11.01 | 17.65 | 17.47 | 33.10 |
| 3.05 (120") | 1.494 | 2.657 | 2.65 | 3.17 | 3.71 | 4.79 | 4.77 | 6.94 | 6.89 | 13.40 | 13.25 | 21.21 | 21.04 | 39.79 |
| 3.81 (150") | 1.868 | 3.321 | 3.33 | 3.98 | 4.66 | 6.02 | 5.98 | 8.70 | 8.64 | 16.80 | 16.60 | 26.56 | 26.40 | 49.83 |
| 5.08 (200") | 2.491 | 4.428 | 4.45 | 5.33 | 6.24 | 8.06 | 8.01 | 11.64 | 11.56 | 22.46 | 22.19 | 35.46 | 35.33 | 66.56 |
| 6.35 (250") | 3.113 | 5.535 | 5.58 | 6.68 | 7.82 | 10.11 | 10.03 | 14.58 | 14.47 | 28.11 | 27.77 | 44.37 | 44.26 | 83.29 |
| 7.62 (300") | 3.736 | 6.641 | 6.71 | 8.03 | 9.40 | 12.15 | 12.05 | 17.51 | 17.39 | 33.77 | 33.36 | 53.27 | 53.19 | 100.02 |
| 8.89 (350") | 4.358 | 7.748 | 7.84 | 9.38 | 10.98 | 14.19 | 14.07 | 20.45 | 20.31 | 39.43 | 38.95 | 62.18 | 62.12 | 116.75 |
| 10.16 (400") | 4.981 | 8.855 | 8.96 | 10.73 | 12.56 | 16.23 | 16.10 | 23.39 | 23.23 | 45.09 | 44.53 | 71.09 | 71.05 | 133.48 |
| 12.70 (500") | 6.226 | 11.069 | 11.22 | 13.43 | 15.72 | 20.32 | 20.14 | 29.27 | 29.06 | 56.40 | 55.70 | 88.90 | 88.91 | 166.95 |
| 15.24 (600") | 7.472 | 13.283 | 13.47 | 16.14 | 18.88 | 24.41 | 24.18 | 35.15 | 34.90 | 67.72 | 66.88 | 106.71 | 106.77 | 200.41 |
| 17.78 (700") | 8.717 | 15.497 | 15.73 | 18.84 | 22.04 | 28.49 | 28.23 | 41.02 | 40.73 | 79.04 | 78.05 | 124.52 | 124.63 | _ |
| 20.32 (800") | 9.962 | 17.710 | 17.98 | 21.54 | 25.20 | 32.58 | 32.27 | 46.90 | 46.57 | 90.35 | 89.22 | 142.34 | 142.49 | |
| 22.86 (900") | 11.207 | 19.924 | 20.24 | 24.24 | 28.36 | 36.66 | 36.32 | 52.78 | 52.40 | 101.67 | 100.39 | 160.15 | 160.35 | |
| 25.40 (1000") | 12.453 | 22.138 | 22.49 | 26.94 | 31.53 | 40.75 | 40.36 | 58.65 | 58.24 | 112.98 | 111.56 | 177.96 | 178.20 | _ |

| Le | ns type | | Fixed-focus Lens | | | | | | |
|---------------|----------------------------|--------|---------------------|------------------|----------------------------|-------------------------|--|--|--|
| | lens Model | No. | | ET-D75LES | 90*2 | ET-D75LE50 | | | |
| Thre | ow ratio*1 | | | 0.39:1 | | 0.8:1 | | | |
| Projecte | ed image siz | :e | Projection distance | Distance be | tween projector and screen | Projection distance (L) | | | |
| Diagonal (SD) | (SH) \ | | | (L4) | (A1) | Fixed | | | |
| 1.78 (70") | 0.872 | 1.550 | _ | _ | _ | 1.13 | | | |
| 2.03 (80") | 0.996 | 1.771 | _ | _ | _ | 1.30 | | | |
| 2.29 (90") | 1.121 | 1.992 | _ | _ | _ | 1.47 | | | |
| 2.54 (100") | 1.245 | 2.214 | _ | _ | _ | 1.64 | | | |
| 3.05 (120") | 1.494 | 2.657 | 1.05 | 0.05 | 0.18 - 0.53 | 1.99 | | | |
| 3.81 (150") | 1.868 | 3.321 | 1.31 | 0.30 0.26 - 0.70 | | 2.50 | | | |
| 5.08 (200") | 2.491 | 4.428 | 1.73 | 0.73 | 0.39 - 0.97 | 3.36 | | | |
| 6.35 (250") | 3.113 | 5.535 | 2.16 | 1.16 | 0.51 - 1.24 | 4.22 | | | |
| 7.62 (300") | 3.736 | 6.641 | 2.59 | 1.59 | 0.64 - 1.52 | 5.08 | | | |
| 8.89 (350") | 4.358 | 7.748 | 3.02 | 2.02 | 0.77 - 1.79 | 5.93 | | | |
| 10.16 (400") | 4.981 | 8.855 | 3.45 | 2.44 | 0.90 - 2.07 | 6.79 | | | |
| 12.70 (500") | 6.226 | 11.069 | 4.30 | 3.30 | 1.15 - 2.62 | 8.51 | | | |
| 15.24 (600") | 7.472 | 13.283 | 5.16 | 4.16 | 1.41 - 3.17 | 10.22 | | | |
| 17.78 (700") | | | _ | _ | _ | 11.94 | | | |
| 20.32 (800") | 20.32 (800") 9.962 17.710 | | | _ | _ | 13.66 | | | |
| 22.86 (900") | 22.86 (900") 11.207 19.924 | | _ | _ | _ | 15.37 | | | |
| 25.40 (1000") | ` ' | | | _ | _ | 17.09 | | | |

^{*1} The throw ratio is based on the value during projection with the projected image size of 3.81 m (150").
*2 When the Fixed-focus Lens (Model No.: ET-D75LE90) is attached, the projection relation between the screen and the projector differs from that of other lenses. Refer to "For the Fixed-focus Lens (Model No.: ET-D75LE90)" (→ page 36) for details.

Formula for calculating the projection distance per projection lens

To use a projected image size not listed in this manual, check the projected image size SD (m) and use the respective formula to calculate projection distance.

The unit of all the formulae is m. (Values obtained by the following calculation formulae contain a slight error.) When calculating a projection distance using image size designation (value in inches), multiply the value in inches by 0.0254 and substitute it into SD in the formula for calculating the projection distance.

For PT-RZ12K

■ Zoom Lens

| Ducination Iona Madal No. | del Ne Througastic As | | Projection dista | ince (L) formula |
|---------------------------|-----------------------|--------------|------------------------|-------------------------|
| Projection lens Model No. | Throw ratio | Aspect ratio | Min. (LW) | Max. (LT) |
| | 0.9 - 1.1:1 | 16:10 | = 0.8150 x SD - 0.0566 | = 0.9764 x SD - 0.0736 |
| ET-D75LE6 | 0.9 - 1.1:1 | 16:9 | = 0.8858 x SD - 0.0566 | = 1.0630 x SD - 0.0736 |
| | 1.1 - 1.3:1 | 4:3 | = 0.7913 x SD - 0.0566 | = 0.9488 x SD - 0.0736 |
| | 1.3 - 1.7:1 | 16:10 | = 1.1186 x SD - 0.0857 | = 1.4458 x SD - 0.1085 |
| ET-D75LE10 | 1.3 - 1.7:1 | 16:9 | = 1.1497 x SD - 0.0857 | = 1.4860 x SD - 0.1085 |
| | 1.6 - 2.0:1 | 4:3 | = 1.2663 x SD - 0.0857 | = 1.6367 x SD - 0.1085 |
| | 1.7 - 2.4:1 | 16:10 | = 1.4312 x SD - 0.0832 | = 2.0795 x SD - 0.1162 |
| ET-D75LE20 | 1.7 - 2.4:1 | 16:9 | = 1.4709 x SD - 0.0832 | = 2.1373 x SD - 0.1162 |
| | 2.0 - 2.9:1 | 4:3 | = 1.6202 x SD - 0.0832 | = 2.3542 x SD - 0.1162 |
| | 2.4 - 4.7:1 | 16:10 | = 2.0647 x SD - 0.1131 | = 4.0041 x SD - 0.1765 |
| ET-D75LE30 | 2.4 - 4.7:1 | 16:9 | = 2.1221 x SD - 0.1131 | = 4.1155 x SD - 0.1765 |
| | 2.9 - 5.6:1 | 4:3 | = 2.3374 x SD - 0.1131 | = 4.5330 x SD - 0.1765 |
| | 4.6 - 7.4:1 | 16:10 | = 3.9532 x SD - 0.1577 | = 6.3027 x SD - 0.1615 |
| ET-D75LE40 | 4.6 - 7.4:1 | 16:9 | = 4.0631 x SD - 0.1577 | = 6.4779 x SD - 0.1615 |
| | 5.5 - 8.9:1 | 4:3 | = 4.4754 x SD - 0.1577 | = 7.1351 x SD - 0.1615 |
| | 7.3 - 13.8:1 | 16:10 | = 6.4567 x SD - 0.3862 | = 12.0945 x SD - 0.3598 |
| ET-D75LE8 | 7.3 - 13.8:1 | 16:9 | = 7.0315 x SD - 0.3862 | = 13.1732 x SD - 0.3598 |
| | 8.8 - 16.5:1 | 4:3 | = 6.2795 x SD - 0.3862 | = 11.7677 x SD - 0.3598 |

■ Fixed-focus Lens

| Projection lens Model No. | Throw ratio | Aspect ratio | Projection distance | Formula for distance between projector and screen (A1) | | |
|---------------------------|-------------|--------------|----------------------|--|----------------------|--|
| | | | (L1) formula | Min. | Max. | |
| | 0.36:1 | 16:10 | = 0.303 x SD + 0.020 | = 0.229 x SH - 0.128 | = 0.283 x SH - 0.128 | |
| ET-D75LE90 | 0.36:1 | 16:9 | = 0.312 x SD + 0.020 | = 0.254 x SH - 0.128 | = 0.370 x SH - 0.128 | |
| | 0.44:1 | 4:3 | = 0.343 x SD + 0.020 | = 0.229 x SH - 0.128 | = 0.283 x SH - 0.128 | |

| Projection lens Model No. | Throw ratio | io Aspect ratio Projection distance (L) formula | |
|---------------------------|-------------|---|------------------------|
| | 0.7:1 | 16:10 | = 0.6072 x SD - 0.0713 |
| ET-D75LE50 | 0.7:1 | 16:9 | = 0.6240 x SD - 0.0713 |
| | 0.8:1 | 4:3 | = 0.6873 x SD - 0.0713 |

For PT-RS11K

■ Zoom Lens

| Ducination Inna Madel No. | Throw ratio | A - m - of motio | Projection dista | nnce (L) formula |
|---------------------------|--------------|------------------|------------------------|-------------------------|
| Projection lens Model No. | inrow ratio | Aspect ratio | Min. (LW) | Max. (LT) |
| ET-D75LE6 | 1.0 - 1.2:1 | 4:3 | = 0.8150 x SD - 0.0566 | = 0.9764 x SD - 0.0736 |
| E1-D75LE6 | 1.0 - 1.2:1 | 16:9 | = 0.8976 x SD - 0.0566 | = 1.0748 x SD - 0.0736 |
| ET-D75LE10 | 1.4 - 1.8:1 | 4:3 | =1.1425 x SD - 0.0857 | = 1.4767 x SD - 0.1085 |
| ET-D/SLETO | 1.4 - 1.8:1 | 16:9 | = 1.2446 x SD - 0.0857 | = 1.6086 x SD - 0.1085 |
| ET-D75LE20 | 1.8 - 2.6:1 | 4:3 | = 1.4618 x SD - 0.0832 | = 2.1241 x SD - 0.1162 |
| E1-D/5LE20 | 1.8 - 2.6:1 | 16:9 | = 1.5924 x SD - 0.0832 | = 2.3137 x SD - 0.1162 |
| ET-D75LE30 | 2.6 - 5.1:1 | 4:3 | = 2.1089 x SD - 0.1131 | = 4.0899 x SD - 0.1765 |
| E1-D/5LE30 | 2.6 - 5.1:1 | 16:9 | = 2.2972 x SD - 0.1131 | = 4.4552 x SD - 0.1765 |
| ET-D75LE40 | 5.0 - 8.0:1 | 4:3 | = 4.0379 x SD - 0.1577 | = 6.4377 x SD - 0.1615 |
| E1-D/5LE40 | 5.0 - 8.0:1 | 16:9 | = 4.3985 x SD - 0.1577 | = 7.0126 x SD - 0.1615 |
| ET-D75LE8 | 7.9 - 15.0:1 | 4:3 | = 6.4567 x SD - 0.3862 | = 12.0945 x SD - 0.3598 |
| E1-D/SLE0 | 8.0 - 15.0:1 | 16:9 | = 7.1102 x SD - 0.3862 | = 13.3189 x SD - 0.3598 |

■ Fixed-focus Lens

| Projection lens Model No. | Throw ratio | Aspect ratio | Projection distance | | between projector and n (A1) |
|---------------------------|-------------|--------------|----------------------|----------------------|------------------------------|
| • | | | (L1) formula | Min. | Max. |
| ET D751 500 | 0.39:1 | 4:3 | = 0.310 x SD + 0.020 | = 0.206 x S | SH - 0.128 |
| ET-D75LE90 | 0.39:1 | 16:9 | = 0.337 x SD + 0.020 | = 0.275 x SH - 0.128 | = 0.441 x SH - 0.128 |

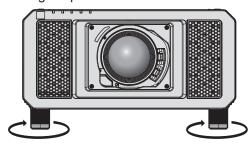
| Projection lens Model No. | Throw ratio | Aspect ratio | Projection distance (L) formula |
|---------------------------|-------------|--------------|---------------------------------|
| ET D751 E50 | 0.8:1 | 4:3 | = 0.6202 x SD - 0.0713 |
| ET-D75LE50 | 0.8:1 | 16:9 | = 0.6755 x SD - 0.0713 |

Adjusting adjustable feet

Install the projector on a flat surface so that the front of the projector is parallel to the screen surface and the projection screen is rectangular.

If the screen is tilted downward, the projection screen can be adjusted to be rectangular by adjusting the front adjustable feet. The adjustable feet can also be used to adjust the projector to be level when it is tilted in the horizontal direction.

Adjustable feet can be extended by turning them as shown in the figure. Turning them in the opposite direction will return them to the original position.



Adjustable range

Adjustable feet: Approx. 12 mm (15/32") each

Attention

Be careful not to block the intake/exhaust ports with your hands or any objects when adjusting the adjustable feet while the light source is
on. (*page 28)

Attaching/removing the projection lens (optional)

Move the lens position to the home position before replacing or removing the projection lens. (→ page 66)

Attention

- Replace the projection lens after turning off the power of the projector.
- Do not touch the electric contacts of the projection lens. Dust or dirt may cause poor contact.
- Do not touch the surface of the projection lens with your bare hands.
- Before attaching the projection lens, remove the lens cover attached to the projection lens.

Note

 The precautions for handling the lens are different for the Fixed-focus Lens (Model No.: ET-D75LE90). For details, refer to the Operating Instructions of ET-D75LE90.

Attaching the projection lens

Attach the projection lens using the following procedure.

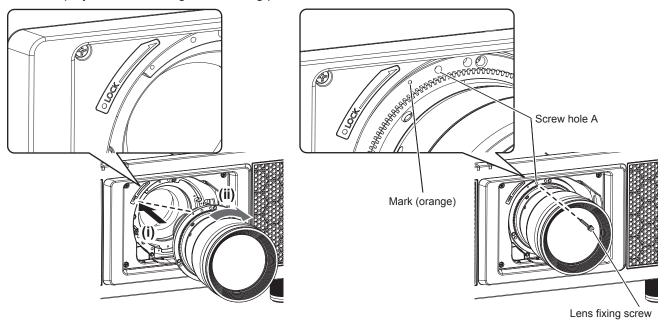


Fig. 1 Fig. 2

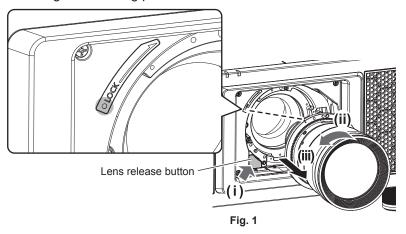
- 1) Insert the projection lens by aligning the mark on the projection lens (orange) with the mark on the projector (○ to the left of LOCK) and turn clockwise until it clicks. (Fig. 1)
- 2) Secure the projection lens with the supplied lens fixing screw. (Fig. 2)
 - Use a Phillips screwdriver to secure it in screw hole A located to the right of mark on the projection lens (orange).
 - Some lenses may not have a screw hole A for securing the projection lens.

Attention

• Turn the projection lens counterclockwise to confirm that it does not come out.

Removing the projection lens

Remove the projection lens using the following procedure.



- 1) Remove the lens fixing screw.
 - Use a Phillips screwdriver to remove the first screw to the right of the mark on the projection lens (orange).
- 2) Remove the projection lens by turning it counterclockwise while pressing the lens release button. (Fig. 1)
 - Turn the projection lens counterclockwise until the mark on the projection lens (orange) is aligned with the mark on the projector (○ to the left of LOCK).

Note

• Some lenses may not have a screw hole to use to secure the projection lens.

Attention

- Store the removed projection lens where it will be free from vibration and impact.
- Store the removed lens fixing screw in a safe place.

Connecting

Before connecting

- Before connecting, carefully read the operating instructions for the external device to be connected.
- Turn off the power of all devices before connecting cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
 - When connecting a cable to a device connected to the projector or the projector itself, touch any nearby metallic objects to eliminate static electricity from your body before performing work.
 - Do not use unnecessarily long cables to connect a device to the projector or to the projector body. The longer the cable, the more susceptible to noise it becomes. Since using a cable while it is wound makes it act like an antenna, it is more susceptible to noise.
 - When connecting cables, connect GND first, then insert the connecting terminal of the connecting device in a straight manner.
- Acquire any connection cable necessary to connect the external device to the system that is neither supplied with the device nor available as an option.
- If video signals from video equipment contain too much jitter, the images on the screen may wobble. In this case, a time base corrector (TBC) must be connected.
- The projector accepts video signals, Y/C signals, YC_BC_R/YP_BP_R signals, analog RGB signals (synchronization signals are TTL level), and digital signals.
- Some computer models are not compatible with the projector.
- Use a cable compensator when you connect devices to the projector using long cables. Otherwise the image may not display properly.
- Refer to "List of compatible signals" (→ page 206) for the types of video signals that can be used with the projector.

<RGB 2 IN> terminal pin assignments and signal names

| Outside view | Pin No. | Signal name | Pin No. | Signal name |
|----------------------------------|---------|------------------|---------|-------------|
| | (1) | R/P _R | (9) | _ |
| (11) → (15) | (2) | G/Y | (10) | GND |
| | (3) | B/P _B | (11) | GND |
| (0) (0000) | (4) | _ | (12) | DDC data |
| (6) // 0 0 0 0 \ (10) | (5) | GND | (13) | SYNC/HD |
| | (6) | GND | (14) | VD |
| (1) → (5) | (7) | GND | (15) | DDC clock |
| | (8) | GND | | |

<HDMI IN> terminal pin assignments and signal names

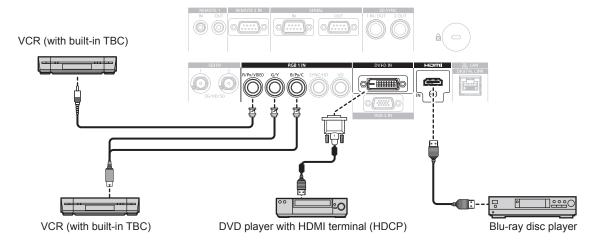
| Outside view | Pin No. | Pin No. Signal name | | Signal name |
|-------------------------------------|---------|-----------------------|------|----------------------|
| | (1) | T.M.D.S data 2+ | (11) | T.M.D.S clock shield |
| From more board size of (0) to (40) | (2) | T.M.D.S data 2 shield | (12) | T.M.D.S clock- |
| Even-numbered pins of (2) to (18) | (3) | T.M.D.S data 2- | (13) | CEC |
| (2) → (18) | (4) | T.M.D.S data 1+ | (14) | _ |
| | (5) | T.M.D.S data 1 shield | (15) | SCL |
| | (6) | T.M.D.S data 1- | (16) | SDA |
| (1) → (19) | (7) | T.M.D.S data 0+ | (17) | DDC/CEC GND |
| Odd-numbered pins of (1) to (19) | (8) | T.M.D.S data 0 shield | (18) | +5 V |
| Odd-Humbered pins of (1) to (19) | (9) | T.M.D.S data 0- | (19) | Hot plug detection |
| | (10) | T.M.D.S clock+ | | |

<DVI-D IN> terminal pin assignments and signal names

| Outside view | Pin No. Signal name | | Pin No. | Signal name |
|--------------|---------------------|-------------------------|---------|-------------------------|
| | (1) | T.M.D.S data 2- | (13) | _ |
| (04) (47) | (2) | T.M.D.S data 2+ | (14) | +5 V |
| | (3) | T.M.D.S data 2/4 shield | (15) | GND |
| | (4) | _ | (16) | Hot plug detection |
| (24) 		 (17) | (5) | _ | (17) | T.M.D.S data 0- |
| (16) (9) | (6) | DDC clock | (18) | T.M.D.S data 0+ |
| | (7) | DDC data | (19) | T.M.D.S data 0/5 shield |
| (8) | (8) | _ | (20) | _ |
| (8) ← (1) | (9) | T.M.D.S data 1- | (21) | _ |
| | (10) | T.M.D.S data 1+ | (22) | T.M.D.S clock shield |
| | (11) | T.M.D.S data 1/3 shield | (23) | T.M.D.S clock+ |
| | (12) | _ | (24) | T.M.D.S clock- |

Connecting example: AV equipment

For <HDMI IN>/<DVI-D IN>/<RGB 1 IN> terminals

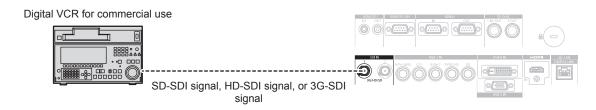


Attention

- Always use one of the following when connecting a VCR.
 - A VCR with built-in time base corrector (TBC)
 - A time base corrector (TBC) between the projector and the VCR
- If nonstandard burst signals are connected, the image may be distorted. In such a case, connect the time base corrector (TBC) between the projector and the external devices.

- When entering DVI-D, it may be necessary to switch the setting using the [DISPLAY OPTION] menu → [DVI-D IN] → [EDID SELECT] depending on the external device to be connected.
- The <DVI-D IN> terminal can be connected to HDMI- or DVI-D-compliant devices. However, images may not appear or may not be displayed properly on some devices.
- For the HDMI cable, use an HDMI High Speed cable that conforms to the HDMI standards. If a cable that does not conform to the HDMI standards is used, images may be interrupted or may not be displayed.
- The <HDMI IN> terminal of the projector can be connected to an external device equipped with a DVI-D terminal using an HDMI/DVI conversion cable. However, this may not function properly for some external devices, and images may not be displayed.
- The projector does not support VIERA Link (HDMI).
- When the video signal and the Y/C signal are input, switch the setting using the [DISPLAY OPTION] menu → [RGB IN] → [RGB1 INPUT SETTING] (→ page 112).

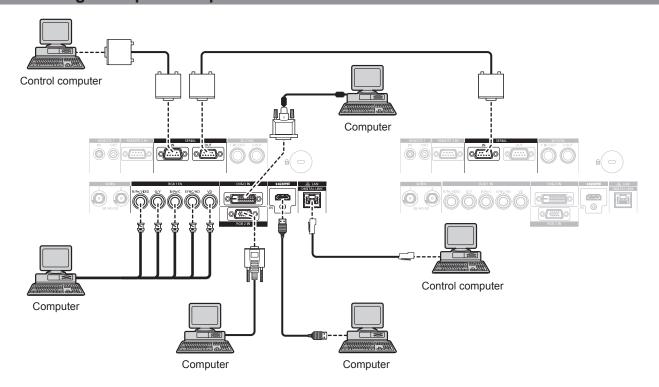
For <SDI IN 1>/<SDI IN 2> terminals



Note

- Use the [PICTURE] menu → [SYSTEM SELECTOR] to switch the input format.
- Some external devices to be connected require the [DISPLAY OPTION] menu → [SDI IN] to be set.
- Use a 5CFB or higher (such as 5CFB, or 7CFB) or a Belden 1694A or higher connection cable to properly transmit images. Use a
 connection cable of 100 m (328'1") length or less.
- To input the dual link signals, setting [SDI LINK] in [SDI IN] is required.
- To input the dual link signals, the cables to connect to the <SDI IN 1>/<SDI IN 2> terminals should be the same length and the same type. The image may not be displayed correctly when the difference of the cable length is 4 m (13'1") or more.
- Directly connect the projector with the external device that will output the signal without going through a distributor, etc., when inputting
 dual link signals. A phase difference is generated between the LINK-A signal and the LINK-B signal, and the image may not be displayed
 correctly.
- When an unsteady signal is connected, an error in signal detection may occur. In such a case, use the [PICTURE] menu → [SYSTEM SELECTOR] to switch to a system that matches the signal format.

Connecting example: Computers



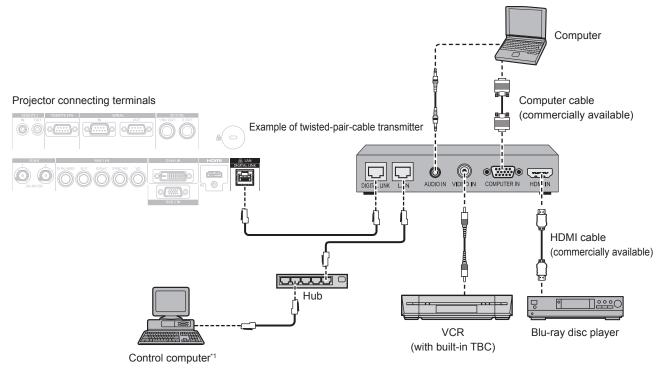
Attention

When connecting the projector to a computer or an external device, use the power cord supplied with each device and commercially
available shielded cables.

- When entering DVI-D, it may be necessary to switch the setting using the [DISPLAY OPTION] menu → [DVI-D IN] → [EDID SELECT] depending on the external device to be connected.
- For the HDMI cable, use an HDMI High Speed cable that conforms to the HDMI standards. If a cable that does not conform to the HDMI standards is used, images may be interrupted or may not be displayed.
- The <HDMI IN> terminal of the projector can be connected to an external device equipped with a DVI-D terminal using an HDMI/DVI
 conversion cable. However, this may not function properly for some external devices, and images may not be displayed.
- The <DVI-D IN> terminal supports single links only.
- When entering the SYNC ON GREEN signal, do not enter sync signals to the <SYNC/HD> terminal or the <VD> terminal.
- If you operate the projector using the computer with the resume feature (last memory), you may have to reset the resume feature to operate
 the projector.

Connecting example using DIGITAL LINK

Twisted-pair-cable transmitter based on the communication standard HDBaseT™ such as the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) uses the twisted pair cable to transmit input images, Ethernet, and serial control signal, and the projector can input such digital signal to the <DIGITAL LINK/LAN> terminal.



1 Control target is the projector or the twisted-pair-cable transmitter. The control itself may not be possible depending on the twisted-pair-cable transmitter. Check the operating instructions of the device to be connected.

Attention

- Always use one of the following when connecting a VCR.
 - Use a VCR with built-in time base corrector (TBC).
- Use a time base corrector (TBC) between the projector and the VCR.
- If nonstandard burst signals are connected, the image may be disrupted. In such a case, connect the time base corrector (TBC) between the projector and the external devices.
- Ask a qualified technician or your dealer to install the cable wiring between the twisted-pair-cable transmitter and the projector. Image may
 be disrupted if cable transmission characteristics cannot be obtained due to inadequate installation.
- For the LAN cable between the twisted-pair-cable transmitter and the projector, use a cable that meets the following criteria:
 - Conforming to CAT5e or higher standards
 - Shielded type (including connectors)
 - Straight-through
 - Single wire
- When laying cables between the twisted-pair-cable transmitter and the projector, confirm that cable characteristics are compatible with CAT5e or higher using tools such as a cable tester or cable analyzer.
- When a relay connector is used, include it in the measurement.

 Do not use a hub between the twisted-pair-cable transmitter and the projector.
- When connecting to the projector using a twisted-pair-cable transmitter (receiver) of other manufacturers, do not place another twisted-pair-cable transmitter between the twisted-pair-cable transmitter of other manufacturers and the projector. This may cause image to be disrupted.
- Do not pull cables forcefully. Also, do not bend or fold cables unnecessarily.
- To reduce the effects of noise as much as possible, stretch out the cables between the twisted-pair-cable transmitter and the projector without any loops.
- Lay the cables between the twisted-pair-cable transmitter and the projector away from other cables, particularly power cables.
- When laying multiple cables, run them side by side along the shortest distance possible without bundling them together.
- After laying the cables, go to the [NETWORK] menu → [DIGITAL LINK STATUS] and confirm that the value of [SIGNAL QUALITY] is displayed in green which indicates normal quality. (→ page 157)

- For the HDMI cable, use an HDMI High Speed cable that conforms to the HDMI standards. If a cable that does not conform to the HDMI standards is used, images may be interrupted or may not be displayed.
- The projector does not support VIERA Link (HDMI).
- The maximum transmission distance between the twisted-pair-cable transmitter and the projector is 100 m (328'1"). It is possible to transmit up to 150 m (492'2") if the twisted-pair-cable transmitter supports the long-reach communication method. If this distance is exceeded, image may be disrupted or a malfunction may occur in LAN communication. Please note that Panasonic does not support the use of the projector outside the maximum transmission distance. When connecting with the long reach, there may be a limitation to the video signal or distance which can be transmitted, depending on the specification of the twisted-pair-cable transmitter.

Chapter 2 Getting Started — Connecting

• For twisted-pair-cable transmitters of other manufacturers of which the operation has been verified with the projector, visit the Panasonic website (http://panasonic.net/avc/projector/). Note that the verification for devices of other manufacturers has been made for the items set by Panasonic Corporation, and not all the operations have been verified. For operation or performance problems caused by the devices of other manufacturers, contact the respective manufacturers.

Chapter 3 Basic Operations

This chapter describes basic operations to start with.

Switching on/off the projector

Connecting the power cord

Make sure that the supplied power cord is securely fixed to the projector body to prevent it from being removed easily.

Confirm that the <MAIN POWER> switch is on the <OFF> side before connecting the power cord.

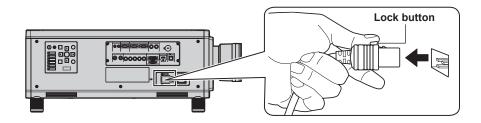
Use the power cord matching with the power supply voltage and the shape of the outlet.

For details of power cord handling, refer to "Read this first!" (⇒ page 5).

How to attach the power cord

 Check the shapes of the <AC IN> terminal on the side of the projector and the power cord connector, then insert the connector completely in the correct direction.

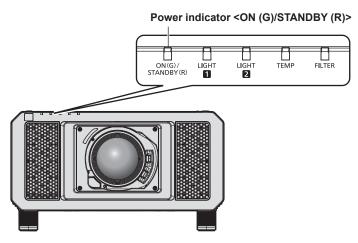
How to remove the power cord



- 1) Confirm that the <MAIN POWER> switch on the side of the projector is on the <OFF> side, and remove the power plug from the outlet.
- 2) Remove the power cord connector from the <AC IN> terminal of the projector while pressing the lock button.

Power indicator

Indicate the status of the power. Check the status of the power indicator <ON (G)/STANDBY (R)> before operating the projector.



| Indicator status | | Projector status |
|------------------|-----|---|
| Off | | The main power is switched off. |
| Red | Lit | The power is switched off. (standby mode) Projection will start when the power on < > button is pressed. • The projector may not operate when the light source indicators <light1>/<light2> or the temperature indicator <temp> are blinking. (→ page 182)</temp></light2></light1> |
| Green | Lit | Projecting. |
| Orange | Lit | The projector is preparing to switch off the projector. The power is switched off after a while. (Changes to the standby mode.) |

Note

- While the power indicator <ON (G)/STANDBY (R)> lights in orange, the fan is running to cool the projector.
- For approximately 15 seconds after the projector is switched off, the indicator does not light up even if the power is switched on. Turn on the power again after the power indicator <ON (G)/STANDBY (R)> lights in red.
- The projector consumes power even in standby mode (power indicator <ON (G)/STANDBY (R)> lit in red). Refer to "Power consumption"
 (⇒ page 212) for the power consumption.
- When the projector receives the signal from the remote control, the power indicator <ON (G)/STANDBY (R)> will blink in the following color according to the status of the projector.
 - When the projector is in projection mode: Green
 - When the projector is in standby mode: Orange

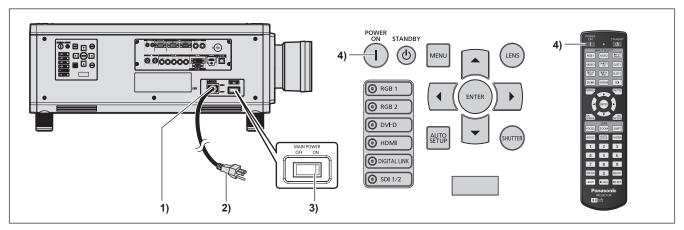
However, if the [PROJECTOR SETUP] menu \rightarrow [STANDBY MODE] is set to [ECO], the indicator will stay lit in red and will not blink if the projector is in standby mode.

- The power indicator <ON (G)/STANDBY (R)> will blink slowly in green while the shutter function is in use (shutter: closed), or while the
 function of the [PROJECTOR SETUP] menu → [NO SIGNAL LIGHTS-OUT] (→ page 134) is operating and the light source is turned off.
- If the power indicator <ON (G)/STANDBY (R)> is blinking in red, consult your dealer.

Switching on the projector

Install the projection lens before switching on the projector.

Remove the lens cover first.



- 1) Connect the power cord to the projector.
- Connect the power plug to an outlet.
- 3) Press the <ON> side of the <MAIN POWER> switch to turn on the power.
 - The power indicator <ON (G)/STANDBY (R)> lights in red, and the projector enters the standby mode.
- 4) Press the power on <|> button.
 - The power indicator <ON (G)/STANDBY (R)> lights in green and the image is soon projected on the screen.

Attention

Always remove the lens cover before starting the projection. Projecting continuously while the lens cover is attached may cause the lens
cover to heat up and result in a fire.

- A warm-up period of up to approximately five minutes may be necessary until an image is displayed when the projector is switched on at around 0 °C (32 °F).
 - The temperature indicator <TEMP> lights during the warm-up period. When the warm-up is completed, the temperature indicator <TEMP> turns off and the projection starts. Refer to "When an indicator lights up" (→ page 182) for the indicator status display.
- If the operating environment temperature is low and warm-up takes more than five minutes, the projector will judge that a problem has
 occurred and the power will automatically be set to standby mode. In such case, increase the operating environment temperature to 0 °C
 (32 °F) or higher, turn off the main power, and then turn on the power again.
- It may take longer to start the projection after the power is turned on when the [PROJECTOR SETUP] menu → [STANDBY MODE] is set to
 [ECO], compared to when it is set to [NORMAL].
- When the [PROJECTOR SETUP] menu → [INITIAL STARTUP] is set to [LAST MEMORY], and the power was turned off at the previous use by pressing the <OFF> side of the <MAIN POWER> switch while projecting or with the power breaker, the power indicator <ON (G)/ STANDBY (R)> will light up in green and the image is projected after a while when the power is turned on by pressing <ON> side of the <MAIN POWER> switch while the power plug is plugged into the outlet, or when the power breaker is turned on.

When the initial setting screen is displayed

When the projector is switched on for the first time after purchase, as well as when [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu \rightarrow [INITIALIZE], the focus adjustment screen is displayed after projection starts, then the **[INITIAL SETTING]** screen is displayed. Set them according to the circumstances.

In other occasions, you can change the settings by menu operations.

If you press the <MENU> button while the **[INITIAL SETTING]** screen is displayed, you can go back to the previous screen.

Focus adjustment

Adjust the focus to display the menu screen clearly.

You may also need to adjust the zoom and shift.

Refer to "How to adjust focus, zoom, and shift" (▶ page 64) for details.

1) Press ▲▼◀▶ to adjust the focus.



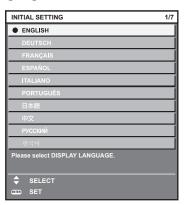
2) Press the <MENU> button to proceed to the initial setting.

Initial setting (display language)

Select the language to show on the screen.

After completed the initial setting, you can change the display language from the [DISPLAY LANGUAGE] menu.

1) Press ▲▼ to select the display language.

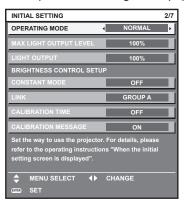


2) Press the <ENTER> button to proceed to the initial setting.

Initial setting (operation setting)

Set the items for the operating method depending on the projector's application and duration of usage. After completed the initial setting, you can change the settings of each item from the [PROJECTOR SETUP] menu. If you change the settings while using the projector, the duration until the luminance of light source decreases by half may shorten or the luminance may decrease.

By using this initial setting (operation setting), you can complete the settings at once when installing the projector, if the operation method of the projector is determined in advance. If [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu \rightarrow [INITIALIZE], do not change the initial setting (operation setting) and proceed to next initial setting (installation setting) by pressing the <ENTER> button. If you need to change the setting, ask the person responsible for this projector (such as a person in charge of equipment or operation).



Note

- The preceding initial setting screen is displayed when the projector is switched on for the first time after purchase. If [ALL USER DATA] is
 executed from the [PROJECTOR SETUP] → [INITIALIZE], the settings before execution are displayed in [OPERATING MODE] and [MAX
 LIGHT OUTPUT LEVEL].
- For the relationship between the luminance and the runtime, refer to "Interrelation of luminance and runtime" (→ page 59).
- For details on each setting item, refer to the [PROJECTOR SETUP] menu → [OPERATION SETTING].
- Press ▲▼ to select [OPERATING MODE].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.
 - Set [OPERATING MODE] to anything other than [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3] when using the projector at an altitude of 2 700 m (8 858') or higher above sea level.

| [NORMAL]*1 | Set this item when high luminance is required. The estimated runtime is approximately 20 000 hours. |
|----------------|---|
| [ECO]*1 | Set this item to increase the life of the light source though it will lower the luminance than [NORMAL]. The estimated runtime is approximately 24 000 hours. |
| [LONG LIFE1]*1 | Set this item to increase the life of the light source though it will lower the luminance than [ECO]. The estimated runtime is approximately 43 000 hours. |
| [LONG LIFE2]*1 | Set this item to increase the life of the light source though it will lower the luminance than [LONG LIFE1]. The estimated runtime is approximately 61 000 hours. |
| [LONG LIFE3]*1 | Set this item to increase the life of the light source though it will lower the luminance than [LONG LIFE2]. The estimated runtime is approximately 87 000 hours. |
| [USER1] | |
| [USER2] | Set [MAX LIGHT OUTPUT LEVEL] and [LIGHT OUTPUT] individually. |
| [USER3] | |

- *1 The runtime is estimated when the [PICTURE] menu \rightarrow [DYNAMIC CONTRAST] is set to [3].
- When [NORMAL], [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3] is selected, proceed to Step 5).
- 3) Press ▲▼ to select [MAX LIGHT OUTPUT LEVEL].
- 4) Press **♦** to adjust.

| Operation | Adjustment | Range of adjustment | |
|------------------|---|---------------------|--|
| Press ▶. | Increases the maximum level of brightness correction. | 0.0.0/ | |
| Press ◀ . | Decreases the maximum level of brightness correction. | 8.0 % - 100.0 % | |

Press ▲▼ to select [LIGHT OUTPUT].

6) Press **♦** to adjust.

| | 0 | Adjus | Danier of a director and | | |
|-----------|----------|------------------------------|------------------------------|---------------------|--|
| Operation | | Brightness | Runtime (estimate) | Range of adjustment | |
| | Press ▶. | The screen becomes brighter. | The runtime becomes shorter. | 8.0 % - 100.0 % | |
| | Press ◀. | The screen becomes darker. | The runtime becomes longer. | | |

7) Press ▲▼ to select [CONSTANT MODE].

8) Press ◆▶ to switch the item.

The items will switch each time you press the button.

| [OFF] | Does not perform the brightness control (correction by the brightness sensor). | |
|--------|--|--|
| [AUTO] | Performs the brightness control (correction by the brightness sensor). When the brightness of light source or white balance changes, the brightness of the screen is automatically corrected. | |
| [PC] | Synchronizes nine or more projectors using a computer and the dedicated software "Multi Monitoring & Control Software" *1. | |

^{*1 &}quot;Multi Monitoring & Control Software" is included in the supplied CD-ROM.

- When not performing the brightness control ([OFF] is selected), proceed to Step 15).
- When [PC] is selected, proceed to Step 11).

9) Press ▲▼ to select [LINK].

10) Press **♦** to switch the item.

• The items will switch each time you press the button.

| [OFF] | Performs correction by the brightness sensor on one projector without synchronizing with the other projectors. The duration that the constant brightness is kept will become longer by setting the value of [LIGHT OUTPUT] smaller. |
|--|---|
| [GROUP A] [GROUP B] [GROUP C] [GROUP D] | Performs correction by the brightness sensor in multiple projectors in synchronization. Up to four groups (A to D) can be set within the same subnet by using the network function. You can register and synchronize up to eight projectors in one group. |

11) Press ▲▼ to select [CALIBRATION TIME].

12) Press the number (<0> - <9>) buttons on the remote control to enter the time.

- The projector is in the adjustment mode (the time is blinking).
- Press ◀▶ to select "hour" or "minute".
- [CALIBRATION TIME] is set when the cursor is moved from [CALIBRATION TIME] using ▲▼.
- Brightness and color are measured at the specified time. The dynamic contrast function does not operate during measurement.
- When the time is not to be specified, press the <DEFAULT> button while [CALIBRATION TIME] is selected
 (the time is not blinking) using ▲▼.

13) Press ▲▼ to select [CALIBRATION MESSAGE].

14) Press **♦** to switch the item.

• The items will switch each time you press the button.

| [ON] Displays the message during calibration. | |
|--|--|
| [OFF] Does not display the message during calibration. | |

15) Press the <ENTER> button to proceed to the initial setting.

Interrelation of luminance and runtime

You can use the projector with desired brightness and duration of use by combining the settings of [MAX LIGHT OUTPUT LEVEL], [LIGHT OUTPUT], and [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP].

Interrelation of luminance and runtime is as follows. Make the initial setting (operation setting) depending on your desired duration of use and brightness of the projected image.

Values of the luminance and runtime are rough estimations.

■ To set the projector based on the duration of use

| | When [CONSTANT MODE] is set to [OFF] | | | When [CONSTANT MODE] is set to [AUTO] or [PC] | | |
|---------------------------|--------------------------------------|-----------------------|----------------|---|-----------------------|----------------|
| Duration of use (hour) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Luminance (Im) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Luminance (Im) |
| 20 000 | 100.0 | 100.0 | 12 000 | 100.0 | 58.0 | 7 000 |
| 24 000 | 100.0 | 83.0 | 10 000 | 100.0 | 54.0 | 6 500 |
| 27 000 | 100.0 | 65.0 | 7 800 | 100.0 | 51.0 | 6 100 |
| 31 000 | 100.0 | _ | _ | 100.0 | 47.0 | 5 600 |
| 35 000 | 100.0 | _ | _ | 100.0 | 44.0 | 5 300 |
| 40 000 | 100.0 | _ | _ | 100.0 | 41.0 | 4 900 |

■ To set the projector based on luminance

| | When [CONSTANT MODE] is set to [OFF] | | | When [CONSTANT MODE] is set to [AUTO] or [PC] | | |
|----------------|--------------------------------------|-----------------------|----------------|---|-----------------------|----------------|
| Luminance (Im) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Runtime (hour) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Runtime (hour) |
| 12 000 | 100.0 | 100.0 | 20 000 | _ | _ | _ |
| 11 000 | 100.0 | 92.0 | 23 000 | 100.0 | 92.0 | 1 500 |
| 10 000 | 100.0 | 83.0 | 24 000 | 100.0 | 83.0 | 4 500 |
| 9 000 | 100.0 | 75.0 | 25 500 | 100.0 | 75.0 | 8 500 |
| 8 000 | 100.0 | 67.0 | 26 500 | 100.0 | 67.0 | 14 000 |
| 7 000 | 100.0 | 58.0 | 28 000 | 100.0 | 58.0 | 20 000 |
| 6 000 | 100.0 | 50.0 | 29 500 | 100.0 | 50.0 | 28 000 |
| 5 000 | 100.0 | _ | _ | 100.0 | 42.0 | 38 500 |
| 4 000 | 100.0 | _ | _ | 100.0 | 33.0 | 52 500 |

- Under influence of characteristics of each light source, conditions of use, installation environment, etc., the runtime may be shorter than the estimation
- The duration of use is referred to as the runtime when you use the projector successively. The duration of use is an estimated duration and is not the warranty period.
- If the runtime exceeds 20 000 hours, replacement of the components inside the projector may be required. Consult your dealer for details.

Initial setting (installation setting)

Set [PROJECTION METHOD] depending on the installation mode. Refer to "Installation mode" (▶ page 34) for details.

After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu \rightarrow [PROJECTION METHOD].

1) Press **♦** to switch the setting.

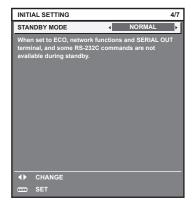


Press the <ENTER> button to proceed to the initial setting.

Initial setting (standby mode)

Set the operation mode during standby mode. The factory default setting is [NORMAL], which allows you to use the network function during standby mode. To keep power consumption low during standby mode, set this function to [ECO]. After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu \rightarrow [STANDBY MODE].

1) Press **♦** to switch the setting.



2) Press the <ENTER> button to proceed to the initial setting.

Note

• The preceding initial setting screen is displayed when the projector is switched on for the first time after purchase. When [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu → [INITIALIZE], the [STANDBY MODE] setting before execution is displayed.

Initial setting (screen setting)

Set the screen format (aspect ratio) and display position of the image. After completed the initial setting, you can change the settings of each item from the [DISPLAY OPTION] menu \rightarrow [SCREEN SETTING].

- 1) Press ▲▼ to select an item.
- 2) Press **♦** to switch the setting.

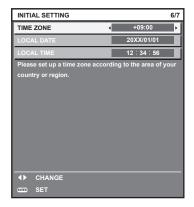


3) Press the <ENTER> button to proceed to the initial setting.

Initial setting (time zone)

Set [TIME ZONE] in accordance with the country or region where you use the projector. After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu \rightarrow [DATE AND TIME]. The current settings are displayed in [LOCAL DATE] and [LOCAL TIME].

Press ◀▶ to switch the setting.



2) Press the <ENTER> button to proceed to the initial setting.

Note

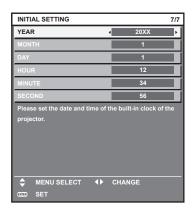
In the factory default setting, the time zone of the projector is set to +09:00 (Japan and Korean Standard Time). Change the setting in the
[PROJECTOR SETUP] menu → [DATE AND TIME] → [TIME ZONE] to the time zone of the region where you use the projector.

Initial setting (date and time)

Set the local date and time. After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu \rightarrow [DATE AND TIME].

To set the date and time automatically, refer to "Setting the date and time automatically" (→ page 136).

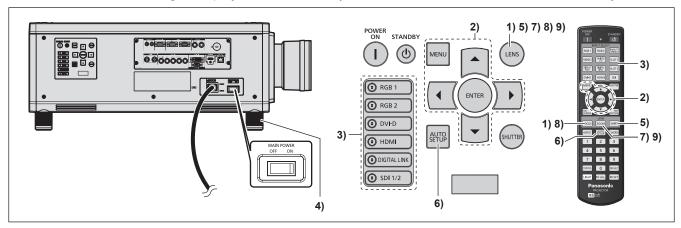
Press ▲▼ to select an item.



- 2) Press **♦** to switch the setting.
- 3) Press the <ENTER> button.
 - Confirm the setting value and complete the initial setting.

Making adjustments and selections

It is recommended that images be projected continuously for at least 30 minutes before the focus is adjusted.

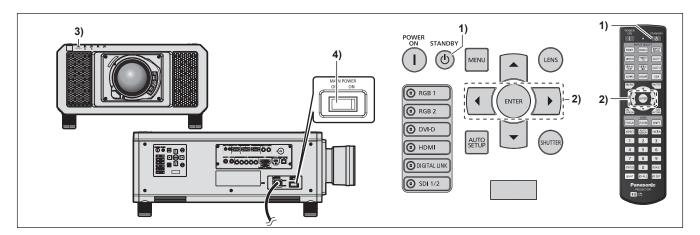


- 1) Press the <FOCUS> button to roughly adjust the focus of the image. (→ page 64)
- Change the setting of the [PROJECTOR SETUP] menu → [PROJECTION METHOD] depending on the installation mode. (→ page 34)
 - Refer to "Navigating through the menu" (→ page 76) for the operation of the menu screen.
- 3) Press the input selection button (<RGB1>, <RGB2>, <DIGITAL LINK>, <DVI-D>, <HDMI>, <SDI 1/2>, or <SDI>) to select the input signal.
- Adjust the front, back and sideway tilt of the projector with the adjustable feet. (⇒ page 45)
- 5) Press the <SHIFT> button to adjust the image position.
- 6) If the input signal is the analog RGB signal or the DVI-D/HDMI signal, press the <AUTO SETUP> button.
- 7) Press the <ZOOM> button to adjust the image size to match the screen.
- 8) Press the <FOCUS> button again to adjust the focus.
- 9) Press the <ZOOM> button again to adjust the zoom and the image size to match the screen.

Note

When the projector is switched on for the first time after purchase, as well as when [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu → [INITIALIZE], the focus adjustment screen is displayed after projection starts, then the [INITIAL SETTING] screen is displayed. Refer to "When the initial setting screen is displayed" (→ page 56) for details.

Switching off the projector



- 1) Press the power standby <∅> button.
 - The [POWER OFF(STANDBY)] confirmation screen is displayed.
- 2) Press **♦** to select [OK], and press the **<ENTER>** button.

(Or press the power standby <∅> button again.)

- Projection of the image will stop, and the power indicator <ON (G)/STANDBY (R)> on the projector body lights in orange. (The fan keeps running.)
- 3) Wait for a few seconds until the power indicator <ON (G)/STANDBY (R)> of the projector body lights up in red (fan is stopped).
- 4) Press the <OFF> side of the <MAIN POWER> switch to turn off the power.

Attention

When switching off the projector, make sure to follow the procedures described. Failure to do so may damage the internal components and
result in malfunctions.

Note

- · For approximately 15 seconds after the projector is switched off, the indicator does not light up even if the power is switched on.
- Even when the power standby <>> button is pressed and the projector is switched off, the projector consumes power if the main power of the projector is on.

When the [PROJECTOR SETUP] menu \rightarrow [STANDBY MODE] is set to [ECO], use of some functions is restricted, but the power consumption during standby can be conserved.

Projecting

Check the projection lens attachment (→ page 46), external device connection (→ page 48), power cord connection (→ page 54), switch on the power (→ page 55) to start projecting. Select the video for projection, and adjust appearance of the projected image.

Selecting the input signal

Select an input signal.

- Press the input selection button (<RGB1>, <RGB2>, <DIGITAL LINK>, <DVI-D>, <HDMI>, <SDI 1/2>, or <SDI>) on the remote control or the control panel.
 - The image of the signal being input in the selected terminal is projected.

Attention

- Images may not be projected properly depending on the external device, or the blu-ray disc or DVD disc, to be played back.
 Set the [PICTURE] menu → [SYSTEM SELECTOR].
- Confirm the aspect ratio of the projection screen and the image, and switch to an optimum aspect ratio from the [POSITION] menu →
 [ASPECT].

How to adjust focus, zoom, and shift

If the projected image or the position is not correct when the positioning of the projector and the screen is correctly installed, adjust the focus, zoom, and shift.

This section describes the adjustment method when anything other than the Fixed-focus Lens (Model No.: ET-D75LE90) is used. When the Fixed-focus Lens (Model No.: ET-D75LE90) is used, refer to "Adjusting the lens position and focus when the Fixed-focus Lens (Model No.: ET-D75LE90) is used" (▶ page 65).

Using the control panel

- 1) Press the <LENS> button on the control panel.
 - Pressing the button changes the adjustment screen in the order of [FOCUS], [ZOOM], and [SHIFT].
- Select each item and press ▲▼◀▶ to adjust it.

Using the remote control

- 1) Press the lens buttons (<FOCUS>, <ZOOM>, <SHIFT>) on the remote control.
 - <FOCUS> button: Adjusts focus.
 - <ZOOM> button: Adjusts zoom.
 - <SHIFT> button: Adjusts shift.
- 2) Select each item and press ▲▼◀▶ to adjust it.

CAUTION

During the lens shift operation, do not insert your hand in any opening around the lens. Your hand may be caught in between, resulting to injury.

- When the projection lens without the zoom function is attached, the zoom adjustment screen will be displayed. However, operation is not
 possible.
- When the Fixed-focus Lens (Model No.: ET-D75LE50) is used, do not use the shift adjustment, and use the projector with the lens position at the home position. (→ page 66)
- The adjustment can be performed faster by pressing and holding ▲▼◀▶ for approximately three seconds or longer while adjusting the focus and shift.
- It is recommended that images be projected continuously for at least 30 minutes before the focus is adjusted.
- Only [FOCUS] is shown in yellow so that the displayed menu item can be recognized by color, even when the projector is not focused and displayed characters are unreadable. (Factory default)
- The display color of [FOCUS] depends on the setting of the [DISPLAY OPTION] menu \rightarrow [ON-SCREEN DISPLAY] \rightarrow [OSD DESIGN].
- When the power is switched off during focus and shift adjustment, lens calibration needs to be performed the next time the power is switched on. (→ page 140)
- · When the main power is switched off during focus adjustment, lens calibration is performed automatically during the next focus adjustment.

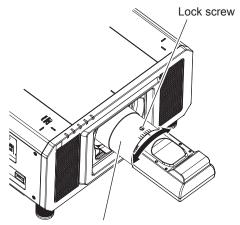
- When the main power is switched off during shift adjustment, a lens calibration error screen will be displayed during the next shift adjustment. Execute the [PROJECTOR SETUP] menu → [LENS CALIBRATION].
- When the lens calibration error is displayed even though [LENS CALIBRATION] was executed, ask your dealer to repair the unit.

Adjusting the lens position and focus when the Fixed-focus Lens (Model No.: ET-D75LE90) is used

After attaching the projection lens, adjust the lens position and the focus with the projector correctly installed against the screen.

The focus balance between the center and periphery of the projected image will differ depending on the size of the projected image when the Fixed-focus Lens (Model No.: ET-D75LE90) is attached. Adjust the focus balance of the periphery with the Fixed-focus Lens (Model No.: ET-D75LE90) as necessary.

- 1) Move the lens to the ET-D75LE90 lens standard position.
 - While the shift adjustment screen is displayed, press the <DEFAULT> button on the remote control to display the [HOME POSITION] screen. Select [D75LE90] to move the lens to the lens standard position. Refer to "Setting the lens position" (→ page 66) for details.
- 2) Adjust the focus at the center of projected image.
 - For the steps to adjust the focus, refer to "How to adjust focus, zoom, and shift" (▶ page 64).
- 3) Loosen the lock screw and turn the periphery focus adjustment ring by hand to adjust the focus in the periphery of the screen.



Periphery focus adjustment ring

- 4) Check the focus at the center of the image again and make fine adjustments.
- 5) Tighten the lock screw.
 - Periphery focus adjustment ring is fixed.

Note

• The projected image size and scale shown on the periphery focus adjustment ring are an approximate guide.

Setting the lens position

To move the lens position to the home position or the lens standard position, perform the following procedure.

- 1) Press the <DEFAULT> button on the remote control while the shift adjustment screen is displayed.
 - The [HOME POSITION] screen is displayed.



2) Press **♦** to switch the item.

• The items will switch each time you press the button.

| [NORMAL] | Moves the lens to the home position. Select this item when replacing or removing the projection lens. Select this item when the Fixed-focus Lens (Model No.: ET-D75LE50) is used for projection. |
|-----------|--|
| [D75LE90] | Moves the lens to the ET-D75LE90 lens standard position. Select this item when the Fixed-focus Lens (Model No.: ET-D75LE90) is used for projection. |

Press the <ENTER> button.

• [PROGRESS] is displayed in the **[HOME POSITION]** screen, and the lens position returns to the home position or the lens standard position.

Note

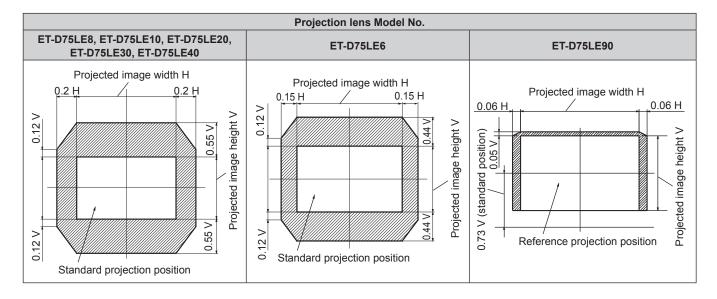
- Complete the operation within approximately 5 seconds after the [HOME POSITION] screen is displayed. The [HOME POSITION] screen will disappear after time limit.
- The home position of the lens is used when the lens is being replaced or when the projector is being stored, and it is not the optical center of the screen.
- You can also display the [HOME POSITION] screen by pressing the <LENS> button on the control panel or the <SHIFT> button on the
 remote control for at least three seconds.

Adjustment range by the lens position shift (optical shift)

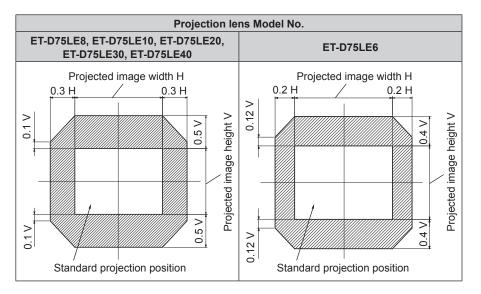
Perform the lens position shift within the adjustment range.

The focus may change when the lens position is shifted out of the adjustment range. This is because the shift of the lens is restricted to protect the optical parts. Projection position can be adjusted with the optical axis shift function based on the position of the projected image in the home position (standard projection position) or the position of the projected image in the ET-D75LE90 lens standard position (reference projection position).

■ For PT-RZ12K



■ For PT-RS11K



Note

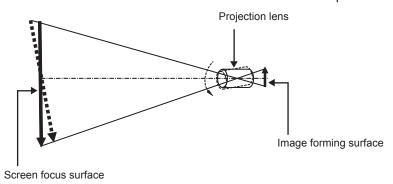
- When the optional Fixed-focus Lens (Model No.: ET-D75LE50) is attached, use it in the standard projection position without adjusting shift.
- When the optional Fixed-focus Lens (Model No.: ET-D75LE90) is attached to the PT-RS11K, use it in the reference projection position without adjusting shift.

Adjusting the lens mounter when the focus is unbalanced

Focus balance

Relationship between the tilt of the lens and the screen focus surface

When the projection lens is tilted in contrast with the image forming surface, tilting the front side (screen side) of the projection lens downwards (in the direction of the dotted arrow line), the upper side of the screen focus surface will tilt inwards and the lower side will tilt outwards as shown in the example.



How to adjust the focus balance (adjustment by tilting the lens mounter)

When the entire screen surface is not uniform even if the focus has been adjusted, the lens mounter has focus adjustment screws in three locations.

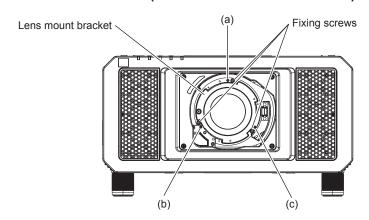
- Tool used: Hex driver or Allen wrench (diagonal 2.5 mm (3/32"))
- The Allen wrench is included with the projection lens ET-D75LE6, ET-D75LE8.

Lens mounter structure

Focus adjustment screws (a), (b), and (c) can be turned to move the lens mount bracket back and forth. Also, tightening the fixed screws locks the lens mount bracket in place so it does not move.

When a projection lens with a large weight is installed, or when the projector is installed on an inclination, the lens may tilt and the focus may become unbalanced. In these cases, perform adjustment by referring to the relationship between the adjustment location and adjustment screws.

■ Front view diagram of the lens mounter (viewed from the screen side)

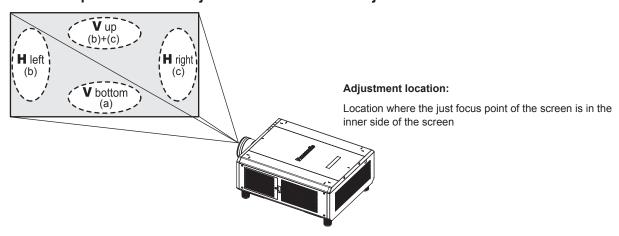


Note

Focus adjustment screws (a), (b), and (c) are adjusted with the lens attached.

Adjustment procedure

■ Relationship between the adjustment location and adjustment screws



| | When the just focus point of | When the just focus point of the | When the just focus point of | When the just focus point of the |
|-----|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| | the screen in V up (top in the | screen in V bottom (bottom in | the screen in H left (left in the | screen in H right (right in the |
| | vertical direction) is in the inner | the vertical direction) is in the | horizontal direction) is in the | horizontal direction) is in the |
| | side of the screen | inner side of the screen | inner side of the screen | inner side of the screen |
| (a) | Rotate counterclockwise | _ | _ | _ |
| (b) | _ | Rotate counterclockwise | Rotate counterclockwise | _ |
| (c) | _ | Rotate counterclockwise | _ | Rotate counterclockwise |

- 1) Press the <FOCUS> button on the remote control or the <LENS> button on the control panel to display the focus adjustment screen.
- 2) Press ▼ to shift the focus of the entire screen once.
- 3) Press ▲ to stop on any part of the screen to be the first just focus point.
 - For the location where focus is shifted in this state, the just focus point is on the inner side of the screen.
- 4) Loosen the fixed screws in the position relative to the location where the focus is shifted the most (the location where the just focus point is shifted the most towards the inner side in Step 2)) up to two rotations.
 - Turn screws clockwise in two locations, or at least in one location when making an adjustment.
- 5) Slowly turn the focus adjustment screws corresponding to the locations counterclockwise and stop where the image is in focus. (▶ page 67)
 - If the screws are turned counterclockwise, the tilt of the lens will change by moving the lens mount bracket of the lens mounter forward (screen side), and in the projected image on the screen, the focus point in the opposite direction of the adjustment screws will move from the inner side of the screen to the outside.

- 6) Press the <SHIFT> button on the remote control or the <LENS> button on the control panel to display the shift adjustment menu, and reset the screen position of the projected image on the screen surface back to an optimal state.
- 7) Perform focus adjustment again near the center of the screen and if it is still not enough, fine tune the amount of rotation of the adjustment screws.
- 8) When adjustments have been made, securely tighten the loosened fixing screws.
- 9) Adjust the focus again using the remote control.

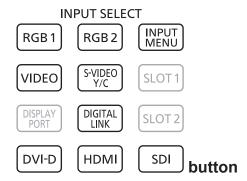
Operating with the remote control



Switching the input

The input for projection can be switched. Method to switch the input is as follows.

- Press the input selection button and directly specify the input to project.
- Display the input selection screen and select the input to project from the list.



Switching the input directly

The input for projection can be switched by directly specifying it.

- 1) Press the input selection button (<RGB1>, <RGB2>, <VIDEO>, <S-VIDEO Y/C>, <DIGITAL LINK>, <DVI-D>, <HDMI>, <SDI>).
 - This operation can be also performed using the buttons on the control panel.

| <rgb1> <video> <s-video c="" y=""></s-video></video></rgb1> | Switches the input to RGB1. |
|---|--|
| <rgb2></rgb2> | Switches the input to RGB2. |
| <digital link=""></digital> | Switches the input to DIGITAL LINK. |
| <dvi-d></dvi-d> | Switches the input to DVI-D. |
| <hdmi></hdmi> | Switches the input to HDMI. |
| <sdi></sdi> | Switches the input to SDI1 or SDI2. Switches to the other input when one input has already been selected. Also, input selection can be fixed to SDI1 or SDI2 using the [SECURITY] menu → [CONTROL DEVICE SETUP]. |

Note

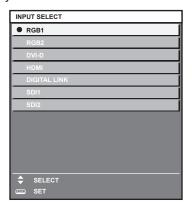
- When the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the <DIGITAL LINK/ LAN> terminal, the input on the DIGITAL LINK output supported device changes each time the <DIGITAL LINK> button is pressed. The input can also be changed using the RS-232C control command.
 - For twisted-pair-cable transmitters of other manufacturers, switch the input on the projector to DIGITAL LINK, and then switch the input on the twisted-pair-cable transmitter.
- Configure [RGB1 INPUT SETTING] of the [DISPLAY OPTION] menu → [RGB IN] (⇒ page 112) to match the signal to be input to the <RGB 1 IN> terminal.

Switching the input by displaying the input selection screen

The input for projection can be selected by displaying the input selection screen.

1) Press the <INPUT MENU> button.

• The input selection screen is displayed.



2) Press the <INPUT MENU> button again.

• The input will switch each time you press the <INPUT MENU> button.

Note

- Input can be switched by selecting the input to project by pressing ▲▼ and pressing the <ENTER> button while the input selection screen
 is displayed.
- The [P IN P MODE] screen is displayed when the <INPUT MENU> button is pressed while in the P IN P. (→ page 146)
- If the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the projector, the input selection menu for the DIGITAL LINK output supported device is displayed when the <ENTER> button is pressed while the DIGITAL LINK input is selected in the input selection screen.
- If the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the projector, the DIGITAL LINK logo and the input name selected in the DIGITAL LINK output supported device are displayed in the display section of the [DIGITAL LINK] in the input selection screen.
- Configure [RGB1 INPUT SETTING] of the [DISPLAY OPTION] menu → [RGB IN] (→ page 112) to match the signal to be input to the <RGB 1 IN> terminal.

Using the shutter function

If the projector is not used for a certain period of time during the meeting intermission, for example, it is possible to turn off the image temporarily.



button

1) Press the <SHUTTER> button.

- The image disappears.
- This operation can be also performed using the <SHUTTER> button on the control panel.

2) Press the <SHUTTER> button again.

The image is displayed.

- The power indicator <ON (G)/STANDBY (R)> will blink slowly in green while the shutter function is in use (shutter: closed).
- You can set whether to use the mechanical shutter or not and the time for the fade in/fade out of the image using the [DISPLAY OPTION] menu → [SHUTTER SETTING].
- If [MECHANICAL SHUTTER] in the [DISPLAY OPTION] menu → [SHUTTER SETTING] (→ page 121) is set to [DISABLE], the light source
 may be lit dimly due to warm-up when the shutter function is used while the operating environment temperature is around 0 °C (32 °F).

Using the on-screen display function

Turn off the on-screen display function (no display) when you do not wish the viewers to see the on-screen display, such as the menu or the input terminal name.



1) Press the <ON SCREEN> button.

• The on-screen display disappears.

2) Press the <ON SCREEN> button again.

• The on-screen display appears.

Note

 If you press the <MENU> button on the control panel for at least three seconds while the on-screen display is off (hidden), the on-screen display is turned on.

Using the automatic setup function

The automatic setup function can be used to automatically adjust the resolution, clock phase, and image position when analog RGB signals consisting of dots such as computer signals are being input, or to automatically adjust the image position when DVI-D/HDMI signals are input. It is recommended to input an image with bright white borders at the edges and high-contrast black and white characters when the automatic setup is being performed. Avoid using images that include halftones or gradation, such as photographs and computer graphics.



1) Press the <AUTO SETUP> button.

- [COMPLETE] is displayed when it has completed without any problem.
- This operation can be also performed using the <AUTO SETUP> button on the control panel.

Note

- The clock phase may shift even if it has completed without any incident. In such cases, adjust the [POSITION] menu → [CLOCK PHASE]
 (⇒ page 92).
- If an image with blurred edges or a dark image is input, [INCOMPLETE] may appear or adjustment may not be performed properly even
 when [COMPLETE] appears. In this case, adjust the settings in the [ADVANCED MENU] menu → [INPUT RESOLUTION] (→ page 96),
 [POSITION] → [CLOCK PHASE] (→ page 92), and [SHIFT] (→ page 90).
- Adjust special signals according to the [DISPLAY OPTION] menu → [AUTO SETUP] (→ page 109).
- Automatic adjustment may not work depending on the model of the computer.
- Automatic adjustment may not work for a synchronization signal of C-SY or SYNC ON GREEN.
- Images may be disrupted for a few seconds during automatic adjustment, but it is not a malfunction.
- · Adjustment is required for each input signal.
- Automatic adjustment can be canceled by pressing the <MENU> button during the automatic adjustment operation.
- Even if a signal possible to perform the automatic setup is being input, it may not be able to adjust correctly if the automatic setup function is used while the moving image is being input. [INCOMPLETE] may be displayed, or the adjustment may not be completed correctly even if [COMPLETE] is displayed.

Switching the image aspect ratio

Switch the image aspect ratio according to the input.



1) Press the <ASPECT> button.

The setting will change each time you press the button.

Note

• Refer to the [POSITION] menu \rightarrow [ASPECT] (\Rightarrow page 90) for details.

Using the function button

The <FUNCTION> button of the remote control can be used as a simplified shortcut button by assigning the following functions: [P IN P], [SUB MEMORY], [SYSTEM SELECTOR], [SYSTEM DAYLIGHT VIEW], [FREEZE], [WAVEFORM MONITOR], [LENS MEMORY LOAD], [LEFT/RIGHT SWAP], [PROJECTION METHOD]



1) Press the <FUNCTION> button.

Note

Assignment of the function is performed from the [PROJECTOR SETUP] menu → [FUNCTION BUTTON] (→ page 140).

Displaying internal test pattern

The projector has eight types of internal test patterns to check the condition of the projector body. To display test patterns, perform the following steps.



- 1) Press the <TEST PATTERN> button.
- Press ◀▶ to select the test pattern.

Note

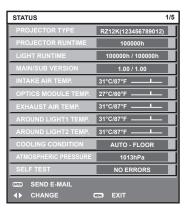
- Setting is also available from the [TEST PATTERN] (→ page 148) menu.
- Settings of position, size, and other factors will not be reflected in test patterns. Make sure to display the input signal before performing various adjustments.

Using the status function

Display the status of the projector.



- 1) Press the <STATUS> button.
 - The [STATUS] screen is displayed.



Note

This can be displayed from the [PROJECTOR SETUP] menu → [STATUS] (→ page 142).

Using the AC voltage monitor function

The value of input supply voltage can be displayed on the self-diagnosis display at the side of the projector.

■ To display during projection

- Press the power on <|> button.
 - The value of the input supply voltage is displayed only as numeric value on the self-diagnosis display.
 - The display will turn off automatically after approximately 3 seconds.

■ To display during standby mode

- 1) Press the power standby <∅> button.
 - The value of the input supply voltage is displayed only as numeric value on the self-diagnosis display.
 - The display will turn off automatically after approximately 3 seconds.

Note

- It can be set using the [PROJECTOR SETUP] menu → [AC VOLTAGE MONITOR] (→ page 143).
- The value of input supply voltage cannot be displayed in the self-diagnosis display during standby when the [PROJECTOR SETUP] menu
 → [STANDBY MODE] (→ page 134) is set to [ECO].
- Operation can also be performed by the power on <|> button or power standby <७> button on the control panel.

Setting ID number of the remote control

When you use the multiple projectors together, you can operate all the projectors simultaneously or each projector individually using a single remote control, if a unique ID number is assigned to each projector.

After setting the ID number of the projector, set same ID number on the remote control.

The factory default ID number of the projector is set to [ALL]. When using a single projector, press the <ID ALL> button on the remote control. Also, you can control a projector by pressing the <ID ALL> button on the remote control even if you do not know the projector ID.



- 1) Press the <ID SET> button on the remote control.
- 2) Within five seconds, press and set the one-digit or two-digit ID number set on the projector body using the number (<0> <9>) buttons.
 - If you press the <ID ALL> button, you can control the projectors regardless of the ID number setting of the projector body.

Attention

- Since the ID number of the remote control can be set without the projector body, do not press the <ID SET> button on the remote control
 carelessly. If the <ID SET> button is pressed and no number (<0> <9>) buttons are pressed within five seconds, the ID number returns to
 its original value before the <ID SET> button was pressed.
- The ID number set on the remote control will be stored unless it is set again. However, it will be erased if the remote control is left with dead batteries. Set the same ID number again when the batteries are replaced.

Note

- When the ID number of the remote control is set to [0], you can control the projector regardless of the ID number setting of the projector body, as same as when [ALL] is set.
- Set the ID number of the projector body from the [PROJECTOR SETUP] menu \rightarrow [PROJECTOR ID].

Chapter 4 Settings

This chapter describes the settings and adjustments you can make using the on-screen menu.

Menu navigation

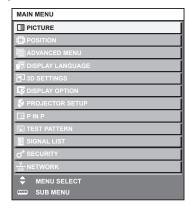
The on-screen menu (Menu) is used to perform various settings and adjustments of the projector.

Navigating through the menu

Operating procedure



- 1) Press the <MENU> button on the remote control or control panel.
 - The [MAIN MENU] screen is displayed.



- 2) Press ▲▼ to select an item from the main menu.
 - The selected item is highlighted in yellow.

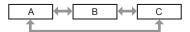


- 3) Press the <ENTER> button.
 - The sub-menu items of the selected main menu are displayed.



4) Press ▲▼ to select a sub-menu, and press ◀▶ or the <ENTER> button to change or adjust settings.

Some items will switch in order as follows each time you press ◀▶.



For some items, press ◀▶ to display an individual adjustment screen with a bar scale as shown below.



Note

- Pressing the <MENU> button while the menu screen is displayed returns to the previous menu.
- Depending on the signals to be input to the projector, some items or functions may not be adjusted or used. When the items cannot be
 adjusted or used, the items in the menu screen are shown in black characters, and they cannot be adjusted or set. [DIGITAL CINEMA
 REALITY] and [FRAME LOCK] may not be displayed depending on the input signal.
 - If the item in the menu screen is displayed in black characters and the item cannot be adjusted or set, the factor causing it is displayed by pressing the <ENTER> button while the corresponding menu is selected.
- Some items can be adjusted even if signals are not input.
- Individual adjustment screen is cleared automatically if no operation is performed for approximately five seconds.
- For menu items, refer to "Main menu" (⇒ page 77) and "Sub-menu" (⇒ page 78).
- The cursor color depends on the settings of the [DISPLAY OPTION] menu → [ON-SCREEN DISPLAY] → [OSD DESIGN]. The selected item is displayed with the yellow cursor by the factory default.
- In the portrait setting, the on-screen menu is displayed sideways.
 To display the on-screen menu in portrait, go to the [DISPLAY OPTION] menu → [ON-SCREEN DISPLAY] (→ page 118) and change the [OSD ROTATION] setting.

Resetting adjustment values to the factory default

If the <DEFAULT> button on the remote control is pressed, the values adjusted in the menu items are restored to the factory default settings.

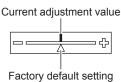


1) Press the <DEFAULT> button on the remote control.



Note

- You cannot reset all the settings to the factory default at a time.
- To reset all the settings adjusted in the sub-menu item to the factory default one at a time, execute the [PROJECTOR SETUP] menu →
 [INITIALIZE] (→ page 144).
- Some items cannot be reset to the factory default settings even when the <DEFAULT> button on the remote control is pressed. Adjust those
 items individually.
- The triangular mark under the bar scale in the individual adjustment screen indicates the factory default setting. The position of the triangular
 mark varies according to the selected input signals.



Main menu

The following items are in the main menu.

When a main menu item is selected, the screen changes to a sub-menu selection screen.

| Main menu item | Page |
|-----------------|------|
| [PICTURE] | 82 |
| [POSITION] | 90 |
| [ADVANCED MENU] | 95 |

Chapter 4 Settings — Menu navigation

| | Main menu item | Page |
|----------|--------------------|------|
| | [DISPLAY LANGUAGE] | 101 |
| 7 | [3D SETTINGS] | 102 |
| <u>s</u> | [DISPLAY OPTION] | 107 |
| \$ | [PROJECTOR SETUP] | 125 |
| | [P IN P] | 146 |
| <u> </u> | [TEST PATTERN] | 148 |
| | [SIGNAL LIST] | 149 |
| o* | [SECURITY] | 152 |
| | [NETWORK] | 156 |

Sub-menu

The sub-menu of the selected main menu item is displayed, and you can set and adjust items in the sub-menu.

[PICTURE]

| Sub-menu item | Factory default | Page |
|------------------------|-------------------------------------|------|
| [PICTURE MODE] | [STANDARD]*1 | 82 |
| [CONTRAST] | [0]*2 | 82 |
| [BRIGHTNESS] | [0]*2 | 83 |
| [COLOR] | [2]*2 | 83 |
| [TINT] | [-2]*2 | 83 |
| [COLOR TEMPERATURE] | [DEFAULT]*2 | 83 |
| [GAMMA] | [DEFAULT]*2 | 85 |
| [SYSTEM DAYLIGHT VIEW] | [OFF]*2 | 86 |
| [SHARPNESS] | [8]*2 | 86 |
| [NOISE REDUCTION] | [2]*2 | 87 |
| [DYNAMIC CONTRAST] | [2]*2 | 87 |
| [SYSTEM SELECTOR] | [YP _B P _R]*1 | 88 |

[POSITION]

| Sub-menu item | Factory default | Page |
|---------------|-----------------|------|
| [SHIFT] | _ | 90 |
| [ASPECT] | [DEFAULT]*1 | 90 |
| [ZOOM] | _ | 91 |
| [CLOCK PHASE] | [0]*1 | 92 |
| [GEOMETRY] | [OFF] | 92 |

^{*1} Depends on the signal input.

[ADVANCED MENU]

| Sub-menu item | Factory default | Page |
|--------------------------|-----------------|------|
| [DIGITAL CINEMA REALITY] | [AUTO]*1 | 95 |
| [BLANKING] | _ | 95 |

^{*1} Depends on the signal input.*2 Depends on the [PICTURE MODE].

Chapter 4 Settings — Menu navigation

| Sub-menu item | Factory default | Page |
|--------------------|-----------------|------|
| [INPUT RESOLUTION] | _ | 96 |
| [CLAMP POSITION] | [24]*1 | 96 |
| [EDGE BLENDING] | [OFF] | 97 |
| [FRAME RESPONSE] | [NORMAL] | 98 |
| [FRAME CREATION] | [2] | 99 |
| [FRAME LOCK] | _ | 99 |
| [RASTER POSITION] | _ | 100 |

^{*1} Depends on the signal input.

Note

• Sub-menu items and factory default settings vary depending on the selected input terminal.



Details (→ page 101)



| Sub-menu item | Factory default | Page |
|------------------------------|-----------------|------|
| [3D SYSTEM SETTING] | [SINGLE] | 102 |
| [3D SYNC SETTING] | _ | 102 |
| [3D INPUT FORMAT] | [AUTO]*1 | 103 |
| [LEFT/RIGHT SWAP] | [NORMAL] | 103 |
| [3D COLOR MATCHING] | [SHARED 2D/3D] | 103 |
| [3D PICTURE BALANCE] | _ | 104 |
| [DARK TIME SETTING] | [1.5ms] | 104 |
| [3D FRAME DELAY] | [0us] | 105 |
| [3D TEST MODE] | [NORMAL] | 105 |
| [3D TEST PATTERN] | _ | 105 |
| [SAFETY PRECAUTIONS MESSAGE] | [ON] | 106 |
| [3D SAFETY PRECAUTIONS] | _ | 106 |

^{*1} Varies depending on the selected input terminal.

[DISPLAY OPTION]

| Sub-menu item | Factory default | Page |
|---------------------------|-----------------|------|
| [COLOR MATCHING] | [OFF] | 107 |
| [LARGE SCREEN CORRECTION] | [OFF] | 108 |
| [SCREEN SETTING] | _ | 108 |
| [AUTO SIGNAL] | [OFF] | 109 |
| [AUTO SETUP] | _ | 109 |
| [BACKUP INPUT SETTING] | _ | 110 |
| [SIMUL INPUT SETTING] | _ | 111 |
| [RGB IN] | _ | 112 |
| [DVI-D IN] | _ | 113 |
| [HDMI IN] | _ | 114 |
| [DIGITAL LINK IN] | _ | 115 |
| [SDI IN] | _ | 117 |
| [ON-SCREEN DISPLAY] | _ | 118 |
| [IMAGE ROTATION] | [OFF] | 120 |
| [BACK COLOR] | [BLUE] | 120 |
| [STARTUP LOGO] | [DEFAULT LOGO] | 120 |
| [UNIFORMITY] | _ | 121 |
| [SHUTTER SETTING] | _ | 121 |
| [FREEZE] | _ | 123 |

Chapter 4 Settings — Menu navigation

| Sub-menu item | Factory default | Page |
|--------------------|-----------------|------|
| [WAVEFORM MONITOR] | [OFF] | 123 |
| [CUT OFF] | _ | 124 |

[PROJECTOR SETUP]

| Sub-menu item | Factory default | Page |
|------------------------|-----------------|------|
| [PROJECTOR ID] | [ALL] | 125 |
| [PROJECTION METHOD] | [FRONT/FLOOR] | 125 |
| [OPERATION SETTING] | _ | 125 |
| [LIGHT OUTPUT] | [100.0%] | 129 |
| [BRIGHTNESS CONTROL] | _ | 130 |
| [STANDBY MODE] | [NORMAL] | 134 |
| [NO SIGNAL SHUT-OFF] | [DISABLE] | 134 |
| [NO SIGNAL LIGHTS-OUT] | [DISABLE] | 134 |
| [INITIAL STARTUP] | [LAST MEMORY] | 135 |
| [STARTUP INPUT SELECT] | [LAST USED] | 135 |
| [DATE AND TIME] | _ | 135 |
| [SCHEDULE] | [OFF] | 136 |
| [RS-232C] | _ | 138 |
| [REMOTE2 MODE] | [DEFAULT] | 140 |
| [FUNCTION BUTTON] | _ | 140 |
| [LENS CALIBRATION] | _ | 140 |
| [LENS MEMORY] | _ | 141 |
| [STATUS] | _ | 142 |
| [AC VOLTAGE MONITOR] | [OFF] | 143 |
| [SAVE ALL USER DATA] | _ | 144 |
| [LOAD ALL USER DATA] | _ | 144 |
| [INITIALIZE] | _ | 144 |
| [SERVICE PASSWORD] | _ | 145 |

[P IN P] 🗖

Details (→ page 146)

[TEST PATTERN]

Details (→ page 148)

[SIGNAL LIST]

Details (⇒ page 149)

[SECURITY]

| Sub-menu item | Factory default | Page |
|----------------------------------|-----------------|------|
| [SECURITY PASSWORD] | [OFF] | 152 |
| [SECURITY PASSWORD CHANGE] | _ | 152 |
| [DISPLAY SETTING] | [OFF] | 152 |
| [TEXT CHANGE] | _ | 153 |
| [CONTROL DEVICE SETUP] | _ | 153 |
| [CONTROL DEVICE PASSWORD CHANGE] | _ | 154 |

[NETWORK]

| Sub-menu item | Factory default | Page |
|---------------------------|-----------------|------|
| [DIGITAL LINK MODE] | [AUTO] | 156 |
| [DIGITAL LINK SETUP] | _ | 156 |
| [DIGITAL LINK STATUS] | _ | 157 |
| [NETWORK SETUP] | _ | 157 |
| [NETWORK CONTROL] | _ | 158 |
| [NETWORK STATUS] | _ | 158 |
| [DIGITAL LINK MENU] | _ | 159 |
| [Art-Net SETUP] | [OFF] | 159 |
| [Art-Net CHANNEL SETTING] | [2] | 159 |
| [Art-Net STATUS] | _ | 160 |

Note

- Some items may not be adjusted or used for certain signal formats to be input to the projector.
 When the items cannot be adjusted or used, the items in the menu screen are shown in black characters, and they cannot be adjusted or set
- Sub-menu items and factory default settings vary depending on the selected input terminal.

[PICTURE] menu

On the menu screen, select [PICTURE] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (*) page 76) for the operation of the menu screen.

[PICTURE MODE]

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

- 1) Press ▲▼ to select [PICTURE MODE].
- Press ◀▶.
 - The [PICTURE MODE] individual adjustment screen is displayed.
- 3) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [STANDARD] | The image becomes suitable for moving images in general. | |
|--------------|--|--|
| [CINEMA] | The image becomes suitable for movie contents. | |
| [NATURAL] | The image is sRGB compliant. | |
| [DICOM SIM.] | The image becomes similar to that of DICOM Part 14 Grayscale Standard. | |
| [DYNAMIC] | The light output is maximized for use in bright areas. | |
| [GRAPHIC] | The image becomes suitable for input from the personal computer. | |
| [USER] | Set any desired picture mode. | |

Note

- The factory default picture mode is [GRAPHIC] for still image input signals and [STANDARD] for movie-based input signals.
- DICOM is an abbreviation of "Digital Imaging and COmmunication in Medicine" and is a standard for medical imaging devices. Although the DICOM name is used, the projector is not a medical device, and should not be used for purposes such as diagnosis of display images.
- Press the <ENTER> button when each [PICTURE MODE] is selected to save as a specified value when a new signal is input. The data of all items except [SYSTEM SELECTOR] in the [PICTURE] menu is saved.
- In the factory default settings, [USER] is set to images that comply with the ITU-R BT.709 standard.

Changing the [USER] name

- Press ▲▼ to select [PICTURE MODE].
- 2) Press **♦** to select [USER].
- 3) Press the <ENTER> button.
 - The [PICTURE MODE] detailed screen is displayed.
- 4) Press ▲▼ to select [PICTURE MODE NAME CHANGE], and press the <ENTER> button.
 - The [PICTURE MODE NAME CHANGE] screen is displayed.
- Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 6) Press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The picture mode name is changed.

[CONTRAST]

You can adjust the contrast of the colors.

- Press ▲▼ to select [CONTRAST].
- 2) Press **♦** or the **<ENTER>** button.
 - The [CONTRAST] individual adjustment screen is displayed.
- 3) Press **♦** to adjust the level.

| Operation | Adjustment | Range of adjustment |
|-----------|------------------------------|---------------------|
| Press ▶. | The screen becomes brighter. | 24 +24 |
| Press ◀. | The screen becomes darker. | -31 - +31 |

Attention

• Adjust [BRIGHTNESS] first when you need to adjust the black level.

[BRIGHTNESS]

You can adjust the dark (black) part of the projected image.

- 1) Press ▲▼ to select [BRIGHTNESS].
- 2) Press **♦** or the **<ENTER>** button.
 - The [BRIGHTNESS] individual adjustment screen is displayed.
- 3) Press **♦** to adjust the level.

| Operation | Adjustment | Range of adjustment |
|-----------|---|-----------------------|
| Press ▶. | Increases the brightness of the dark (black) parts of the screen. | 24 |
| Press ◀. | Reduces the brightness of the dark (black) parts of the screen. | - 31 - +31 |

[COLOR]

You can adjust the color saturation of the projected image.

- 1) Press ▲▼ to select [COLOR].
- 2) Press **♦** or the **<ENTER>** button.
 - The [COLOR] individual adjustment screen is displayed.
- 3) Press **♦** to adjust the level.

| Operation | Adjustment | Range of adjustment |
|-----------|-----------------|---------------------|
| Press ▶. | Deepens colors. | 24 . 24 |
| Press ◀. | Weakens colors. | _31 - +31 |

[TINT]

You can adjust the skin tone in the projected image.

- 1) Press ▲▼ to select [TINT].
- 2) Press **♦** or the **<ENTER>** button.
 - The [TINT] individual adjustment screen is displayed.
- 3) Press **♦** to adjust the level.

| Operation | Adjustment | Range of adjustment |
|-----------|--|----------------------|
| Press ▶. | Adjusts skin tone toward greenish color. | 04 .04 |
| Press ◀. | Adjusts skin tone toward reddish purple. | -31 - +31 |

[COLOR TEMPERATURE]

You can switch the color temperature if the white areas of the projected image are bluish or reddish.

Adjusting with color temperature

- 1) Press ▲▼ to select [COLOR TEMPERATURE].
- 2) Press **♦** or the **<ENTER>** button.
 - The [COLOR TEMPERATURE] individual adjustment screen is displayed.
- 3) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [DEFAULT] | Factory default setting. | |
|-----------|--------------------------|--|
|-----------|--------------------------|--|

Chapter 4 Settings — [PICTURE] menu

| [USER1] | Adjusts white balance as desired. Refer to "Adjusting desired white balance" (▶ page 84) for |
|-------------------|--|
| [USER2] | details. |
| [3200K] - [9300K] | Allows you to set in increments of 100 K. Select so that images become natural. |

Note

- When [PICTURE MODE] (→ page 82) is set to [USER] or [DICOM SIM.], [DEFAULT] cannot be selected.
- When [COLOR MATCHING] (→ page 107) adjustment is set to other than [OFF], [COLOR TEMPERATURE] is fixed to [USER1].
- The color temperature numerical values are guidelines.

Adjusting desired white balance

- 1) Press ▲▼ to select [COLOR TEMPERATURE].
- 2) Press **♦** or the **<ENTER>** button.
 - The [COLOR TEMPERATURE] individual adjustment screen is displayed.
- 3) Press **♦** to select [USER1] or [USER2].
- 4) Press the <ENTER> button.
 - The [COLOR TEMPERATURE] screen is displayed.
- 5) Press ▲▼ to select [WHITE BALANCE].
- 6) Press the <ENTER> button.
 - The [WHITE BALANCE] screen is displayed.
- 7) Press ▲▼ to select [WHITE BALANCE HIGH] or [WHITE BALANCE LOW].
- 8) Press the <ENTER> button.
 - The [WHITE BALANCE HIGH] screen or the [WHITE BALANCE LOW] screen is displayed.
- Press ▲▼ to select [RED], [GREEN], or [BLUE].
- 10) Press **♦** to adjust the level.

| Item | Operation | Adjustment | Range of adjustment |
|---------|-----------|----------------|--|
| (DED) | Press ▶. | Deepens red. | |
| [RED] | Press ◀. | Weakens red. | [WHITE BALANCE HIGH]: 0 - +255 (factory default is |
| CODEENI | Press ▶. | Deepens green. | +255) |
| [GREEN] | Press ◀. | Weakens green. | [WHITE BALANCE LOW]: -127 - +127 (factory default is |
| (DLUE) | Press ▶. | Deepens blue. | 0) |
| [BLUE] | Press ◀. | Weakens blue. | |

Note

Adjusting desired white balance based on existing color temperature settings

- 1) Press ▲▼ to select [COLOR TEMPERATURE].
- 2) Press **♦** or the **<ENTER>** button.
 - The [COLOR TEMPERATURE] individual adjustment screen is displayed.
- 3) Press **♦** to select an item other than [DEFAULT], [USER1], and [USER2].
- 4) Press the <ENTER> button.
 - The [CHANGE TO *****] screen is displayed.
- 5) Press ▲▼ to select [USER1] or [USER2].
 - The status of the color temperature changed is saved to the selected item.

Adjust [COLOR TEMPERATURE] correctly. All colors will not be displayed properly unless adequate adjustment is made. If the adjustment
does not look suitable, you can press the <DEFAULT> button on the remote control to return the setting for the selected item only to the
factory default setting.

- 6) Press the <ENTER> button.
 - The confirmation screen is displayed.
- 7) Press ◆▶ to select [OK], and press the <ENTER> button.
 - The [USER1] or [USER2] data is overwritten.
 - If you press ◀▶ to select [CANCEL] and then press the <ENTER> button, the data will not be overwritten.
 - The [WHITE BALANCE HIGH] screen is displayed.
- 8) Press ▲▼ to select [RED], [GREEN], or [BLUE].
- 9) Press **♦** to adjust the level.

Note

- Adjust [COLOR TEMPERATURE] correctly. All colors will not be displayed properly unless adequate adjustment is made. If the adjustment
 does not look suitable, you can press the <DEFAULT> button on the remote control to return the setting for the selected item only to the
 factory default setting.
- · When color temperature has been changed, the colors before and after the change will differ slightly.

Changing the name of [USER1] or [USER2]

- 1) Press ▲▼ to select [COLOR TEMPERATURE].
- 2) Press **♦** or the **<ENTER>** button.
 - The [COLOR TEMPERATURE] individual adjustment screen is displayed.
- 3) Press ◆▶ to select [USER1] or [USER2].
- 4) Press the <ENTER> button.
 - The [COLOR TEMPERATURE] screen is displayed.
- 5) Press ▲▼ to select [COLOR TEMPERATURE NAME CHANGE].
- 6) Press the <ENTER> button.
 - The [COLOR TEMPERATURE NAME CHANGE] screen is displayed.
- Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 8) Press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The name set to color temperature is changed.

Note

• When a name is changed, display of [USER1], [USER2] is also changed.

[GAMMA]

You can switch gamma mode.

- Press ▲▼ to select [GAMMA].
- 2) Press **♦** or the **<ENTER>** button.
 - The [GAMMA] individual adjustment screen is displayed.
- 3) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [DEFAULT]*1 | Factory default setting. |
|---------------|---|
| [USER1] | Allows you to change the name. |
| [USER2] | Refer to "Changing the name of [USER1] or [USER2]" (▶ page 86) for details. |
| [DICOM SIM.] | The picture becomes similar to that of DICOM standard. |
| [1.0] | |
| [1.8] | Set so that images become as you like. [2.0] - [2.8] can be set in increments of 0.1. |
| [2.0] - [2.8] | |

^{*1} When [PICTURE MODE] is set to [DYNAMIC], [USER], or [DICOM SIM.], [DEFAULT] cannot be selected.

Note

• DICOM is an abbreviation of "Digital Imaging and COmmunication in Medicine" and is a standard for medical imaging devices. Although the DICOM name is used, the projector is not a medical device, and should not be used for purposes such as diagnosis of display images.

Changing the name of [USER1] or [USER2]

- Press ▲▼ to select [GAMMA].
- 2) Press **♦** or the **<ENTER>** button.
 - The [GAMMA] individual adjustment screen is displayed.
- 3) Press **♦** to select [USER1] or [USER2].
- 4) Press the <ENTER> button.
 - The [GAMMA] screen is displayed.
- 5) Press the <ENTER> button.
 - The [GAMMA NAME CHANGE] screen is displayed.
- 6) Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 7) Press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The selected gamma name is changed.

Note

• When a name is changed, display of [USER1], [USER2] is also changed.

[SYSTEM DAYLIGHT VIEW]

You can correct the image to the optimal vividness even if it is projected under a bright light.

- 1) Press ▲▼ to select [SYSTEM DAYLIGHT VIEW].
- 2) Press **♦** or the **<ENTER>** button.
 - The [SYSTEM DAYLIGHT VIEW] individual adjustment screen is displayed.
- 3) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | No correction. |
|-----------|---|
| [1] - [6] | Corrects the vividness of the image. The larger the value, the stronger the correction. |

[SHARPNESS]

You can adjust the sharpness of the projected image.

- Press ▲▼ to select [SHARPNESS].
- 2) Press **♦** or the **<ENTER>** button.
 - The [SHARPNESS] individual adjustment screen is displayed.
- 3) Press **♦** to adjust the level.

| Operation | Adjustment | Range of adjustment |
|-----------|--------------------------|---------------------|
| Press ▶. | Contours become sharper. | 0 .45 |
| Press ◀. | Contours become softer. | 0 - +15 |

Note

If you press ▶ while the adjustment value is [+15], the value will become [0]. If you press ■ while the adjustment value is [0], the value will become [+15].

[NOISE REDUCTION]

You can reduce noises when the input image is degraded and noise is occurring in the image signal.

- Press ▲▼ to select [NOISE REDUCTION].
- 2) Press **♦** or the **<ENTER>** button.
 - The [NOISE REDUCTION] individual adjustment screen is displayed.
- 3) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | No correction. |
|-------|--------------------------------|
| [1] | Slightly corrects the noise. |
| [2] | Moderately corrects the noise. |
| [3] | Strongly corrects the noise. |

Attention

• When this is set for an input signal with less noise, the image may look different from what it originally was. In such a case, set it to [OFF].

[DYNAMIC CONTRAST]

Light adjustment of the light source and signal compensation are performed automatically according to the image to make the contrast optimum for the image.

- 1) Press ▲▼ to select [DYNAMIC CONTRAST].
- 2) Press **♦** or the **<ENTER>** button.
 - The [DYNAMIC CONTRAST] individual adjustment screen is displayed.
- 3) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Disables the dynamic contrast function. | |
|--------|--|--|
| [1] | Adjusts the light source and compensates signals to a small extent. | |
| [2] | Adjusts the light source and compensates signals to a moderate extent. | |
| [3] | Adjusts the light source and compensates signals to a large extent. | |
| [USER] | Set any desired correction. Refer to "Performing desired correction" (→ page 87) for details. | |

Performing desired correction

- Press ▲▼ to select [DYNAMIC CONTRAST].
- 2) Press **♦** or the **<ENTER>** button.
 - The [DYNAMIC CONTRAST] individual adjustment screen is displayed.
- 3) Press **♦** to select [USER].
- 4) Press the <ENTER> button.
 - The [DYNAMIC CONTRAST] screen is displayed.
- 5) Press ▲▼ to select an item, and press ◀▶ to change the setting.

| Setting item | | Details |
|---|--------------|---|
| IAUTO CONTRACTI | [OFF] | Does not adjust the light source. |
| [AUTO CONTRAST] (Automatic light source adjustment) | [1] - [255] | The higher the value, the stronger the light adjustment of the light source. Can be set in increments of 1. |
| [BRIGHT SIGNAL LEVEL] (Setting of the brightness level of the signal to start the light adjustment) | [6%] - [50%] | Adjusts the light source when the brightness level of the video signal being input gets lower than the set value. The higher the value, the larger the range to perform the light adjustment of the light source. Can be set in increments of 1 %. (Factory setting: 30 %) |

Chapter 4 Settings — [PICTURE] menu

| Setting item | | Details |
|---|------------------|---|
| | [DISABLE] | Does not turn off the light source. |
| [LIGHTS OUT TIMER] (Time setting until the light turns off) | [0.0s] - [10.0s] | Turns off the light source when the brightness level of the video signal being input goes under the value set in [LIGHTS OUT SIGNAL LEVEL]. Select an item from [0.0s] - [4.0s], [5.0s], [7.0s], or [10.0s]. [0.0s] - [4.0s] can be selected in increments of 0.5. |
| [LIGHTS OUT SIGNAL LEVEL] (Setting of the brightness level of the signal to turn off the light) | [0%] - [5%] | Set the level of the brightness of the video signal to turn off the light source with [LIGHTS OUT TIMER]. Can be set in increments of 1 %. (Factory setting: 0 %) |
| [MANUAL INTENSITY] (Manual light source adjsutment) | [0] - [255] | The larger the value, the stronger the correction. Can be set in increments of 1. (Factory setting: 255) |
| | [OFF] | Does not compensate the signal. |
| [DYNAMIC GAMMA] (Adjustment of signal compensation) | [1] | Slightly compensates the signal. |
| | [2] | Moderately compensates the signal. |
| | [3] | Strongly compensates the signal. |

Note

- [LIGHTS OUT SIGNAL LEVEL] cannot be set when [LIGHTS OUT TIMER] is set to [DISABLE].
- When [LIGHTS OUT TIMER] is set to anything other than [DISABLE], the following are the conditions to turn the light source back on again from the state that the light source has turned off by this function.
 - When the brightness level of the video signal being input has exceeded the value set in [LIGHTS OUT SIGNAL LEVEL]
 - When the input signal is gone
 - When on-screen display such as menu screen (OSD) or input guide, a test pattern, or a warning message is displayed
 - When the operating environment temperature is around 0 °C (32 °F) and the light source is forced to turn on due to warm-up
- When [LIGHTS OUT TIMER] is set to anything other than [DISABLE], it will take approximately 0.5 seconds to turn the light source back on again from the state that the light source has turned off by this function.
- When the image of analog signal is projected, the image may be affected by the signal noise while the brightness level of the video signal is detected. In this case, even when the brightness level of the image falls below the value set in [LIGHTS OUT SIGNAL LEVEL], it is judged that the brightness level is not below the value as a signal.
 - Analog signal refers to Y/C signal, YC_BC_R/YP_BP_R signal, and analog RGB signal.
- When [DYNAMIC GAMMA] is set to [3], the contrast will be maximized.
- The brightness control function and the dynamic contrast function will operate simultaneously, but the dynamic contrast function will not
 operate while measuring the brightness and the color.

[SYSTEM SELECTOR]

The projector will automatically detect the input signal, but you can set the system method manually when an unstable signal is input. Set the system method matching the input signal.

- 1) Press ▲▼ to select [SYSTEM SELECTOR].
- 2) Press the <ENTER> button.
- 3) Press ▲▼ to select a system format.
 - Select the system format using ▲▼◀▶ when the signal is input to the <SDI IN 1>/<SDI IN 2> terminals.
 - Available system formats vary depending on the input signal.

| Terminal | System format | |
|--|---|--|
| <r p<sub="">R/VIDEO> terminal, <g <br="">Y>/<b p<sub="">B/C> terminal</g></r> | Select [AUTO], [NTSC], [NTSC4.43], [PAL], [PAL-M], [PAL-N], [SECAM], or [PAL60]. Set it to [AUTO] normally. (Setting [AUTO] will automatically select [NTSC], [NTSC4.43], [PAL], [PAL-M], [PAL-N], [SECAM], or [PAL60].) Switch the setting to the signal method for the TV used. | |
| | 480i, 576i, or 576p signal | Select [RGB] or [YC _B C _R]. |
| <rgb 1="" in=""> terminal, <rgb 2="" in=""> terminal</rgb></rgb> | VGA60 or 480p signal | Select [VGA60], [480p YC _B C _R], or [480p RGB]. |
| nv- terminar | Other movie-based signals | Select [RGB] or [YP _B P _R]. |
| <dvi-d in=""> terminal</dvi-d> | 480i, 576i, 480p, or 576p signal | Select [RGB] or [YC _B C _R]. |
| | Other movie-based signals | Select [RGB] or [YP _B P _R]. |
| <hdmi in=""> terminal, <digital LINK/LAN> terminal</digital </hdmi> | 480i, 576i, 480p, or 576p signal | Select [AUTO], [RGB], or [YC _B C _R]. |
| | Other movie-based signals | Select [AUTO], [RGB], or [YP _B P _R]. |

Chapter 4 Settings — [PICTURE] menu

| Terminal | System format | | |
|--|-----------------|--|--|
| <sdi 1="" in=""> terminal, <sdi 2="" in=""> terminal</sdi></sdi> | For single link | $\label{eq:select_policy} Select [AUTO], [480i\ YC_BC_R], [576i\ YC_BC_R], [720/50p\ YP_BP_R], \\ [720/60p\ YP_BP_R], [1035/60i\ YP_BP_R], [1080/24p\ YP_BP_R], \\ [1080/24sF\ YP_BP_R], [1080/25p\ YP_BP_R], [1080/30p\ YP_BP_R], \\ [1080/50i\ YP_BP_R], [1080/60i\ YP_BP_R], [1080/50p\ YP_BP_R], \\ [1080/60p\ YP_BP_R], [1080/24p\ RGB], [1080/24sF\ RGB], \\ [1080/25p\ RGB], [1080/30p\ RGB], [1080/50i\ RGB], or \\ [1080/60i\ RGB]. \\ \end{aligned}$ | |
| | For dual link | Select [AUTO], [1080/24p RGB], [2K/24p RGB], [2K/24p XYZ], [1080/24sF RGB], [2K/24sF RGB], [2K/24sF XYZ], [1080/25p RGB], [1080/30p RGB], [1080/50i RGB], [1080/60i RGB], [1080/60p RGB], [1080/60p YP _B P _R], [1080/60p YP _B P _R], [2K/48p RGB], [2K/48p YP _B P _R], [2K/50p RGB], [2K/50p YP _B P _R], [2K/60p RGB], or [2K/60p YP _B P _R]. | |

4) Press the <ENTER> button.

Note

- Refer to "List of compatible signals" (→ page 206) for the types of video signals that can be used with the projector.
- This may not function properly for some connected external devices.

sRGB-compliant video

sRGB is an international standard (IEC61966-2-1) for color reproduction defined by IEC (International Electrotechnical Commission).

Set according to the following steps to reproduce more faithful, sRGB compliant colors.

- 1) Set [COLOR MATCHING] to [OFF].
 - Refer to [COLOR MATCHING] (→ page 107).
- 2) Display the [PICTURE] menu.
 - Refer to "[PICTURE] menu" (→ page 82).
- 3) Press ▲▼ to select [PICTURE MODE].
- 4) Press **♦** to set [NATURAL].
- 5) Press ▲▼ to select [COLOR].
- Press the <DEFAULT> button on the remote control to set the factory default setting.
- 7) Follow Steps 5) to 6) to set [TINT], [COLOR TEMPERATURE], [GAMMA], and [SYSTEM DAYLIGHT VIEW] to the factory default settings.

Note

sRGB is available for RGB signal input only.

[POSITION] menu

On the menu screen, select [POSITION] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (⇒ page 76) for the operation of the menu screen.

Note

 When the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the <DIGITAL LINK/ LAN> terminal, adjust the shift, aspect, and clock phase from the menu of DIGITAL LINK output supported device at first.

[SHIFT]

Move the image position vertically or horizontally if the image projected on the screen is still out of position even when the positions of the projector and screen are correct.

- Press ▲▼ to select [SHIFT].
- 2) Press the <ENTER> button.
 - The [SHIFT] screen is displayed.
- 3) Press ▲▼◀▶ to adjust the position.

| Orientation | Operation | Adjustment | |
|--|------------------|--|---|
| Vertical (up and down) adjustment | Press ▲. | The image position moves up. | |
| | Press ▼. | The image position moves down. | |
| Horizontal (right and left) adjustment | Press ▶. | The image position moves to the right. | 0 |
| | Press ◀ . | The image position moves to the left. | 0 |

Note

• For the portrait setting, image position is moved horizontally when "Vertical (up and down) adjustment" is made. Image position is moved vertically when "Horizontal (right and left) adjustment" is made.

[ASPECT]

You can switch the aspect ratio of the image.

The aspect ratio is switched within the screen range selected in [SCREEN SETTING]. Set [SCREEN SETTING] first. (▶ page 108)

- 1) Press ▲▼ to select [ASPECT].
- 2) Press **♦** or the **<ENTER>** button.
 - The [ASPECT] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [DEFAULT] | Displays images without changing the aspect ratio of the input signals. |
|-----------|---|

Chapter 4 Settings — [POSITION] menu

| [VID AUTO] [~] 1 | The projector identifies the video ID (VID) embedded in the video signals and displays the image by automatically switching the screen sizes between 4:3 and 16:9. This function is effective for NTSC signals. |
|---------------------------|---|
| [AUTO] ⁻² | The projector identifies the video ID (VID) embedded in the video signals and displays the image by automatically switching the screen sizes between 4:3 and 16:9. This function is effective for 480i/480p signals. |
| [THROUGH] | Displays images without changing the resolution of the input signals. |
| [16:9] | Displays images with the aspect ratio converted to 16:9 when standard signals are input ^{*3} . When wide-screen signals are input ^{*4} , the images are displayed without changing the aspect ratio. |
| [4:3] | Displays images without changing the aspect ratio when standard signals are input ⁻³ . When wide-screen signals are input ⁻⁴ , and [4:3] is selected in [SCREEN FORMAT], the images are displayed by converting the aspect ratio to 4:3. When anything other than [4:3] is selected in [SCREEN FORMAT], the images are reduced to be displayed without changing input aspect ratio so that the images will fit in the 4:3 screen. |
| [Н FIТ] | Displays images using the entire width of the screen range selected in [SCREEN FORMAT]. When signals have the aspect ratio vertically longer than the screen aspect ratio selected in [SCREEN FORMAT], the images are displayed with the top and bottom parts cut off. |
| [V FIT] | Displays images using the entire height of the screen range selected in [SCREEN FORMAT]. When signals have the aspect ratio horizontally longer than the aspect ratio of the screen selected in [SCREEN FORMAT], the images are displayed with the right and left parts cut off. |
| [HV FIT] | Displays images in the entire screen range selected in [SCREEN FORMAT]. When the aspect ratio of the input signals differs from that of the screen range, the images are displayed with the aspect ratio converted to that of the screen selected in [SCREEN FORMAT]. |

- *1 During video signals and Y/C signal (NTSC) input only
- *2 During RGB signal (480i, 480p) input
- *3 Standard signals are input signals with an aspect ratio of 4:3 or 5:4.
- *4 Wide-screen signals are input signals with an aspect ratio of 16:10, 16:9, 15:9 or 15:10.

Note

- Some size modes are not available for certain types of input signals. [DEFAULT] cannot be selected for video signal, Y/C signal (NTSC), or RGB (480i, 480p) signal.
- If an aspect ratio which is different from the aspect ratio for the input signals is selected, the images will appear differently from the originals. Be careful of this when selecting the aspect ratio.
- If using the projector in places such as cafes or hotels to display programs for a commercial purpose or for public presentation, note that adjusting the aspect ratio or using the zoom function to change the screen images may be an infringement of the rights of the original copyright owner for that program under copyright protection laws. Take care when using a function of the projector such as the aspect ratio adjustment and zoom function.
- If conventional (normal) 4:3 images which are not wide-screen images are displayed on a wide screen, the edges of the images may not be visible or they may become distorted. Such images should be viewed as with an aspect ratio of 4:3 in the original format intended by the creator of the images.

[ZOOM]

You can adjust the image size.

When [ASPECT] is set to other than [DEFAULT] and [THROUGH]

- Press ▲▼ to select [ZOOM].
- 2) Press the <ENTER> button.
 - The **[ZOOM]** screen is displayed.
- 3) Press ▲▼ to select [INTERLOCKED].
- Press ◀▶ to switch the item.

| [OFF] | Sets the [VERTICAL] and [HORIZONTAL] zoom ratio. |
|-------|--|
| [ON] | Uses [BOTH] to set zoom ratio. Image can be enlarged or reduced vertically and horizontally at the same magnification. |

- 5) Press ▲▼ to select [VERTICAL] or [HORIZONTAL].
 - If [ON] is selected, select [BOTH].
- 6) Press **♦** to adjust.

Note

• When [ASPECT] is set to [THROUGH], [ZOOM] cannot be adjusted.

When [ASPECT] is set to [DEFAULT]

- Press ▲▼ to select [ZOOM].
- 2) Press the <ENTER> button.
 - The [ZOOM] screen is displayed.
- 3) Press ▲▼ to select [MODE].
- 4) Press **♦** to switch the item.

| [INTERNAL] | Enlarges the size within the aspect range set with [SCREEN FORMAT]. |
|------------|--|
| [FULL] | Enlarges or reduces the size using the entire display area set with [SCREEN FORMAT]. |

- Press ▲▼ to select [INTERLOCKED].
- 6) Press **♦** to switch the item.

| [OFF] | Sets the [VERTICAL] and [HORIZONTAL] zoom ratio. | |
|-------|--|--|
| [ио] | Uses [BOTH] to set zoom ratio. Image can be enlarged or reduced vertically and horizontally at the same magnification. | |

- 7) Press ▲▼ to select [VERTICAL] or [HORIZONTAL].
 - If [ON] is selected, select [BOTH].
- 8) Press **♦** to adjust.

Note

• When [ASPECT] is not set to [DEFAULT], [MODE] is not displayed.

[CLOCK PHASE]

You can adjust to achieve an optimal image when there is a flickering image or smeared outlines.

- Press ▲▼ to select [CLOCK PHASE].
- 2) Press **♦** or the **<ENTER>** button.
 - The [CLOCK PHASE] individual adjustment screen is displayed.
- 3) Press **♦** to adjust.
 - Adjustment value will change between [0] and [+31]. Adjust so that the amount of interference is at a minimum.

Note

- Some signals may not be adjusted.
- Optimal value may not be achieved if the output from the input computer is unstable.
- Optimal value may not be achieved when there is a shift in the total dot numbers.
- [CLOCK PHASE] can be adjusted only when a signal is input to the <RGB 1 IN> terminal or the <RGB 2 IN> terminal.
- [CLOCK PHASE] cannot be adjusted when a digital signal is input.
- If you press ▶ while the adjustment value is [+31], the value will become [0]. If you press ◀ while the adjustment value is [0], the value will become [+31].

[GEOMETRY]

You can correct various types of distortion in a projected image.

Unique image processing technology enables projection of a square image on a special screen shape.

- Press ▲▼ to select [GEOMETRY].
- 2) Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

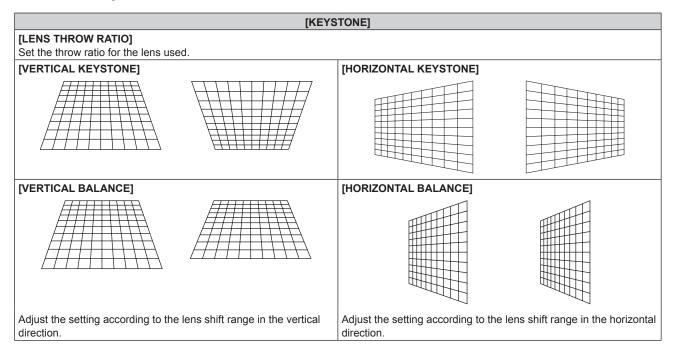
| [OFF] | Does not perform geometric adjustment. | |
|---------------------|--|--|
| [KEYSTONE] | Adjusts any trapezoidal distortion in the projected image. | |
| [CORNER CORRECTION] | Adjusts any distortion in the four corners of the projected image. | |
| [CURVED] | Adjusts any curved distortion in the projected image. | |

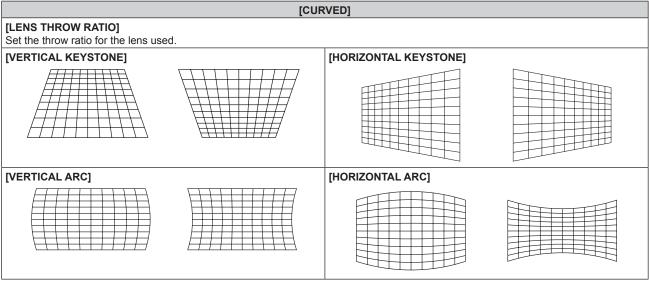
| [PC-1]*1 | |
|----------|---|
| [PC-2]*1 | Performs geometric adjustment using a computer. |
| [PC-3]*1 | |

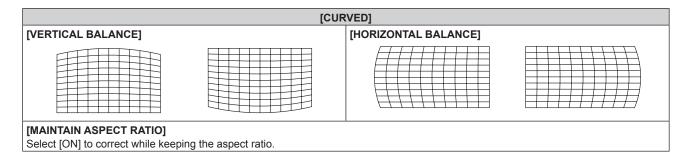
^{*1} Advanced skills are necessary to use a computer to control geometric adjustment. Consult your dealer. Up to three geometric adjustments performed using the computer can be saved.

Setting [KEYSTONE] or [CURVED]

- 1) Press ▲▼ to select [GEOMETRY].
- 2) Press ◆▶ to select [KEYSTONE] or [CURVED].
- 3) Press the <ENTER> button.
 - The [GEOMETRY:KEYSTONE] or [GEOMETRY:CURVED] screen is displayed.
- 4) Press ▲▼ to select the item to adjust.
- 5) Press **♦** to adjust.

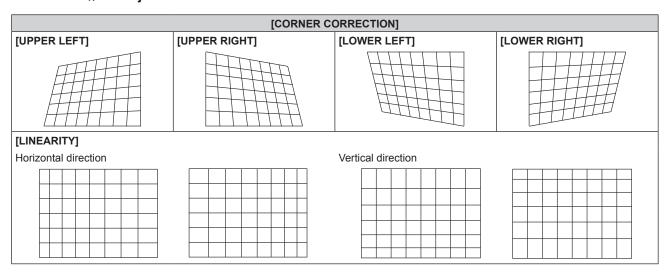






Setting [CORNER CORRECTION]

- Press ▲▼ to select [GEOMETRY].
- 2) Press **♦** to select [CORNER CORRECTION].
- 3) Press the <ENTER> button.
 - The [GEOMETRY:CORNER CORRECTION] screen is displayed.
- 4) Press ▲▼ to select the item to adjust, and press the <ENTER> button.
- 5) Press ▲▼◀▶ to adjust.



Note

- The menu or logo may run off the screen when [GEOMETRY] is set.
- If [EDGE BLENDING] (→ page 97) adjustment and [GEOMETRY] are used together, correct edge blending adjustment may not be
 possible in certain environments.
- The optional Upgrade Kit (Model No.: ET-UK20) can be used to expand the correctable range. To purchase the product, consult your dealer.
- The image may disappear for a moment while performing adjustment, but it is not a malfunction.

[ADVANCED MENU] menu

On the menu screen, select [ADVANCED MENU] from the main menu, and select an item from the submenu.

Refer to "Navigating through the menu" (⇒ page 76) for the operation of the menu screen.

[DIGITAL CINEMA REALITY]

You can increase the vertical resolution and enhance the image quality by performing cinema processing when the PAL (or SECAM) 576i signal, the NTSC 480i signal, and 1080/50i, 1080/60i are input.

- 1) Press ▲▼ to select [DIGITAL CINEMA REALITY].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [AUTO] | Automatically detects the input signal and performs cinema processing. | |
|-------------|--|--|
| [OFF] | Does not perform cinema processing. | |
| [30p FIXED] | During 480i or 1080/60i signal input | Desferons forced six one processing (0:0 milldown) |
| [25p FIXED] | During 576i or 1080/50i signal input | Performs forced cinema processing (2:2 pulldown). |

Note

- In [DIGITAL CINEMA REALITY], the picture quality will degrade when a signal other than the 2:2 pulldown is set as [25p FIXED] or [30p FIXED]. (Vertical resolution will degrade.)
- [DIGITAL CINEMA REALITY] cannot be set when [FRAME RESPONSE] is set to [FAST].

[BLANKING]

You can adjust the blanking width if there are noises at the edge of the screen or the image is slightly running out from the screen while an image from the VCR or other devices are projected.

- Press ▲▼ to select [BLANKING].
- 2) Press the <ENTER> button.
 - The [BLANKING] adjustment screen is displayed.
- 3) Press ▲▼ to select [UPPER], [LOWER], [LEFT], or [RIGHT].
 - When [CUSTOM MASKING] is set to anything other than [OFF] ([PC-1], [PC-2], or [PC-3]), the blanking
 width can be adjusted to any shape using the computer. Up to three blanking settings adjusted using the
 computer can be saved.

To use the [CUSTOM MASKING] function, the optional Upgrade Kit (Model No.: ET-UK20) is required. To purchase the product, consult your dealer.

4) Press **♦** to adjust the blanking width.

| Blanking correction | Item | Operation | Adjus | tment | Range of adjustment |
|----------------------|---------|------------------|-----------------------------------|-------|------------------------------------|
| | | Press ◀ . | The blanking zone moves upward. | | |
| Top of the screen | [UPPER] | Press ▶. | The blanking zone moves downward. | | PT-RZ12K: Top to bottom 0 - 599 |
| | | Press ▶. | The blanking zone moves upward. | 0/0 | PT-RS11K: Top to bottom 0 - 524 |
| Bottom of the screen | [LOWER] | Press ◀ . | The blanking zone moves downward. | | |

Chapter 4 Settings — [ADVANCED MENU] menu

| Blanking correction | Item | Operation | Adjus | tment | Range of adjustment |
|--------------------------|---------|------------------|---------------------------------------|-------|------------------------------------|
| | | Press ▶. | The blanking zone moves to the right. | | |
| Left side of the screen | [LEFT] | Press ◀ . | The blanking zone moves to the left. | | PT-RZ12K: Left to right 0 - 959 |
| | | Press ◀ . | The blanking zone moves to the right. | | PT-RS11K: Left to right 0 - 699 |
| Right side of the screen | [RIGHT] | Press ▶. | The blanking zone moves to the left. | | |

[INPUT RESOLUTION]

You can adjust to achieve an optimal image when there is a flickering image or smeared outlines.

- 1) Press ▲▼ to select [INPUT RESOLUTION].
- 2) Press the <ENTER> button.
 - The [INPUT RESOLUTION] screen is displayed.
- 3) Press ▲▼ to select [TOTAL DOTS], [DISPLAY DOTS], [TOTAL LINES], or [DISPLAY LINES], and press ◆▶ to adjust each item.
 - Values corresponding to the signal being input are displayed automatically for each item. Increase or decrease the displayed values and adjust to the optimal point viewing the screen when there are vertical stripes or sections are missing from the screen.

Note

- · Previously mentioned vertical banding will not occur with all white signal input.
- The image may be disrupted while performing the adjustment, but it is not a malfunction.
- [INPUT RESOLUTION] can be adjusted only when an RGB signal is input to the <RGB 1 IN> terminal or the <RGB 2 IN> terminal.
- Some signals may not be adjusted.

[CLAMP POSITION]

You can adjust the optimal point when the black part of the image is blunt or it has turned green.

- 1) Press ▲▼ to select [CLAMP POSITION].
- 2) Press **♦** to adjust.

| Status | Rough guide for optimal value | Range of adjustment |
|--------------------------|--|---------------------|
| The black part is blunt. | The point where bluntness of the black part improves the most is the optimal value. | 4 055 |
| The black part is green. | The point where the green part becomes black, and the bluntness has improved is the optimal value. | 1 - 255 |

Note

- [CLAMP POSITION] can be adjusted only when a signal is input to the <RGB 1 IN> terminal or the <RGB 2 IN> terminal.
- Adjustment is not available depending on the signal.

[EDGE BLENDING]

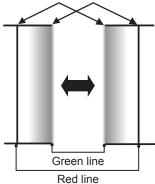
The edge blending function allows multiple projector images to be seamlessly overlapped by using the inclination of the brightness at the overlapped area.

- 1) Press ▲▼ to select [EDGE BLENDING].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Sets the edge blending function to off. |
|--------|---|
| [ON] | Use the setting value preset in the projector for the inclination of the edge blending area. |
| [USER] | Use the user-setting value for the inclination of the edge blending area. (Configuration/registration requires separate software. Consult your dealer.) |

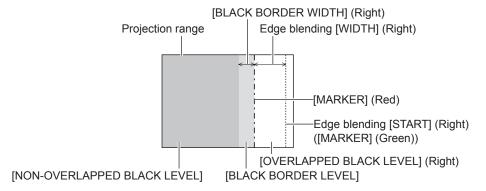
- To adjust edge blending, proceed to Step 3).
- 3) When [ON] or [USER] is selected, press the <ENTER> button.
 - The [EDGE BLENDING] screen is displayed.
- 4) Press ▲▼ to specify the location to be corrected.
 - When joining at top: Set [UPPER] to [ON]
 - When joining at bottom: Set [LOWER] to [ON]
 - When joining at left: Set [LEFT] to [ON]
 - When joining at right: Set [RIGHT] to [ON]
- 5) Press **♦** to switch to [ON].
- 6) Press ▲▼ to select [START] or [WIDTH].
- 7) Press **♦** to adjust the starting position or correction width.
- 8) Press ▲▼ to select [MARKER].
- 9) Press **♦** to switch to [ON].
 - A marker for image position adjustment is displayed. The position where the red and green lines overlap for the projectors to be joined will be the optimal point. Make sure to set the correction width for the projectors to be joined with the same value. Optimal joining is not possible with projectors that have different correction widths.

The optimal point is the point at which these lines overlap.



- 10) Press ▲▼ to select [BRIGHTNESS ADJUST].
- 11) Press the <ENTER> button.
 - The [BRIGHTNESS ADJUST] screen is displayed.
 - By setting [AUTO TESTPATTERN] to [ON] on the [EDGE BLENDING] screen, the black test pattern is displayed when you enter the [BRIGHTNESS ADJUST] screen.
- 12) Press ▲▼ to select [NON-OVERLAPPED BLACK LEVEL].
- 13) Press the <ENTER> button.
 - The [NON-OVERLAPPED BLACK LEVEL] screen is displayed.
 - [RED], [GREEN], and [BLUE] can be adjusted individually if [INTERLOCKED] is set to [OFF].

- 14) Press ▲▼ to select an item, and press ◀▶ to adjust the setting.
 - Once the adjustment is completed, press the <MENU> button to return to the [BRIGHTNESS ADJUST] screen.
- 15) Press ▲▼ to select [UPPER], [LOWER], [LEFT], or [RIGHT] in [BLACK BORDER WIDTH].
- 16) Press **♦** to set the region (width) of the [BLACK BORDER WIDTH] adjustment.
- 17) Press ▲▼ to select [UPPER KEYSTONE AREA], [LOWER KEYSTONE AREA], [LEFT KEYSTONE AREA], or [RIGHT KEYSTONE AREA].
- 18) Press **♦** to adjust the tilt of the border between [NON-OVERLAPPED BLACK LEVEL] and [BLACK BORDER LEVEL].
- 19) Press ▲▼ to select [BLACK BORDER LEVEL].
- 20) Press the <ENTER> button.
 - The [BLACK BORDER LEVEL] screen is displayed.
 - [RED], [GREEN], and [BLUE] can be adjusted individually if [INTERLOCKED] is set to [OFF].
- 21) Press ▲▼ to select an item, and press ◀▶ to adjust the setting.
 - Once the adjustment is completed, press the <MENU> button to return to the [BLACK BORDER LEVEL] screen.
- 22) Press ▲▼ to select [UPPER], [LOWER], [LEFT], or [RIGHT] for [OVERLAPPED BLACK LEVEL].
- 23) Press the <ENTER> button.
 - The [OVERLAPPED BLACK LEVEL] screen is displayed.
 - [RED], [GREEN], and [BLUE] can be adjusted individually if [INTERLOCKED] is set to [OFF].
- 24) Press ▲▼ to select an item, and press ◀▶ to adjust the setting.



Note

- [BRIGHTNESS ADJUST] is a function that makes the increased brightness in black level of the overlapping image area difficult to notice when [EDGE BLENDING] is used to configure multiple screens. The optimal point of correction is set by adjusting [NON-OVERLAPPED BLACK LEVEL] so the black level of the overlapping image area will be the same level as the non-overlapping area. If the border area of the part where the image is overlapping and the non-overlapping part gets brighter after adjusting [NON-OVERLAPPED BLACK LEVEL], adjust the width of the top, bottom, left, or right. Adjust [BLACK BORDER LEVEL] when the width adjustment makes only the border area darker.
- The joining part may look discontinuous depending on the position you are looking from when a screen with high gain or rear screen is used.
- When configuring multiple screens using both horizontal and vertical edge blending, adjust [OVERLAPPED BLACK LEVEL] first before
 making adjustments in Step 12). Adjustment method is same as the procedure of [NON-OVERLAPPED BLACK LEVEL].
- If only horizontal or vertical edge blending is used, set all items in [OVERLAPPED BLACK LEVEL] to 0.
- The [AUTO TESTPATTERN] setting changes synchronizing with [AUTO TESTPATTERN] of [COLOR MATCHING].
- Adjustment of the tilt of the border between [NON-OVERLAPPED BLACK LEVEL] and [BLACK BORDER LEVEL] is a function to perform
 the adjustment of [GEOMETRY] (**) page 92) together with the edge blending. If [NON-OVERLAPPED BLACK LEVEL] is tilted by
 correcting the keystone from [KEYSTONE] in [GEOMETRY], perform Steps 17) and 18) to adjust the edge blending according to the shape
 of [NON-OVERLAPPED BLACK LEVEL].

[FRAME RESPONSE]

Set image frame delay.

1) Press ▲▼ to select [FRAME RESPONSE].

2) Press **♦** to switch the item.

• The items will switch each time you press the button.

| [NORMAL] | Standard setting. |
|-----------|--|
| [FAST]*1 | Simplifies the image processing to reduce image frame delay. |
| [FIXED]*2 | Sets image frame delay to be constant regardless of the image position or magnification. |

- *1 When input signals are other than interlaced signals. [FAST] cannot be set.
- *2 Only when moving image signals and still image signals with the vertical scanning frequency of 50 Hz or 60 Hz are input

Note

- [DIGITAL CINEMA REALITY] cannot be set when [FRAME RESPONSE] is set to [FAST].
- [FRAME RESPONSE] cannot be set during P IN P.

[FRAME CREATION]

Set the amount of image frame interpolation.

The image with fast movement can be displayed more smoothly by automatically generating the intermediate frame from the previous and next frame.

1) Press ▲▼ to select [FRAME CREATION].

2) Press **♦** to switch the item.

• The items will switch each time you press the button.

| [OFF] | Disables the frame creation function. |
|-------|--|
| [1] | Sets the amount of interpolation weaker. |
| [2] | Sets the amount of interpolation midway. (Factory default) |
| [3] | Sets the amount of interpolation stronger. |

Note

- The effect may be difficult to notice depending on the image.
- Switch the setting when the image looks unnatural due to delay of image or generation of noise.
- [FRAME CREATION] is disabled and cannot be selected when [FRAME RESPONSE] is set to [FAST].
- [FRAME CREATION] is disabled and cannot be selected when the [3D SETTINGS] menu → [3D SYSTEM SETTING] (→ page 102) is set to [DUAL (LEFT)] or [DUAL (RIGHT)].
- [FRAME CREATION] is disabled and cannot be selected when the [3D SETTINGS] menu → [3D INPUT FORMAT] (♣ page 103) is set to [AUTO], [SIMULTANEOUS], [SIDE BY SIDE], [TOP AND BOTTOM], [LINE BY LINE], or [FRAME SEQUENTIAL]. In [AUTO], however, this only occurs when 3D format can be recognized.
- The [FRAME CREATION] setting will be disabled and cannot be selected when the [DISPLAY OPTION] menu → [SIMUL INPUT SETTING]
 (⇒ page 111) is set to [AUTO(3D)] or [AUTO(2D)] and the image in simultaneous format is displayed.
- This function is disabled when the internal test pattern or [3D TEST PATTERN] is displayed.

[FRAME LOCK]

Set this function to display the image in 3D when the vertical scanning frequency of the signal is 25 Hz, 50 Hz, and 100 Hz.

1) Press ▲▼ to select [FRAME LOCK].

2) Press ◆▶ to switch the item.

• The items will switch each time you press the button.

| [OFF] | Decreases the flickering of the displayed image. |
|-------|--|
| [ON] | Synchronizes the displayed image to the vertical scanning frequency of the input signal. |

Note

- [FRAME LOCK] is not displayed when a signal with the vertical scanning frequency other than the above is input or 2D images are displayed.
- The image may flicker when [FRAME LOCK] is set to [ON].
- The displayed image may look discontinuous when [FRAME LOCK] is set to [OFF].

[RASTER POSITION]

This will allow the position of the image to move within the display area arbitrarily when the input image is not using the whole display area.

- 1) Press ▲▼ to select [RASTER POSITION].
- 2) Press the <ENTER> button.
 - The **[RASTER POSITION]** screen is displayed.
- 3) Press ▲▼◀▶ to adjust the position.

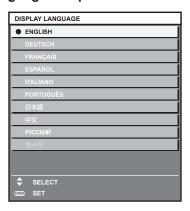
[DISPLAY LANGUAGE] menu

On the menu screen, select [DISPLAY LANGUAGE] from the main menu, and display the sub-menu. Refer to "Navigating through the menu" (▶ page 76) for the operation of the menu screen.

Changing the display language

You can select the language of the on-screen display.

1) Press ▲▼ to select the display language and press the <ENTER> button.



- Various menus, settings, adjustment screens, control button names, etc., are displayed in the selected language.
- The language can be changed to English, German, French, Spanish, Italian, Portuguese, Japanese, Chinese, Russian, or Korean.

Note

 The on-screen display language of the projector is set to English by default as well as when [ALL USER DATA] (→ page 144) in [INITIALIZE] is executed.

[3D SETTINGS] menu

On the menu screen, select [3D SETTINGS] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (→ page 76) for the operation of the menu screen.

[3D SYSTEM SETTING]

Set the image display method to be used during 3D signal input, according to the 3D system in use.

- Press ▲▼ to select [3D SYSTEM SETTING].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [SINGLE] | During 3D signal input, images for the left eye and right eye are alternately displayed using the frame sequential format. |
|----------------|--|
| [DUAL (LEFT)] | Only images for the left eye are displayed during 3D signal input. |
| [DUAL (RIGHT)] | Only images for the right eye are displayed during 3D signal input. |

Note

When 2D images are input, 2D images are displayed regardless of the [3D SYSTEM SETTING] settings.

[3D SYNC SETTING]

Set the way in which the <3D SYNC 1 IN/OUT> terminal and the <3D SYNC 2 OUT> terminal will be used.

Attention

- Before connecting external devices to the <3D SYNC 1 IN/OUT> terminal and the <3D SYNC 2 OUT> terminal using cables, complete the [3D SYNC MODE] setting and confirm that the external devices to be connected are turned off.
- Changing the [3D SYNC MODE] setting while the cables are connected may result in malfunctions of the projector or the connected external
 devices.
- Press ▲▼ to select [3D SYNC SETTING].
- 2) Press the <ENTER> button.
 - The precaution message related to [3D SYNC SETTING] is displayed.
- 3) Press the <ENTER> button.
 - The [3D SYNC SETTING] screen is displayed.
- 4) Press ▲▼ to select [3D SYNC MODE].
- Press ◀▶ to switch the item.

| [3D SYNC MODE] | Details to be set in [3D SYNC1] | Details to be set in [3D SYNC2] |
|----------------|---------------------------------|---------------------------------|
| [OFF] | Not used. | Not used. |
| [1] | 3D trigger output | Stereo synch output |
| [2] | 3D trigger output | 3D trigger output |
| [3] | Stereo synch input | Through 3D SYNC1 |
| [4] | Stereo synch input | Stereo synch output |
| [5] | Stereo synch input | 3D trigger output |
| [6] | Frame synch input | Through 3D SYNC1 |
| [7] | Frame synch input | Stereo synch output |
| [8] | Frame synch input | 3D trigger output |
| [9] | 3D trigger output | Frame synch output |
| [10] | Stereo synch output | Frame synch output |
| [11] | 3D IR TRANSMITTER (+) output | 3D IR TRANSMITTER (-) output |

6) When [1], [4], [7], or [10] is selected, press ▲▼ to select [STEREO SYNC OUTPUT DELAY], and press ◆▶ to set the amount of delay for output.

| [0us] - [25000us] | Sets the amount in 10 us increments. |
|-------------------|--------------------------------------|

To synchronize multiple projectors to display 3D images, use a frame synch input and output.
 Select [9] or [10] for the first projector.

Select [6], [7], or [8] for the second and subsequent projectors.

- Stereo synchronization is a signal having a 50 % duty cycle where High is for the left eye and Low is for the right eye.
- "H" is output to the 3D image display and "L" is output to the 2D image display from the terminal for which 3D trigger output is selected.

Note

[11] in [3D SYNC MODE] is the setting when the 3D IR transmitter TY-3DTRW of Panasonic (production discontinued) is used with the
projector. Consult your dealer regarding the connection method.

[3D INPUT FORMAT]

Set the 3D format for the image signals being input. Set a 3D format that matches the input signal.

- 1) Press ▲▼ to select [3D INPUT FORMAT].
- 2) Press the <ENTER> button.
 - The [3D INPUT FORMAT] screen is displayed.
- 3) Press ▲▼ to select a 3D format.

| [AUTO]*1 | Automatically detects 3D format of input image signals to display images. |
|----------------------|---|
| [NATIVE] | Forcibly displays 2D images regardless of input image signals. |
| [SIMULTANEOUS]*2 | Forcibly displays 3D images in simultaneous format regardless of input video signals. |
| [SIDE BY SIDE] | Forcibly displays 3D images in side by side format regardless of input image signals. |
| [TOP AND BOTTOM] | Forcibly displays 3D images in top and bottom format regardless of input image signals. |
| [LINE BY LINE]*3 | Forcibly displays 3D images in line by line format regardless of input video signals. |
| [FRAME SEQUENTIAL]*4 | Forcibly displays 3D images in frame sequential format regardless of input image signals. |

- *1 Only during DVI-D or HDMI input
- *2 Only during 3G-SDI level B input
- *3 Only while signals other than interlaced signals are input
- *4 Only while progressive signals with the vertical scanning frequency of 100 Hz or 120 Hz are input to the <RGB1>/<RGB2>/<DVI-D> terminals

Press the <ENTER> button.

Note

- When [AUTO], [SIMULTANEOUS], [SIDE BY SIDE], [TOP AND BOTTOM], [LINE BY LINE], or [FRAME SEQUENTIAL] is set, 3D images
 are not displayed with the [DISPLAY OPTION] menu → [SIMUL INPUT SETTING]. In [AUTO], however, this only occurs when 3D format
 can be recognized.
- This may not function properly for some connected external devices.

[LEFT/RIGHT SWAP]

Display images by inverting the timing when the left and right images are swapped. Change the setting when there is something wrong with the 3D image being viewed.

- 1) Press ▲▼ to select [LEFT/RIGHT SWAP].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [NORMAL] | Do not change the [NORMAL] setting if the 3D images are displayed correctly. | |
|-----------|--|--|
| [SWAPPED] | Select this item when left and right 3D images are swapped to be displayed. | |

Note

• This function is disabled when [3D SYSTEM SETTING] is set to anything other than [SINGLE].

[3D COLOR MATCHING]

Switch the color matching correction data applied to displayed image.

- Press ▲▼ to select [3D COLOR MATCHING].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

Chapter 4 Settings — [3D SETTINGS] menu

| [SHARED 2D/3D] | Uses same correction data for 2D signal and 3D signal. | |
|------------------|---|--|
| [SEPARATE 2D/3D] | Uses different correction data for 2D signal and 3D signal. | |

Note

Switch the setting of [COLOR MATCHING] (→ page 107) while the signal to be adjusted is being input.

[3D PICTURE BALANCE]

Correct the difference when the images for left eye and right eye have different brightness or color.

- Press ▲▼ to select [3D PICTURE BALANCE].
- 2) Press the <ENTER> button.
 - The [3D PICTURE BALANCE] screen is displayed.
- 3) Press ▲▼ to select an item, and press ◀▶ to adjust the setting.
 - Using the left eye image as a reference, the right eye image is corrected using the set value.
 - For [3D WAVEFORM MONITOR], the images for the left eye and right eye are split horizontally on the left and right, and waveforms are displayed.

| [CONTRAST] | Adjusts the contrast of colors. | |
|-------------------------------|---|---|
| [WHITE BALANCE HIGH RED] | Adjusts the red color of the white balance high. | |
| [WHITE BALANCE HIGH GREEN] | Adjusts the green colo | r of the white balance high. |
| [WHITE BALANCE HIGH BLUE] | Adjusts the blue color of the white balance high. | |
| [BRIGHTNESS] | Adjusts the dark (black) part of the projected image. | |
| [WHITE BALANCE LOW RED] | Adjusts the red color of the white balance low. | |
| [WHITE BALANCE LOW GREEN] | Adjusts the green color of the white balance low. | |
| [WHITE BALANCE LOW BLUE] | Adjusts the blue color of the white balance low. | |
| [COLOR] | Adjusts the color saturation. | |
| [TINT] | Adjusts the skin tone in the projected image. | |
| [CLOCK PHASE] | Adjusts the image when there is flickering in the image or blur of the outline. | |
| [3D WAVEFORM MONITOR] | [OFF] | Does not display the 3D waveform monitor. |
| | [ON] | Displays the 3D waveform monitor. |

Note

- The [CLOCK PHASE] setting is enabled during simultaneous input of RGB1 and RGB2, and is adjusted against the right eye image.
- This function is disabled when [3D SYSTEM SETTING] is set to anything other than [SINGLE].
- This function is disabled when [3D TEST PATTERN] is displayed.
- This function is disabled when [3D TEST MODE] is set to anything other than [NORMAL].
- The 3D waveform monitor is displayed only when the [3D PICTURE BALANCE] screen is displayed.
- The normal waveform monitor cannot be displayed when the 3D image is displayed.

IDARK TIME SETTING

Set the black display period that is displayed between the right eye image and the left eye image to match the 3D system in use.

- Press ▲▼ to select [DARK TIME SETTING].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [0.5ms] | |
|---------|--|
| [1.0ms] | |
| [1.5ms] | Sate an item as that 3D setting is made correctly |
| [2.0ms] | Sets an item so that 3D setting is made correctly. |
| [2.5ms] | |
| [2.7ms] | |

Note

- This function is disabled when [3D SYSTEM SETTING] is set to anything other than [SINGLE].
- The crosstalk may get larger or the displayed image may get darker when the setting does not match with the 3D system in use.

[3D FRAME DELAY]

Adjust the timing of the left-right switch of an image.

- Press ▲▼ to select [3D FRAME DELAY].
- Press ◀▶ to switch the item.

| [0us] - [25000us] | Sets the amount in 10 us increments. |
|-------------------|--------------------------------------|

• The adjustment range depends on the input signal.

[3D TEST MODE]

Set the image display mode for use with 3D system adjustments.

- 1) Press ▲▼ to select [3D TEST MODE].
- 2) Press **♦** to switch the item.

| [NORMAL] | Normal setting. |
|---------------|--|
| [LEFT/LEFT] | Displays the image of the left eye input signal for both the left and right eye image. |
| [RIGHT/RIGHT] | Displays the image of the right eye input signal for both the left and right eye images. |
| [LEFT/BLACK] | Displays the image of the left eye input signal for the left eye image, and all black images for the right eye image. |
| [BLACK/RIGHT] | Displays all black images for the left eye image, and the image of the right eye input signal for the right eye image. |

Note

- The [3D TEST MODE] setting returns to [NORMAL] when the projector is switched off.
- This function is disabled when [3D SYSTEM SETTING] is set to anything other than [SINGLE].
- This function is disabled when [3D TEST PATTERN] is displayed.

[3D TEST PATTERN]

The 3D test pattern can be used to check operation and make adjustments even without a 3D signal.

- Press ▲▼ to select [3D TEST PATTERN].
- Press ◀▶ to switch the item.

| Menu screen + input screen | |
|----------------------------|---|
| Menu screen + left: white/ | |
| right: black | Select a test pattern that is easy to check operation or make adjustment. |
| Menu screen + left: black/ | |
| right: white | |

Note

- When the [DISPLAY OPTION] menu → [RGB IN] → [RGB1 INPUT SETTING] (→ page 112) is set to [VIDEO] or [Y/C], the 3D test pattern
 cannot be displayed while the <RGB 1 IN> terminal is selected.
- This function is disabled when [3D SYSTEM SETTING] is set to anything other than [SINGLE].

[SAFETY PRECAUTIONS MESSAGE]

Set to show or hide the safety precautions message related to 3D viewing when the projector is switched on.

- 1) Press ▲▼ to select [SAFETY PRECAUTIONS MESSAGE].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [ON] | Shows the safety precautions message related to 3D viewing when the projector is switched on. | |
|-------|---|--|
| [OFF] | Hides the safety precautions message related to 3D viewing when the projector is switched on. | |

Note

- If [OFF] is set, the safety precautions message related to 3D viewing is not displayed when the projector is switched on.
- A confirmation screen is displayed when switched from [ON] to [OFF]. Press ◀▶ to select [OK], and press the <ENTER> button to change
 the setting to [OFF].

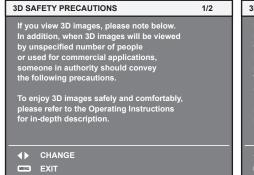
Attention

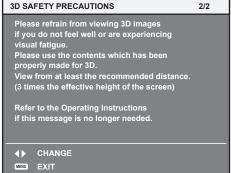
 If 3D images are viewed by unspecified number of people for commercial use, display the safety precautions message related to 3D viewing to notify viewers.

[3D SAFETY PRECAUTIONS]

Show the safety precautions message related to 3D viewing.

- 1) Press ▲▼ to select [3D SAFETY PRECAUTIONS].
- 2) Press the <ENTER> button.
 - The [3D SAFETY PRECAUTIONS] screen is displayed.
 - Press ◀▶ to switch the page.





[DISPLAY OPTION] menu

On the menu screen, select [DISPLAY OPTION] from the main menu, and select an item from the submenu.

Refer to "Navigating through the menu" (→ page 76) for the operation of the menu screen.

[COLOR MATCHING]

Correct the color difference between projectors when using multiple projectors simultaneously.

Adjusting the color matching as desired

- 1) Press ▲▼ to select [COLOR MATCHING].
- 2) Press ◆▶ to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Color matching adjustment is not carried out. | |
|------------|---|--|
| [3COLORS] | Adjusts the three colors [RED], [GREEN], or [BLUE]. | |
| [7COLORS] | Adjusts the seven colors [RED], [GREEN], [BLUE], [CYAN], [MAGENTA], [YELLOW], or [WHITE]. | |
| [709MODE] | D (1 "A I' I' II I I I I I I I I I I I I I I I | |
| [MEASURED] | Refer to "Adjusting the color matching using a colorimeter" (→ page 107) for details about this mode. | |

- 3) Select [3COLORS] or [7COLORS], and press the <ENTER> button.
 - The [3COLORS] or [7COLORS] screen is displayed.
- 4) Press ▲▼ to select [RED], [GREEN], or [BLUE] ([RED], [GREEN], [BLUE], [CYAN], [MAGENTA], [YELLOW], or [WHITE] for [7COLORS]).
- 5) Press the <ENTER> button.
 - The [3COLORS:RED], [3COLORS:GREEN], or [3COLORS:BLUE] screen is displayed.
 For [7COLORS], the [7COLORS:RED], [7COLORS:GREEN], [7COLORS:BLUE], [7COLORS:CYAN],
 [7COLORS:MAGENTA], [7COLORS:YELLOW], or [7COLORS:WHITE] screen is displayed.
 - By setting [AUTO TESTPATTERN] to [ON], the test pattern for the selected color is displayed.
- 6) Press ▲▼ to select [RED], [GREEN], or [BLUE].
- 7) Press **♦** to adjust.
 - The adjustment value changes between 0 and 2 048.

Note

- · Operation when correcting the adjustment color
 - When the correction color same as the adjustment color is changed: The luminance of the adjustment color changes.
 - When correction color red is changed: Red is added to or subtracted from the adjustment color.
 - When correction color green is changed: Green is added to or subtracted from the adjustment color.
 - When correction color blue is changed: Blue is added to or subtracted from the adjustment color.
- Since advanced skills are necessary for the adjustment, this adjustment should be carried out by a person who is familiar with the projector
 or by a service person.
- Pressing the <DEFAULT> button on the remote control will restore the factory default settings for all items.
- When [COLOR MATCHING] is set to other than [OFF], [COLOR TEMPERATURE] is fixed to [USER1].
- By setting [3D COLOR MATCHING] (→ page 103), you can set whether to configure separate settings for 2D signal and 3D signal, or to
 use common data.
- Either [NATIVE] or [3D] is displayed at the top right of the menu when separate settings are used for 2D signal and 3D signal.

Adjusting the color matching using a colorimeter

Use a colorimeter that can measure chromaticity coordinates and luminance to change the colors [RED], [GREEN], [BLUE], [CYAN], [MAGENTA], [YELLOW], or [WHITE] to desired colors.

- 1) Press ▲▼ to select [COLOR MATCHING].
- 2) Press **♦** to select [709MODE] or [MEASURED].
- 3) Press the <ENTER> button.
 - The [709MODE] or [MEASURED MODE] screen is displayed.

- Press ▲▼ to select [MEASURED DATA].
- 5) Press the <ENTER> button.
 - The [MEASURED DATA] screen is displayed.
- Measure the current luminance (Y) and the chromaticity coordinates (x, y) using the colorimeter.
- 7) Press ▲▼ to select a color, and press ◀▶ to adjust the setting.
 - Set [AUTO TESTPATTERN] to [ON] to display a test pattern of selected colors.
- 8) Once all the input is completed, press the <MENU> button.
 - The [709MODE] or [MEASURED MODE] screen is displayed.
 - When [MEASURED] is selected in Step 2), proceed to Step 9) and enter the coordinates of desired colors.
- 9) Press ▲▼ to select [TARGET DATA].
- 10) Press the <ENTER> button.
 - The [TARGET DATA] screen is displayed.
- 11) Press ▲▼ to select a color and press ◀▶ to input coordinates for desired colors.
 - By setting [AUTO TESTPATTERN] to [ON], the test pattern for the selected color is displayed.
- 12) Once all the input is completed, press the <MENU> button.

Note

- When [709MODE] is selected in [COLOR MATCHING], the ITU-R BT.709 standard three primary colors are set as target data.
- Colors are not displayed properly when target data is a color outside the region of this projector.
- The [709MODE] may differ slightly from the ITU-R BT.709 standard colors.
- Set the [AUTO TESTPATTERN] to [ON] to automatically display a test pattern for use in adjusting the selected adjustment colors.
- Before using a colorimeter or similar instrument to measure measurement data, set [PICTURE MODE] to [DYNAMIC].
- A difference in the color coordinates of target data and measurement values obtained from an instrument may occur for certain instruments and measurement environments used.
- [AUTO TESTPATTERN] settings change together with the [AUTO TESTPATTERN] of [EDGE BLENDING].

[LARGE SCREEN CORRECTION]

Corrects the phenomenon in which colors that appear lighter when viewed on a large screen viewed from a close distance compared to when viewed on an average screen size so that colors appear the same.

- Press ▲▼ to select [LARGE SCREEN CORRECTION].
- 2) Press **♦** to switch the item.

| [OFF] | Performs no correction. | |
|-------|-----------------------------|--|
| [1] | Performs weak correction. | |
| [2] | Performs strong correction. | |

ISCREEN SETTING

Set the screen size.

Correct to the optimum image position for the set screen when the aspect ratio of a projected image is changed. Set as necessary for the screen in use.

- Press ▲▼ to select [SCREEN SETTING].
- 2) Press the <ENTER> button.
 - The [SCREEN SETTING] screen is displayed.
- 3) Press **♦** to switch the [SCREEN FORMAT] item.
 - The items will switch each time you press the button.

| Model No. | [SCREEN FORMAT] | Range when [SCREEN POSITION] is selected |
|-----------|-----------------|---|
| | [16:10] | Cannot be adjusted. |
| PT-RZ12K | [4:3] | Adjusts the horizontal position between –160 and 160. |
| | [16:9] | Adjusts the vertical position between -60 and 60. |

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| Model No. | [SCREEN FORMAT] | Range when [SCREEN POSITION] is selected |
|-----------|-----------------|---|
| PT-RS11K | [4:3] | Cannot be adjusted. |
| | [16:9] | Adjusts the vertical position between –132 and 131. |

Press ▲▼ to select [SCREEN POSITION].

• [SCREEN POSITION] cannot be selected or adjusted when [SCREEN FORMAT] is set to the following item.

PT-RZ12K: [16:10] PT-RS11K: [4:3]

5) Press **♦** to adjust [SCREEN POSITION].

[AUTO SIGNAL]

Set whether to execute automatic setup of signals automatically.

The screen display position or signal level can be adjusted automatically without pressing the <AUTO SETUP> button on the remote control on each occasion if you input unregistered signals frequently at meetings, etc.

- 1) Press ▲▼ to select [AUTO SIGNAL].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Sets the auto signal function to off. |
|-------|---|
| [ON] | Executes automatic setup automatically when images are changed to unregistered signals during projection. |

[AUTO SETUP]

Set this when adjusting a special signal or horizontally long (such as 16:9) signal.

Setting with [MODE]

- Press ▲▼ to select [AUTO SETUP].
- 2) Press the <ENTER> button.
 - The [AUTO SETUP] screen is displayed.
- 3) Press ▲▼ to select [MODE].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [DEFAULT] | Standard setting. |
|-----------|---|
| [WIDE] | Select this item when an image aspect ratio is a wide-screen signal, which does not meet the [DEFAULT] setting. |
| [USER] | Select this item when receiving a signal with a special horizontal resolution (number of display dots). |

- When [DEFAULT] or [WIDE] is selected, proceed to Step 7).
- When [USER] is selected, proceed to Step 5).
- 5) Press ▲▼ to select [DISPLAY DOTS], and press ◀▶ to adjust [DISPLAY DOTS] to the horizontal resolution of the signal source.
- 6) Press ▲▼ to select [MODE].
- 7) Press the <ENTER> button.
 - Automatic adjustment is executed. [PROGRESS] is displayed while in automatic adjustment. When completed, the screen returns to the **[AUTO SETUP]** screen.

Adjusting position automatically

Press ▲▼ to select [AUTO SETUP].

- 2) Press the <ENTER> button.
 - The [AUTO SETUP] screen is displayed.
- 3) Press ▲▼ to select [POSITION ADJUST].
- 4) Press **♦** to switch the item.

| [ON] | Adjust the screen position and size when automatic setup is executed. |
|-------|---|
| [OFF] | Does not perform automatic adjustment. |

Adjusting signal level automatically

- Press ▲▼ to select [AUTO SETUP].
- 2) Press the <ENTER> button.
 - The [AUTO SETUP] screen is displayed.
- 3) Press ▲▼ to select [SIGNAL LEVEL ADJUST].
- 4) Press **♦** to switch the item.

| [OFF] | Does not perform automatic adjustment. |
|-------|---|
| [ON] | Adjusts black level (on-screen menu [BRIGHTNESS]) and white level (on-screen menu [CONTRAST]) when automatic setup is executed. |

Note

• [SIGNAL LEVEL ADJUST] may not function properly unless a still image containing clear blacks and whites is input.

[BACKUP INPUT SETTING]

Set the backup function that switches the signal to the backup input signal as seamless as possible when input signal is disrupted.

- Press ▲▼ to select [BACKUP INPUT SETTING].
- 2) Press the <ENTER> button.
 - The [BACKUP INPUT SETTING] screen is displayed.
- 3) Press ▲▼ to select [BACKUP INPUT MODE].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Disables the backup function. |
|-------|---|
| [1] | Enables the backup function between the DVI-D input and the HDMI input. The input is switched as seamless as possible when the same signal is input to the primary and secondary inputs. Primary input is fixed to the <dvi-d in=""> terminal, and the secondary input is fixed to the <hdmi in=""> terminal.</hdmi></dvi-d> |
| [2] | Enables the backup function between the SDI1 input and the SDI2 input. The input is switched as seamless as possible when the same signal is input to the primary and secondary inputs. Primary input is fixed to the <sdi 1="" in=""> terminal, and the secondary input is fixed to the <sdi 2="" in=""> terminal.</sdi></sdi> |

5) Press ▲▼ to select [AUTOMATIC SWITCHING].

- When [BACKUP INPUT MODE] is set to [OFF], [AUTOMATIC SWITCHING] cannot be selected.
- 6) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [ENABLE] | Switches to the secondary input automatically when the input signal for primary input is disrupted. |
|-----------|---|
| [DISABLE] | Disables the automatic input switching function. |

Note

- Backup function is enabled when [BACKUP INPUT MODE] is set to [1], and the same signal is input to the <DVI-D IN> and <HDMI IN> terminals.
 - Alternatively, the backup function is enabled when [BACKUP INPUT MODE] is set to [2], and same signal is input to the <SDI IN 1> terminal and the <SDI IN 2>.
- To switch to the backup input signal using the backup function, make sure that the following three conditions are satisfied to be ready to use
 the function.
 - Set [BACKUP INPUT MODE] to anything other than [OFF].
 - Input the same signal to the primary and secondary inputs.
 - Display the image of the primary input.
- If the input is switched to other than the primary or secondary input while the backup function is ready for use, the state of readiness to use the backup function is canceled. To switch to the backup input signal using the backup function again, switch to the primary input.
- [BACKUP INPUT STATUS] is displayed in the input guide (→ page 118) and [STATUS] screen (→ pages 73, 142) when [BACKUP INPUT MODE] is set to anything other than [OFF].

When switching to the backup input signal is possible using the backup function, [ACTIVE] is displayed in [BACKUP INPUT STATUS]. When it is not possible, [INACTIVE] is displayed instead.

When [BACKUP INPUT STATUS] is [ACTIVE] while the image of the primary input is displayed, the secondary input becomes the backup input.

When [BACKUP INPUT STATUS] is [ACTIVE] while the image of the secondary input is displayed, the primary input becomes the backup input.

- The input is switched seamlessly when the inputs of the DVI-D and the HDMI are switched while [BACKUP INPUT MODE] is set to [1] and switching to the backup input signal is possible.
- If [BACKUP INPUT MODE] is set to [2], the input is switched seamlessly when the inputs of SDI1 and SDI2 are switched while switching to
 the backup input signal is possible.
- When [AUTOMATIC SWITCHING] is set to [ENABLE], and [BACKUP INPUT STATUS] is [ACTIVE], the signal is switched to the backup
 input if the input signal is disrupted.
- When [AUTOMATIC SWITCHING] is set to [ENABLE] and the signal is automatically switched to the backup input due to disruption of the
 input signal, [BACKUP INPUT STATUS] changes to [INACTIVE]. In this case, switching to the backup input signal is not possible until the
 original input signal is restored. If the signal is automatically switched to the backup input, switching to the backup input signal becomes
 possible when the original input signal is restored. In this case, the current input is retained.
- [BACKUP INPUT SETTING] cannot be set during P IN P. The backup operation is not performed either.
- [BACKUP INPUT SETTING] cannot be set when the [DISPLAY OPTION] menu → [SIMUL INPUT SETTING] → [HDMI/DVI-D] or [SDI1/SDI2] is set to anything other than [OFF]. The backup operation is not performed either.
- [BACKUP INPUT SETTING] cannot be set when the [DISPLAY OPTION] menu → [SDI IN] → [SDI LINK] is set to [DUAL LINK] or [AUTO].
 The backup operation is not performed either.

ISIMUL INPUT SETTING

Set this function when the video signal in simultaneous format is input and used.

- Press ▲▼ to select [SIMUL INPUT SETTING].
- 2) Press the <ENTER> button.
 - The [SIMUL INPUT SETTING] screen is displayed.
- 3) Press ▲▼ button to select [RGB1/RGB2], [HDMI/DVI-D], or [SDI1/SDI2].
- 4) Press **♦** to switch the setting.
 - The items will switch each time you press the button.

| [OFF] | This is not used for simultaneous input. |
|--------------|--|
| [AUTO(3D)] | Displays 3D images of the simultaneous format. |
| [AUTO(2D)]*1 | Displays 2D image of the simultaneous format. |

^{*1} This can be set only when [SIMUL INPUT SETTING] is set to [HDMI/DVI-D] or [SDI1/SDI2].

Note

- If [AUTO(2D)] is set, 2D images are displayed when the same 2D compatible signals are entered to each input.
- If [AUTO(3D)] is set, 3D images are displayed when the same 3D compatible signals are entered to each input.
- [SIMUL INPUT SETTING] cannot be set during P IN P.
- [SIMUL INPUT SETTING] cannot be set when [BACKUP INPUT MODE] is set to anything other than [OFF].
- This may not function properly for some connected external devices.
- This may not function properly depending on the signal.
- Usage of each input signal is displayed in [RGB1] and [RGB2], in [HDMI] and [DVI-D], and in [SDI1] and [SDI2] of the [SIMUL INPUT SETTING] screen when [AUTO(3D)] or [AUTO(2D)] is set.

| [SIMUL INPUT SETTING] | Usage of the input signal | Details |
|-----------------------|---------------------------|--|
| [AUTO(3D)] | [LEFT INPUT] | Uses the signal for the corresponding input as a signal for the left eye image. |
| | [RIGHT INPUT] | Uses the signal for the corresponding input as a signal for the right eye image. |

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| [SIMUL INPUT SETTING] | Usage of the input signal | Details |
|-----------------------|---------------------------|---|
| [AUTO(2D)]*1 | [1st FRAME INPUT] | Uses the signal for the corresponding input as a signal for the odd frame. |
| | [2nd FRAME INPUT] | Uses the signal for the corresponding input as a signal for the even frame. |

^{*1} This can be set only when [SIMUL INPUT SETTING] is set to [HDMI/DVI-D] or [SDI1/SDI2].

[RGB IN]

Set to match the signal to input to the <RGB 1 IN> terminal.

Setting [RGB1 INPUT SETTING]

- 1) Press ▲▼ to select [RGB IN].
- 2) Press the <ENTER> button.
 - The [RGB IN] screen is displayed.
- 3) Press ▲▼ to select [RGB1 INPUT SETTING].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [RGB/YP _B P _R] | Select this item when an RGB signal or YC_BC_R/YP_BP_R signal is input to the <rgb 1="" in=""> terminal.</rgb> |
|---------------------------------------|--|
| [VIDEO] | Select this item when a video signal is input to the <rgb 1="" in=""> (<r p<sub="">R/VIDEO>) terminal.</r></rgb> |
| I IY/CI | Select this item when a luminance signal and color signal are input to the $<$ RGB 1 IN> ($<$ G/Y>, $<$ B/P _B /C>) terminal. |

Switching the slice level of an input sync signal

- 1) Press ▲▼ to select [RGB IN].
- 2) Press the <ENTER> button.
 - The [RGB IN] screen is displayed.
- 3) Press ▲▼ to select [RGB1 SYNC SLICE LEVEL] or [RGB2 SYNC SLICE LEVEL].
- 4) Press **♦** to switch the item.

| [LOW] | Sets the slice level to [LOW]. |
|--------|---------------------------------|
| [HIGH] | Sets the slice level to [HIGH]. |

Setting [RGB2 EDID MODE]

- 1) Press ▲▼ to select [RGB IN].
- 2) Press the <ENTER> button.
 - The [RGB IN] screen is displayed.
- 3) Press ▲▼ to select [RGB2 EDID MODE].
- 4) Press the <ENTER> button.
 - The [RGB2 EDID MODE] screen is displayed.
- 5) Press **♦** to switch [EDID MODE].
 - The items will switch each time you press the button.

| [DEFAULT] | Standard setting. |
|--------------|--|
| [SCREEN FIT] | Changes EDID data according to the [SCREEN FORMAT] setting. |
| [USER] | Sets the [RESOLUTION] and [VERTICAL SCAN FREQUENCY] items to EDID. |

When [DEFAULT] or [SCREEN FIT] is selected, proceed to Step 10).

- 6) Press the <ENTER> button.
 - The [RESOLUTION] screen is displayed.
- 7) Press ▲▼◀▶ to select [RESOLUTION].
 - Select [1024x768p], [1280x720p], [1280x768p], [1280x800p], [1280x1024p], [1366x768p], [1400x1050p], [1440x900p], [1600x900p], [1600x1200p], [1680x1050p], [1920x1080p], [1920x1080i], or [1920x1200p].
- 8) Press the <ENTER> button.
 - The [VERTICAL SCAN FREQUENCY] screen is displayed.
- 9) Press **♦** to select [VERTICAL SCAN FREQUENCY].
 - Select [60Hz], [50Hz], [30Hz], [25Hz], or [24Hz] when [1920x1080p] is selected for [RESOLUTION].
 - Select [60Hz], [50Hz], or [48Hz] when [1920x1080i] is selected for [RESOLUTION].
 - Select [60Hz] or [50Hz] when anything other than [1920x1080p] or [1920x1080i] is selected for [RESOLUTION].
- 10) Press the <ENTER> button.
 - The confirmation screen is displayed.
- 11) Press **♦** to select [OK], and press the **<ENTER>** button.

Note

- The setting details are displayed in [RESOLUTION] and [VERTICAL SCAN FREQUENCY] of [EDID STATUS].
- The resolution and vertical scanning frequency settings may also be required on your computer or video device.
- · After configuring settings, your computer or video device or the projector may be required to be turned off and on.
- A signal may not be output with the resolution and vertical scanning frequency that have been set, depending on your computer or video device.

[DVI-D IN]

Switch the setting when the external device is connected to the <DVI-D IN> terminal of the projector and the image is not projected correctly.

- Press ▲▼ to select [DVI-D IN].
- 2) Press the <ENTER> button.
 - The [DVI-D IN] screen is displayed.
- 3) Press ▲▼ to select [EDID SELECT].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [EDID3] | Recognizes movie-based video signals and still image signals automatically. |
|------------|--|
| [EDID1] | Select this item mainly when an external device that outputs movie-based video signals (such as a Blu-ray disc player) is connected to the <dvi-d in=""> terminal.</dvi-d> |
| [EDID2:PC] | Select this item mainly when an external device that outputs still image-based video signals (such as a computer) is connected to the <dvi-d in=""> terminal.</dvi-d> |

- 5) Press ▲▼ to select [SIGNAL LEVEL].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [AUTO] | Automatically sets the signal level. |
|------------|--|
| [0-255:PC] | Select this item when the signal output from the DVI-D terminal of an external device (such as a computer) is input to the <dvi-d in=""> terminal.</dvi-d> |
| [16-235] | Select this item when the signal output from the HDMI terminal of an external device (Blu-ray disc player, etc.) is input to the <dvi-d in=""> terminal using a conversion cable, etc.</dvi-d> |

Note

- The optimal setting varies depending on the output setting of the connected external device. Refer to the operating instructions of the external device regarding the output of the external device.
- The data for Plug and play will change when the setting is changed. Refer to "List of compatible signals" (→ page 206) for a resolution that supports plug and play.

Setting [EDID MODE]

- Press ▲▼ to select [DVI-D IN].
- 2) Press the <ENTER> button.
 - The [DVI-D IN] screen is displayed.
- 3) Press ▲▼ to select [EDID MODE].
- 4) Press the <ENTER> button.
 - The [DVI-D EDID MODE] screen is displayed.
- 5) Press **♦** to switch [EDID MODE].
 - The items will switch each time you press the button.

| [DEFAULT] | Standard setting. |
|--------------|--|
| [SCREEN FIT] | Changes EDID data according to the [SCREEN FORMAT] setting. |
| [USER] | Sets the [RESOLUTION] and [VERTICAL SCAN FREQUENCY] items to EDID. |

- When [DEFAULT] or [SCREEN FIT] is selected, proceed to Step 10).
- 6) Press the <ENTER> button.
 - The [RESOLUTION] screen is displayed.
- 7) Press ▲▼◀▶ to select [RESOLUTION].
 - Select [1024x768p], [1280x720p], [1280x768p], [1280x800p], [1280x1024p], [1366x768p], [1400x1050p], [1440x900p], [1600x900p], [1600x1200p], [1680x1050p], [1920x1080p], [1920x1080i], or [1920x1200p].
- 8) Press the <ENTER> button.
 - The [VERTICAL SCAN FREQUENCY] screen is displayed.
- 9) Press **♦** to select [VERTICAL SCAN FREQUENCY].
 - Select [60Hz], [50Hz], [30Hz], [25Hz], or [24Hz] when [1920x1080p] is selected for [RESOLUTION].
 - Select [60Hz], [50Hz], or [48Hz] when [1920x1080i] is selected for [RESOLUTION].
 - Select [60Hz] or [50Hz] when anything other than [1920x1080p] or [1920x1080i] is selected for [RESOLUTION].
- 10) Press the <ENTER> button.
 - The confirmation screen is displayed.
- 11) Press ◆▶ to select [OK], and press the <ENTER> button.

Note

- The setting details are displayed in [RESOLUTION] and [VERTICAL SCAN FREQUENCY] of [EDID STATUS].
- The resolution and vertical scanning frequency settings may also be required on your computer or video device.
- After configuring settings, your computer or video device or the projector may be required to be turned off and on.
- A signal may not be output with the resolution and vertical scanning frequency that have been set, depending on your computer or video device.

[HDMLIN]

Switch the setting when the external device is connected to the <HDMI IN> terminal of the projector and the image is not projected correctly.

- Press ▲▼ to select [HDMI IN].
- 2) Press the <ENTER> button.
 - The [HDMI IN] screen is displayed.
- 3) Press ▲▼ to select [SIGNAL LEVEL].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [AUTO] | Automatically sets the signal level. |
|--------|--------------------------------------|
|--------|--------------------------------------|

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| [64-940] | Select this item when the signal output from the HDMI terminal of an external device (such as a Bluray disc player) is input to the <hdmi in=""> terminal.</hdmi> |
|----------|---|
| [0-1023] | Select this item when the signal output from the DVI-D terminal of an external device (such as a computer) is input to the <hdmi in=""> terminal via a conversion cable or similar cable. Select this item also when the signal output from the HDMI terminal of a computer or other device is input to the <hdmi in=""> terminal.</hdmi></hdmi> |

Note

- The optimal setting varies depending on the output setting of the connected external device. Refer to the operating instructions of the
 external device regarding the output of the external device.
- . The HDMI signal level is displayed for 30 bits of input.

Setting [EDID MODE]

- Press ▲▼ to select [HDMI IN].
- 2) Press the <ENTER> button.
 - The [HDMI IN] screen is displayed.
- Press ▲▼ to select [EDID MODE].
- 4) Press the <ENTER> button.
 - The [HDMI EDID MODE] screen is displayed.
- 5) Press **♦** to switch [EDID MODE].
 - The items will switch each time you press the button.

| [DEFAULT] | Standard setting. |
|--------------|--|
| [SCREEN FIT] | Changes EDID data according to the [SCREEN FORMAT] setting. |
| [USER] | Sets the [RESOLUTION] and [VERTICAL SCAN FREQUENCY] items to EDID. |

- When [DEFAULT] or [SCREEN FIT] is selected, proceed to Step 10).
- 6) Press the <ENTER> button.
 - The [RESOLUTION] screen is displayed.
- 7) Press ▲▼◀▶ to select [RESOLUTION].
 - Select [1024x768p], [1280x720p], [1280x768p], [1280x800p], [1280x1024p], [1366x768p], [1400x1050p], [1440x900p], [1600x900p], [1600x1200p], [1680x1050p], [1920x1080p], [1920x1080i], or [1920x1200p].
- 8) Press the <ENTER> button.
 - The [VERTICAL SCAN FREQUENCY] screen is displayed.
- 9) Press ◆▶ to select [VERTICAL SCAN FREQUENCY].
 - Select [60Hz], [50Hz], [30Hz], [25Hz], or [24Hz] when [1920x1080p] is selected for [RESOLUTION].
 - Select [60Hz], [50Hz], or [48Hz] when [1920x1080i] is selected for [RESOLUTION].
 - Select [60Hz] or [50Hz] when anything other than [1920x1080p] or [1920x1080i] is selected for [RESOLUTION].
- 10) Press the <ENTER> button.
 - The confirmation screen is displayed.
- 11) Press **♦** to select [OK], and press the **<ENTER>** button.

Note

- The setting details are displayed in [RESOLUTION] and [VERTICAL SCAN FREQUENCY] of [EDID STATUS].
- The resolution and vertical scanning frequency settings may also be required on your computer or video device.
- After configuring settings, your computer or video device or the projector may be required to be turned off and on.
- A signal may not be output with the resolution and vertical scanning frequency that have been set, depending on your computer or video device.

[DIGITAL LINK IN]

Sets the signal level when DIGITAL LINK input is selected.

1) Press ▲▼ to select [DIGITAL LINK IN].

- 2) Press the <ENTER> button.
 - The [DIGITAL LINK IN] screen is displayed.
- 3) Press ▲▼ to select [SIGNAL LEVEL].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [AUTO] | Automatically sets the signal level. |
|----------|---|
| [64-940] | Select this item when the signal output from the HDMI terminal of an external device (Blu-ray disc player, etc.) is input to the <digital lan="" link=""> terminal via a twisted-pair-cable transmitter.</digital> |
| [0-1023] | Select this item when the signal output from the DVI-D terminal or HDMI terminal of an external device (such as a computer) is input to the <digital lan="" link=""> terminal via a twisted-pair-cable transmitter.</digital> |

Note

- The optimal setting varies depending on the output setting of the connected external device. Refer to the operating instructions of the
 external device regarding the output of the external device.
- The signal level is displayed for 30 bits of input.

Setting [EDID MODE]

- Press ▲▼ to select [DIGITAL LINK IN].
- 2) Press the <ENTER> button.
 - The [DIGITAL LINK IN] screen is displayed.
- 3) Press ▲▼ to select [EDID MODE].
- 4) Press the <ENTER> button.
 - The [DIGITAL LINK EDID MODE] screen is displayed.
- 5) Press **♦** to switch [EDID MODE].
 - The items will switch each time you press the button.

| [DEFAULT] | Standard setting. |
|--------------|--|
| [SCREEN FIT] | Changes EDID data according to the [SCREEN FORMAT] setting. |
| [USER] | Sets the [RESOLUTION] and [VERTICAL SCAN FREQUENCY] items to EDID. |

- When [DEFAULT] or [SCREEN FIT] is selected, proceed to Step 10).
- 6) Press the <ENTER> button.
 - The [RESOLUTION] screen is displayed.
- Press ▲▼◀▶ to select [RESOLUTION].
 - Select [1024x768p], [1280x720p], [1280x768p], [1280x800p], [1280x1024p], [1366x768p], [1400x1050p], [1440x900p], [1600x900p], [1600x1200p], [1680x1050p], [1920x1080p], [1920x1080i], or [1920x1200p].
- 8) Press the <ENTER> button.
 - The [VERTICAL SCAN FREQUENCY] screen is displayed.
- 9) Press ◆▶ to select [VERTICAL SCAN FREQUENCY].
 - Select [60Hz], [50Hz], [30Hz], [25Hz], or [24Hz] when [1920x1080p] is selected for [RESOLUTION].
 - Select [60Hz], [50Hz], or [48Hz] when [1920x1080i] is selected for [RESOLUTION].
 - Select [60Hz] or [50Hz] when anything other than [1920x1080p] or [1920x1080i] is selected for [RESOLUTION].
- 10) Press the <ENTER> button.
 - The confirmation screen is displayed.
- 11) Press **♦** to select [OK], and press the **<ENTER>** button.

Note

- The setting details are displayed in [RESOLUTION] and [VERTICAL SCAN FREQUENCY] of [EDID STATUS].
- The resolution and vertical scanning frequency settings may also be required on your computer or video device.

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- · After configuring settings, your computer or video device or the projector may be required to be turned off and on.
- A signal may not be output with the resolution and vertical scanning frequency that have been set, depending on your computer or video device.

[SDLIN]

Set this function in accordance with the signal input to the <SDI IN 1>/<SDI IN 2> terminals.

Setting [SDI LINK]

- Press ▲▼ to select [SDI IN].
- 2) Press the <ENTER> button.
 - The [SDI IN] screen is displayed.
- Press ▲▼ to select [SDI LINK].
- 4) Press **♦** to switch the item.

| [SINGLE LINK] | Sets the SDI1 input and the SDI2 input to single link. |
|---------------|---|
| [DUAL LINK] | Sets the SDI1 input and the SDI2 input to dual link. |
| [AUTO] | Automatically selects the single link or the dual link. |

Note

- [SDI LINK] cannot be set when [BACKUP INPUT MODE] is set to [2].
- When [AUTO] is set, either single link or dual link will be automatically selected by reading the payload ID added to the input signal. Single
 link will be selected when a payload ID is not added to the input signal.

Setting [SIGNAL LEVEL]

Select the amplitude of the signal to input.

- Press ▲▼ to select [SDI IN].
- 2) Press the <ENTER> button.
 - The [SDI IN] screen is displayed.
- 3) Press ▲▼ to select [SIGNAL LEVEL].
- 4) Press **♦** to switch the item.

| [64-940] | Normally use this setting. |
|----------|---|
| [4-1019] | Select this item when gray is displayed as black. |

Setting [BIT DEPTH]

- Press ▲▼ to select [SDI IN].
- 2) Press the <ENTER> button.
 - The [SDI IN] screen is displayed.
- 3) Press ▲▼ to select [BIT DEPTH].
- Press ◀▶ to switch the item.

| [AUTO] | Automatically select [12-bit] or [10-bit]. |
|----------|--|
| [12-bit] | Fixes to [12-bit]. |
| [10-bit] | Fixes to [10-bit]. |

Setting [3G-SDI MAPPING]

- Press ▲▼ to select [SDI IN].
- 2) Press the <ENTER> button.
 - The [SDI IN] screen is displayed.

- 3) Press ▲▼ to select [3G-SDI MAPPING].
- 4) Press **♦** to switch the item.

| [AUTO] | Automatically select [LEVEL A] or [LEVEL B]. |
|-----------|--|
| [LEVEL A] | Fixes to [LEVEL A]. |
| [LEVEL B] | Fixes to [LEVEL B]. |

Note

• This does not operate when the SD-SDI signal or the HD-SDI signal is input.

[ON-SCREEN DISPLAY]

Set the on-screen display.

Setting [OSD POSITION]

Set the position of the menu screen (OSD).

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
 - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [OSD POSITION].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [2] | Sets to the center left of the screen. |
|-----|--|
| [3] | Sets to the bottom left of the screen. |
| [4] | Sets to the top center of the screen. |
| [5] | Sets to the center of the screen. |
| [6] | Sets to the bottom center of the screen. |
| [7] | Sets to the upper right of the screen. |
| [8] | Sets to the center right of the screen. |
| [9] | Sets to the bottom right of the screen. |
| [1] | Sets to the upper left of the screen. |

Setting [OSD ROTATION]

Set the orientation of the menu screen (OSD).

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
 - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [OSD ROTATION].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Does not rotate the screen. | |
|--------------------|---|--|
| [CLOCKWISE] | Rotates the screen by 90° clockwise. | |
| [COUNTERCLOCKWISE] | Rotates the screen by 90° counterclockwise. | |

Setting [OSD DESIGN]

Set the color of the menu screen (OSD).

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
 - The [ON-SCREEN DISPLAY] screen is displayed.

- 3) Press ▲▼ to select [OSD DESIGN].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [1] | Sets to yellow. |
|-----|-----------------|
| [2] | Sets to blue. |
| [3] | Sets to white. |
| [4] | Sets to green. |
| [5] | Sets to peach. |
| [6] | Sets to brown. |

Setting [OSD MEMORY]

Set hold for the position of the menu screen (OSD) cursor.

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
 - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [OSD MEMORY].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [ON] | Holds the cursor position. |
|-------|------------------------------------|
| [OFF] | Does not hold the cursor position. |

Note

• The cursor position is not maintained even if [OSD MEMORY] is set to [ON].

Setting [INPUT GUIDE]

Set whether to display the input guide (input terminal name, signal name, memory number, and [BACKUP INPUT STATUS] currently selected) in the position set in [OSD POSITION].

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
 - The [ON-SCREEN DISPLAY] screen is displayed.
- Press ▲▼ to select [INPUT GUIDE].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [ON] | Displays the input guide. |
|-------|---------------------------|
| [OFF] | Hides the input guide. |

Setting [WARNING MESSAGE]

Set the display/hide of the warning message.

- Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
 - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [WARNING MESSAGE].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| ION1 | l Dienlave the warning meesage |
|------|--------------------------------|
| [ON] | Displays the warning message. |

Chapter 4 Settings — [DISPLAY OPTION] menu

| [OFF] | Hides the warning message. |
|-------|----------------------------|
| [OII] | flues the warning message. |
| | |

Note

When [WARNING MESSAGE] is set to [OFF], the warning message will not be displayed on the projected image even if a warning status
such as [TEMPERATURE WARNING] or [CLEAN THE AIR FILTER] is detected. Also, the following countdown message is not displayed:
the message until the power is turned off after the no signal lights-out function is executed; the message until the light source is turned off
after the no signal lights-out function is executed

[IMAGE ROTATION]

Set whether to rotate the input image when projecting.

- 1) Press ▲▼ to select [IMAGE ROTATION].
- 2) Press **♦** to select an item.
 - The items will switch each time you press the button.

| [OFF] | Projects the input image without rotating. | |
|--------------------|---|--|
| [CLOCKWISE] | Rotates the input image by 90° clockwise and project it. | |
| [COUNTERCLOCKWISE] | Rotates the input image by 90° counterclockwise and project it. | |

Note

- [IMAGE ROTATION] is disabled while displaying 3D image, displaying image in simultaneous format, and during P IN P.
- The on-screen display orientation does not change even when [IMAGE ROTATION] is set to other than [OFF]. Set the [DISPLAY OPTION] menu → [ON-SCREEN DISPLAY] → [OSD ROTATION] (★ page 118) as necessary.

[BACK COLOR]

Set the display of the projected screen when there is no signal input.

- Press ▲▼ to select [BACK COLOR].
- Press ◆▶ to switch the item.
 - The items will switch each time you press the button.

| [BLUE] | Displays the entire projection area in blue. | | |
|----------------|---|--|--|
| [BLACK] | Displays the entire projection area in black. | | |
| [DEFAULT LOGO] | Displays the Panasonic logo. | | |
| [USER LOGO] | Displays the image registered by the user. | | |

Note

To create/register the [USER LOGO] image, use "Logo Transfer Software" included in the supplied CD-ROM.

ISTARTUP LOGO

Set the logo display when the power is turned on.

- Press ▲▼ to select [STARTUP LOGO].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [DEFAULT LOGO] | Displays the Panasonic logo. |
|----------------|--|
| [USER LOGO] | Displays the image registered by the user. |
| [NONE] | Disables the startup logo display. |

Note

- When [USER LOGO] is selected, the display of the startup logo will be kept for approximately 15 seconds.
- To create/register the [USER LOGO] image, use "Logo Transfer Software" included in the supplied CD-ROM.

[UNIFORMITY]

Correct the brightness and color unevenness of the entire screen.

Setting each color

- Press ▲▼ to select [UNIFORMITY].
- 2) Press the <ENTER> button.
 - The [UNIFORMITY] screen is displayed.
- 3) Press ▲▼ to select [WHITE], [RED], [GREEN], or [BLUE].
- 4) Press **♦** to adjust the level.

| Item | Operation | Adjustment | Range of adjustment |
|--------------|-----------|--|---------------------|
| [VERTICAL] | Press ▶. | The lower-side color becomes pale, or the upper-side color becomes dark. | -127 - +127 |
| | Press ◀. | The upper-side color becomes pale, or the lower-side color becomes dark. | |
| [HORIZONTAL] | Press ▶. | The left-side color becomes pale, or the right-side color becomes dark. | |
| | Press ◀. | The right-side color becomes pale, or the left-side color becomes dark. | |

Setting [PC CORRECTION]

To use the [PC CORRECTION] function, the optional Upgrade Kit (Model No.: ET-UK20) is required. To purchase the product, consult your dealer.

- Press ▲▼ to select [UNIFORMITY].
- 2) Press the <ENTER> button.
 - The **[UNIFORMITY]** screen is displayed.
- Press ▲▼ to select [PC CORRECTION].
- Press ◆▶ to switch the item.

| [OFF] Does not perform correction using a computer. | | Does not perform correction using a computer. |
|---|--------|--|
| | [ON]*1 | Performs correction for the brightness and color unevenness of the entire screen using a computer. |

^{*1} Advanced skills are necessary to use computer control correction. Consult your dealer.

Note

The [UNIFORMITY] setting value will not return to factory default even if [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu → [INITIALIZE] (→ page 144).

ISHUTTER SETTING

Set the image fade-in and fade-out when the shutter function operates. You can also configure the setting to automatically enable/disable the shutter (shutter: close/open) when the power is turned off/on, and to use the mechanical shutter or not.

Setting [MECHANICAL SHUTTER]

- Press ▲▼ to select [SHUTTER SETTING].
- 2) Press the <ENTER> button.
 - The [SHUTTER SETTING] screen is displayed.
- 3) Press ▲▼ to select [MECHANICAL SHUTTER].

4) Press **♦** to switch the item.

| [ENABLE] | Turns off the light source and closes the mechanical shutter when the shutter function is enabled (shutter: closed). |
|-----------|--|
| [DISABLE] | Leaves the mechanical shutter open and turns off only the light source when the shutter function is enabled (shutter: closed). |

Note

- By closing the mechanical shutter, the malfunction of the DLP chip caused by high power laser ray entering the projection lens surface can
 be prevented. To close the mechanical shutter, set [MECHANICAL SHUTTER] to [ENABLE] and then set the shutter function to be enabled
 (shutter: closed).
- When [MECHANICAL SHUTTER] is set to [ENABLE], it will take approximately 0.5 seconds from when the shutter function is enabled (shutter: closed) to the shutter function is disabled (shutter: opened).
- The light source may turn on darker to warm up when the shutter function is used when the operating environment temperature is around 0 °C (32 °F) when [MECHANICAL SHUTTER] is set to [DISABLE].

Setting [FADE-IN] or [FADE-OUT]

- 1) Press ▲▼ to select [SHUTTER SETTING].
- 2) Press the <ENTER> button.
 - The [SHUTTER SETTING] screen is displayed.
- 3) Press ▲▼ to select [FADE-IN] or [FADE-OUT].
- 4) Press **♦** to switch the item.

| Item | | Adjustment |
|-------------------------|------------------|---|
| | [OFF] | Does not set fade-in or fade-out. |
| [FADE-IN] [FADE-OUT] | [0.5s] - [10.0s] | Sets the fade-in or fade-out time. Select an item from [0.5s] - [4.0s], [5.0s], [7.0s], or [10.0s]. [0.5s] - [4.0s] can be selected in increments of 0.5. |

Note

• Press the <SHUTTER> button on the remote control or the control panel during fade-in or fade-out to cancel the fade operation.

Setting [STARTUP]

- Press ▲▼ to select [SHUTTER SETTING].
- 2) Press the <ENTER> button.
 - The [SHUTTER SETTING] screen is displayed.
- 3) Press ▲▼ to select [STARTUP].
- 4) Press **♦** to switch the item.

| [OPEN] | The projector goes into projection mode with the shutter function disabled (shutter: opened) when the power is turned on. |
|---------|---|
| [CLOSE] | The projector goes into projection mode with the shutter function enabled (shutter: closed) when the power is turned on. |

Setting [SHUT-OFF]

- 1) Press ▲▼ to select [SHUTTER SETTING].
- 2) Press the <ENTER> button.
 - The [SHUTTER SETTING] screen is displayed.
- Press ▲▼ to select [SHUT-OFF].
- 4) Press **♦** to switch the item.

| [LAST USED] | The projector goes into standby mode with the condition of the mechanical shutter maintained when |
|-------------|---|
| [LAST OSED] | the projector is switched off. |

Chapter 4 Settings — [DISPLAY OPTION] menu

| [OPEN] | The projector goes into standby mode with the mechanical shutter opened when the projector is switched off. |
|---------|---|
| [CLOSE] | The projector goes into standby mode with the mechanical shutter closed when the projector is switched off. |

[FREEZE]

Pause the projected image temporarily regardless of the playback of the external device.

- 1) Press ▲▼ to select [FREEZE].
- 2) Press the <ENTER> button.
 - Press the <MENU> button to release.

Note

• [FREEZE] is displayed on the screen when video is paused.

[WAVEFORM MONITOR]

Use the input signals from a connected external device to display in a waveform. Check whether video output (luminance) signal level is within the recommended range for the projector and adjust.

- 1) Press ▲▼ to select [WAVEFORM MONITOR].
- 2) Press **♦** to switch the item.

| [OFF] | Does not display the waveform monitor. |
|-------|--|
| [ON] | Displays the waveform monitor. |

- 3) Press the <MENU> button two times to clear.
- Press ▲▼ to select any horizontal line.
- 5) Press the <ENTER> button to switch the Select line to either luminance, red, green, or blue.
 - Line selection items switch each time the <ENTER> is pressed only when the waveform monitor is displayed.

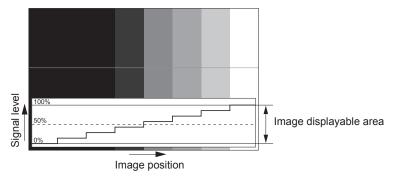
| "Select line (luminance)" | Displayed in white waveform. |
|---------------------------|------------------------------|
| "Select line (red)" | Displayed in red waveform. |
| "Select line (green)" | Displayed in green waveform. |
| "Select line (blue)" | Displayed in blue waveform. |

Note

- Setting is also available with [FUNCTION BUTTON] (→ page 140).
- Waveform monitor cannot be displayed while in [P IN P].
- The waveform monitor turns off when [P IN P] is executed during waveform monitoring.
- The waveform monitor is not displayed when on-screen display is hidden (off).
- Use [3D WAVEFORM MONITOR] to display the waveform monitor with the 3D image.

Adjusting the waveform

Project the luminance adjustment signal of a commercial test disk (0 % (0 IRE or 7.5 IRE) – 100 % (100 IRE)) and adjust.



- 1) Select "Select line (luminance)" on the waveform monitor.
- 2) Adjust black level.
 - Use [BRIGHTNESS] in the on-screen menu [PICTURE] to adjust the black level 0 % of the video signal to the 0 % position of the waveform monitor.
- 3) Adjust white level.
 - Use [CONTRAST] in the on-screen menu [PICTURE] to adjust the white level 100 % of the video signal to the 100 % position of the waveform monitor.

Adjusting red, green, and blue

- 1) Set [COLOR TEMPERATURE] to [USER1] or [USER2] (→ page 83).
- 2) Select "Select line (red)" on the waveform monitor.
- 3) Adjust dark red areas.
 - Use [RED] in [WHITE BALANCE LOW] to adjust the black level 0 % of the video signal to the 0 % position of the waveform monitor.
- 4) Adjust bright red areas.
 - Use [RED] in [WHITE BALANCE HIGH] to adjust the white level 100 % of the video signal to the 100 % position of the waveform monitor.
- 5) Use the procedure for [RED] to adjust [GREEN] and [BLUE].

Note

• For the DVI-D signal, the HDMI signal, the SDI signal, or the DIGITAL LINK signal, confirm that the setting for [SIGNAL LEVEL] is correct before the black level adjustment.

[CUT OFF]

Each red, green, and blue color component can be removed.

- Press ▲▼ to select [CUT OFF].
- 2) Press the <ENTER> button.
 - The [CUT OFF] screen is displayed.
- Press ▲▼ to select [RED], [GREEN], or [BLUE].
- 4) Press **♦** to switch the item.

| [OFF] | Disables cutoff. |
|-------|------------------|
| [ON] | Enables cutoff. |

Note

• When input is switched or a signal is switched, the cutoff setting returns to its original setting (off).

[PROJECTOR SETUP] menu

On the menu screen, select [PROJECTOR SETUP] from the main menu, and select an item from the submenu.

Refer to "Navigating through the menu" (⇒ page 76) for the operation of the menu screen.

[PROJECTOR ID]

The projector has an ID number setting function that can be used when multiple projectors are used side by side to enable simultaneous control or individual control via a single remote control.

- 1) Press ▲▼ to select [PROJECTOR ID].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [ALL] | Select this item when controlling projectors without specifying an ID number. |
|------------|--|
| [1] - [64] | Select this item when specifying an ID number to control individual projector. |

Note

- To specify an ID number for individual control, the ID number of a remote control must match the ID number of the projector.
- When the ID number is set to [ALL], the projector will operate regardless of the ID number specified during remote control or computer control
 - If multiple projectors are set up side by side with IDs set to [ALL], they cannot be controlled separately from the projectors with other ID numbers.
- Refer to "Setting ID number of the remote control" (→ page 74) for how to set the ID number on the remote control.

[PROJECTION METHOD]

Set the projection method in accordance with the installation status of the projector. Change the projection method if the screen display is upside down or inverted.

- 1) Press ▲▼ to select [PROJECTION METHOD].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [FRONT/FLOOR] | When installing the projector on the desk, etc., in front of the screen | |
|-----------------|--|--|
| [FRONT/CEILING] | When installing the projector in front of the screen using the Ceiling Mount Bracket (optional) | |
| [REAR/FLOOR] | When installing the projector on the desk, etc., behind the screen (with a translucent screen) | |
| [REAR/CEILING] | When installing the projector behind the screen (with a translucent screen) using the Ceiling Mount Bracket (optional) | |

[OPERATION SETTING]

Set the operation method of the projector.

The settings are reflected when "Initial setting (operation setting)" (▶ page 57) in the **[INITIAL SETTING]** screen is already set.

If you change the settings while using the projector, the duration until the luminance of light source decreases by half may shorten or the luminance may decrease.

Setting [OPERATING MODE]

- Press ▲▼ to select [OPERATION SETTING].
- 2) Press the <ENTER> button.
 - The [OPERATION SETTING] screen is displayed.
- Press ▲▼ to select [OPERATING MODE].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [NORMAL]*1 | Set this item when high luminance is required. The estimated runtime is approximately 20 000 hours. |
|------------|--|
| INURWALI | III SELUIIS ILEITI WHEN HIUN IUNIINANCE IS TEUUNEU. THE ESUMALEU TUNUNE IS ADDIOXIMALEIV 20 000 NOUIS. |

| [ECO]*1 | Set this item to increase the life of the light source though it will lower the luminance than [NORMAL]. The estimated runtime is approximately 24 000 hours. |
|----------------|---|
| [LONG LIFE1]*1 | Set this item to increase the life of the light source though it will lower the luminance than [ECO]. The estimated runtime is approximately 43 000 hours. |
| [LONG LIFE2]*1 | Set this item to increase the life of the light source though it will lower the luminance than [LONG LIFE1]. The estimated runtime is approximately 61 000 hours. |
| [LONG LIFE3]*1 | Set this item to increase the life of the light source though it will lower the luminance than [LONG LIFE2]. The estimated runtime is approximately 87 000 hours. |
| [USER1] | |
| [USER2] | Set [MAX LIGHT OUTPUT LEVEL] and [LIGHT OUTPUT] individually. |
| [USER3] | |

^{*1} The runtime is estimated when the [PICTURE] menu \rightarrow [DYNAMIC CONTRAST] is set to [3].

- Press ▲▼ to select [APPLY].
- 6) Press the <ENTER> button.
- 7) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.

Note

- The [OPERATING MODE] setting will not return to the factory default even when [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu → [INITIALIZE] (→ page 144).
- Set [OPERATING MODE] to anything other than [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3] when using the projector at an altitude of 2 700 m (8 858') or higher above sea level.
- If the runtime exceeds 20 000 hours, replacement of the components inside the projector may be required. Consult your dealer for details.

Setting [MAX LIGHT OUTPUT LEVEL]

Adjust the maximum level to correct screen brightness according to the changes in brightness of the light source.

- 1) Press ▲▼ to select [OPERATION SETTING].
- 2) Press the <ENTER> button.
 - The [OPERATION SETTING] screen is displayed.
- 3) Press ▲▼ to select [MAX LIGHT OUTPUT LEVEL].
- 4) Press **♦** to adjust.

| Operation | Adjustment | Range of adjustment |
|-----------|---|---------------------|
| Press ▶. | Increases the maximum level of brightness correction. | 0.0.0/ 100.0.0/ |
| Press ◀. | Decreases the maximum level of brightness correction. | 8.0 % - 100.0 % |

- 5) Press ▲▼ to select [APPLY].
- 6) Press the <ENTER> button.
- When the confirmation screen is displayed, press ◀▶ to select [OK], and press the <ENTER> button.

Note

- When [OPERATING MODE] is set to [NORMAL], [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3], the item of [MAX LIGHT OUTPUT LEVEL] cannot be adjusted.
- When the [PROJECTOR SETUP] menu \rightarrow [BRIGHTNESS CONTROL] \rightarrow [BRIGHTNESS CONTROL SETUP] \rightarrow [CONSTANT MODE] is set to [AUTO] or [PC], the brightness is corrected using this setting.
- The [MAX LIGHT OUTPUT LEVEL] setting will not return to the factory default even when [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu → [INITIALIZE] (→ page 144).

Setting [LIGHT OUTPUT]

Adjust the brightness of light source.

The [LIGHT OUTPUT] setting is synchronized with the [PROJECTOR SETUP] menu \rightarrow [LIGHT OUTPUT]. The most recent setting is reflected in both items.

- 1) Press ▲▼ to select [OPERATION SETTING].
- 2) Press the <ENTER> button.
 - The [OPERATION SETTING] screen is displayed.

- 3) Press ▲▼ to select [LIGHT OUTPUT].
- 4) Press **♦** to adjust.

| Omeration | Adjus | Danna of adjustment | | |
|-----------|------------------------------|------------------------------|---------------------|--|
| Operation | Brightness | Runtime (estimate) | Range of adjustment | |
| Press ▶. | The screen becomes brighter. | The runtime becomes shorter. | 8.0 % - 100.0 % | |
| Press ◀. | The screen becomes darker. | The runtime becomes longer. | | |

- 5) Press ▲▼ to select [APPLY].
- 6) Press the <ENTER> button.
- 7) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.

Note

- [LIGHT OUTPUT] can be adjusted individually for each setting item of [OPERATING MODE].
- In such a case when configuring multiple screens with multiple projectors, uniformity of brightness between multiple screens can be
 obtained by adjusting [LIGHT OUTPUT].

Interrelation of luminance and runtime

You can use the projector with desired brightness and duration of use by combining the settings of [MAX LIGHT OUTPUT LEVEL], [LIGHT OUTPUT], and [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP]. Interrelation of luminance and runtime is as follows. Make the settings depending on your desired duration of use and brightness of the projected image.

Values of the luminance and runtime are rough estimations.

■ To set the projector based on the duration of use

| | When [CON | STANT MODE] is set to [OFF] When [CONSTANT MODE] is set | | NT MODE] is set to | t to [AUTO] or [PC] | |
|------------------------|------------------------------------|---|----------------|------------------------------------|-----------------------|----------------|
| Duration of use (hour) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Luminance (Im) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Luminance (Im) |
| 20 000 | 100.0 | 100.0 | 12 000 | 100.0 | 58.0 | 7 000 |
| 24 000 | 100.0 | 83.0 | 10 000 | 100.0 | 54.0 | 6 500 |
| 27 000 | 100.0 | 65.0 | 7 800 | 100.0 | 51.0 | 6 100 |
| 31 000 | 100.0 | _ | _ | 100.0 | 47.0 | 5 600 |
| 35 000 | 100.0 | _ | _ | 100.0 | 44.0 | 5 300 |
| 40 000 | 100.0 | _ | _ | 100.0 | 41.0 | 4 900 |

■ To set the projector based on luminance

| | When [CONSTANT MODE] is set to [OFF] | | | When [CONSTANT MODE] is set to [AUTO] or [PC | | [AUTO] or [PC] |
|----------------|--------------------------------------|-----------------------|----------------|--|-----------------------|----------------|
| Luminance (Im) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Runtime (hour) | [MAX LIGHT OUTPUT LEVEL] (%) | [LIGHT OUTPUT] (%) | Runtime (hour) |
| 12 000 | 100.0 | 100.0 | 20 000 | _ | _ | _ |
| 11 000 | 100.0 | 92.0 | 23 000 | 100.0 | 92.0 | 1 500 |
| 10 000 | 100.0 | 83.0 | 24 000 | 100.0 | 83.0 | 4 500 |
| 9 000 | 100.0 | 75.0 | 25 500 | 100.0 | 75.0 | 8 500 |
| 8 000 | 100.0 | 67.0 | 26 500 | 100.0 | 67.0 | 14 000 |
| 7 000 | 100.0 | 58.0 | 28 000 | 100.0 | 58.0 | 20 000 |
| 6 000 | 100.0 | 50.0 | 29 500 | 100.0 | 50.0 | 28 000 |
| 5 000 | 100.0 | _ | _ | 100.0 | 42.0 | 38 500 |
| 4 000 | 100.0 | _ | _ | 100.0 | 33.0 | 52 500 |

Note

- Under influence of characteristics of each light source, conditions of use, installation environment, etc., the runtime may be shorter than the
 estimation.
- The duration of use is referred to as the runtime when you use the projector successively. The duration of use is an estimated duration and is not the warranty period.
- If the runtime exceeds 20 000 hours, replacement of the components inside the projector may be required. Consult your dealer for details.

Setting [BRIGHTNESS CONTROL SETUP]

Set the operation of the brightness control function.

The [BRIGHTNESS CONTROL SETUP] setting is synchronized with the [PROJECTOR SETUP] menu \rightarrow [BRIGHTNESS CONTROL] \rightarrow [BRIGHTNESS CONTROL SETUP]. The most recent setting is reflected in both items.

- Press ▲▼ to select [OPERATION SETTING].
- 2) Press the <ENTER> button.
 - The [OPERATION SETTING] screen is displayed.
- 3) Press ▲▼ to select [CONSTANT MODE].
- 4) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Does not correct the brightness of the screen by the brightness sensor. |
|--------|---|
| [AUTO] | Corrects the brightness of the screen by the brightness sensor. When the brightness of light source or white balance changes, the brightness of the screen is automatically corrected. |
| [PC] | Synchronizes nine or more projectors using a computer and the dedicated software "Multi Monitoring & Control Software" 1. |

^{*1 &}quot;Multi Monitoring & Control Software" is included in the supplied CD-ROM.

- When [PC] is selected, proceed to Step 7).
- 5) Press ▲▼ to select [LINK].
- 6) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Performs correction by the brightness sensor on one projector without synchronizing with the other projectors. The duration that the constant brightness is kept will become longer by setting the value of [LIGHT OUTPUT] smaller. |
|--|---|
| [GROUP A] [GROUP B] [GROUP C] [GROUP D] | Performs correction by the brightness sensor in multiple projectors in synchronization. Up to four groups (A to D) can be set within the same subnet by using the network function. You can register and synchronize up to eight projectors in one group. |

- 7) Press ▲▼ to select [CALIBRATION TIME].
- 8) Press the <ENTER> button.
 - The projector is in the adjustment mode (the time is blinking).
- 9) Press **♦** to select "hour" or "minute", and press **▲** ▼ or the number (<0> <9>) button to set a time.
 - Selecting "hour" allows setting of only the hour in increments of one hour, and selecting "minute" allows setting of only the minute in increments of one minute between 00 and 59.
 - When the time is not specified, select [OFF] between 23 and 00 of the hour, or between 59 and 00 of the minute.
- 10) Press the <ENTER> button.
 - [CALIBRATION TIME] is set.
 - Brightness and color are measured at the specified time. The dynamic contrast function does not operate during measurement.
- 11) Press ▲▼ to select [CALIBRATION MESSAGE].
- 12) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [ON] Displays the message during calibration. | |
|---|--|
| [OFF] | Does not display the message during calibration. |

13) Press ▲▼ to select [APPLY].

14) Press the <ENTER> button.

- When [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to anything other than [OFF], the brightness and white balance of light source at the time when the <ENTER> button is pressed is recorded as the standard brightness and white balance.
- If the <ENTER> button is pressed when [LINK] is set from [GROUP A] to [GROUP D], the group name is displayed on the screens of projectors that have been set in the same group.



15) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.

Note

- When [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO] or [PC], keep the shutter function disabled (shutter:
 open) for at least two minutes to perform the brightness sensor calibration after the [BRIGHTNESS CONTROL SETUP] setting has been
 completed.
- If the shutter function is enabled (shutter: closed) within approximately 10 minutes after the light source has turned on while [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO] or [PC], brightness and color cannot be measured. Therefore, brightness may be corrected approximately two minutes after the shutter function is disabled (shutter: open).
- Since the brightness and the color of the light source do not stabilize for approximately eight minutes after turning on the light source when
 [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO] or [PC], the brightness and the color of the light source will
 automatically measured approximately eight minutes after the light source is turned on. A correction is made based on this measurement
 result so that the brightness and the color will be the same as the standard brightness and the color when adjusted with the brightness
 control.
- When the projector operates with [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] set to [AUTO] or [PC], the items of [OPERATING MODE] and [LIGHT OUTPUT] cannot be changed.
- When [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO], and [LINK] is set to [OFF], the brightness will be
 corrected until it reaches the value set in [MAX LIGHT OUTPUT LEVEL].
- The variation in brightness may increase due to dust accumulating on the lens, screen, or inside the projector, depending on the installation environment of the projector.
- When the variation in brightness has increased due to aging of the light source, or when you replaced the light source, readjust the brightness control.
- When the projector is used continuously for more than 24 hours, set the [CALIBRATION TIME] in [BRIGHTNESS CONTROL SETUP]. If it is not set, correction will not be performed automatically.
- The brightness control function and the dynamic contrast function will operate simultaneously, but the dynamic contrast function will not
 operate while measuring the brightness and the color.
- The [CALIBRATION TIME] setting will be reflected when you enter the time.
- The [CALIBRATION MESSAGE] setting will be reflected when the item is changed using ◀▶.

[LIGHT OUTPUT]

Adjust the brightness of light source.

The setting is reflected when it is already set with "Initial setting (operation setting)" (\Rightarrow page 57) in the **[INITIAL SETTING]** screen, or the [PROJECTOR SETUP] menu \rightarrow [OPERATION SETTING]. The [LIGHT OUTPUT] setting is synchronized with the [PROJECTOR SETUP] menu \rightarrow [OPERATION SETTING] \rightarrow [LIGHT OUTPUT]. The most recent setting is reflected in both items.

Press ▲▼ to select [LIGHT OUTPUT].

2) Press **♦** to adjust.

| Operation | Adjus | Donne of adjustment | | |
|-----------|------------------------------|------------------------------|---------------------|--|
| Operation | Brightness | Runtime (estimate) | Range of adjustment | |
| Press ▶. | The screen becomes brighter. | The runtime becomes shorter. | 8.0 % - 100.0 % | |
| Press ◀. | The screen becomes darker. | The runtime becomes longer. | | |

Note

- [LIGHT OUTPUT] can be adjusted individually for each setting item of [OPERATING MODE].
- In such a case when configuring multiple screens with multiple projectors, uniformity of brightness between multiple screens can be
 obtained by adjusting [LIGHT OUTPUT].

[BRIGHTNESS CONTROL]

The projector is equipped with a brightness sensor to measure brightness and color of the light source, and corrects brightness and white balance of the projected image according to the changes in brightness and color of the light source.

By using this function, in such a condition that multiple screens are configured using multiple projectors, you can reduce changes in overall brightness and white balance of the multiple screens due to light source degradation and suppress variation in brightness and white balance to preserve uniformity.

Setting [BRIGHTNESS CONTROL SETUP]

Set the operation of the brightness control function.

- 1) Press ▲▼ to select [BRIGHTNESS CONTROL].
- 2) Press the <ENTER> button.
 - The [BRIGHTNESS CONTROL] screen is displayed.
- 3) Press ▲▼ to select [BRIGHTNESS CONTROL SETUP].
- 4) Press the <ENTER> button.
 - The [BRIGHTNESS CONTROL SETUP] screen is displayed.
- 5) Press ▲▼ to select [CONSTANT MODE].
- 6) Press ◆▶ to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Does not correct the brightness of the screen by the brightness sensor. |
|--------|--|
| [AUTO] | Corrects the brightness of the screen by the brightness sensor. When the brightness of light source or white balance changes, the brightness of the projected image is automatically corrected. |
| [PC] | Synchronizes nine or more projectors using a computer and the dedicated software "Multi Monitoring & Control Software" 1. |

^{*1 &}quot;Multi Monitoring & Control Software" is included in the supplied CD-ROM.

- When [PC] is selected, proceed to Step 9).
- Press ▲▼ to select [LINK].
- 8) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Performs corrections by the brightness sensor on a single projector without synchronizing with the other projectors. The duration that the constant brightness is kept will become longer by setting the value of [LIGHT OUTPUT] smaller. |
|--|---|
| [GROUP A] [GROUP B] [GROUP C] [GROUP D] | Performs correction by the brightness sensor in multiple projectors in synchronization. Up to four groups (A to D) can be set within the same subnet by using the network function. You can register and synchronize up to eight projectors in one group. |

- Press ▲▼ to select [CALIBRATION TIME].
- 10) Press the <ENTER> button.
 - The projector is in the adjustment mode (the time is blinking).
- 11) Press ◀▶ to select "hour" or "minute", and press ▲▼ or the number (<0> <9>) buttons to set a time.
 - Selecting "hour" allows setting of only the hour in increments of one hour, and selecting "minute" allows setting of only the minute in increments of one minute between 00 and 59.
 - When the time is not specified, select [OFF] between 23 and 00 of the hour, or between 59 and 00 of the minute.
- 12) Press the <ENTER> button.
 - [CALIBRATION TIME] is set.

- Brightness and color are measured at the specified time. The dynamic contrast function does not operate during measurement.
- 13) Press ▲▼ to select [CALIBRATION MESSAGE].
- 14) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [ON] | Displays messages during calibration. |
|-------|---|
| [OFF] | Does not display messages during calibration. |

- 15) Press ▲▼ to select [APPLY].
- 16) Press the <ENTER> button.
 - When [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to anything other than [OFF], the brightness and white balance of light source at the time when the <ENTER> button is pressed is recorded as the standard brightness and white balance.
 - If the <ENTER> button is pressed when [LINK] is set from [GROUP A] to [GROUP D], the group name is displayed on the screens of projectors that have been set in the same group.



Note

- When [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO] or [PC], keep the shutter function disabled (shutter: open) for at least two minutes to perform the brightness sensor calibration after the [BRIGHTNESS CONTROL SETUP] setting has been completed.
- If the shutter function is enabled (shutter: closed) within approximately 10 minutes after the light source has turned on while [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO] or [PC], brightness and color cannot be measured. Therefore, brightness may be corrected approximately two minutes after the shutter function is disabled (shutter: open).
- Since the brightness and the color of the light source do not stabilize for approximately eight minutes after turning on the light source while
 [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO] or [PC], the brightness and the color of the light source will be
 automatically measured approximately eight minutes after the light source is turned on. A correction is made based on this measurement
 result so that the brightness and the color will be the same as the standard brightness and the color when adjusted with the brightness
 control.
- When [CONSTANT MODE] in [BRIGHTNESS CONTROL SETUP] is set to [AUTO], and [LINK] is set to [OFF], the brightness will be corrected until it reaches the value set in [MAX LIGHT OUTPUT LEVEL].
- The variation in brightness may increase due to dust accumulating on the lens, screen, or inside the projector, depending on the installation environment of the projector.
- When the variation in brightness has increased due to aging of the light source, or when you replaced the light source, readjust the brightness control.
- When the projector is used continuously for more than 24 hours, set the [CALIBRATION TIME] in [BRIGHTNESS CONTROL SETUP]. If it is not set, correction will not be performed automatically.
- The brightness control function and the dynamic contrast function will operate simultaneously, but the dynamic contrast function will not
 operate while measuring the brightness and the color.
- The [CALIBRATION TIME] setting will be reflected when you enter the time.
- The [CALIBRATION MESSAGE] setting will be reflected at the time when the item is switched using ◀▶.

Displaying [BRIGHTNESS CONTROL STATUS]

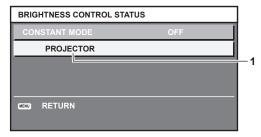
Display the brightness control status.

- Press ▲▼ to select [BRIGHTNESS CONTROL].
- 2) Press the <ENTER> button.
 - The [BRIGHTNESS CONTROL] screen is displayed.
- Press ▲▼ to select [BRIGHTNESS CONTROL STATUS].
- 4) Press the <ENTER> button.
 - The [BRIGHTNESS CONTROL STATUS] screen is displayed.

[BRIGHTNESS CONTROL STATUS] screen display example

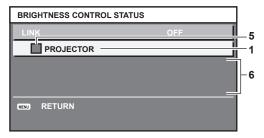
When [CONSTANT MODE] of [BRIGHTNESS CONTROL SETUP] is set to [OFF]

The screen shows the status that the brightness control is disabled.



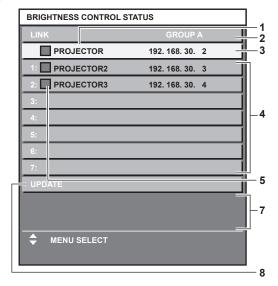
When [CONSTANT MODE] of [BRIGHTNESS CONTROL SETUP] is set to [AUTO] and [LINK] is set to [OFF]

The screen shows the status of the brightness control in one projector.

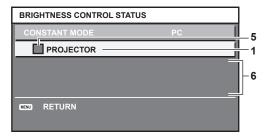


When [CONSTANT MODE] of [BRIGHTNESS CONTROL SETUP] is set to [AUTO] and [LINK] is set from [GROUP A] to [GROUP D]

The screen shows the status of the brightness control of synchronized projectors (up to eight units), including the projector being controlled through the on-screen menu.



When [CONSTANT MODE] of [BRIGHTNESS CONTROL SETUP] is set to [PC]



- 1 Display the name of the projector.
- 2 Display the synchronized group.
- 3 Display the IP address of the projector.
- 4 Display the names and IP addresses of projectors in same group detected over the network.

5 Display the status by color.

Green: There is an allowance for brightness correction.

Yellow: There is little allowance for brightness correction.

Red: There is a brightness control error.

6 Display error detailed messages.

7 Display error messages.

When the message [Failed to apply BRIGHTNESS CONTROL to some projectors.] appears, it means that synchronization with the projector displayed in red has failed.

Press ▲▼ to select the projector displayed in red, and press the <ENTER> button to display the error details.

8 Update to the latest status information.

■ Error details

| Error message | Measures to take |
|---|--|
| [Exceed maximum number of projectors.] | Limit the number of projectors in one group to eight. To synchronize nine or more projectors, use a PC and the dedicated software "Multi Monitoring & Control Software" |
| [Please check the COMMAND CONTROL setting.] | Set [NETWORK CONTROL] → [COMMAND CONTROL] to [ON] for the projector in error. Set [NETWORK CONTROL] → [COMMAND PORT] of all projectors to be linked to the same value. |
| [Please check the USER NAME and PASSWORD in the COMMAND CONTROL setting.] | Assign the same [User name] and [Password] strings that have web control administrator rights to all projectors to be linked. |
| [Cannot apply BRIGHTNESS CONTROL. Please check projector status.] | The projector is in standby. Switch on the power. |
| [Brightness Sensor Error] | There is a problem with the brightness sensor. If problems persist even after switching on the power, consult your dealer. |

^{*1 &}quot;Multi Monitoring & Control Software" is included in the supplied CD-ROM.

Note

- If the synchronized projectors are not displayed in the list, check the following:
 - Are there devices with the same IP address on the network?
 - Are the LAN cables connected correctly? (⇒ page 160)
 - Are the subnets of the projectors the same?
 - Are the same [LINK] settings applied to a group?
- Refer to [NETWORK SETUP] (⇒ page 157) or "[Network config] page" (⇒ page 170) on how to change the projector name.

Brightness control adjustment procedure example

The steps exemplify an adjustment to link the brightness of eight projectors connected in a network.

- 1) Connect all projectors to the hub using LAN cables. (⇒ page 160)
- 2) Switch on all projectors and start projection.
- 3) Set [CONSTANT MODE] of [BRIGHTNESS CONTROL SETUP] to [OFF], and select [APPLY], and then press the <ENTER> button.
- 4) Set [OPERATING MODE] of each projector to the same setting. (⇒ page 125)
- 5) Set [SUBNET MASK] and [IP ADDRESS] in each projector.
 - To be able to communicate over the network, set the same value in [SUBNET MASK] for all projectors and set a different value in [IP ADDRESS] for each projector.
- 6) Wait for at least eight minutes after projection has started until the light source brightness becomes steady.
- 7) Set all items in the [PICTURE] menu of all projectors to the same values.
- 8) Adjust [COLOR MATCHING] to match colors.
- 9) Display the internal test pattern "All white" in all projectors.
- 10) Set [LIGHT OUTPUT] of all projectors to 100 % or the maximum value that can be set.
 - Depending on the [OPERATING MODE] settings, [LIGHT OUTPUT] may not be able to be set to 100 %.
- 11) Set [LIGHT OUTPUT] of the projector with the least brightness to 90 % or 10 % lower than the maximum value that can be set.

12) Adjust [LIGHT OUTPUT] of each projector.

- Adjust [LIGHT OUTPUT] of all the other projectors so that the brightness will be the same as the projector with the least brightness.
- 13) Set [CONSTANT MODE] of [BRIGHTNESS CONTROL SETUP] to [AUTO], and [LINK] to [GROUP A] in all projectors.
- 14) Select [APPLY] of [BRIGHTNESS CONTROL SETUP] and press the <ENTER> button in all projectors.
 - Brightness control starts.

Note

- Brightness is automatically corrected whenever the light source lights up by switching on/off the projector, etc.
- When the variation in brightness has increased due to aging of the light source, or when you replaced the light source, readjust the brightness control.

[STANDBY MODE]

Set the power consumption during the standby.

- 1) Press ▲▼ to select [STANDBY MODE].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [NORMAL] | Select this item to use the network function during standby. |
|----------|--|
| [ECO] | Select this item to reduce power consumption during standby. |

Note

- The AC voltage monitor function, the network function, the <SERIAL OUT> terminal, and part of the RS-232C command cannot be used during the standby when set to [ECO].
 - When an error or warning occurs on the projector, the self-diagnosis display appears on the control panel regardless of the [STANDBY MODE] settings. (\Rightarrow page 189)
- When [ECO] is set, it may take approximately 10 seconds longer before the projector starts projecting after the power is turned on, compared with when [NORMAL] is set.
- When [NORMAL] is set, the network function and the <SERIAL OUT> terminal can be used during standby.
- The [STANDBY MODE] setting will not reset to the factory default even if [ALL USER DATA] is executed from the [PROJECTOR SETUP]
 menu → [INITIALIZE].

INO SIGNAL SHUT-OFF

A function that automatically switches the power source of the projector to standby if there is no input signal for a certain period of time. The time before switching to standby can be set.

- 1) Press ▲▼ to select [NO SIGNAL SHUT-OFF].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [DISABLE] | Disables the No signal shut-off function. | |
|---------------------|--|--|
| [10MIN.] - [90MIN.] | Sets the time in increments of 10 minutes. | |

[NO SIGNAL LIGHTS-OUT]

This is a function to automatically turn off the light source of the projector when there is no input signal for specific period. The time until the light source is turned off can be set.

- Press ▲▼ to select [NO SIGNAL LIGHTS-OUT].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [DISABLE] | Disables the no signal lights-out function. |
|--------------------|--|
| [10SEC.] - [5MIN.] | Turns off the light source when there is no input signal for the preset period. Select [10SEC.], [20SEC.], [30SEC.], [1MIN.], [2MIN.], [3MIN.], or [5MIN.]. |

Note

- The power indicator <ON (G)/STANDBY (R)> will blink slowly in green while the no signal lights-out function is operating and the light source
 is turned off.
- When [NO SIGNAL LIGHTS-OUT] is set to anything other than [DISABLE], the following are the conditions to turn the light source back on again from the condition that the light source has turned off by this function.
 - When the signal is input
 - When on-screen display such as menu screen (OSD) or input guide, a test pattern, or a warning message is displayed
 - When the power on <|> button is pressed
 - When the operation to disable the shutter function (shutter: open) is performed, such as pressing the <SHUTTER> button
 - When the operating environment temperature is around 0 °C (32 °F) and the light source is forced to turn on due to warm-up

[INITIAL STARTUP]

Set the startup method when the <MAIN POWER> switch is set to <ON>.

- Press ▲▼ to select [INITIAL STARTUP].
- 2) Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [LAST MEMORY] | Starts up the projector in the condition before the <main power=""> switch is set to <off>.</off></main> | |
|---------------|--|--|
| [STANDBY] | Starts up the projector in standby. | |
| [ON] | Starts projecting immediately. | |

[STARTUP INPUT SELECT]

Set the input when the projector is switched on to start projection.

- Press ▲▼ to select [STARTUP INPUT SELECT].
- 2) Press the <ENTER> button.
 - The [STARTUP INPUT SELECT] screen is displayed.
- 3) Press ▲▼◀▶ to select the input, and press the <ENTER> button.

| [LAST USED] | Keeps the input selected last. |
|------------------------|--|
| [RGB1] | Sets the input to RGB1. |
| [RGB2] | Sets the input to RGB2. |
| [DVI-D] | Sets the input to DVI-D. |
| [HDMI] | Sets the input to HDMI. |
| [DIGITAL LINK] | Sets the input to DIGITAL LINK. |
| [SDI1] | Sets the input to SDI1. |
| [SDI2] | Sets the input to SDI2. |
| [INPUT1] - [INPUT10]*1 | Sets the input to DIGITAL LINK, and switches the input of the Panasonic twisted-pair-cable transmitter to the specified input. |

^{*1} When the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the projector, its input name is automatically reflected from [INPUT1] to [INPUT10]. When an item that does not reflect the input name is selected, it will be disabled.

Note

- If [BACKUP INPUT MODE] in the [DISPLAY OPTION] menu → [BACKUP INPUT SETTING] (★ page 110) is set to [1], and the power is turned off with the input set to HDMI in the previous use, the projection will start with DVI-D input even when [STARTUP INPUT SELECT] is set to [LAST USED].
- When [BACKUP INPUT MODE] is set to [2] using the [DISPLAY OPTION] menu → [BACKUP INPUT SETTING] (→ page 110), and the
 power is turned off with the input set to SDI2 in the pervious use, projection will start with the SDI1 input even if [STARTUP INPUT SELECT]
 is set to [LAST USED].

[DATE AND TIME]

Set the time zone, date, and time of the built-in clock of the projector.

Setting the time zone

- Press ▲▼ to select [DATE AND TIME].
- 2) Press the <ENTER> button.
 - The [DATE AND TIME] screen is displayed.

- 3) Press ▲▼ to select [TIME ZONE].
- 4) Press **♦** to switch [TIME ZONE].

Setting the date and time manually

- Press ▲▼ to select [DATE AND TIME].
- 2) Press the <ENTER> button.
 - The [DATE AND TIME] screen is displayed.
- 3) Press ▲▼ to select [ADJUST CLOCK].
- 4) Press the <ENTER> button.
 - The [ADJUST CLOCK] screen is displayed.
- Press ▲▼ to select an item, and press ◀▶ to set the local date and time.
- 6) Press ▲▼ to select [APPLY], and press the <ENTER> button.
 - The setting of the date and time will be completed.

Setting the date and time automatically

- Press ▲▼ to select [DATE AND TIME].
- 2) Press the <ENTER> button.
 - The [DATE AND TIME] screen is displayed.
- 3) Press ▲▼ to select [ADJUST CLOCK].
- 4) Press the <ENTER> button.
 - The [ADJUST CLOCK] screen is displayed.
- 5) Press ▲▼ to select [NTP SYNCHRONIZATION], and press ◀▶ to change the setting to [ON].
- 6) Press ▲▼ to select [APPLY], and press the <ENTER> button.
 - The setting of the date and time will be completed.

Note

- To set the date and time automatically, the projector must be connected to the network.
- If synchronization with the NTP server fails just after [NTP SYNCHRONIZATION] is set to [ON], [NTP SYNCHRONIZATION] will return to [OFF]. If [NTP SYNCHRONIZATION] is set to [ON] while the NTP server is not set, [NTP SYNCHRONIZATION] will return to [OFF].
- Access the projector via a web browser to set the NTP server. Refer to "[Adjust clock] page" (→ page 171) for details.
- The [TIME ZONE] setting is reset to the factory default when [ALL USER DATA] is executed from the [PROJECTOR SETUP] menu →
 [INITIALIZE] (→ page 144). However, the date and time based on the local date and time setting (Coordinated Universal Time, UTC,
 Universal Time, Coordinated) will be maintained without being initialized.

[SCHEDULE]

Set the command execution schedule for each day of the week.

Enabling/disabling the schedule function

- Press ▲▼ to select [SCHEDULE].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Disables the schedule function. | |
|-------|--|--|
| [ио] | Enables the schedule function. Refer to "How to assign a program" (→ page 137) or "How to set a program" (→ page 137) for how to set the schedule. | |

Note

• When [SCHEDULE] is set to [ON], the [STANDBY MODE] setting is forcibly switched to [NORMAL], and the setting cannot be changed. Even if [SCHEDULE] is then set to [OFF] when in this state, the setting of [STANDBY MODE] remains at [NORMAL].

How to assign a program

- Press ▲▼ to select [SCHEDULE].
- 2) Press ◆▶ to select [ON], and press the <ENTER> button.
 - The [SCHEDULE] screen is displayed.
- 3) Select and assign a program to each day of week.
 - Press ▲▼ to select the day of week, and press ◀▶ to select a program number.
 - You can set the program from No.1 to No.7. "- -" indicates that the program number has not been set.

How to set a program

Set up to 16 commands to each program.

- 1) Press ▲▼ to select [SCHEDULE].
- 2) Press ◆▶ to select [ON], and press the <ENTER> button.
 - The [SCHEDULE] screen is displayed.
- 3) Press ▲▼ to select [PROGRAM EDIT].
- 4) Press **♦** to select a program number, and press the **<ENTER>** button.
- 5) Press ▲▼ to select a command number, and press the <ENTER> button.
 - You can change the page using
- 6) Press ▲▼◀▶ to select [TIME], and press the <ENTER> button.
 - The projector is in the adjustment mode (the time is blinking).
- 7) Press **♦** to select "hour" or "minute", and press **▲ ▼** or the number (<0> <9>) buttons to set a time, and then press the <ENTER> button.
- 8) Press ▲▼◀▶ to select [COMMAND].
- 9) Press the <ENTER> button.
 - The [COMMAND] detailed screen is displayed.
- 10) Press ▲▼ to select a [COMMAND].
 - For [COMMAND] which requires detailed settings, the items of the detailed settings will switch each time
 you press ◀▶.
 - When [INPUT] is selected, press the <ENTER> button, and then press ▲▼◀▶ to select the input to be set.

| [COMMAND] | Detailed settings of [COMMAND] | Description |
|------------|--------------------------------|--|
| [POWER ON] | _ | Switches on the projector. |
| [STANDBY] | _ | Enters standby. |
| IQUITTED! | [OPEN] | Disables the shutter function (shutter: open). |
| [SHUTTER] | [CLOSE] | Enables the shutter function (shutter: closed). |
| | [RGB1] | Switches the input to RGB1. |
| | [RGB2] | Switches the input to RGB2. |
| | [DVI-D] | Switches the input to DVI-D. |
| | [HDMI] | Switches the input to HDMI. |
| [INPUT] | [DIGITAL LINK] | Switches the input to DIGITAL LINK. |
| | [SDI1] | Switches the input to SDI1. |
| | [SDI2] | Switches the input to SDI2. |
| | [INPUT1] - [INPUT10]*1 | Switches the input to DIGITAL LINK, and switches the input of the Panasonic twisted-pair-cable transmitter to the specified input. |

| [COMMAND] | Detailed settings of [COMMAND] | Description |
|--------------------|--------------------------------|--|
| | [NORMAL] | Prioritizes luminance. |
| | [ECO] | Controls the power to increase the life of the light source with higher luminance. |
| | [LONG LIFE1] | Controls the power to increase the life of the light source although the luminance is lower than that of [ECO]. |
| [OPERATING MODE]*2 | [LONG LIFE2] | Controls the power to increase the life of the light source although the luminance is even lower than that of [LONG LIFE1]. |
| | [LONG LIFE3] | Controls the power to increase the life of the light source to the maximum although the luminance is even lower than that of [LONG LIFE2]. |
| | [USER1] | Controls the power with the setting set to [USER1]. |
| | [USER2] | Controls the power with the setting set to [USER2]. |
| | [USER3] | Controls the power with the setting set to [USER3]. |
| ID IN DI | [OFF] | P IN P function is not used. |
| | [USER1] | Lays out the sub-screen with the settings of [USER1]. |
| [P IN P] | [USER2] | Lays out the sub-screen with the settings of [USER2]. |
| | [USER3] | Lays out the sub-screen with the settings of [USER3]. |

^{*1} When the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the projector, its input name is automatically reflected from [INPUT1] to [INPUT10]. When an item that does not reflect the input name is selected, it will be disabled.

11) Press the <ENTER> button.

- The command is fixed and is displayed at the left of the selected command.
- After the command is fixed, press the <MENU> button to close the detailed setting screen.

12) Press ▲▼◀▶ to select [STORE], and press the <ENTER> button.

Note

- To delete a command that has been already set, press the <DEFAULT> button on the remote control while the screen in Step 5) is displayed, or select [DELETE] at the screen in Step 6) and press the <ENTER> button.
- If multiple commands have been set for the same time, they are executed in chronological order starting from the smallest command
- The operating time will be the local time. (→ page 135)
- If an operation is executed with the remote control or control panel of the projector or with a control command before the command set in [SCHEDULE] is executed, the command set with the schedule function may not be executed.

[RS-232C]

Set the communication conditions of the <SERIAL IN>/<SERIAL OUT> terminal. Refer to "<SERIAL IN>/<SERIAL OUT> terminal" (→ page 199).

Setting the communication condition of the <SERIAL IN> terminal

- Press ▲▼ to select [RS-232C].
- 2) Press the <ENTER> button.
 - The [RS-232C] screen is displayed.
- 3) Press ▲▼ to select [INPUT SELECT].
- Press ◀▶ to switch the item.

| [PROJECTOR] | Performs the RS-232C communication with the <serial in=""> terminal of the projector.</serial> |
|----------------|---|
| IDIGITAL LINKI | Performs the RS-232C communication via the optional DIGITAL LINK output supported device (Model |
| | No.: ET-YFB100G, ET-YFB200G) and the <digital lan="" link=""> terminal.</digital> |

- 5) Press ▲▼ to select [(IN) BAUDRATE].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

^{*2} If you change the settings while using the projector, the duration until the light source luminance decreases by half may shorten or the luminance may decrease.

| [9600] | |
|---------|--------------------------|
| [19200] | Select the proper speed. |
| [38400] | |

- 7) Press ▲▼ to select [(IN) PARITY].
- 8) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [NONE] | |
|--------|------------------------------|
| [EVEN] | Select the parity condition. |
| [ODD] | |

Setting the communication condition of the <SERIAL OUT> terminal

- 1) Press ▲▼ to select [RS-232C].
- 2) Press the <ENTER> button.
 - The [RS-232C] screen is displayed.
- 3) Press ▲▼ to select [(OUT) BAUDRATE].
- 4) Press **♦** to switch the item.

| [9600] | |
|---------|--------------------------|
| [19200] | Select the proper speed. |
| [38400] | |

- 5) Press ▲▼ to select [(OUT) PARITY].
- 6) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [NONE] | |
|--------|------------------------------|
| [EVEN] | Select the parity condition. |
| [ODD] | |

Setting the response

- 1) Press ▲▼ to select [RS-232C].
- 2) Press the <ENTER> button.
 - The [RS-232C] screen is displayed.
- 3) Press ▲▼ to select [RESPONSE(ID ALL)].
- 4) Press **♦** to switch the item.

| [ON] | Returns the response when an ID is designated as ALL. |
|-------|---|
| [OFF] | Does not return the response when an ID is designated as ALL. |

- 5) Press ▲▼ to select [GROUP].
- 6) Press **♦** to switch the item.

| | Controls multiple projectors simultaneously by sending the ID of RS-232C. You can set groups from |
|--|---|
| | [A] to [Z]. The projector responds when the ID of RS-232C matches the setting. |

- 7) Press ▲▼ to select [RESPONSE(ID GROUP)].
- 8) Press **♦** to switch the item.

| | [ON] | Returns the response when an ID is designated as GROUP. |
|--|------|---|
|--|------|---|

| [OFF] | Does not return the response when an ID is designated as GROUP. |
|-------|---|

Note

- When [INPUT SELECT] is set to [DIGITAL LINK], communication using that serial terminal is available only when the corresponding device (such as the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G)) is connected to the <DIGITAL LINK/ I AN> terminal
- When transferring logos via the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G), setting for "NO SIGNAL SLEEP" of the DIGITAL LINK output supported device should be set to "OFF" to avoid interruption of communication.
- When [INPUT SELECT] is set to [DIGITAL LINK], communication speed for input is fixed to 9 600 bps and the parity is fixed to "NONE".

[REMOTE2 MODE]

You can set the <REMOTE 2 IN> terminal.

- 1) Press ▲▼ to select [REMOTE2 MODE].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [DEFAULT] | Uses pin assignment of the <remote 2="" in=""> terminal in standard setting. (→ page 203)</remote> |
|-----------|--|
| [USER] | Changes the setting of the <remote 2="" in=""> terminal.</remote> |

- When [USER] is selected, proceed to Step 3).
- 3) Press the <ENTER> button.
- 4) Press ▲▼ to select one from [PIN2] to [PIN8], and press ◀▶ to switch the setting.

[FUNCTION BUTTON]

Set the function of the <FUNCTION> button on the remote control.

- 1) Press ▲▼ to select [FUNCTION BUTTON].
- 2) Press the <ENTER> button.
 - The [FUNCTION BUTTON] screen is displayed.
- 3) Press ▲▼ to select a function.

| [DISABLE] | Disables the <function> button.</function> | |
|------------------------|---|--|
| [P IN P] | Switches the [P IN P] setting ([OFF], [USER1], [USER2], or [USER3]). (→ page 146) | |
| [SUB MEMORY] | Displays the sub memory list. (→ page 151) | |
| [SYSTEM SELECTOR] | Switches the [SYSTEM SELECTOR] setting. (▶ page 88) | |
| [SYSTEM DAYLIGHT VIEW] | Switches the [SYSTEM DAYLIGHT VIEW] setting. (→ page 86) | |
| [FREEZE] | Temporarily pauses the image. (→ page 123) | |
| [WAVEFORM MONITOR] | Displays the waveform of the input signal. (➡ page 123) | |
| [LENS MEMORY LOAD] | Loads the registered lens memory. (→ page 141) | |
| [LEFT/RIGHT SWAP] | Switches the [LEFT/RIGHT SWAP] setting. (→ page 103) | |
| [PROJECTION METHOD] | Switches the [PROJECTION METHOD] setting. (→ page 125) | |

4) Press the <ENTER> button.

[LENS CALIBRATION]

Detect the lens shift limit value of the projector and set the home position and the ET-D75LE90 lens standard position automatically.

- 1) Press ▲▼ to select [LENS CALIBRATION].
- 2) Press ◆▶ to switch the item.
 - The items will switch each time you press the button.

| [NORMAL] | Select this item when anything other than the Fixed-focus Lens (Model No.: ET-D75LE90) is used. Move the lens to the home position after completing the calibration. |
|----------|---|
| | Select this item when the Fixed-focus Lens (Model No.: ET-D75LE90) is used. Move the lens to the ET-D75LE90 lens standard position after completing the calibration. |

- 3) Press the <ENTER> button.
 - The confirmation screen is displayed.
- 4) Press **♦** to select [OK], and press the **<ENTER>** button.
 - To cancel, select [CANCEL].
 - The lens moves up, down, left, and right to detect the lens shift limit value, and automatically set the home position and the ET-D75LE90 lens standard position.
 - The lens stops to complete the calibration.

Note

- [PROGRESS] is displayed in the menu during lens calibration. The operation cannot be canceled during calibration.
- When lens calibration executes correctly, [COMPLETE] is displayed and [INCOMPLETE] is displayed when it does not execute correctly.
- Pressing the <FOCUS> button on the remote control for at least three seconds will also display the confirmation screen for lens calibration execution.

[LENS MEMORY]

Save and load the focus position, shift position, and zoom position of an adjusted lens.

Saving lens position

- Press ▲▼ to select [LENS MEMORY].
- 2) Press the <ENTER> button.
- Press ▲▼ to select [LENS MEMORY SAVE].
- 4) Press the <ENTER> button.
 - The [LENS MEMORY SAVE] screen is displayed.
- 5) Press ▲▼ to select the item to save, and press the <ENTER> button.
- 6) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.
 - The [LENS MEMORY NAME INPUT] screen is displayed.
- Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 8) After the name is input, press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The registration completes and returns to the [LENS MEMORY SAVE] screen.
 - If you press ▲▼◀▶ to select [CANCEL] and then press the <ENTER> button, the lens memory will not be saved.
 - If you press ▲▼◀▶ to select [DEFAULT] and press the <ENTER> button, the entered name will not be registered and the default name will be used.
 - If you select [OK] without entering any characters and press the <ENTER> button, the default name will be used.

Loading the lens position

- 1) Press ▲▼ to select [LENS MEMORY].
- 2) Press the <ENTER> button.
- 3) Press ▲▼ to select [LENS MEMORY LOAD].
- 4) Press the <ENTER> button.
 - The [LENS MEMORY LOAD] screen is displayed.
- 5) Press ▲▼ to select the item to load, and press the <ENTER> button.
- 6) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.
 - The lens moves automatically to the registered shift, zoom, and focus positions.

Note

• Lens memory is not guaranteed to be 100 % reproduced.

- The zoom and focus positions may have shifted after lens memory was loaded. Readjust as necessary.
 Beware of shift, as errors in zoom position are particularly significant.
- When a lens is replaced, readjust and save the lens memory again.
- If a lens without zoom function is used, the lens memory of the zoom position does not operate.
- When [LENS MEMORY LOAD] is assigned to the <FUNCTION> button, the registered lens memory is loaded in order each time you press
 the <FUNCTION> button.

Deleting a lens memory

- 1) Press ▲▼ to select [LENS MEMORY].
- 2) Press the <ENTER> button.
- 3) Press ▲▼ to select [LENS MEMORY EDIT].
- 4) Press the <ENTER> button.
 - The [LENS MEMORY EDIT] screen is displayed.
- 5) Press ▲▼ to select [LENS MEMORY DELETE].
- 6) Press the <ENTER> button.
 - The [LENS MEMORY DELETE] screen is displayed.
- Press ▲▼ to select the item to delete, and press the <ENTER> button.
- 8) When the confirmation screen is displayed, press **♦** to select [OK], and press the <ENTER> button.

Changing the lens memory name

- Press ▲▼ to select [LENS MEMORY].
- 2) Press the <ENTER> button.
- 3) Press ▲▼ to select [LENS MEMORY EDIT].
- 4) Press the <ENTER> button.
 - The [LENS MEMORY EDIT] screen is displayed.
- 5) Press ▲▼ to select [LENS MEMORY NAME CHANGE].
- 6) Press the <ENTER> button.
 - The [LENS MEMORY NAME CHANGE] screen is displayed.
- 7) Press ▲▼ to select the name to change, and press the <ENTER> button.
 - The [LENS MEMORY NAME INPUT] screen is displayed.
- Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 9) After the name is changed, press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The registration completes and returns to the [LENS MEMORY NAME CHANGE] screen.
 - If you press ▲▼◀▶ to select [CANCEL] and then press the <ENTER> button, the changed name will not be registered.
 - If you press ▲▼◀▶ to select [DEFAULT] and press the <ENTER> button, the changed name will not be registered and the default name will be used.
 - If you select [OK] without entering any characters and press the <ENTER> button, the default name will be used.

ISTATUS

Display the status of the projector.

- Press ▲▼ to select [STATUS].
- 2) Press the <ENTER> button.
 - The [STATUS] screen is displayed.

3) Press **♦** to switch the pages.

• The page will change each time you press the button.

| IBBO IECTOR TYPE | Diaplays the projector type and s | porial number of the projector | |
|-------------------------------|---|---|--|
| [PROJECTOR TYPE] | Displays the projector type and serial number of the projector. | | |
| [PROJECTOR RUNTIME] | Displays the runtime of the projector. | | |
| [LIGHT RUNTIME] | Displays the runtime of the light | | |
| [MAIN/SUB VERSION] | i | ons of the firmware of the projector. | |
| [INTAKE AIR TEMP.]*1 | Displays the status of the intake | | |
| [OPTICS MODULE TEMP.]*1 | Displays the status of the interna | · · · · · · · · · · · · · · · · · · · | |
| [EXHAUST AIR TEMP.]*1 | · · | st air temperature of the projector. | |
| [AROUND LIGHT1 TEMP.]*1 | | rature around light source 1 of the projector. | |
| [AROUND LIGHT2 TEMP.]*1 | Displays the status of the tempe | rature around light source 2 of the projector. | |
| [COOLING CONDITION] | Displays the set cooling conditio | ns. Automatically recognized result is displayed when set to [AUTO]. | |
| [ATMOSPHERIC PRESSURE] | Displays the atmospheric pressu | ire. | |
| [SELF TEST] | Displays the status of the project | tor. | |
| [INPUT] | Displays the input terminal curre | ntly selected. | |
| [BACKUP INPUT STATUS] | Displays whether switching to the backup input signal is possible or not when [BACKUP INPUT MODE] is set to [OFF]. (→ page 110) | | |
| [SIGNAL NAME] | Displays the input signal name. | | |
| [SIGNAL FREQUENCY] | Displays the frequency of the input signal. | | |
| [NUMBER OF REGISTERED SIGNAL] | Displays the number of registered signals. | | |
| [REMOTE2 STATUS] | Displays the control status of the REMOTE2. | | |
| [AC VOLTAGE] | Displays the input supply voltage. | | |
| [UPGRADE] | [ET-UK20] | Displays the activation status by the Upgrade Kit (Model No.: ET-UK20). | |
| | [ET-CUK10] | Displays the activation status by the Auto Screen Adjustment Upgrade Kit (Model No.: ET-CUK10). | |
| | [POWER ON TIMES] | Displays the number of times the power is turned on. | |
| [ON COUNT] | [SHUTTER] | Displays the number of times the mechanical shutter is closed. It is counted when [MECHANICAL SHUTTER] is set to [ENABLE]. | |
| | [MEMORY NO.] | Displays the memory number of the input signal. | |
| | [INPUT] | Displays the input terminal currently selected. | |
| | [SIGNAL NAME] | Displays the input signal name. | |
| | [SIGNAL FREQUENCY] | Displays the frequency of the input signal. | |
| | [SYNC.STATE] | Displays the synch polarity of the input signal. | |
| | [V.SYNC WIDTH] | Displays the vertical sync signal pulse width of the input signal. | |
| FOLONIAL INFORMATIONS | [SCAN TYPE] | Displays the scan type of the input signal. | |
| [SIGNAL INFORMATION] | [TOTAL DOTS] | Displays the total dot count of the input signal. | |
| | [DISPLAY DOTS] | Displays the number of input signal display dots. | |
| | [TOTAL LINES] | Displays the total line count of the input signal. | |
| | [DISPLAY LINES] | Displays the number of input signal display lines. | |
| | [SAMPLING] | Displays the sampling information of the input signal. | |
| | [SIGNAL LEVEL] | Displays the signal level of the input signal. | |
| | [BIT DEPTH] | Displays the gradation of the input signal. | |
| | | | |

^{*1} The temperature status is indicated with text color (green/yellow/red) and bar scale. Use the projector within the range that the indication is green.

Note

- Press the <ENTER> button while displaying the [STATUS] screen to send an E-mail including the content of status to the E-mail addresses (up to two addresses) set in "[E-mail set up] page" (*) page 172).
- Some items in [SIGNAL INFORMATION] may be displayed and others not displayed, depending on the signal being input.
- If any abnormality has occurred on the projector, press the <DEFAULT> button while the [STATUS] screen is displayed to display the detail
 screen of the error information.
- For details on the contents displayed in [SELF TEST], refer to "Self-diagnosis display" (→ page 189).

[AC VOLTAGE MONITOR]

Enable or disable the AC voltage monitor function. The value of input supply voltage is displayed on the self-diagnosis display at the side of the projector when enabled.

1) Press ▲▼ to select [AC VOLTAGE MONITOR].

2) Press ◆▶ to switch the item.

The items will switch each time you press the button.

| [OFF] | Disables the AC voltage monitor function. |
|-------|---|
| [ON] | Enables the AC voltage monitor function. |

Note

- When [ON] is set, the value of the input supply voltage is always displayed in the self-diagnosis display while the main power of the projector is turned on.
- Even when [OFF] is set, the value of input supply voltage can be displayed temporarily in the self-diagnosis display by operating the button
 on the remote control. (→ page 74)
- The value of input supply voltage cannot be displayed in the self-diagnosis display during standby when the [PROJECTOR SETUP] menu
 → [STANDBY MODE] (→ page 134) is set to [ECO].

ISAVE ALL USER DATA

Save the various setting values as a backup in the built-in memory of the projector.

- Press ▲▼ to select [SAVE ALL USER DATA].
- 2) Press the <ENTER> button.
 - The [SECURITY PASSWORD] screen is displayed.
- 3) Enter a security password and press the <ENTER> button.
- 4) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.
 - [PROGRESS] is displayed while saving data.

Note

· Data set from the computer application is not included in [ALL USER DATA].

[LOAD ALL USER DATA]

Load the various setting values saved as a backup in the built-in memory of the projector.

- 1) Press ▲▼ to select [LOAD ALL USER DATA].
- 2) Press the <ENTER> button.
 - The [SECURITY PASSWORD] screen is displayed.
- 3) Enter a security password and press the <ENTER> button.
- 4) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.

Note

- The projector enters the standby mode to reflect the setting values when [LOAD ALL USER DATA] is executed.
- Data registered from a computer is not included in [ALL USER DATA].

[INITIALIZE]

Return various setting values to their factory default settings.

- Press ▲▼ to select [INITIALIZE].
- 2) Press the <ENTER> button.
 - The [SECURITY PASSWORD] screen is displayed.
- 3) Enter a security password and press the <ENTER> button.
 - The [INITIALIZE] screen is displayed.
- 4) Press ▲▼ to select an item to initialize.

| [ALL USER DATA] | Returns all setting values including [REGISTERED SIGNAL], [NETWORK SETUP], [E-mail set up], and [USER LOGO] to the factory default settings. The projector enters the standby mode to reflect the setting values. |
|---------------------|--|
| [REGISTERED SIGNAL] | Deletes all the setting values saved for each input signal. To delete only a part of a registered signal, perform the procedure described in "Deleting the registered signal" (page 149). |

Chapter 4 Settings — [PROJECTOR SETUP] menu

| [NETWORK/E-MAIL] | Returns [NETWORK SETUP] and [E-mail set up] to factory default settings. |
|------------------|--|
| [LOGO IMAGE] | Deletes the image registered in [USER LOGO]. |

- 5) Press the <ENTER> button.
- 6) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.

Note

• Even when [ALL USER DATA] is executed, the settings of [UNIFORMITY], [OPERATING MODE], [MAX LIGHT OUTPUT LEVEL], and [STANDBY MODE] are not initialized.

[SERVICE PASSWORD]

This function is used by a service person.

[P IN P] menu

On the menu screen, select [P IN P] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (▶ page 76) for the operation of the menu screen.

Using P IN P function

Locate a separate, small sub screen in the main screen to project two images simultaneously.

- 1) Press ▲▼ to select [P IN P MODE].
- 2) Press the <ENTER> button.
 - The [P IN P MODE] screen is displayed.
- 3) Press ▲▼ to select a function.

| [OFF] | P IN P function is not used. |
|---------|--|
| [USER1] | |
| [USER2] | The items set in "Setting P IN P function" (→ page 146) are used in P IN P function. |
| [USER3] | |

4) Press the <ENTER> button.

Setting P IN P function

P IN P function settings can be saved to [USER1], [USER2], and [USER3].

- 1) Press ▲▼ to select [P IN P MODE].
- 2) Press the <ENTER> button.
 - The [P IN P MODE] screen is displayed.
- 3) Press ▲▼ to select the desired mode from [USER1], [USER2], and [USER3], and press the <ENTER> button.
- 4) Press ▲▼ to select [MAIN WINDOW] or [SUB WINDOW], and press the <ENTER> button.
- 5) Press ▲▼ to select the input terminal to be displayed in the window, and press the <ENTER> button.
- 6) Press ▲ ▼to select an item.

| [SIZE] | Set the window display size between 10 % and 100 %. |
|---------------|--|
| [POSITION] | Set the display position of the window within the screen. |
| ICLOCK PHASEL | When the sub window is input from the <rgb 1="" in=""> terminal or the <rgb 2="" in=""> terminal and a flickering image or smeared outline appears, set between 0 and +31.</rgb></rgb> |

- 7) If [SIZE] is selected in Step 6), press the <ENTER> button.
 - The sub-menu is displayed.
- 8) Press ▲ ▼to select an item.
- 9) Press **♦** to make adjustment, and press the **<MENU>** button.
- 10) If [POSITION] is selected in Step 6), press the <ENTER> button.
- 11) Press ▲▼◀▶ to adjust the position, and press the <MENU> button.
- 12) If [CLOCK PHASE] is selected in Step 6), press ◀▶ to make adjustment.
- 13) Press ▲▼ to select [FRAME LOCK].
- 14) Press **♦** to switch the item.

| [MAIN WINDOW] | Set frame lock to the input signal set in the main window. |
|---------------|--|
| [SUB WINDOW] | Set frame lock to the input signal set in the sub window. |

15) Press ▲▼ to select [TYPE].

16) Press **♦** to switch the item.

| [MAIN WINDOW] | The main window has display priority. |
|---------------|---------------------------------------|
| [SUB WINDOW] | The sub window has display priority. |

Note

- The P IN P function may not be available for some signals being input or terminals being selected. Refer to "Two-window display combination list" (> page 204) for details.
- Images in combination of DIGITAL LINK and other inputs cannot be displayed in P IN P.
- The main window setting values are applied to image adjustment values such as [PICTURE MODE], [GAMMA], and [COLOR TEMPERATURE].
- While in the normal screen (where no menu is displayed), press ◀▶ to switch the sizes and positions of the main window and sub window while P IN P is operating.
- [P IN P] cannot be set when [FRAME RESPONSE] is set to other than [NORMAL].
- [P IN P] cannot be set when [BACKUP INPUT MODE] is set to other than [OFF].
- [P IN P] cannot be set when [IMAGE ROTATION] is set to other than [OFF].
- 3D images cannot be displayed while in P IN P.
- [P IN P] cannot be set when [SIMUL INPUT SETTING] is set to other than [OFF].

[TEST PATTERN] menu

On the menu screen, select [TEST PATTERN] from the main menu.

Refer to "Navigating through the menu" (→ page 76) for the operation of the menu screen.

[TEST PATTERN]

Display the test pattern built-in to the projector.

Settings of position, size, and other factors will not be reflected in test patterns. Make sure to display the input signal before performing various adjustments.

1) Press **♦** to switch the [TEST PATTERN] item.

• The items will switch each time you press the button.

| Menu screen + All white | |
|--------------------------------------|--|
| Menu screen + All black | |
| Menu screen + Window | |
| Menu screen + Window (inversion) | |
| Menu screen + Color bar (vertical) | Displays test patterns with the menu screen. Select a test pattern so that it is easy to make various adjustments. |
| Menu screen + Color bar (horizontal) | |
| Menu screen + 16:9/4:3 aspect frame | |
| Menu screen + Focus | |
| Menu screen + Input screen | Displays the menu screen and input signal. Built-in test patterns are not displayed. |

Note

· Press the <ON SCREEN> button on the remote control while the test pattern is displayed to hide the menu screen.

Changing color or a focus test pattern

The color can be changed when the "Menu screen + Focus" test pattern is displayed.

- 1) Press **♦** to select the "Menu screen + Focus" test pattern.
- 2) Press the <ENTER> button.
 - The [TEST PATTERN COLOR] screen is displayed.
- 3) Press ▲▼ to select a color, and press the <ENTER> button.
 - The color of the focus test pattern will be changed to the selected color.

Note

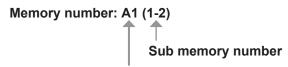
- The test pattern color settings return to [WHITE] when the projector is switched off.
- Colors of the test patterns other than focus test patterns cannot be changed.

[SIGNAL LIST] menu

On the menu screen, select [SIGNAL LIST] from the main menu.

Refer to "Navigating through the menu" (⇒ page 76) for the operation of the menu screen.

Registered signal details



When the address number (A1, A2, ... L7, L8) signal is registered

A name can be set for each sub memory (⇒ page 151).

Registering new signals

After a new signal is input and the <MENU> button on the remote control or the control panel is pressed, the registration is completed and the **[MAIN MENU]** screen is displayed.

• A 3D icon is displayed at the right of the [SIGNAL LIST] screen when a signal is registered as 3D signal.



Note

- Up to 96 signals, including sub memories, can be registered to the projector.
- There are 12 pages (eight memories of A through L, with eight memories possible on each page) for memory numbers, and the signal is
 registered to the lowest number that is available. If there is no available memory number it will be overwritten from the oldest signal.
- The name to be registered is automatically determined by the input signal.
- If a menu is being displayed, the new signals will be registered at the instant they are input.

Renaming the registered signal

Registered signals can be renamed.

- 1) Press A V I to select the signal of which name is to be changed.
- 2) Press the <ENTER> button.
 - The [REGISTERED SIGNAL STATUS] screen is displayed.
 - The memory number, input terminal, input signal name, frequency, synch polarity, etc., are displayed.
 - Press the <MENU> button to return to the [SIGNAL LIST] screen.
- 3) Press the <ENTER> button.
 - The [REGISTERED SIGNAL SETUP] screen is displayed.
- 4) Press ▲▼ to select [SIGNAL NAME CHANGE].
- 5) Press the <ENTER> button.
 - The [SIGNAL NAME CHANGE] screen is displayed.
- 6) Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 7) After the name is changed, press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The registration is completed and the [REGISTERED SIGNAL SETUP] screen returns.
 - When pressing ▲▼◀▶ to select [CANCEL] and pressing the <ENTER> button, the changed signal name will not be registered and an automatically registered signal name will be used.

Deleting the registered signal

Registered signals can be deleted.

- 1) Press ▲▼◀▶ to select the signal to delete.
- 2) Press the <DEFAULT> button on the remote control.
 - The [REGISTERED SIGNAL DELETE] screen is displayed.
 - To cancel the deletion, press the <MENU> button to return to the **[REGISTERED SIGNAL LIST]** screen.

3) Press the <ENTER> button.

• The selected signal will be deleted.

Note

• A registered signal can also be deleted from [REGISTERED SIGNAL DELETE] on the [REGISTERED SIGNAL SETUP] screen.

Protecting the registered signal

- Press ▲▼◀▶ to select the signal to protect.
- 2) Press the <ENTER> button.
 - The [REGISTERED SIGNAL STATUS] screen is displayed.
- 3) Press the <ENTER> button.
 - The [REGISTERED SIGNAL SETUP] screen is displayed.
- 4) Press ▲▼ to select [LOCK].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [OFF] | The signal is not protected. |
|-------|------------------------------|
| [ON] | The signal is protected. |

A lock icon is displayed at the right of the [SIGNAL LIST] screen when [LOCK] is set to [ON].



Note

- When [LOCK] is set to [ON], signal deletion, image adjustment, and automatic setup are not available. To perform these operations, set [LOCK] to [OFF].
- A signal can be registered to the sub memory even if it is protected.
- Even a protected signal will be deleted if [INITIALIZE] is executed.

Expanding signal lock-in range

- Press ▲▼◀▶ to select the signal to set.
- 2) Press the <ENTER> button.
 - The [REGISTERED SIGNAL STATUS] screen is displayed.
- 3) Press the <ENTER> button.
 - The [REGISTERED SIGNAL SETUP] screen is displayed.
- 4) Press ▲▼ to select [LOCK-IN RANGE].
- Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [NARROW] | Select in most cases. |
|----------|---------------------------|
| [WIDE] | Widens the lock-in range. |

 An expansion icon is displayed at the right of the [SIGNAL LIST] screen when [LOCK-IN RANGE] is set to [WIDE].



Note

- Switch the range where the signal to be input is determined to be the same signal as the already registered signal.
- To prioritize the determination that a signal is the same as the already registered signal, set this function to [WIDE].
- · Use in cases such as when the synchronizing frequency of a signal to be input has changed slightly, or multiple signal lists are registered.
- This function can be used only when a signal is input from the <RGB 1 IN> terminal, the <RGB 2 IN> terminal, <DVI-D IN> terminal, the <HDMI IN> terminal, or the <DIGITAL LINK/LAN> terminal.
- When [WIDE] is set, the image may be distorted because a signal is recognized as the same even if its synchronizing frequency varies slightly.

Chapter 4 Settings — [SIGNAL LIST] menu

- When a signal to be input corresponds to multiple signals set in [WIDE], a registered signal with a high memory number receives priority. Example: a signal to be input that corresponds to memory numbers A2, A4 and B1 will be determined to be B1.
- When a registration signal is deleted, the settings are also deleted.
- In an environment where multiple types of signals are input to the same terminal, signals are sometimes not determined correctly when the setting is set to [WIDE].

Sub memory

The projector has a sub memory function that can register the multiple image adjustment data, even if it is recognized as the same signal by the frequency or format of the synchronization signal source.

Use this function when you need to adjust the picture quality such as switching of the aspect ratio or white balance by the same signal source. The sub memory includes all the data that can be adjusted for each signal, such as the image aspect ratio and data adjusted in the [PICTURE] item ([CONTRAST], [BRIGHTNESS], etc.).

Registering to the sub memory

- While in the normal screen (where no menu is displayed), press ◀▶.
 - The sub memory registration screen is displayed if the sub memory is not registered. Proceed to Step 3).
 - A list of sub memories registered to the signal currently input is displayed.
 - The <FUNCTION> button on the remote control can be used instead of ♠ when [SUB MEMORY] is selected from the [PROJECTOR SETUP] menu → [FUNCTION BUTTON].
- Press ▲▼◀▶ to select the sub memory number to register in [SUB MEMORY LIST].
- 3) Press the <ENTER> button.
 - The [SIGNAL NAME CHANGE] screen is displayed.
- 4) Press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - To rename the registered signal, follow the procedure in Steps 6) and 7) in "Renaming the registered signal"
 (⇒ page 149).

Switching to the sub memory

- 1) While in the normal screen (where no menu is displayed), press **♦**▶.
 - A list of sub memories registered to the signal currently input is displayed.
- 2) Press ▲▼◀▶ to select the signal to switch in [SUB MEMORY LIST].
- 3) Press the <ENTER> button.
 - This switches to the signal selected in Step 2).

Deleting the sub memory

- 1) While in the normal screen (where no menu is displayed), press ◀▶.
 - The [SUB MEMORY LIST] screen is displayed.
- 2) Press ▲▼◀▶ to select the sub memory to be deleted, and press the <DEFAULT> button on the remote control.
 - The [REGISTERED SIGNAL DELETE] screen is displayed.
 - To cancel the deletion, press the <MENU> button to return to the **[SUB MEMORY LIST]** screen.
- 3) Press the <ENTER> button.
 - The selected sub memory will be deleted.

[SECURITY] menu

On the menu screen, select [SECURITY] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (→ page 76) for the operation of the menu screen.

When the projector is used for the first time
 Initial password: Press ▲▶▼◀▲▶▼◀ in order, and press the <ENTER> button.

Attention

- When you select the [SECURITY] menu and press the <ENTER> button, entering a password is required. Enter the preset password and then continue operations of the [SECURITY] menu.
- When the password has been changed previously, enter the changed password, and press the <ENTER> button.

Note

- The entered password is displayed with * marks on the screen.
- An error message is displayed on the screen when the entered password is incorrect. Re-enter the correct password.

[SECURITY PASSWORD]

Display the **[SECURITY PASSWORD]** screen when the power is turned on with the <MAIN POWER> switch set to the <OFF> side. When the entered password is incorrect, the operation will be restricted to the power standby < ϕ > button, the <SHUTTER> button, and the <LENS> buttons (<FOCUS>, <ZOOM>, <SHIFT>).

- Press ▲▼ to select [SECURITY PASSWORD].
- 2) Press ◀▶ to switch the item.
 - The items will switch each time you press the button.

| [OFF] | Disables the security password entry. |
|-------|---------------------------------------|
| [ON] | Enables the security password entry. |

Note

- The [SECURITY PASSWORD] setting is set to [OFF] by the factory default or when [ALL USER DATA] in [INITIALIZE] (→ page 144) is
 executed.
- Change the password periodically that is hard to guess.
- The security password is enabled after setting [SECURITY PASSWORD] to [ON] and turning the <MAIN POWER> switch to <OFF>.

[SECURITY PASSWORD CHANGE]

Change the security password.

- 1) Press ▲▼ to select [SECURITY PASSWORD CHANGE].
- 2) Press the <ENTER> button.
 - The [SECURITY PASSWORD CHANGE] screen is displayed.
- Press ▲▼◀▶ and the number (<0> <9>) buttons to set the password.
 - Up to eight button operations can be set.
- 4) Press the <ENTER> button.
- 5) Re-enter the password for the confirmation.
- 6) Press the <ENTER> button.

Note

- The entered password is displayed with * marks on the screen.
- When numerical values are used for the security password, the security password is required to be initialized if the remote control is lost.
 Consult your dealer for the method of initialization.

[DISPLAY SETTING]

Overlap the security message (text or image) over the projecting image.

Press ▲▼ to select [DISPLAY SETTING].

2) Press **♦** to switch the item.

• The items will switch each time you press the button.

| [OFF] | Hides the security message. |
|-------------|---|
| [TEXT] | Displays the text set in the [SECURITY] menu \rightarrow [TEXT CHANGE]. |
| [USER LOGO] | Displays the image registered by the user. |

Note

To create/register the [USER LOGO] image, use "Logo Transfer Software" included in the supplied CD-ROM.

[TEXT CHANGE]

Edit the text to be displayed when [TEXT] is selected in [DISPLAY SETTING].

- Press ▲▼ to select [TEXT CHANGE].
- 2) Press the <ENTER> button.
 - The [TEXT CHANGE] screen is displayed.
- Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.
- 4) Press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - The text is changed.

[CONTROL DEVICE SETUP]

Enable/disable the button operations on the control panel and the remote control.

- Press ▲▼ to select [CONTROL DEVICE SETUP].
- 2) Press the <ENTER> button.
 - The [CONTROL DEVICE SETUP] screen is displayed.
- 3) Press ▲▼ to select [CONTROL PANEL] or [REMOTE CONTROL].

| [CONTROL PANEL] | You can set the limitation on the control from the control panel. |
|------------------|--|
| [REMOTE CONTROL] | You can set the limitation on the control from the remote control. |

- 4) Press the <ENTER> button.
 - The [CONTROL PANEL] screen or the [REMOTE CONTROL] screen is displayed.
- 5) Press ▲▼ to select [CONTROL PANEL] or [REMOTE CONTROL].
- 6) Press **♦** to switch the item.
 - You can set the operation restriction from the control panel or the remote control.

| [ENABLE] | Enables all button operations. |
|-----------|--|
| [DISABLE] | Disables all button operations. |
| | Operation of all buttons can be enabled/disabled separately. Refer to "Enabling/disabling any button" (➡ page 153) for details. |

- 7) Press ▲▼ to select [APPLY], and press the <ENTER> button.
 - The confirmation screen is displayed.
- 8) Press **♦** to select [OK], and press the **<ENTER>** button.

Enabling/disabling any button

- Press ▲▼ to select [CONTROL DEVICE SETUP].
- 2) Press the <ENTER> button.
 - The [CONTROL DEVICE SETUP] screen is displayed.
- 3) Press ▲▼ to select [CONTROL PANEL] or [REMOTE CONTROL].

- 4) Press the <ENTER> button.
 - The [CONTROL PANEL] screen or the [REMOTE CONTROL] screen is displayed.
- Press ▲▼ to select [CONTROL PANEL] or [REMOTE CONTROL].
- 6) Press **♦** to switch [USER].
- 7) Press ▲▼ to select the button item to set.
 - When [INPUT SELECT BUTTON] is selected, press the <ENTER> button, and then press ▲▼ to select
 the button to set.

| | Buttons that can be set | | |
|-----------------------|--|----------------------------|--|
| | [CONTROL PANEL] [REMOTE CONTROL] | | |
| [POWER BUTTON] | Power standby <0> button, power on <1> button | | |
| [INPUT SELECT BUTTON] | <pre><rgb1> button, <rgb2> button, <dvi-d> button, <hdmi> button, <digital link=""> button, <sdi 1="" 2=""> button</sdi></digital></hdmi></dvi-d></rgb2></rgb1></pre> <pre><rgb1> button, <rgb2> button, <video> button, <s-video c="" y=""> button, <dvi-d> button, <hdmi> button, <digital link=""> button, <sdi> button, <input menu=""/> button</sdi></digital></hdmi></dvi-d></s-video></video></rgb2></rgb1></pre> | | |
| [MENU BUTTON] | <menu> button</menu> | | |
| [LENS BUTTON] | <pre><lens> button</lens></pre> Lens buttons (<focus>, <zoom>, <shift< th=""></shift<></zoom></focus> | | |
| [AUTO SETUP BUTTON] | <auto setup=""> button</auto> | | |
| [SHUTTER BUTTON] | <shutter> button</shutter> | | |
| [ASPECT BUTTON] | — <aspect> button</aspect> | | |
| [ON SCREEN BUTTON] | _ | <on screen=""> button</on> | |
| [OTHER BUTTON] | ▲▼◀▶, <enter> button</enter> | Buttons not listed above | |

Press ◀▶ to switch the item.

| [ENABLE] | Enables button operations. |
|-----------|-----------------------------|
| [DISABLE] | Disables button operations. |

• Following items can be selected only when [SDI BUTTON] in [INPUT SELECT BUTTON] is selected.

| [TOGGLE] | Switches between [SDI1] and [SDI2] when the button is operated. | |
|-----------|---|--|
| [SDI1] | Fixes to [SDI1]. | |
| [SDI2] | Fixes to [SDI2]. | |
| [DISABLE] | Disables button operations. | |

- Press the <MENU> button to return to the [CONTROL PANEL] screen or the [REMOTE CONTROL] screen when [INPUT SELECT BUTTON] is selected in Step 7).
- 9) Press ▲▼ to select [APPLY], and press the <ENTER> button.
 - The confirmation screen is displayed.
- 10) Press **♦** to select [OK], and press the **<ENTER>** button.

Note

- When a button operation is performed on the device set to [DISABLE], the [CONTROL DEVICE PASSWORD] screen is displayed.
 Enter the control device password.
- The [CONTROL DEVICE PASSWORD] screen will disappear when there is no operation for approx. 10 seconds.
- If the operations of both [CONTROL PANEL] and [REMOTE CONTROL] are set to [DISABLE], the projector cannot be turned off (cannot enter standby).
- When the setting has completed, the menu screen will disappear. To operate continuously, press the <MENU> button to display the main menu.
- Even when you set button operations on the remote control disabled, operations of the <ID SET> and <ID ALL> buttons on the remote
 control are kept enabled.

[CONTROL DEVICE PASSWORD CHANGE]

The control device password can be changed.

- 1) Press ▲▼ to select [CONTROL DEVICE PASSWORD CHANGE].
- 2) Press the <ENTER> button.
 - The [CONTROL DEVICE PASSWORD CHANGE] screen is displayed.
- Press ▲▼◀▶ to select the text, and press the <ENTER> button to enter the text.

Chapter 4 Settings — [SECURITY] menu

- 4) Press ▲▼◀▶ to select [OK], and press the <ENTER> button.
 - To cancel, select [CANCEL].

Attention

- The initial password is "AAAA" by the factory default or when [ALL USER DATA] in [INITIALIZE] (→ page 144) is executed.
- Change the password periodically that is hard to guess.

[NETWORK] menu

On the menu screen, select [NETWORK] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (→ page 76) for the operation of the menu screen.

[DIGITAL LINK MODE]

Switch the communication method of the <DIGITAL LINK/LAN> terminal of the projector.

- 1) Press ▲▼ to select [DIGITAL LINK MODE].
- 2) Press **♦** to switch the item.
 - The items will switch each time you press the button.

| [AUTO] | Switches the communication method automatically to DIGITAL LINK, long reach, or Ethernet. | |
|----------------|---|--|
| [DIGITAL LINK] | Fixes the communication method to DIGITAL LINK. | |
| [LONG REACH] | Fixes the communication method to long reach. | |
| [ETHERNET] | Fixes the communication method to Ethernet. | |

Possible communication modes

- ✓: Communication possible
- —: Communication not possible

| Setting | | Communication possible | | | |
|----------------|------------------|------------------------------------|------------------------------------|-------------|----------|
| | | Video transfer (100 m (328'1")) | Video transfer (150 m (492'2")) | Ethernet | RS-232C |
| | For DIGITAL LINK | / | _ | ✓ | / |
| [AUTO] | For long reach | _ | ✓ | ✓ | ✓ |
| | For Ethernet | _ | _ | √ *1 | _ |
| [DIGITAL LINK] | | / | _ | ✓ | / |
| [LONG REACH] | | _ | ✓ | ✓ | ✓ |
| [ETHERNET] | | _ | _ | √ *1 | _ |

^{*1} Communication via a twisted-pair-cable transmitter is not available. Connect the projector to the network directly.

Note

- The maximum transmission distance when connected with the long-reach communication method is 150 m (492'2"). However, the signal
 that the projector can receive is only up to 1080/60p (148.5 MHz).
- When the communication method of the twist-pair-cable transmitter is set to long reach, the projector will connect with long-reach communication method when [DIGITAL LINK MODE] is set to [AUTO]. To connect with the optional DIGITAL LINK Switcher (Model No.: ET-YFB200G) with the long-reach communication method, set [DIGITAL LINK MODE] to [LONG REACH].
- Connection will not be made correctly if the twist-pair-cable transmitter is not supporting the long-reach communication method even if [DIGITAL LINK MODE] is set to [LONG REACH].

[DIGITAL LINK SETUP]

Set the communication method of DIGITAL LINK or Ethernet.

When the projector is connected directly via Ethernet

- Press ▲▼ to select [DIGITAL LINK SETUP].
- 2) Press the <ENTER> button.
 - The [DIGITAL LINK SETUP] screen is displayed.
- 3) Press ▲▼ to select [DUPLEX(ETHERNET)].
- Press ◆▶ to switch the communication method.
 - The items will switch each time you press the button.

| [AUTONEGOTIATION] | Sets the communication method automatically. | |
|-------------------|--|--|
| [100BaseTX-Full] | ets full-duplex communication method. | |
| [100BaseTX-Half] | Sets half-duplex communication method. | |

- 5) Press ▲▼ to select [STORE].
- 6) Press the <ENTER> button.
- 7) When the confirmation screen is displayed, press **♦** to select [OK], and then press the **<ENTER>** button.

Note

• The projector does not support 10BaseT Full/Half.

When the projector is connected to a twisted-pair-cable transmitter

- 1) Press ▲▼ to select [DIGITAL LINK SETUP].
- 2) Press the <ENTER> button.
 - The [DIGITAL LINK SETUP] screen is displayed.
- 3) Press ▲▼ to select [DUPLEX(DIGITAL LINK)].
- 4) Press **♦** to switch the communication method.
 - The items will switch each time you press the button.

| [100BaseTX-Full] | Sets full-duplex communication method. | |
|-------------------|--|--|
| [100BaseTX-Half] | Sets half-duplex communication method. | |
| [AUTONEGOTIATION] | Sets the communication method automatically. | |

- 5) Press ▲▼ to select [STORE].
- 6) Press the <ENTER> button.
- 7) When the confirmation screen is displayed, press **♦** to select [OK], and then press the **<ENTER>** button.

[DIGITAL LINK STATUS]

Display the DIGITAL LINK connection environment.

- 1) Press ▲▼ to select [DIGITAL LINK STATUS].
- 2) Press the <ENTER> button.
 - The [DIGITAL LINK STATUS] screen is displayed.

| [LINK STATUS] | Either [NO LINK], [DIGITAL LINK], [LONG REACH], or [ETHERNET] is displayed. | | |
|------------------|---|--|--|
| [HDCP STATUS] | Either [NO SIGNAL], [OFF], or [ON] is displayed. | | |
| [SIGNAL QUALITY] | [SIGNAL QUALITY] is a numerical value of the amount of error, and the display color changes to green, yellow, or red depending on that value. Check the signal quality level while receiving a signal from the twisted-pair-cable transmitter. • [MAX]/[MIN]: Maximum/minimum value of the amount of error • Green (-12 dB or lower) → normal signal quality level. • Yellow (-11 to -8 dB) → caution level that noise may appear on the screen. • Red (-7 dB or higher) → abnormal level with interrupted synchronization and receiving not possible. | | |

[NETWORK SETUP]

Perform the initial setting of the network before using the network function.

- 1) Press ▲▼ to select [NETWORK SETUP].
- 2) Press the <ENTER> button.
 - The [NETWORK SETUP] screen is displayed.
- Press ▲▼ to select an item, and change the settings according to the operation instructions of the menu.

| [PROJECTOR NAME] | Allows to change the projector name. Enter the host name if it is required to use a DHCP server. |
|------------------|--|
| | |

Chapter 4 Settings — [NETWORK] menu

| | [ON] | If a DHCP server exists in the network where the projector is to be connected, obtains the IP address automatically. | |
|-------------------|---|--|--|
| [DHCP] | [OFF] | If a DHCP server does not exist in the network where the projector is to be connected, set [IP ADDRESS], [SUBNET MASK], and [DEFAULT GATEWAY]. | |
| [IP ADDRESS] | Enter the IP address when a DHCP server is not used. | | |
| [SUBNET MASK] | Enter the subnet mask when a DHCP server is not used. | | |
| [DEFAULT GATEWAY] | Enter the default gateway address when a DHCP server is not used. | | |

- 4) Press ▲▼ to select [STORE], and press the <ENTER> button.
- 5) When the confirmation screen is displayed, press **♦** to select [OK], and press the **<ENTER>** button.

Note

- When using a DHCP server, confirm that the DHCP server is running.
- Consult your network administrator regarding the IP address, subnet mask, and default gateway.
- When [Art-Net SETUP] is set to [ON(2.X.X.X)] or [ON(10.X.X.X)], [NETWORK SETUP] cannot be selected.

[NETWORK CONTROL]

Set up the control method of the network.

- 1) Press ▲▼ to select [NETWORK CONTROL].
- 2) Press the <ENTER> button.
 - The [NETWORK CONTROL] screen is displayed.
- 3) Press ▲▼ to select an item, and press ◀▶ to change the setting.

| [WEB CONTROL] | Set to [ON] to control with the web browser. | | |
|---|---|--|--|
| [PJLink CONTROL] | Set to [ON] to control with the PJLink protocol. | | |
| [COMMAND CONTROL] | Set to [ON] to control with the <serial in="">/<serial out=""> terminal control command format (*) page 202). Refer to "Control commands via LAN" (*) page 196).</serial></serial> | | |
| [COMMAND PORT] | Set the port number used for command control. | | |
| [Crestron Connected(TM)] | Set to [ON] to control with Crestron Connected™ of Crestron Electronics, Inc. | | |
| [AMX D.D.] Set to [ON] to control with the controller of AMX Corporation. Setting this function to [ON] enables detection through "AMX Device Discovery". For details, website of AMX Corporation. URL http://www.amx.com/ | | | |
| [EXTRON XTP] | Set to [ON] when connecting the "XTP transmitter" of Extron Electronics to the <digital lan="" link=""> terminal. The [EXTRON XTP] setting must be set to [OFF] when connecting the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G). For details of the "XTP transmitter", visit the website of Extron Electronics. URL http://www.extron.com/</digital> | | |

- 4) Press ▲▼ to select [STORE], and press the <ENTER> button.
- 5) When the confirmation screen is displayed, press **♦** to select [OK], and press the <ENTER> button.

[NETWORK STATUS]

Display the status of the projector network.

- 1) Press ▲▼ to select [NETWORK STATUS].
- 2) Press the <ENTER> button.
 - The [NETWORK STATUS] screen is displayed.

| [DHCP] | Displays the status of use of the DHCP server. | |
|-------------------|---|--|
| [IP ADDRESS] | Displays the [IP ADDRESS]. | |
| [SUBNET MASK] | Displays the [SUBNET MASK]. | |
| [DEFAULT GATEWAY] | Displays the [DEFAULT GATEWAY]. | |
| [DNS1] | Displays the address of the preferred DNS server. | |
| [DNS2] | Displays the address of the alternate DNS server. | |
| [MAC ADDRESS] | Displays the [MAC ADDRESS]. | |

[DIGITAL LINK MENU]

When the optional DIGITAL LINK output supported device (Model No.: ET-YFB100G, ET-YFB200G) is connected to the <DIGITAL LINK/LAN> terminal, the main menu of the connected DIGITAL LINK output supported device is displayed. Refer to the Operating Instructions of the DIGITAL LINK output supported device for details.

Note

- [DIGITAL LINK MENU] cannot be selected when [EXTRON XTP] is set to [ON].
- The operation guidance for the "RETURN" button is in the menu screen of the Digital Interface Box and DIGITAL LINK Switcher. The projector does not have the "RETURN" button, but the same operation is available with the <MENU> button.

[Art-Net SETUP]

Make settings to use the Art-Net function.

- 1) Press ▲▼ to select [Art-Net SETUP].
- 2) Press **♦** to select an item.
 - The items will switch each time you press the button.

| [OFF] | Disables the Art-Net function. | |
|----------------|--|--|
| [ON(2.X.X.X)] | Enables the Art-Net function and sets the IP address to 2.X.X.X. | |
| [ON(10.X.X.X)] | Enables the Art-Net function and sets the IP address to 10.X.X.X. | |
| [ON(MANUAL)] | Enables the Art-Net function and uses the IP address set in [NETWORK SETUP]. | |

- When other than [OFF] is selected, proceed to Step 3).
- 3) Press the <ENTER> button.
 - The [Art-Net SETUP] screen is displayed.
- 4) Press ▲▼ to select an item, and press ◀▶ to switch the setting.

| [NET] | Enter [NET] to be used when the projector processes Art-Net. | |
|-----------------|--|--|
| [SUB NET] | Enter [SUB NET] to be used when the projector processes Art-Net. | |
| [UNIVERSE] | Enter [UNIVERSE] to be used when the projector processes Art-Net. | |
| [START ADDRESS] | Enter [START ADDRESS] to be used when the projector processes Art-Net. | |

- Press ▲▼ to select [STORE], and press the <ENTER> button.
- 6) When the confirmation screen is displayed, press ◀▶ to select [OK], and press the <ENTER> button.

Note

• If [ON(2.X.X.X)] or [ON(10.X.X.X)] is selected, IP address is calculated and set automatically.

[Art-Net CHANNEL SETTING]

Set the assignment of the channel.

For the channel definitions used for controlling the projector with the Art-Net function, refer to "Using Art-Net function" (→ page 193).

- Press ▲▼ to select [Art-Net CHANNEL SETTING].
- 2) Press **♦** to switch the item.

| [2] | Uses the channel assignment in standard setting. |
|--------|--|
| [USER] | Changes the channel assignment. |
| [1] | Uses the channel assignment with DZ21K series compatible. DZ21K series: DZ21K series. DS20K series. DW17K series. DZ16K series |

- When [2] or [1] is selected, pressing the <ENTER> button displays the function assigned to the channel.
- When [USER] is selected, proceed to Step 3).
- 3) Press the <ENTER> button.
 - The [Art-Net CHANNEL SETTING] screen is displayed.
- 4) Press ▲▼ to select the channel to set, and press ◆▶ to switch the item.

Chapter 4 Settings — [NETWORK] menu

| [LIGHT OUTPUT] | Adjusts the amount of light. | |
|------------------|--|--|
| [INPUT SELECT] | Switches the input. | |
| [LENS POSITION] | Moves the lens position. | |
| [LENS H SHIFT] | Adjusts the lens shift in the horizontal direction. | |
| [LENS V SHIFT] | Adjusts the lens shift in the vertical direction. | |
| [LENS FOCUS] | Adjusts the focus. | |
| [LENS ZOOM] | Adjusts the zoom. | |
| [POWER] | Controls the power status. | |
| [SHUTTER] | Controls the shutter. | |
| [GEOMETRY] | Performs geometric adjustment. | |
| [CUSTOM MASKING] | Performs geometric adjustment using the computer. To use PC-1, PC-2, and PC-3, the optional Upgrade Kit (Model No.: ET-UK20) is required. | |
| [FREEZE] | Freezes the projected image. | |
| [COLOR] | Adjusts the color saturation. | |
| [TINT] | Adjusts the tint. | |
| [RASTER PATTERN] | Displays the raster pattern. | |
| [ENABLE/DISABLE] | Enables/disables the control of the projector with the Art-Net function. | |
| [NONE] | No definition | |

- The setting can be also made by pressing ▲▼ to select the channel, pressing the <ENTER> button to display the item list, pressing ▲▼◀▶ to select the item, and pressing the <ENTER> button.
- Same item cannot be set for multiple channels, except for [NONE].

[Art-Net STATUS]

Display the content of control assigned to each channel and the received data of that channel.

- Press ▲▼ to select [Art-Net STATUS].
- 2) Press the <ENTER> button.
 - The [Art-Net STATUS] screen is displayed.

Network connection

The projector has a network function, and the following operations are available from the computer using the web control.

- Setting and adjustment of the projector
- Display of the projector status
- Sending E-mail messages when there is a problem with the projector

The projector supports "Crestron Connected™", and the following application software of Crestron Electronics, Inc. can be used.

- RoomView Express
- Fusion RV
- RoomView Server Edition

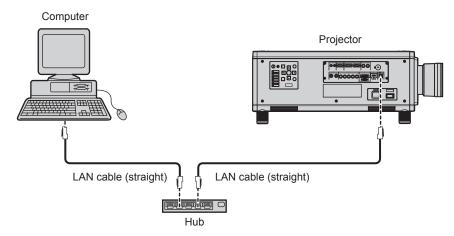
Attention

When a LAN cable is directly connected to the projector, the network connection must be made indoors.

Note

- "Crestron Connected™" is a system of Crestron Electronics, Inc. that collectively manages and controls devices on multiple systems connected to a network using a computer.
- For details of the "Crestron Connected™", visit the website of Crestron Electronics, Inc. (English only.) URL http://www.crestron.com
 - Download "RoomView Express" from the Crestron Electronics, Inc. website. (English only.) URL http://www.crestron.com/getroomview
- A LAN cable is required to use the network function.

■ Example of a normal network connection

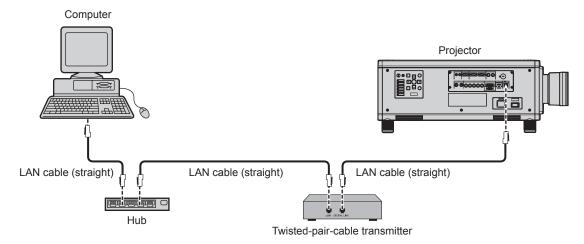


- A web browser is required to use this function. Confirm that the web browser can be used beforehand.
 Supported browser: Internet Explorer 8.0/9.0/10.0/11.0 (Windows OS), Safari 6.0/7.0/8.0 (Mac OS)
- · Communication with an E-mail server is required to use the E-mail function. Confirm that the E-mail can be used beforehand.
- Use a LAN cable that is straight cable and compatible with category 5 or higher.
- Use a LAN cable of 100 m (328'1") or shorter.

Connecting to a twisted-pair-cable transmitter

The projector has a function that can receive Ethernet signals from a twisted-pair-cable transmitter together with video and audio signals via a LAN cable. Connect a LAN cable to the <DIGITAL LINK/LAN> terminal of the projector. (▶ pages 21, 30)

■ Example of network connections via a twisted-pair-cable transmitter



Chapter 4 Settings — [NETWORK] menu

- For the LAN cable between the twisted-pair-cable transmitter and the projector, use a cable that meets the following criteria:
 - Conforming to CAT5e or higher standards
 - Shielded type (including connectors)
 - Straight-through
 - Single wire
- The maximum transmission distance between the twisted-pair-cable transmitter and the projector is 100 m (328'1"). It is possible to transmit up to 150 m (492'2") if the twisted-pair-cable transmitter supports the long-reach communication method. If this distance is exceeded, image may be disrupted or a malfunction may occur in LAN communication.
- When laying cables between the twisted-pair-cable transmitter and the projector, confirm that cable characteristics are compatible with CAT5e or higher using tools such as a cable tester or cable analyzer.

When a relay connector is used, include it in the measurement.

- Do not use a hub between the twisted-pair-cable transmitter and the projector.
- Do not pull cables forcefully. Also, do not bend or fold cables unnecessarily.
- To reduce the effects of noise as much as possible, stretch out the cables between the twisted-pair-cable transmitter and the projector without any loops.
- Lay the cables between the twisted-pair-cable transmitter and the projector away from other cables, particularly power cables.
- · When laying multiple cables, run them side by side along the shortest distance possible without bundling them together.
- After laying the cables, go to the [NETWORK] menu → [DIGITAL LINK STATUS] and confirm that the value of [SIGNAL QUALITY] is displayed in green which indicates normal quality. (→ page 157)
- For twisted-pair-cable transmitters of other manufacturers of which the operation has been verified with the projector, visit the Panasonic website (http://panasonic.net/avc/projector/). Note that the verification for devices of other manufacturers has been made for the items set by Panasonic Corporation, and not all the operations have been verified. For operation or performance problems caused by the devices of other manufacturers, contact the respective manufacturers.

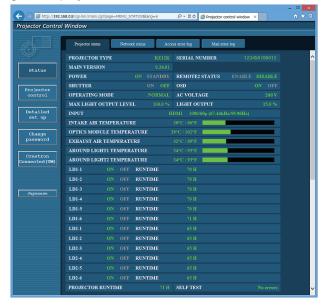
Accessing from the web browser

- 1) Start up the web browser on the computer.
- 2) Enter the IP address set on the projector into the URL entry field of the web browser.
- 3) Enter the user name and the password.
 - The factory default setting of the user name is user1 (user rights)/admin1 (administrator rights) and the password is panasonic (lower case).



4) Click OK.

• The [Projector status] page is displayed.

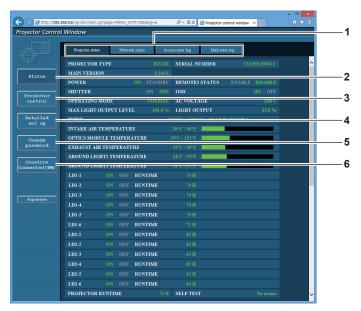


Note

- If you use a web browser to control the projector, set [WEB CONTROL] to [ON] in [NETWORK CONTROL] (→ page 158).
- Do not perform setting or control simultaneously by starting up multiple web browsers. Do not set or control the projector from multiple computers.
- Change the password first. (⇒ page 177)
- The administrator rights allow use of all functions. The user rights allow use of [Projector status] (→ page 165), confirmation of the error information page (→ page 166), [Network status] (→ page 167), [Basic control] (→ page 169), and [Change password] (→ page 177) only
- · Access will be locked for few minutes when an incorrect password is entered three times consecutively.
- Some items on the projector setting page use the Javascript function of the web browser. The projector may not be able to be controlled
 properly if this function is disabled on the browser settings.
- If the screen for the web control is not displayed, consult your network administrator.
- While updating the screen for the web control, the screen may appear white for a moment, but it is not a malfunction.
- · Screenshot of a computer

The size or the display of the screen may be different from this manual depending on the OS or the Web browser you use.

Descriptions of items

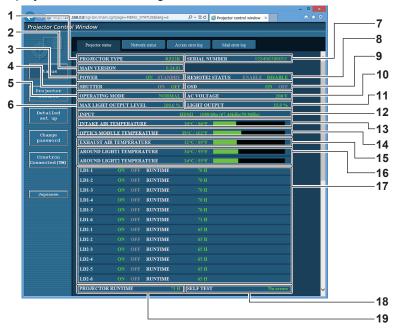


- Page tab
 Switches pages by clicking this item.
- 2 [Status] The status of the projector is displayed by clicking this item.
- 3 [Projector control] The [Projector control] page is displayed by clicking this item.
- 4 [Detailed set up]
 The [Detailed set up] page is displayed by clicking this item.
- 5 [Change password] The [Change password] page is displayed by clicking this item.
- 6 [Crestron Connected(TM)]
 this item. The operation page of Crestron Connected™ is displayed by clicking this item.

[Projector status] page

Click [Status] → [Projector status].

Display the status of the projector for the following items.



1 [PROJECTOR TYPE]

Displays the type of the projector.

2 [MAIN VERSION]

Displays the firmware version of the projector.

3 [POWER]

Displays the status of the power.

4 [SHUTTER]

Displays the status of shutter function (ON: enabled (closed), OFF: disabled (open)).

5 [OPERATING MODE]

Displays the setting status of [OPERATING MODE].

6 [MAX LIGHT OUTPUT LEVEL]

Displays the setting status of [MAX LIGHT OUTPUT LEVEL].

7 [SERIAL NUMBER]

Displays the serial number of the projector.

8 [REMOTE2 STATUS]

Displays the control status of the <REMOTE 2 IN> terminal.

9 [OSD]

Displays the status of the on-screen display.

10 [AC VOLTAGE]

Displays the input supply voltage.

11 [LIGHT OUTPUT]

Displays the setting status of [LIGHT OUTPUT].

12 [INPUT]

Displays the status of the selected input.

13 [INTAKE AIR TEMPERATURE]

Displays the status of the intake air temperature of the projector.

14 [OPTICS MODULE TEMPERATURE]

Displays the status of the internal temperature of the projector.

15 [EXHAUST AIR TEMPERATURE]

Displays the status of the exhaust air temperature of the projector.

16 [AROUND LIGHT1 TEMPERATURE], [AROUND LIGHT2 TEMPERATURE]

Displays the temperature status of the light source.

17 [LD1-1], [LD1-2], [LD1-3], [LD1-4], [LD1-5], [LD1-6], [LD2-1], [LD2-2], [LD2-3], [LD2-4], [LD2-5], [LD2-6]

Displays the lighting status and runtime of the light source.

18 [SELF TEST]

Displays the self-diagnosis information.

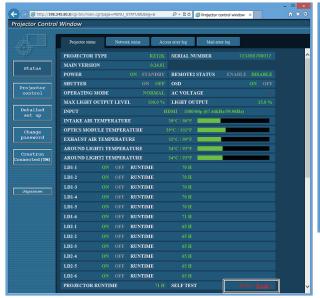
19 [PROJECTOR RUNTIME]

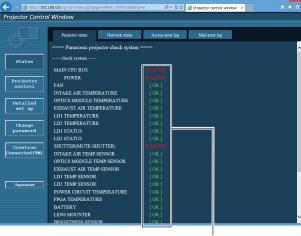
Displays the runtime of the projector.

Error information page

When [Error (Detail)] or [Warning (Detail)] is displayed in the [SELF TEST] display field of the **[Projector status]** screen, click it to display the content of the error/warning.

• The projector may go into the standby status to protect the projector depending on the contents of the error.





1 Self-diagnosis result display

Displays the item check results.

IOK1:

Indicates that operation is normal.

[FAILED]:

Indicates that there is a problem.

[WARNING]:

Indicates that there is a warning.

■ [FAILED] items

| Item | Description |
|-----------------------------|---|
| [MAIN CPU BUS] | There is a problem with the microcomputer circuitry. Consult your dealer. |
| [FAN] | There is a problem with the fan or the fan drive circuit. Consult your dealer. |
| [INTAKE AIR TEMPERATURE] | The intake air temperature is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. |
| [OPTICS MODULE TEMPERATURE] | The temperature around the optics module inside the projector is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. |
| [EXHAUST AIR TEMPERATURE] | The exhaust air temperature is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. Or the air exhaust port may be blocked. |
| [LD1 TEMPERATURE] | The temperature of the light source is high. The projector may be used in an |
| [LD2 TEMPERATURE] | environment where the temperature is high, such as near a heating appliance. |
| [LD1 STATUS] | The light source has failed to turn on. Consult your dealer. |
| [LD2 STATUS] | |
| [SHUTTER(MUTE-SHUTTER)] | There is a problem with the shutter circuitry. Consult your dealer. |
| [INTAKE AIR TEMP.SENSOR] | There is a problem with the sensor used to detect intake temperature. Consult your dealer. |
| [OPTICS MODULE TEMP.SENSOR] | There is a problem with the sensor used to detect temperature inside the projector. Consult your dealer. |
| [EXHAUST AIR TEMP.SENSOR] | There is a problem with the sensor used to detect exhaust air temperature. Consult your dealer. |
| [LD1 TEMP.SENSOR] | There is a problem with the temperature detection sensor of light source 1. Consult your dealer. |
| [LD2 TEMP.SENSOR] | There is a problem with the temperature detection sensor of light source 2. Consult your dealer. |
| [POWER CIRCUIT TEMPERATURE] | The temperature around the power circuit is high. The air intake port may be blocked. |
| [FPGA TEMPERATURE] | The temperature inside the projector is high. The air intake port may be blocked. |
| [LENS MOUNTER] | There is a problem in the lens mounter. Consult your dealer. |

Chapter 4 Settings — [NETWORK] menu

| Item | Description |
|---------------------|---|
| [BRIGHTNESS SENSOR] | There is a problem with the luminance sensor. If problems persist even after switching on the power, consult your dealer. |
| [PHOSPHOR WHEEL1] | There is a problem with the phosphor wheel 1 or phosphor wheel 1 drive circuit. Consult your dealer. |
| [PHOSPHOR WHEEL2] | There is a problem with the phosphor wheel 2 or phosphor wheel 2 drive circuit. Consult your dealer. |
| [FILTER UNIT] | The air filter unit is not attached. Check the connection of the air filter unit. (→ page 184) |

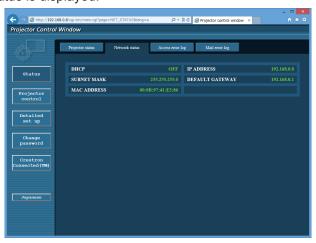
■ [WARNING] items

| Item | Description |
|-----------------------------|---|
| [INTAKE AIR TEMPERATURE] | The intake temperature is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. |
| [OPTICS MODULE TEMPERATURE] | The temperature around the optics module inside the projector is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. |
| [EXHAUST AIR TEMPERATURE] | The exhaust air temperature is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. Or the air exhaust port may be blocked. |
| [LD1 TEMPERATURE] | The temperature of the light source is high. The projector may be used in an environment where the temperature is high, such as near a heating appliance. |
| [LD2 TEMPERATURE] | |
| [POWER CIRCUIT TEMPERATURE] | The temperature around the power circuit is high. The air intake port may be blocked. |
| [FPGA TEMPERATURE] | The temperature inside the projector is high. The air intake port may be blocked. |
| [BATTERY] | Battery replacement is required. Consult your dealer. |
| [AIR FILTER] | There is too much dust accumulated in the air filter. Set the <main power=""> switch to <off> (➡ page 63), and clean the air filter. (➡ page 184)</off></main> |
| [AC VOLTAGE] | The input supply voltage is low. Use electric wiring that can sufficiently withstand the power consumption of the projector. |
| [LOW-TEMPERATURE] | The temperature around the optics module inside the projector is low. Projection cannot be started until the optics module becomes warm. |

[Network status] page

Click [Status] \rightarrow [Network status].

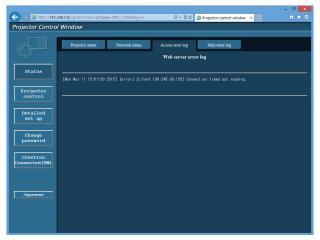
The current network setting status is displayed.



[Access error log] page

Click [Status] → [Access error log].

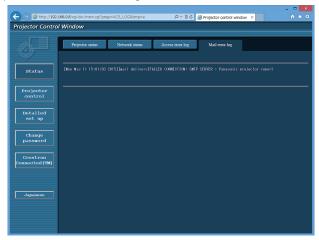
The error log on the web server is displayed such as access to the pages that do not exist or access with unauthorized user names or passwords.



[Mail error log] page

Click [Status] \rightarrow [Mail error log].

E-mail error log is displayed if periodic E-mail sending has failed.

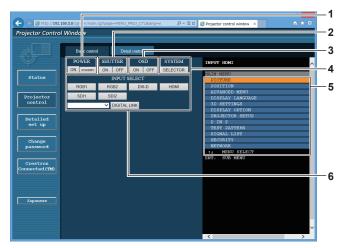


Note

- [Access error log] and [Mail error log] display the recent few thousand accesses/requests. All information may not be displayed when many accesses/requests are made at once.
- · Logs in [Access error log] and [Mail error log] are deleted from the oldest when exceeding a certain amount.
- Check [Access error log] and [Mail error log] periodically.

[Basic control] page

Click [Projector control] → [Basic control].



1 [POWER]

Turns on/off the power.

2 [SHUTTER]

Switches whether to use the shutter function (enabled (shutter: closed)/disabled (shutter: open)).

3 [OSD]

Switches on (display)/off (hide) the on-screen display function.

4 [SYSTEM]

Switches the system method.

5 On-screen display of the projector

Displays the same items as shown on the on-screen display of the projector. You can check or change the settings of the menus. It is displayed even if the on-screen display function is set to off (hide).

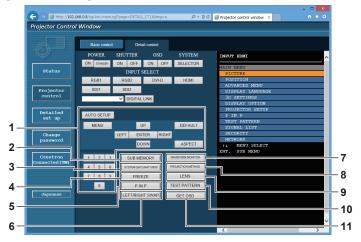
6 [INPUT SELECT]

Switches the input signal.

The content of display for the input selection button is different depending on the model of the projector.

[Detail control] page

Click [Projector control] → [Detail control].



1 Control of the projector

The projector is controlled by clicking the buttons in the same way as the buttons on the remote control. After control, the onscreen display of the projector at the right of the control page is updated.

2 [SUB MEMORY]

Switches the sub memory.

3 [SYSTEM DAYLIGHT VIEW]

Switches to system daylight view settings.

4 [FREEZE]

Temporarily pauses the image.

5 [P IN P]

Switches the P IN P setting.

6 [LEFT/RIGHT SWAP]

Switches the flip horizontal settings.

7 [WAVEFORM MONITOR]

Displays the waveform of the input signal.

8 [PROJECTION METHOD]

Switches the setting of the projection method.

9 [LENS]

Adjusts the projection lens.

10 [TEST PATTERN]

Displays the test pattern.

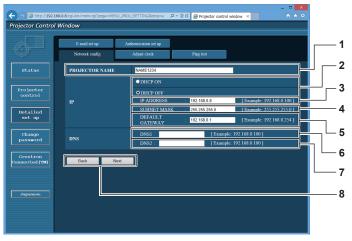
11 [GET OSD]

Updates the on-screen display of the projector at the right of the control page.

[Network config] page

Click [Detailed set up] → [Network config].

- Click [Network config] to display the [CAUTION!] screen.
- The current settings are displayed by pressing the [Next] button.
- Click [Change] to display the setting change screen.



1 [PROJECTOR NAME]

Enter the name of the projector. Enter the host name if it is required when using a DHCP server etc.

2 [DHCP ON], [DHCP OFF]

To enable the DHCP client function, set to [DHCP ON].

3 [IP ADDRESS]

Enter the IP address when not using a DHCP server.

4 [SUBNET MASK]

Enter the subnet mask when not using a DHCP server.

5 [DEFAULT GATEWAY]

Enter the default gateway address when not using a DHCP server.

6 [DNS1]

Enter the DNS1 server address.

Permissible characters for the entry of DNS1 server address (primary):

Numbers (0 - 9), period (.) (Example: 192.168.0.253)

7 [DNS2]

Enter the DNS2 server address.

Available characters for the entry of DNS2 server address (secondary):

Numbers (0 - 9), period (.) (Example: 192.168.0.254)

8 [Back], [Next]

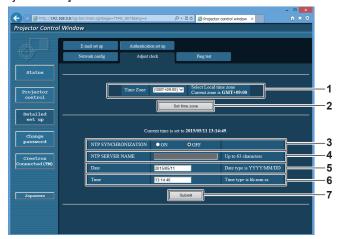
Click the [Back] button to return to the original screen. The current settings are displayed by pressing the [Next] button. Click the [Submit] button to update the settings.

Note

- When you use the "Forward" and "Back" functions of your browser, a warning message "Page has Expired" may appear. In that case, click [Network config] again since the following operation will not be guaranteed.
- Changing LAN settings while connected to the LAN may cause the connection to cut out.

[Adjust clock] page

Click [Detailed set up] → [Adjust clock].



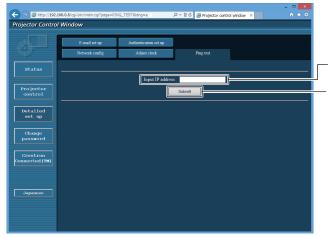
- 1 [Time Zone] Select the time zone.
- 2 [Set time zone] Updates the time zone setting.
- 3 [NTP SYNCHRONIZATION]
 Set to [ON] to adjust the date and time automatically.
- 4 [NTP SERVER NAME] Enter the IP address or server name of the NTP server when you set to adjust the date and time manually. (To enter the server name, the DNS server needs to be set up.)
- 5 [Date]
 Enter the date to be changed.
- 6 [Time]
 Enter the time to be changed.
- 7 [Submit] Updates the date and time settings.

Note

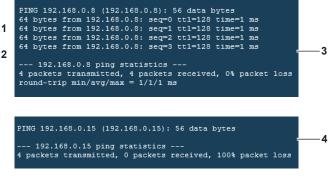
• The replacement of the battery inside the projector is required when the time goes out of alignment right after correcting the time. Consult your dealer.

[Ping test] page

Check whether the network is connected to the E-mail server, POP server, DNS server, etc. Click [Detailed set up] \rightarrow [Ping test].



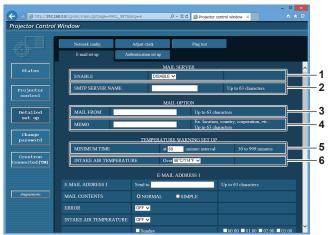
- 1 [Input IP address]
 Enter the IP address of the server to be tested.
- 2 [Submit] Executes the connection test.



- 3 Example of display when the connection has succeeded
- 4 Example of display when the connection has failed

[E-mail set up] page

Send an E-mail to preset E-mail addresses (up to two addresses) when a problem has occurred. Click [Detailed set up] \rightarrow [E-mail set up].



1 [ENABLE]

Select [Enable] to use the E-mail function.

2 [SMTP SERVER NAME]

Enter the IP address or the server name of the E-mail server (SMTP). To enter the server name, the DNS server needs to be set up.

3 [MAIL FROM]

Enter the E-mail address of the projector. (Up to 63 characters in single byte)

4 [MEMO]

Enter information such as the location of the projector that notifies the sender of the E-mail. (Up to 63 characters in single byte)

5 [MINIMUM TIME]

Change the minimum interval for the temperature warning E-mail. The default value is 60 minutes. In this case, another E-mail will not be sent for 60 minutes after sending the temperature warning E-mail even if it reaches the warning temperature.

6 [INTAKE AIR TEMPERATURE]

Change the temperature setting for the temperature warning mail. A temperature warning E-mail is sent when the temperature exceeds this value.



7 [E-MAIL ADDRESS 1], [E-MAIL ADDRESS 2]

Enter the E-mail address to be sent. Leave [E-MAIL ADDRESS 2] blank when two E-mail addresses are not to be used.



8 Settings of the conditions to send E-mail

Select the conditions to send E-mail.

[MAIL CONTENTS]:

Select either [NORMAL] or [SIMPLE].

[ERROR]:

Send an E-mail when an error occurred in the self-diagnosis.

[INTAKE AIR TEMPERATURE]:

Send an E-mail when the intake air temperature has reached the value set at the above field.

[PERIODIC REPORT]:

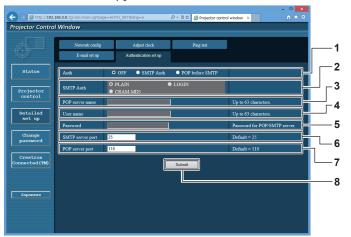
Place a check mark on this to send an E-mail periodically. It will be sent on the days and time with the check mark.

9 [Submit]

Update the settings.

[Authentication set up] page

Set the authentication items when POP authentication or SMTP authentication is necessary to send an E-mail. Click [Detailed set up] \rightarrow [Authentication set up].



1 [Auth]

Select the authentication method specified by your Internet service provider.

2 [SMTP Auth]

Set when the SMTP authentication is selected.

3 [POP server name]

Enter the POP server name. Allowed characters: Alphanumerics (A - Z, a - z, 0 - 9) Minus sign (-) and period (.)

4 [User name]

Enter the user name for the POP server or the SMTP server.

5 [Password]

Enter the password for the POP server or the SMTP server.

6 [SMTP server port]

Enter the port number of the SMTP server. (Normally 25)

7 [POP server port]

Enter the port number of the POP server. (Normally 110)

8 [Submit]

Update the settings.

Contents of E-mail sent

Example of the E-mail sent when E-mail is set

The following E-mail is sent when the E-mail settings have been established.

```
== Panasonic projector report(CONFIGURE) ===
Projector Type
                            : 123456789012
Serial No
      E-mail setup data --
TEMPERATURE WARNING SETUP MINIMUM TIME
                                          at [ 60] minutes interval
INTAKE AIR TEMPERATURE
                                         Over [ 46 degC / 114 degF ]
ERROR
                                          1 OFF
INTAKE AIR TEMPERATURE
PERIODIC REPORT
Sunday [ON] Monday [ON] Tuesday [ON] Wednesday [ON] Thursday [ON] Friday [ON] Saturday [ON]
04:00 [ ON ]
08:00 [ ON ]
12:00 [ ON ]
                   05:00 [ ON ]
09:00 [ ON ]
13:00 [ ON ]
17:00 [ ON ]
                                       06:00 [ ON ]
10:00 [ ON ]
14:00 [ ON ]
                                                          07:00 [ ON
11:00 [ ON
15:00 [ ON
19:00 [ ON
16:00 [ ON
                                       18:00 [ ON
20:00 [ON] 21:00 [ON]
                                      22:00 [ ON ]
                                                          23:00 [ ON ]
      check system -
MAIN CPU BUS
INTAKE AIR TEMPERATURE
                                                   OK
OPTICS MODULE TEMPERATURE
EXHAUST AIR TEMPERATURE
                                                   OK
OK
LD1 TEMPERATURE
LD2 TEMPERATURE
                                                   OK
OK
LD1 STATUS
                                                   OK
                                                   ΟK
TETER UNIT
AIR FILTER
                                                [ OK
AC VOLTAGE
: 30 degC / 86 degF
: 39 degC / 102 degF
: 32 degC / 89 degF
: 34 degC / 93 degF
: 34 degC / 93 degF
Intake air temperature
Optics module temperature
Exhaust air temperature
Around light1 temperature
Around light2 temperature
PROJECTOR RUNTIME
POWER ON
                                   77 H
1906 times
LD1-1 ON
LD1-1 RUNTIME
                                   1906 times
I D1-2 ON
                                   1906 times
LD1-2 RUNTIME
                                      76 H
                                   1906 times
LD1-3 ON
LD1-3 RUNTIME
LD1-4 ON
                                   76 H
1906 times
LD1-4 RUNTIME
LD1-5 ON
                                   1906 times
LD1-5 RUNTIME
LD1-6 ON
                                      76 H
                                   1906 times
LD1-6 RUNTIME
LD2-1 ON
LD2-1 RUNTIME
                                     76 H
                                   1900 times
                                      75 H
LD2-2 ON
LD2-2 RUNTIME
                                   1900 times
                                     75 H
LD2-3 ON
LD2-3 RUNTIME
                                   1900 times
                                      75 H
LD2-4 ON
LD2-4 RUNTIME
                                   1900 times
LD2-5 ON
                                   1900 times
LD2-5 RUNTIME
                                   1900 times
LD2-6 ON
LD2-6 RUNTIME
----- Current status --
                                   0.04.01
SUB VERSION
LD STATUS
LD1-1=ON LD1-2=ON LD1-3=ON LD1-4=OFF LD1-5=OFF LD1-6=ON LD2-1=ON LD2-2=ON LD2-3=ON LD2-4=OFF LD2-5=OFF LD2-6=OFF INPUT SDI1
SIGNAL NAME
SIGNAL FREQUENCY
                                   ---kHz / ---Hz
REMOTE2 STATUS
                                  DISABLE
    -- Wired Network configuration -----
                    OFF
192.168.0.8
DHCP Client
IP address
MAC address
                     12:34:56:78:90:12
Mon Jan 01 12:34:56 20XX
---- Memo ----
```

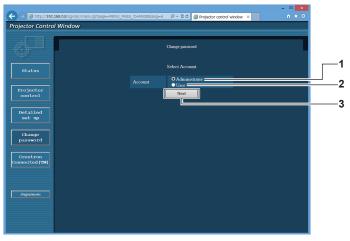
Example of the E-mail sent for an error

The following E-mail is sent when an error has occurred.

```
== Panasonic projector report(ERROR) ===
                                : RZ12K
: 123456789012
Projector Type
Serial No
---- check system -----
MAIN CPU BUS
                                                   [FAILED ]
                                                      OK
OK
OK
FAN
INTAKE AIR TEMPERATURE
OPTICS MODULE TEMPERATURE
EXHAUST AIR TEMPERATURE
LD1 TEMPERATURE
LD2 TEMPERATURE
                                                      OK
OK
LD1 STATUS
LD2 STATUS
                                                      OK
OK
SHUTTER(MUTE-SHUTTER)
                                                      OK
INTAKE AIR TEMP.SENSOR
OPTICS MODULE TEMP.SENSOR
                                                      OK
OK
CHICS MODULE TEMP. SENSOR
EXHAUST AIR TEMP. SENSOR
LD1 TEMP. SENSOR
LD2 TEMP. SENSOR
POWER CIRCUIT TEMPERATURE
                                                      OK
OK
                                                      OK
OK
                                                      OK
OK
FPGA TEMPERATURE
BATTERY
LENS MOUNTER
                                                      OK
OK
OK
BRIGHTNESS SENSOR
PHOSPHOR WHEEL1
PHOSPHOR WHEEL2
FILTER UNIT
                                                      OK
OK
AIR FILTER
                                                      ΩK
Intake air temperature
                                    : 30 deaC / 86 deaF
Intake air temperature : 30 degC / 102 degF
Optics module temperature : 39 degC / 102 degF
Exhaust air temperature : 32 degC / 89 degF
Around light1 temperature: 34 degC / 93 degF
PROJECTOR RUNTIME 77 H
POWER ON
                                      1906 times
LD1-1 ON
LD1-1 RUNTIME
LD1-2 ON
                                      1906 times
                                     76 H
1906 times
LD1-2 RUNTIME
LD1-3 ON
                                     1906 times
LD1-3 RUNTIME
                                        76 H
LD1-4 ON
                                     1906 times
LD1-4 RUNTIME
LD1-5 ON
                                     76 H
1906 times
LD1-5 RUNTIME
LD1-6 ON
                                     76 H
1906 times
LD1-6 ON
LD1-6 RUNTIME
LD2-1 ON
LD2-1 RUNTIME
                                         76 H
                                      1900 times
                                        75 H
LD2-2 ON
                                     1900 times
LD2-2 ON
LD2-2 RUNTIME
LD2-3 ON
LD2-3 RUNTIME
                                         75 H
                                      1900 times
                                        75 H
LD2-4 ON
LD2-4 RUNTIME
                                     1900 times
                                         75 H
                                     1900 times
LD2-5 ON
LD2-5 RUNTIME
                                        75 H
LD2-6 ON
                                      1900 times
LD2-6 RUNTIME
----- Current status ----- MAIN VERSION
SUB VERSION
                                     0.04.01
LD STATUS
LD STATUS
LD1-1=ON LD1-2=ON LD1-3=ON LD1-4=OFF LD1-5=OFF LD1-6=ON
LD2-1=ON LD2-2=ON LD2-3=ON LD2-4=OFF LD2-5=OFF LD2-6=OFF
INPUT
                                    SDI1
SIGNAL NAME
SIGNAL FREQUENCY
                                      ---kHz / ---Hz
REMOTE2 STATUS
                                     DISABLE
---- Wired Network configuration - DHCP Client OF
                                    192.168.0.8
IP address
MAC address
                                    12:34:56:78:90:12
Mon Jan 01 12:34:56 20XX
---- Memo -----
```

[Change password] page

Click [Change password].



1 [Administrator]

Used to change the setting of the [Administrator].

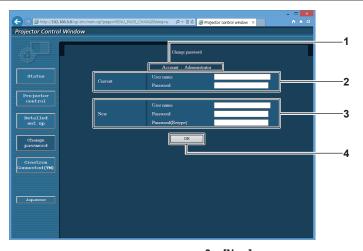
2 [User]

Used to change the setting of the [User].

3 [Next

Used to change the setting of the password.

[Administrator] account



1 [Account]

Displays the account to change.

2 [Current]

[User name]:

Enter the user name before the change.

[Password]:

Enter the current password.

3 [New]

[User name]:

Enter the desired new user name. (Up to 16 characters in single byte)

[Password]:

Enter the desired new password. (Up to 16 characters in single byte)

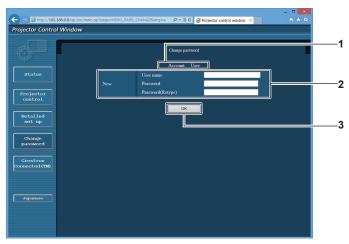
[Password(Retype)]:

Enter the desired new password again.

4 [OK]

Determines the change of password.

[User] account



1 [Account]

Displays the account to change.

2 [New]

[User name]:

Enter the desired new user name. (Up to 16 characters in single byte)

[Password]:

Enter the desired new password. (Up to 16 characters in single byte)

[Password(Retype)]:

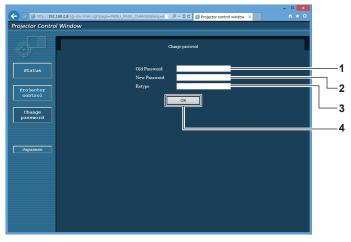
Enter the desired new password again.

3 [OK]

Determines the change of password.

[Change password] (For user rights)

Only the change of password is enabled under the user rights.



1 [Old Password]

Enter the current password.

2 [New Password]

Enter the desired new password. (Up to 16 characters in single byte)

3 [Retype]

Enter the desired new password again.

4 [OK]

Determines the change of password.

Note

• To change the account of the administrator, you must enter the [User name] and [Password] in [Current].

[Crestron Connected(TM)] page

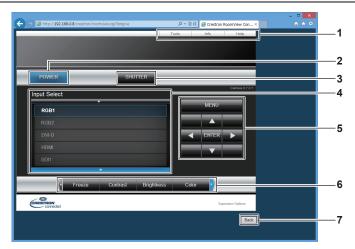
The projector can be monitored/controlled with Crestron Connected™.

It is necessary to access with the administrator rights to start the operation screen of Crestron Connected™ from the web control screen. (The [Crestron Connected(TM)] button is not displayed in the web control screen with the user rights.)

The operation page of Crestron Connected™ is displayed by clicking [Crestron Connected(TM)].

It is not displayed if Adobe Flash Player is not installed on your computer, or the browser you use does not support Flash. In such a case, click [Back] in the operation page to go back to the previous page.

Operation page



1 [Tools], [Info], [Help]

Tabs for selecting the setting, information, or help page of the projector.

2 [POWER]

Turns on/off the power.

3 [SHUTTER]

Switches whether to use the shutter function (enabled (shutter: closed)/disabled (shutter: open)).

4 [Input Select]

Controls input selection.

Not available when the power of the projector is turned off.

5 Menu screen control buttons

Navigates the menu screen.

6 Freeze/image quality adjustment

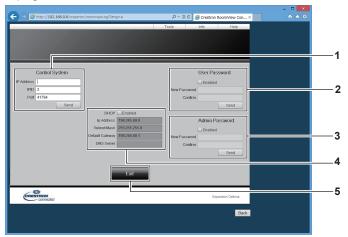
Controls items related to freeze/image quality.

7 [Back]

Returns to the previous page.

[Tools] page

Click [Tools] in the operation page.



1 [Control System]

Set the information required for communicating with the controller to be connected with the projector.

2 [User Password]

Set the user rights password for the operation page of Crestron Connected $^{\!\top\!M}.$

3 [Admin Password]

Set the administrator rights password for the operation page of Crestron Connected $^{\text{TM}}\!.$

4 Network status

Displays the settings of wired LAN. **[DHCP]**

Displays the current setting.

[lp Address]

Displays the current setting.

[Subnet Mask]

Displays the current setting.

[Default Gateway]

Displays the current setting.

[DNS Server]

Displays the current setting.

5 [Exit]

Returns to the operation page.

[Info] page

Click [Info] in the operation page.



- 1 [Projector Name]
 - Displays the projector name.
- 2 [Mac Address] Displays the MAC address.
- 3 [Lamp1 Hours], [Lamp2 Hours]
 Displays the runtime of the light source 1 and the light source 2.
- 4 [Power Status]
 Displays the status of the power.

- 5 [Source] Displays the selected input.
- 6 [Error Status]
 Displays the error status.
- 7 [Exit]
 Returns to the operation page.

[Help] page

Click [Help] in the operation page.

The [Help Desk] window is displayed.



1 [Help Desk]

A message can be sent/received with the administrator using the Crestron Connected $^{\text{TM}}. \\$

Chapter 5 Maintenance

This chapter describes methods of inspection when there are problems, maintenance, and replacement of the units

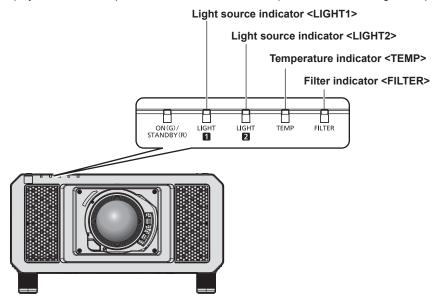
Light source/temperature/filter indicators

When an indicator lights up

If a problem occurs inside the projector, the light source indicators <LIGHT1>/<LIGHT2>, temperature indicator <TEMP>, or filter indicator <FILTER> will inform you by lighting or blinking in red. Check the status of the indicators and take following measures.

Attention

When switching off the projector to deal with problems, make sure to follow the procedure in "Switching off the projector" (→ page 63).



Light source indicators <LIGHT1>/<LIGHT2>

| Indicator status | Blinking in red (2 times) | Blinking in red (3 times) | | |
|------------------|--|------------------------------|--|--|
| Status | The light source does not light up, or the light source turns off while the projector is in use. | | | |
| Cause | _ | | | |
| Solution | • Turn the <main power=""> switch to <off> (→ page 63),</off></main> | and turn on the power again. | | |

Note

- If the light source indicators <LIGHT1>/<LIGHT2> are still lit or blinking after taking the measures, ask your dealer for repair.
- The light source indicator corresponding to the light source being lit will light up in green if the projector is in projection mode and there is no indication of problem by lighting or blinking in red.

Temperature indicator <TEMP>

| Indicator status | Lighting in red | | Blinking in red (2 times) | Blinking in red (3 times) |
|------------------|--|---|------------------------------|---|
| Status | Warm-up status | | | The cooling fan has stopped. |
| Cause | Did you turn on the power when the temperature was low (around 0 °C (32 °F))? | Is the air intake/exhaust port blocked? Is the room temperature high? Is the filter indicator <filter> lit?</filter> | | _ |
| Solution | Wait at least five minutes in the current status. Install the projector in a location with the operating environment temperature between 0 °C (32 °F) and 50 °C (122 °F)*1. | Remove any objects that are blocking the air intake/ exhaust port. Install the projector in a location with the operating environment temperature between 0 °C (32 °F) and 50 °C (122 °F) 1, and ambient humidity between 10 % and 80 % (no condensation). Clean or replace the air filter unit. (→ page 184) | | Turn the <main power=""> switch to <off> (⇒ page 63), and consult your dealer.</off></main> |

^{*1} The operating environment temperature should be between 0 °C (32 °F) and 45 °C (113 °F) if the projector is used at an altitude between 1 400 m (4 593') and 4 200 m (13 780') above sea level. When [OPERATING MODE] in the [PROJECTOR SETUP] menu → [OPERATION SETTING] is set to [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3], the operating environment temperature should be between 0 °C (32 °F) and 45 °C (113 °F), and when the Smoke Cut Filter is used, it should be between 0 °C (32 °F) and 40 °C (104 °F) regardless of the altitude. When [OPERATING MODE] in the [PROJECTOR SETUP] menu → [OPERATION SETTING] is set to [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3], the projector cannot be used at an altitude of 2 700 m (8 858') or higher above sea level. When the Smoke Cut Filter is used, the projector cannot be used at an altitude of 1 400 m (4 593') or higher above sea level.

Note

• If the temperature indicator <TEMP> is still lit or blinking after taking the measures, ask your dealer for repair.

Filter indicator <FILTER>

| Indicator status | | Blinking in red | | |
|------------------|---|--|--|-----------------------------|
| Status | The filter is clogged. The temperature inside or ou | The air filter unit is not attached. | | |
| Cause | Is the air filter unit dirty? | Is the air intake/exhaust port blocked? | Is the air filter unit attached? | |
| Solution | Clean or replace the air filter unit. (➡ page 184) | Remove any objects that are blocking the air intake/ exhaust port. | Do not use the projector at an altitude of 4 200 m (13 780')*1 or higher above sea level. | Attach the air filter unit. |

[&]quot;1 When [OPERATING MODE] in the [PROJECTOR SETUP] menu → [OPERATION SETTING] is set to [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3], the projector cannot be used at an altitude of 2 700 m (8 858') or higher above sea level. When the Smoke Cut Filter is used, the projector cannot be used at an altitude of 1 400 m (4 593') or higher above sea level.

Note

If the filter indicator <FILTER> is still lit or blinking after taking the measures, ask your dealer for repair.

Maintenance/replacement

Before performing maintenance/replacement

- Make sure to turn off the power before maintaining or replacing the unit. (⇒ pages 54, 63)
- When switching off the projector, make sure to follow the procedures in "Switching off the projector"
 (*) page 63).

Maintenance

Outer case

Wipe off dirt and dust with a soft, dry cloth.

- If the dirt is persistent, soak the cloth with water and wring it thoroughly before wiping. Dry off the projector with a dry cloth.
- Do not use benzene, thinner, or rubbing alcohol, other solvents, or household cleaners. Doing so may deteriorate the outer case.
- When using chemically treated dust cloths, follow the instructions written on its packaging.

Lens front surface

Wipe off dirt and dust from the front surface of the lens with a soft clean cloth.

- Do not use a cloth that is fluffy, dusty, or soaked with oil/water.
- Since the lens is fragile, do not use excessive force when wiping the lens.

Attention

· The lens is made of glass. Impacts or excessive force when wiping may scratch its surface. Handle with care.

Air filter unit

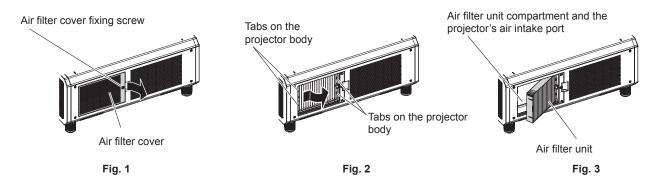
Perform maintenance of the air filter unit in the following cases.

 The air filter is clogged with dust, causing the filter replacement message to appear on the screen and the filter indicator <FILTER> to light in red.

Attention

- Make sure to turn off the power before performing maintenance on the air filter unit.
- · Make sure that the projector is stable, and perform the maintenance in a safe place even if you drop it accidentally.

Removing the air filter unit



1) Remove the air filter cover. (Fig. 1)

- Use a Phillips screwdriver to turn the air filter cover screw counterclockwise until it turns freely, and then remove the air filter cover.
- Loosen the air filter cover fixing screw while putting your hand on.

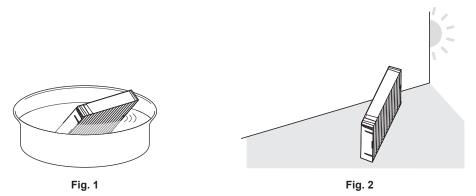
2) Pull out the air filter unit.

Pull out the air filter unit frame from the tabs of the projector body while slightly pressing around the center
of the frame at the front side (with the lens) inward as described with the arrow, and pull out the frame at the
opposite side from the tabs to remove the air filter unit. (Fig. 2)

• After pulling out the air filter unit, remove large foreign objects and dust from the air filter unit compartment and the air intake port of the projector body if there are any. (Fig. 3)

Cleaning the air filter unit

Remove the air filter unit beforehand with the previously described procedure of "Removing the air filter unit".



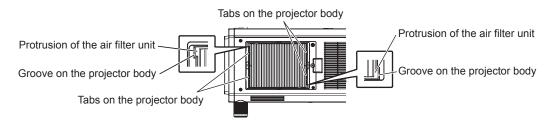
1) Wash the air filter unit. (Fig. 1)

- i) Soak the air filter unit in cold or warm water and then lightly rinse it.
 - Do not use cleaning tools such as brushes.
 - When rinsing, hold the frame of the air filter unit without putting strong pressure on the filter unit.
- ii) Rinse the air filter unit two to three times using fresh water each time.
 - Insufficient rinsing may result in odors.

2) Dry the air filter unit. (Fig. 2)

- Let the air filter unit naturally dry off in a well-ventilated place where there is little dust and is not exposed to direct sunlight.
- Do not dry using drying devices such as dryers.
- After the air filter is dried, proceed to "Attaching the air filter unit" (⇒ page 185).

Attaching the air filter unit



1) Attach the air filter unit to the projector.

- The air filter unit has no difference between top and bottom, but is two-sided. Match the protrusion position of the air filter unit with the grooves on the projector body.
- Hook the air filter unit frame at the air exhaust port side to the two tabs of the back side of the projector's air filter unit compartment and perform Step 2) in "Removing the air filter unit" in the reverse order to attach.
- Confirm that the tabs of the air filter unit compartment of the projector body are hooked to the air filter unit frame.

2) Attach the air filter cover to the projector and use a Phillips screwdriver to tighten the air filter cover screw.

Attach the air filter cover by performing Step 1) in "Removing the air filter unit" (⇒ page 184) in the reverse
order.

Attention

- After washing the air filter unit, dry it thoroughly before attaching it back to the projector. Attaching a wet unit will cause an electric shock or malfunction.
- Do not disassemble the air filter unit.
- Take care not to touch the air intake fan in the air filter unit compartment when removing dirt or dust.

Chapter 5 Maintenance — Maintenance/replacement

Note

- Make sure that the air filter unit is properly attached before using the projector. If it is not properly attached, the projector will suck in dirt and dust causing a malfunction.
- If you use the projector without attaching the air filter unit, the filter indicator <FILTER> blinks in red and the message appears on the projected image for approximately 30 seconds.
- Replace the air filter unit with the new optional Replacement Filter Unit (Model No.: ET-EMF330) if it is damaged or if the dirt does not come
 off even after washing.
- Air filter replacement is recommended after cleaning the unit two times.
- · The dust-proof properties may be reduced after each cleaning

Replacing the unit

Air filter unit

If dirt does not come off even after the unit is maintained, it is time for the unit to be replaced.

The Replacement Filter Unit (Model No.: ET-EMF330) is an optional accessory. To purchase the product, consult your dealer.

Replacing the air filter unit

Attention

- Make sure to turn off the power before replacing the air filter unit.
- · When attaching the unit, make sure that the projector is stable, and perform the replacement in a safe place even if you drop it accidentally.

1) Remove the air filter unit.

Refer to "Removing the air filter unit" (⇒ page 184).

Attach the optional Replacement Filter Unit (Model No.: ET-EMF330) to the projector.

- The air filter unit has no difference between top and bottom, but is two-sided. Match the protrusion position
 of the air filter unit with the grooves on the projector body.
- Refer to "Attaching the air filter unit" (⇒ page 185).

Attention

- When switching on the projector, make sure that the air filter unit is attached. If it is not properly attached, the projector will suck in dirt and dust causing a malfunction.
- If you use the projector without attaching the air filter unit, the filter indicator <FILTER> blinks in red and the message appears on the
 projected image for approximately 30 seconds.

Note

• The replacement cycle of the air filter unit varies greatly depending on the usage environment.

Troubleshooting

Review the following points. For details, see the corresponding pages.

| Problems | Points to be checked | Page |
|--|---|------|
| | Is the power plug firmly inserted into the outlet? | _ |
| | Is the <main power=""> switch set to <off>?</off></main> | 63 |
| Power does not turn on. | Is the wall outlet supplying electricity? | _ |
| ower does not turn on. | Have the circuit breakers tripped? | _ |
| | Are the light source indicators <light1>/<light2> or the temperature indicator <temp> lighting or blinking?</temp></light2></light1> | 182 |
| | Are connections to external devices correctly performed? | 48 |
| | Is the input selection setting correct? | 70 |
| | Is the [BRIGHTNESS] adjustment setting at a minimum? | 83 |
| No image appears. | Is the external device that is connected to the projector working properly? | _ |
| | Is the shutter function in use? | 71 |
| | • If the power indicator <on (g)="" (r)="" standby=""> is blinking in red, consult your dealer.</on> | _ |
| | Is the lens cover still attached to the lens? | 55 |
| | Is the lens focus set correctly? | 64 |
| Image is fuzzy. | Is the projection distance appropriate? | 35 |
| g | Is the lens dirty? | 22 |
| | Is the projector installed perpendicular to the screen? | |
| | Are [COLOR] and [TINT] adjusted correctly? | 83 |
| Color is pale or grayish. | Is the external device connected to the projector adjusted correctly? | 48 |
| | Is the RGB cable damaged? | |
| | Are the batteries depleted? | _ |
| | Is the polarity of the batteries set correctly? | 31 |
| | Are there any obstructions between the remote control and the remote control signal receiver of the projector? | 26 |
| Remote control does not | Is the remote control being used beyond its effective operation range? | 27 |
| respond. | Are other forms of light, such as fluorescent light, affecting the projection? | 27 |
| | Is the [REMOTE CONTROL] setting in [CONTROL DEVICE SETUP] set to [DISABLE]? | 153 |
| | Is the <remote 2="" in=""> terminal used for contact control?</remote> | 203 |
| | Is the ID number setting operation correct? | 74 |
| Menu screen does not appear. | Is the on-screen display function turned off (hidden)? | 118 |
| Buttons on the control panel do not operate. | Is the [CONTROL PANEL] setting in [CONTROL DEVICE SETUP] set to [DISABLE]? | 153 |
| panor do not operate. | Is the <remote 2="" in=""> terminal used for contact control?</remote> | 203 |
| | Is the [SYSTEM SELECTOR] selection set correctly? | 88 |
| Image does not display | Is the [RGB1 INPUT SETTING] setting made correctly? | 112 |
| correctly. | Is there a problem with the video tape or other image sources? | _ |
| | Is a signal which is not compatible with the projector being input? | 206 |
| _ | Is the cable too long? (For D-Sub cables, the cable length should be 10 m (32'10") or shorter.) | _ |
| Image from a computer does not appear. | • Is the external video output on the laptop computer set correctly? (Ex.: The external output settings may be switched by pressing the "Fn" + "F3" or "Fn" + "F10" | _ |
| | simultaneously. Since the method varies depending on the computer type, refer to the user manual provided with your computer.) | |
| | Is the [EDID SELECT] setting in [DVI-D IN] set to [EDID3] or [EDID2:PC]? | 113 |
| Image output from DVI-D of the computer does not | The graphics accelerator driver of the computer may need to be updated to the latest version. | _ |
| appear. | The condition may be improved by making the [EDID SELECT] setting in [DVI-D IN] and then restarting the computer. | 113 |
| Video from HDMI | Is the HDMI cable connected securely? | 48 |
| compatible device does | Turn the power of the projector and the external device off and on. | _ |
| not appear or it appears jumbled. | Is a signal which is not compatible with the projector being input? | 206 |
| Lens shift cannot be | Perform [LENS CALIBRATION]. | 140 |
| adjusted. | Is the Fixed-focus Lens (Model No.: ET-D75LE50) attached? | |

Chapter 5 Maintenance — Troubleshooting

| Problems | Points to be checked | Page |
|--|---|------|
| Cannot control the | Are the connections between the twisted-pair-cable transmitter and an external device, and between the twisted-pair-cable transmitter and projector correctly done? | |
| projector with Art-Net. | Is [Art-Net SETUP] set to other than [OFF]? | 159 |
| | Are [NET], [SUB NET], [UNIVERSE], and [START ADDRESS] set correctly? | 159 |
| | Are the connections between the twisted-pair-cable transmitter and the projector or an external device correctly done? | _ |
| The DIGITAL LINK input image is not displayed. | Is [DIGITAL LINK MODE] set to [AUTO] or [DIGITAL LINK]? Is it set to [ETHERNET]? | 156 |
| | • Is a signal which is not compatible with a twisted-pair-cable transmitter being input? | _ |
| | Is the [3D INPUT FORMAT] setting of [3D SETTINGS] correct? | 103 |
| 3D function is not working. | Check the 3D eyewear settings. | _ |
| | Is a signal which is supported by the projector being input? | 209 |
| Left and right images are | Is it synchronized? Check the 3D eyewear settings. | _ |
| reversed (not showing properly). | Change the [LEFT/RIGHT SWAP] setting of [3D SETTINGS]. | 103 |
| Image in the 3D eyewear flickers. | Are you within the reception range? | _ |
| 3D eyewear is not | • Is the battery for 3D eyewear dead? Charge the battery for the rechargeable 3D eyewear. Change the battery for the battery type. | _ |
| functioning. | Is the [3D SETTINGS] setting correct? | 102 |

Attention

[•] If problems persist even after checking the preceding points, consult your dealer.

Self-diagnosis display

There is a self-diagnosis display on the side of the projector. Self-diagnosis display will automatically display the value of the input supply voltage, or details of errors or warnings when they occur. (▶ page 29)

The following list shows the alphanumeric symbol that is displayed when an error or a warning has occurred and its details. The input supply voltage is displayed only with the numeric value.

| Error/warning display | Details | Measure | | |
|-----------------------|---|---|--|--|
| U04 | Air filter clogging | Clean the air filter unit. | | |
| U11 | Intake temperature warning | The operating environment temperature is too | | |
| U12 | Optical module temperature warning | high. Use the projector in an appropriate operating environment temperature*1. | | |
| U13 | Exhaust air temperature warning | The operating environment temperature is too high, or the air exhaust port may be blocked. Use the projector in an appropriate operating environment temperature^{*1}. Or remove any objects that are blocking the air exhaust port. | | |
| U14 | Low temperature warning | The operating environment temperature is too low. Use the projector in an appropriate operating environment temperature^{*1}. | | |
| U16 | Light source 1 temperature warning | | | |
| U17 | Light source 2 temperature warning | The operating environment temperature is too high Lies the prejector in an engage appropriate energing. | | |
| U21 | Intake temperature error | high. Use the projector in an appropriate operating environment temperature*1. | | |
| U22 | Optical module temperature error | CHVIROIMICIA COMPORAÇÃO | | |
| U23 | Exhaust air temperature error | The operating environment temperature is too high, or the air exhaust port may be blocked. Use the projector in an appropriate operating environment temperature*1. Or remove any objects that are blocking the air exhaust port. | | |
| U24 | Low temperature error | • The operating environment temperature is too low. Use the projector in an appropriate operating environment temperature*1. | | |
| U25 | Light source 1 temperature error | The operating environment temperature is too | | |
| U26 | Light source 2 temperature error | high. Use the projector in an appropriate operating environment temperature*1. | | |
| U76 | Air filter unit not installed | Attach the air filter unit. | | |
| U81 | Low AC voltage warning (below 90 V) | The input supply voltage is low. Use electric wiring that can sufficiently withstand the power consumption of the projector. | | |
| UA0 | Power supply temperature warning | | | |
| UA1 | FPGA temperature warning | The operating environment temperature is too high. Use the projector in an appropriate operating | | |
| UA4 | Power supply temperature error | environment temperature*1. | | |
| UA5 | FPGA temperature error | | | |
| H01 | Battery replacement for the internal clock | Battery replacement is required. Consult your dealer. | | |
| H11 | Intake temperature sensor not present | | | |
| H12 | Optical module temperature sensor not present | | | |
| H13 | Exhaust air temperature sensor not present | If the display does not clear after switching the | | |
| H14 | Light source 1 temperature sensor not present | main power off and on, consult your dealer. | | |
| H15 | Light source 2 temperature sensor not present | | | |
| H18 | Clog sensor not present | | | |
| F00 | Liquid cooling pump 1 warning | | | |
| F01 | Liquid cooling pump 2 warning | If the display does not clear after switching the | | |
| F11 | Shutter error | main power off and on, consult your dealer. | | |
| F15 | Luminance sensor error | | | |

Chapter 5 Maintenance — Self-diagnosis display

| Error/warning display | Details | Measure |
|-----------------------|--------------------------------------|---|
| F50 | Radiator fan 1 warning | |
| F51 | Radiator fan 2 warning | |
| F52 | Radiator fan 3 warning | |
| F53 | Radiator fan 4 warning | |
| F54 | Radiator fan 5 warning | |
| F55 | Radiator fan 6 warning | |
| F56 | Exhaust fan 1 warning | |
| F57 | Exhaust fan 2 warning | |
| F58 | Intake fan 1 warning | |
| F59 | Intake fan 2 warning | If the display does not clear after switching the main power off and on, consult your dealer. |
| F61 | LD 1 driver communication error | main power on and on, consult your dealer. |
| F62 | LD 2 driver communication error | |
| F70 | Color prism fan 1 warning | |
| F71 | Color prism fan 2 warning | |
| F72 | Color prism fan 3 warning | |
| F73 | Optical engine exhaust fan 1 warning | |
| F74 | Optical engine exhaust fan 2 warning | |
| F75 | Circuit intake fan warning | |
| F76 | LD driver fan warning | |
| F96 | Lens mounter error | |
| FA8 | Light source 1 error | |
| FC8 | Light source 2 error | |
| FE1 | Radiator fan 1 error | |
| FE2 | Radiator fan 2 error | |
| FE3 | Radiator fan 3 error | |
| FE4 | Radiator fan 4 error | |
| FE5 | Radiator fan 5 error | |
| FE6 | Radiator fan 6 error | |
| FE7 | Exhaust fan 1 error | |
| FE8 | Exhaust fan 2 error | |
| FE9 | Intake fan 1 error | |
| FF0 | Intake fan 2 error | |
| FF1 | Color prism fan 1 error | If the display does not clear after switching the |
| FF2 | Color prism fan 2 error | main power off and on, consult your dealer. |
| FF3 | Color prism fan 3 error | |
| FF4 | Optical engine exhaust fan 1 error | |
| FF5 | Optical engine exhaust fan 2 error | |
| FF6 | Circuit intake fan error | |
| FF7 | LD driver fan error | |
| FH0 | Phosphor wheel 1 error SUB | |
| FH1 | Phosphor wheel 1 error FPGA | |
| FH2 | Phosphor wheel 2 error SUB | |
| FH3 | Phosphor wheel 2 error FPGA | |
| FJ0 | Liquid cooling pump 1 error | |
| FJ1 | Liquid cooling pump 2 error | |
| FL1 | Light source 1 unit error | |
| FL2 | Light source 2 unit error | |

^{*1} Refer to "Operating environment temperature" (> page 212) for the operating environment temperature of the projector.

Note

- The self-diagnosis display and the details of the malfunction may vary.
- For errors and warnings that are not described in the table, consult your dealer.

Chapter 6 Appendix

This chapter describes specifications and after-sales service for the projector.

Technical information

PJLink protocol

The network function of this projector supports the PJLink class 1, and the PJLink protocol can be used to perform projector setting and projector status query operations from a computer.

Control commands

The following table lists the PJLink protocol commands that can be used to control the projector.

• x characters in tables are non-specific characters.

| Command | Control details | Parameter/response string | Remark | | | | |
|---------|----------------------------|---------------------------|---|---|------------------------------|--|--|
| POWR | Dower aupply control | 0 | Standby | | | | |
| POWR | Power supply control | 1 | Power on | | | | |
| | | 0 | Standby | | | | |
| POWR? | Power supply status | 1 | Power on | | | | |
| FOWK! | query | 2 | Preparing for switching off the projector | | | | |
| | | 3 | Warm-up | | | | |
| INPT | Input selection | 11 | RGB1 | | | | |
| INFI | input selection | 12 | RGB2 | | | | |
| | | 31 | DVI-D | | | | |
| | | 32 | HDMI | | | | |
| INPT? | Input selection query | 33 | DIGITAL LINK | | | | |
| | | 34 | SDI1 | | | | |
| | | 35 | SDI2 | | | | |
| AVMT | Shutter control | 30 | Shutter functio | n disabled (shutter: open) | | | |
| AVMT? | Shutter status query | 31 | Shutter functio | n enabled (shutter: closed) | | | |
| | Error status query | xxxxxx | 1st byte | Indicates fan errors, and returns 0 - 2. | • 0 = No error is detected | | |
| | | | 2nd byte | Indicates light source errors, and returns 0 - 2. | • 1 = Warning • 2 = Error | | |
| ERST? | | | 3rd byte | Indicates temperature errors, and returns 0 - 2. | | | |
| | | | 4th byte | Returns 0. | 1 | | |
| | | | 5th byte | Indicates filter errors, and returns 0 - 2. | 1 | | |
| | | | 6th byte | Indicates other errors, and returns 0 - 2. | - | | |
| LAMP? | Light source status query | xxxxxxxxxx | 1st number (1 - 5 digits): Light source 1 runtime 2nd number: 0 = Light source 1 off, 1 = Light source 1 on 3rd number (1 - 5 digits): Light source 2 runtime 4th number: 0 = Light source 2 off, 1 = Light source 2 on | | | | |
| INST? | Input selection list query | 11 12 31 32 33 34 35 | _ | | | | |
| NAME? | Projector name query | xxxx | Returns the na SETUP]. | me set in [PROJECTOR NAME] of [N | ETWORK | | |
| INF1? | Manufacturer name query | Panasonic | Returns manufacturer name. | | | | |
| INF2? | Model name query | RZ12K RS11K | Returns model name. | | | | |
| INF0? | Other information queries | xxxxx | Returns information such as version number. | | | | |
| CLSS? | Class information query | 1 | Returns class for PJLink. | | | | |

PJLink security authentication

The password used for PJLink is the same as that of the password set for web control.

When using the projector without security authentication, do not set a password for web control.

• For specifications related to PJLink, visit the website of Japan Business Machine and Information System Industries Association.

URL http://pjlink.jbmia.or.jp/english/

Using Art-Net function

Since the network function of the projector supports the Art-Net function, you can control the projector settings with the DMX controller and application software using the Art-Net protocol.

Channel definition

The following table lists the channel definitions used for controlling the projector with the Art-Net function. Channel settings can be switched using the [NETWORK] menu \rightarrow [Art-Net CHANNEL SETTING] (\Rightarrow page 159). The control details assigned to each channel are listed in the following table.

• Channel assignment for [USER] is in factory default setting. Assignment can be changed.

| Chamal | Control details | | | | |
|-----------|-----------------|----------------|----------------------|--|--|
| Channel | [2] | [USER] | [1] | | |
| CHANNEL1 | LIGHT OUTPUT | LIGHT OUTPUT | SHUTTER | | |
| CHANNEL2 | INPUT SELECT | INPUT SELECT | INPUT SELECT | | |
| CHANNEL3 | LENS POSITION | LENS POSITION | LENS FUNCTION SELECT | | |
| CHANNEL4 | LENS H SHIFT | LENS H SHIFT | LENS CONTROL | | |
| CHANNEL5 | LENS V SHIFT | LENS V SHIFT | POWER | | |
| CHANNEL6 | LENS FOCUS | LENS FOCUS | LIGHT OUTPUT | | |
| CHANNEL7 | LENS ZOOM | LENS ZOOM | ENABLE/DISABLE | | |
| CHANNEL8 | POWER | POWER | FADE-IN | | |
| CHANNEL9 | GEOMETRY | GEOMETRY | FADE-OUT | | |
| CHANNEL10 | CUSTOM MASKING | CUSTOM MASKING | CUSTOM MASKING | | |
| CHANNEL11 | ENABLE/DISABLE | ENABLE/DISABLE | GEOMETRY | | |
| CHANNEL12 | NONE | NONE | NONE | | |

■ Control details

| Control details | Performance | Parameter | Default value | Remark | |
|-------------------------------------|-------------------------|-----------|---------------|--|--|
| | 100 % | 0 | | | |
| LIGHT OUTPUT | | | 0 | Can be set in 256 steps between 100 % and 0 %. | |
| | 0 % | 255 | | 100 % and 0 %. | |
| | No operation | 0-7 | | | |
| | RGB1 | 8-15 | | | |
| | RGB2 | 16-23 | | | |
| | No operation | 24-31 | | | |
| | DVI-D | 32-39 | | _ | |
| | HDMI | 40-47 | | | |
| INPUT SELECT (when [1] is selected) | SDI1 | 48-55 | 0 | | |
| selected) | SDI2 | 56-63 | | | |
| | No operation | 64-127 | | | |
| | P IN P execution, USER1 | 128-135 | | | |
| | P IN P execution, USER2 | 136-143 | | | |
| | P IN P execution, USER3 | 144-151 | | | |
| | No operation | 152-255 | | | |

| Control details | Perfori | mance | Parameter | Default value | Remark | |
|-------------------------------------|------------------------|---------------------|-----------|---------------|---|--|
| | No operation | | 0-7 | | | |
| | RGB1 | | 8-15 | 1 | | |
| | RGB2 | | 16-23 | 1 | | |
| | DVI-D | | 24-31 | | | |
| | HDMI | | 32-39 | | | |
| | DIGITAL LINK | | 40-47 | | | |
| INPUT SELECT (when [2] or | SDI1 | | 48-55 | | | |
| [USER] is selected) | SDI2 | | 56-63 | 0 | _ | |
| , | No operation | | 64-119 | - | | |
| | P IN P OFF | | 120-127 | - | | |
| | P IN P execution, | IISED1 | 128-135 | - | | |
| | P IN P execution, | | 136-143 | - | | |
| | P IN P execution, | | 144-151 | - | | |
| | No operation | OOLINO | 152-255 | - | | |
| | No operation | | 0-31 | | | |
| | Move to the home | - nacition | 0-31 | - | | |
| | Move to the FT-D | | 32-63 | | | |
| | standard position | | 32-03 | | | |
| | Load LENS MEM | | 64-79 | - | "Move to the home position" is | |
| | Load LENS MEM | | 80-95 | - | an operation when [NORMAL] is | |
| | Load LENS MEM | | 96-111 | - | selected in [HOME POSITION] of | |
| LENG BOOKTION | | | 112-127 | - | the [HOME POSITION] screen. | |
| LENS POSITION | Load LENS MEM | | | 0 | "Move to the ET-D75LE90 lens standard position" is an operation when [D75LE90] is selected in | |
| | Load LENS MEM | | 128-143 | - | | |
| | Load LENS MEMORY 6 | | 144-159 | - | [HOME POSITION] of the [HOME POSITION] screen. | |
| | Load LENS MEMORY 7 | | 160-175 | - | | |
| | Load LENS MEMORY 8 | | 176-191 | - | | |
| | Load LENS MEMORY 9 | | 192-207 | _ | | |
| | Load LENS MEMORY 10 | | 208-223 | | | |
| | No operation | | 224-255 | | | |
| | | (-) High speed | 0-31 | _ | _ | |
| | Lens adjustment | (-) Low speed | 32-63 | _ | | |
| LENS H SHIFT | | (–) Fine adjustment | 64-95 | | | |
| LENS V SHIFT LENS FOCUS | Operation stop | | 96-159 | 128 | | |
| LENS ZOOM | | (+) Fine adjustment | 160-191 | | | |
| | Lens adjustment | (+) Low speed | 192-223 | 1 | | |
| | | (+) High speed | 224-255 | | | |
| | No operation | 1 7 9 1 | 0-15 | | Operate together with LENS | |
| | LENS H SHIFT | | 16-31 | | CONTROL. | |
| | LENS V SHIFT | | 32-47 | - | "Move to the home position" is | |
| | LENS FOCUS | | 48-63 | | an operation when [NORMAL] is selected in [HOME POSITION] of | |
| LENS FUNCTION SELECT | LENS ZOOM | | 64-79 | 0 | the [HOME POSITION] screen. | |
| (when [1] is selected) | Move to the home | nosition | 0.70 | 1 | "Move to the ET-D75LE90 lens | |
| | Move to the ET-D | · | 80-95 | | standard position" is an operation | |
| | standard position | | | | when [D75LE90] is selected in [HOME POSITION] of the [HOME POSITION] screen. | |
| | No operation | | 96-255 | 1 | | |
| | 12 250.0001 | (-) High speed | 0-31 | | . Comon sorcon. | |
| | | (–) Low speed | 32-63 | 1 | | |
| | Lens adjustment | (-) Fine adjustment | 64-95 | | | |
| LENC CONTROL Asia - 141 | Operation stan | aujustineit | 96-127 | | Operate together with LENG | |
| LENS CONTROL (when [1] is selected) | Operation stop | (+) Fino | 30-121 | | Operate together with LENS FUNCTION SELECT. | |
| 33.00.007 | (+) Fine adjustment | | 128-159 | | . SHOTION OLLEGI. | |
| | aujustinont | (+) Low speed | 160-191 | _ | | |
| | | (+) High speed | 192-223 | 4 | | |
| | Execute command action | | 224-255 | | | |

| Control details | Performance | Parameter | Default value | Remark |
|------------------------|-------------------------|-----------|---------------|----------------------------------|
| | Standby | 0-63 | | |
| POWER | No operation | 64-191 | 128 | _ |
| | Power on | 192-255 | | |
| | SHUTTER: Open | 0-63 | | |
| SHUTTER | No operation | 64-191 | 128 | _ |
| | SHUTTER: Close | 192-255 | | |
| | 0.0s | 0-15 | | |
| | 0.5s | 16-31 | | |
| | 1.0s | 32-47 | | |
| | 1.5s | 48-63 | | |
| | 2.0s | 64-79 | | |
| FADE-IN | 2.5s | 80-95 | | Operate together with |
| FADE-OUT | 3.0s | 96-111 | 255 | CHANNEL1. |
| (when [1] is selected) | 3.5s | 112-127 | | |
| | 4.0s | 128-143 | | |
| | 5.0s | 144-159 | | |
| | 7.0s | 160-175 | | |
| | 10.0s | 176-191 | _ | |
| | No operation | 192-255 | | _ |
| | OFF | 0-15 | | |
| | KEYSTONE | 16-31 | | |
| | CURVED | 32-47 | | |
| GEOMETRY | PC-1 | 48-63 | 255 | _ |
| SEGMETT! | PC-2 | 64-79 | | |
| | PC-3 | 80-95 | | |
| | CORNER CORRECTION | 96-111 | | |
| | No operation | 112-255 | | |
| | OFF | 0-31 | | |
| | PC-1 | 32-63 | | To use PC-1, PC-2, and PC-3, the |
| CUSTOM MASKING | PC-2 | 64-95 | 255 | optional Upgrade Kit (Model No.: |
| | PC-3 | 96-127 | | ET-UK20) is required. |
| | No operation | 128-255 | | |
| | No operation | 0-31 | | |
| | OFF | 32-95 | | |
| FREEZE | No operation | 96-159 | 128 | _ |
| | ON | 160-223 | _ | |
| | No operation | 224-255 | | |
| | No operation | 0-31 | _ | |
| | Factory default setting | 32-63 | - | |
| | -31 | 64-65 | _ | |
| COLOR | | | 0 | _ |
| TINT | 0 | 128-129 | - | |
| | | | _ | |
| | +31 | 190-191 | _ | |
| | No operation | 192-255 | | |
| | No operation | 0-15 | - | |
| | OFF | 16-31 | _ | |
| | WHITE | 32-47 | - | |
| | YELLOW | 48-63 | - | |
| | CPEEN | 64-79 | - | |
| RASTER PATTERN | GREEN | 80-95 | 0 | _ |
| | MAGENTA | 96-111 | | |
| | RED | 112-127 | | |
| | BLUE | 128-143 | - | |
| | BLACK | 144-159 | - | |
| | USER LOGO | 160-175 | - | |
| | No operation | 176-255 | 1 | |

| Control details | Performance | Parameter | Default value | Remark |
|-----------------|-------------|-----------|---------------|--------------------------------------|
| | Disable | 0-127 | | When "Disable" is set, operations |
| ENABLE/DISABLE | Enable | 128-255 | 0 | of all channels become unacceptable. |

Note

- If the projector is operated with the remote control or on the control panel, or by the control command while controlling the projector using the Art-Net function, the setting of the DMX controller or computer application may be different from the projector status. To reflect the controls of all channels to the projector, set "ENABLE/DISABLE" of channel 11 to "Disable" and then set back to "Enable".
- To create/register the USER LOGO image, use "Logo Transfer Software" included in the supplied CD-ROM.

Control commands via LAN

When web control administrator rights password is set (Protect mode)

Connecting

- Obtain the IP address and port number (Initial set value = 1024) of the projector and request a connection to the projector.
 - You can obtain both the IP address and the port number from the menu screen of the projector.

| IP address | Obtain from the [NETWORK] menu → [NETWORK STATUS]. |
|-------------|--|
| Port number | Obtain from the [NETWORK] menu \rightarrow [NETWORK CONTROL] \rightarrow [COMMAND PORT]. |

2) Check the response from the projector.

| | Data section | Blank | Mode | Blank | Random number section | Termination symbol |
|-------------|----------------|--------|------------|--------|-------------------------|--------------------|
| Command | "NTCONTROL" | ٤) | '1' | ٤ , | "ZZZZZZZZ" | (CR) |
| example | (ASCII string) | 0x20 | 0x31 | 0x20 | (ASCII code hex number) | 0x0d |
| Data length | 9 bytes | 1 byte | 1 byte | 1 byte | 8 bytes | 1 byte |

- Mode: 1 = Protect mode
- Example: Response during protect mode (random number section is undefined value)
 "NTCONTROL 1 23181e1e" (CR)
- 3) Generate a 32-byte hash value from the following data using MD5 algorithm.
 - "xxxxxx:yyyyy:zzzzzzzz"

| xxxxxx | Administrator rights user name for the web control (default user name is "admin1") | |
|----------|--|--|
| ууууу | Password of above administrator rights user (default password is "panasonic") | |
| ZZZZZZZZ | 8-byte random number obtained in Step 2) | |

Command transmission method

Transmit using the following command formats.

■ Transmitted data

| | Header | | | Data section | Termination symbol |
|-------------|-------------------------------|--------|--------|------------------|--------------------|
| Command | Hash value | '0' | '0' | Control command | (CR) |
| example | (Refer to "Connecting" above) | 0x30 | 0x30 | (ASCII string) | 0x0d |
| Data length | 32 bytes | 1 byte | 1 byte | Undefined length | 1 byte |

• Example: Transmission of power supply status acquisition command (hash value is calculated from default user name, password, and acquired random number)

■ Received data

| | Header | | Data section | Termination symbol |
|-------------|-------------|-------------|------------------|--------------------|
| Command | ' 0' | ' 0' | Control command | (CR) |
| example | 0x30 | 0x30 | (ASCII string) | 0x0d |
| Data length | 1 byte | 1 byte | Undefined length | 1 byte |

 Example: The projector is powered on "00001" (CR)

■ Error response

| | String | Details | Termination symbol |
|-------------|---------|------------------------------------|--------------------|
| | "ERR1" | Undefined control command | |
| | "ERR2" | Out of parameter range | |
| Magazara | "ERR3" | Busy state or no-acceptable period | (CR) |
| Message | "ERR4" | Timeout or no-acceptable period | 0x0d |
| | "ERR5" | Wrong data length | |
| | "ERRA" | Password mismatch | |
| Data length | 4 bytes | _ | 1 byte |

When web control administrator rights password is not set (Non-protect mode)

Connecting

- 1) Obtain the IP address and port number (Initial set value = 1024) of the projector and request a connection to the projector.
 - You can obtain both the IP address and the port number from the menu screen of the projector.

| IP address | Obtain from the [NETWORK] menu → [NETWORK STATUS]. |
|-------------|--|
| Port number | Obtain from the [NETWORK] menu \rightarrow [NETWORK CONTROL] \rightarrow [COMMAND PORT]. |

2) Check the response from the projector.

| | Data section | Blank | Mode | Termination symbol |
|-------------|----------------|--------|--------|--------------------|
| Command | "NTCONTROL" | 6 3 | '0' | (CR) |
| example | (ASCII string) | 0x20 | 0x30 | 0x0d |
| Data length | 9 bytes | 1 byte | 1 byte | 1 byte |

• Mode: 0 = Non-protect mode

Example: Response during non-protect mode

"NTCONTROL 0" (CR)

[&]quot;dbdd2dabd3d4d68c5dd970ec0c29fa6400QPW" (CR)

Command transmission method

Transmit using the following command formats.

■ Transmitted data

| | Header | | Data section | Termination symbol |
|-------------|-------------|-------------|------------------|--------------------|
| Command | ' 0' | ' 0' | Control command | (CR) |
| example | 0x30 | 0x30 | (ASCII string) | 0x0d |
| Data length | 1 byte | 1 byte | Undefined length | 1 byte |

 Example: Transmission of power supply status acquisition command "00QPW" (CR)

■ Received data

| | Hea | der | Data section | Termination symbol |
|-------------|-------------|-------------|------------------|--------------------|
| Command | ' 0' | ' 0' | Control command | (CR) |
| example | 0x30 | 0x30 | (ASCII string) | 0x0d |
| Data length | 1 byte | 1 byte | Undefined length | 1 byte |

• Example: The power of the projector is in standby status "00000" (CR)

■ Error response

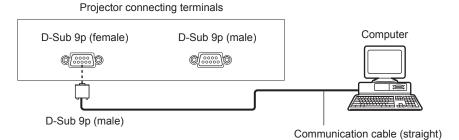
| | String | Details | Termination symbol |
|-------------|---------|------------------------------------|--------------------|
| | "ERR1" | Undefined control command | |
| | "ERR2" | Out of parameter range | |
| Manager | "ERR3" | Busy state or no-acceptable period | (CR) |
| Message | "ERR4" | Timeout or no-acceptable period | 0x0d |
| | "ERR5" | Wrong data length | |
| | "ERRA" | Password mismatch | |
| Data length | 4 bytes | - | 1 byte |

<SERIAL IN>/<SERIAL OUT> terminal

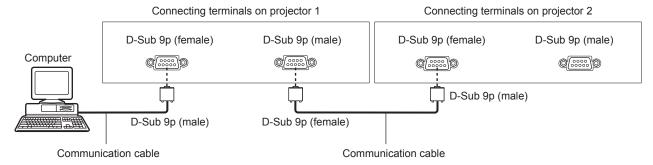
The <SERIAL IN>/<SERIAL OUT> terminal of the projector conforms with RS-232C so that the projector can be connected to and controlled from a computer.

Connection

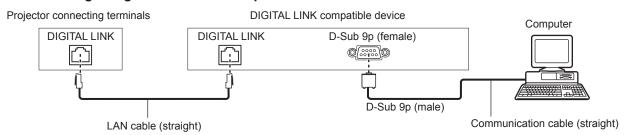
Single projector



Multiple projectors



When connecting using DIGITAL LINK compatible device



Note

- The destination of [RS-232C] (→ page 138) must be set according to the connection method.
- When connecting using a DIGITAL LINK compatible device, set the [PROJECTOR SETUP] menu → [STANDBY MODE] (→ page 134) to [NORMAL] to control the projector during standby.
 When [STANDBY MODE] is set to [ECO], the projector cannot be control during standby.

Pin assignments and signal names

| D-Sub 9-pin (female) Outside view | Pin No. | Signal name | Details |
|--------------------------------------|---------|-------------|----------------------|
| | (1) | _ | NC |
| (6) → (9) | (2) | TXD | Transmitted data |
| | (3) | RXD | Received data |
| | (4) | _ | NC |
| | (5) | GND | Earth |
| | (6) | _ | NC |
| | (7) | CTS | Composted internally |
| $(1) \rightarrow (5)$ | (8) | RTS | Connected internally |
| | (9) | _ | NC |

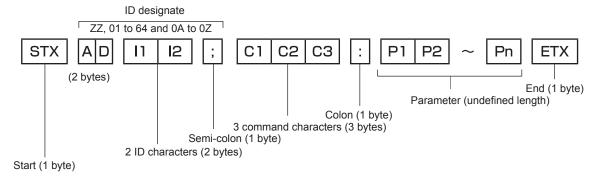
| D-Sub 9-pin (male) Outside view | Pin No. | Signal name | Details |
|------------------------------------|---------|-------------|----------------------|
| | (1) | _ | NC |
| (9) ← (6) | (2) | RXD | Received data |
| | (3) | TXD | Transmitted data |
| | (4) | _ | NC |
| | (5) | GND | Earth |
| | (6) | _ | NC |
| / | (7) | RTS | Connected internally |
| (5) ← (1) | (8) | CTS | Connected internally |
| | (9) | _ | NC |

Communication conditions (Factory default)

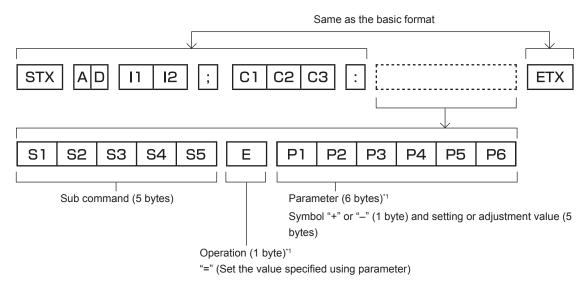
| Signal level | RS-232C-compliant |
|------------------|-------------------|
| Sync. method | Asynchronous |
| Baud rate | 9 600 bps |
| Parity | None |
| Character length | 8 bits |
| Stop bit | 1 bit |
| X parameter | None |
| S parameter | None |

Basic format

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



Basic format (has subcommands)



^{*1} When transmitting a command which does not need a parameter, an operation (E) and parameter are not necessary.

Attention

- If a command is sent after the light source starts lighting, there may be a delay in response or the command may not be executed. Try sending or receiving any command after 60 seconds.
- When transmitting multiple commands, be sure to wait until 0.5 seconds has elapsed after receiving the response from the projector before sending the next command. When transmitting a command which does not need a parameter, a colon (:) is not necessary.

Note

- If a command cannot be executed, the "ER401" response is sent from the projector to the computer.
- If an invalid parameter is sent, the "ER402" response is sent from the projector to the computer.
- ID transmission in RS-232C supports ZZ (ALL) and 01 to 64, as well as 0A to 0Z groups.
- If a command is sent with an ID designated, a response will be sent to the computer only in the following cases.
 - It matches the projector ID
 - ID is designated as ALL and [RESPONSE(ID ALL)] is set to [ON]
 - ID is designated as GROUP and [RESPONSE(ID GROUP)] is set to [ON]
- STX and ETX are character codes. STX shown in hexadecimal is 02, and ETX shown in hexadecimal is 03.

When multiple projectors are controlled

When multiple projectors are all controlled

When controlling multiple projectors together via RS-232C, perform the following settings.

- 1) Set a different ID for each projector.
- 2) Set [RESPONSE(ID ALL)] to [ON] in only one projector.
- 3) Set [RESPONSE(ID ALL)] to [OFF] for all other projectors set in Step 2).

When multiple projectors are all controlled by group unit

When controlling multiple projectors by group unit via RS-232C, perform the following settings.

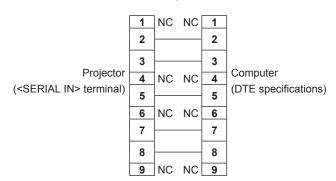
- 1) Set a different ID for each projector.
- Set [RESPONSE(ID GROUP)] to [ON] in only one projector.
- Set [RESPONSE(ID GROUP)] to [OFF] for all other projectors set in Step 2).

Note

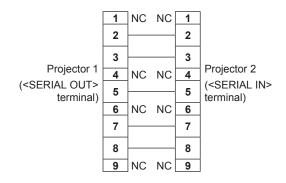
- There will be no response if two or more projectors have [RESPONSE(ID ALL)] set to [ON].
- There will be no response if two or more projectors of the same group have [RESPONSE(ID GROUP)] set to [ON].
- When setting multiple groups, set [RESPONSE(ID ALL)] to [ON] in only one projector in each group.

Cable specification

When connected to a computer



When multiple projectors are connected



Control command

The following table lists the commands that can be used to control the projector using a computer.

■ Projector control command

| Command | Details | Parameter/response string | Remark (parameter) | | | |
|---------|-----------------------------|---------------------------|---|--|--|--|
| PON | Power on | | To check if the manuar is an use the "Down more" expensed | | | |
| POF | Power standby | _ | To check if the power is on, use the "Power query" command. | | | |
| QPW | Power query | 000 | STANDBY Power on | | | |
| | | RG1 | RGB1 | | | |
| | | RG2 | RGB2 | | | |
| | | DVI | DVI-D | | | |
| IIS | Switching the input | HD1 | HDMI | | | |
| | signal | DL1 | DIGITAL LINK | | | |
| | | SD1 | SDI1 | | | |
| | | SD2 | SDI2 | | | |
| OSH | Shutter control | 0 | OPEN | | | |
| QSH | Shutter status query | 1 | CLOSE | | | |
| | | 0 | DEFAULT/VID AUTO | | | |
| VSE | A t motio italo | 1 | 4:3 | | | |
| VSE | Aspect ratio switch | 2 | 16:9 | | | |
| | | 5 | THROUGH | | | |
| | A + + + + | 6 | HV FIT | | | |
| QSE | Aspect ratio settings query | 9 | H FIT | | | |
| | query | 10 | V FIT | | | |
| OPP | P IN P execution | 0 | OFF | | | |
| 011 | I IIVI execution | 1 | USER1 | | | |
| QPP | P IN P setting query | 2 | USER2 | | | |
| QII | i ii i octurig query | 3 | USER3 | | | |
| ocs | Sub memory switch | | | | | |
| QSB | Sub memory status query | 01 - 96 | Sub memory number | | | |

■ Projector control command (with sub command)

| Command | Sub command | Details | Remark | | | | |
|---------|-------------|--------------------|--|--|--|--|--|
| VXX | RYCI1 | RGB1 input setting | +00000 = RGB/YP _B P _R , +00001 = Y/C, +00002 = VIDEO | | | | |

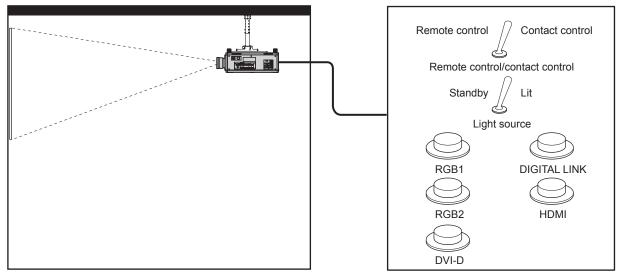
■ Lens control command

| Command | Sub command | Details | Remark |
|---------|-------------|--------------|---|
| VXX | LNSI2 | Lens H shift | |
| VXX | LNSI3 | LEUS V SIIII | +00000 = Fine adjustment 1+, +00001 = Fine adjustment 1-, +00100 |
| VXX | LNSI4 | L one feetie | = Fine adjustment 2+, +00101 = Fine adjustment 2-, +00200 = Coarse adjustment+, +00201 = Coarse adjustment- |
| VXX | LNSI5 | Lens zoom | adjustificities, 100201 Course adjustificiti |

<REMOTE 2 IN> terminal

It is possible to control the projector remotely (by external contact) from a control panel located away from the projector where remote control signals cannot reach.

Use the <REMOTE 2 IN> terminal on the connecting terminals of the projector to connect to the control panel.



Installation locations in meeting rooms, etc.

Remote control board in another location

Pin assignments and signal names

| D-Sub 9-pin Outside view | Pin No. | Signal name | Open (H) | Short (L) |
|-----------------------------|---------|------------------|------------------------------|--------------------------------|
| | (1) | GND | _ | GND |
| (0) | (2) | POWER | OFF | ON |
| (6) → (9) | (3) | RGB1 | Other | RGB1 |
| | (4) | RGB2 | Other | RGB2 |
| | (5) | DIGITAL LINK | Other | DIGITAL LINK |
| | (6) | HDMI | Other | HDMI |
| | (7) | DVI-D | Other | DVI-D |
| (1) → (5) | (8) | SHUTTER | OFF | ON |
| (1) | (9) | ENABLE / DISABLE | Controlled by remote control | Controlled by external contact |

Attention

- When controlling, make sure to short-circuit pins (1) and (9).
- When pins (1) and (9) are short-circuited, the following buttons on the control panel and the remote control are disabled. Commands for RS-232C and network functions corresponding to these functions are also disabled.
 - Power on <|> button, power standby <∅> button, <SHUTTER> button
- When pins (1) and (9) are short-circuited, and then any pins from (3) to (7) and the pin (1) are short-circuited, the following buttons on the control panel and the remote control are disabled. Commands for RS-232C and network functions corresponding to these functions are also disabled.
 - Power on <|> button, power standby <少> button, <RGB1> button, <RGB2> button, <DIGITAL LINK> button, <DVI-D> button, <HDMI> button, <SDI 1/2> button or <SDI> button, <INPUT MENU> button, <SHUTTER> button

Note

• For pin (2) to pin (8) settings, you can make changes if you set [REMOTE2 MODE] to [USER]. (★ page 140)

Two-window display combination list

- ✓: P IN P (picture in picture) combination is possible
- ▲: P IN P (picture in picture) combination is possible through the same frequency
- -: PINP (picture in picture) combination is not possible

| | | Sub window | | | | | |
|-------------|-------------------------|------------|----------|----------|----------|-------------|----------|
| | | | RG | RG | RGB2 | | |
| Main v | Main window | | Movie*1 | Y/C | Video | Still image | Movie*1 |
| | Still image signal | _ | _ | _ | _ | ✓ | ✓ |
| DCD4 immut | Movie signal*1 | _ | _ | _ | _ | 1 | A |
| RGB1 input | Y/C signal | _ | _ | _ | _ | / | A |
| | Video signal | _ | _ | _ | _ | 1 | A |
| DCD2 innut | Still image signal | ✓ | ✓ | 1 | ✓ | _ | _ |
| RGB2 input | Movie signal*1 | ✓ | A | A | A | _ | _ |
| DVI-D input | Still image signal*2 | 1 | ✓ | 1 | 1 | 1 | √ |
| | Movie signal*3 | ✓ | A | A | A | 1 | A |
| HDMI input | Still image signal*2 | 1 | ✓ | 1 | 1 | 1 | √ |
| | Movie signal*3 | ✓ | A | A | A | / | A |
| SDI1 | SDI1 input | | A | A | A | 1 | A |
| SDI2 | input | 1 | A | A | A | ✓ | A |
| Dual lii | nk SDI*4 | _ | _ | A | A | _ | |

| | | Sub window | | | | | | |
|-------------|-------------------------|---------------|----------|---------------|----------|----------|----------|-----------|
| | | DVI-D | | HDMI | | SDI1 | SDI2 | Dual link |
| Main v | vindow | Still image*2 | Movie*3 | Still image*2 | Movie*3 | 3011 | 3012 | SDI*4 |
| | Still image signal | / | ✓ | 1 | ✓ | 1 | 1 | _ |
| DOD4 immed | Movie signal*1 | / | A | 1 | A | A | A | _ |
| RGB1 input | Y/C signal | / | A | / | A | A | A | A |
| | Video signal | / | A | 1 | A | A | A | A |
| DODO immust | Still image signal | 1 | ✓ | / | ✓ | ✓ | 1 | _ |
| RGB2 input | Movie signal*1 | 1 | A | / | A | A | A | _ |
| DVI-D input | Still image signal*2 | _ | _ | 1 | ✓ | 1 | _ | _ |
| | Movie signal*3 | _ | _ | / | A | A | _ | _ |
| HDMI input | Still image signal*2 | ✓ | ✓ | _ | _ | _ | 1 | _ |
| | Movie signal*3 | / | A | _ | _ | _ | A | _ |
| SDI1 | SDI1 input | | A | _ | _ | _ | A | _ |
| SDI2 | SDI2 input | | _ | 1 | A | A | _ | _ |
| Dual li | nk SDI*4 | _ | _ | _ | _ | _ | _ | _ |

^{*1 480}i, 480p, 576i, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24sF, 1080/24p, 1080/25p, 1080/30p, 1080/50p, 1080/60p

Note

^{*2 640} x 480 - 1 920 x 1 200

Non-interlaced signal, dot clock frequency: 25 MHz - 162 MHz

^{*3} Only supports 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24sF, 1080/24p, 1080/25p, 1080/30p, 1080/50p, and 1080/60p

^{*4} Dual link HD-SDI, dual link 3G-SDI

[•] In the combination of A, if P IN P function is used with the signals of a different frequency, images in the sub window will not be displayed.

[•] Images in combination of DIGITAL LINK and other inputs cannot be displayed in P IN P.

Control device password

To initialize your password, consult your distributor.

Upgrade Kit

If the optional Upgrade Kit (Model No.: ET-UK20) is applied, the following functions are extended.

| Function | Standard status | When the Upgrade Kit is applied |
|---|--|---|
| Adjustment range of [VERTICAL KEYSTONE] | Maximum of ±40°*1 | Maximum of ±45°*1 |
| Adjustment range of [HORIZONTAL KEYSTONE] | Maximum of ±15°*1 | Maximum of ±40°*1 |
| Adjustment range of [CURVED] | Vertical arc, Maximum ±50°*1 Horizontal arc, Maximum ±50°*1 | Vertical arc, Maximum ±100°*1 Horizontal arc, Maximum ±100°*1 |
| [CUSTOM MASKING] | Cannot be used. | The image is masked in optional form. |
| [PC CORRECTION] of [UNIFORMITY] | Cannot be used. | Correct the brightness and color unevenness of the entire screen. |

^{*1} The adjustment range of the menu. Refer to "[GEOMETRY] projection range" (▶ page 37) for the possible projection range.

List of compatible signals

The following table specifies the video signals compatible with the projector.

- Symbols that indicate formats are as follows.
 - V: VIDEO, Y/C
 - R: RGB
 - $Y: YC_BC_R/YP_BP_R$
 - D: DVI-D
 - H: HDMI
 - S: SDI

| | | Scannii | ng freq. | Dot clock | | | Plu | g and p | lay*1 | |
|-------------------------------|---------------------|------------|----------|-----------|-------------|----------|-------|---------|-------|------|
| Compatible signal | Resolution | Horizontal | Vertical | freq. | Format | 2000 | DVI-D | | | |
| | (Dots) | (kHz) | (Hz) | (MHz) | | RGB2 | EDID1 | EDID2 | EDID3 | HDMI |
| NTSC/NTSC4.43/ PAL-M/PAL60 | 720 x 480i | 15.7 | 59.9 | _ | V | _ | _ | _ | _ | _ |
| PAL/PAL-N/SECAM | 720 x 576i | 15.6 | 50.0 | _ | V | _ | _ | _ | — | _ |
| 525i (480i) | 720 x 480i | 15.7 | 59.9 | 13.5 | R/Y/S*2 | _ | _ | _ | _ | _ |
| 625i (576i) | 720 x 576i | 15.6 | 50.0 | 13.5 | R/Y/S*2 | | _ | _ | | _ |
| 525i (480i) | 720 (1440) x 480i*3 | 15.7 | 59.9 | 27.0 | D/H | _ | _ | _ | _ | _ |
| 625i (576i) | 720 (1440) x 576i*3 | 15.6 | 50.0 | 27.0 | D/H | | _ | _ | | _ |
| 525p (480p) | 720 x 483 | 31.5 | 59.9 | 27.0 | R/Y/D/H | | 1 | _ | 1 | 1 |
| 625p (576p) | 720 x 576 | 31.3 | 50.0 | 27.0 | R/Y/D/H | _ | 1 | _ | 1 | 1 |
| 750 (720)/60p | 1 280 x 720 | 45.0 | 60.0 | 74.3 | R/Y/D/H/S*2 | _ | 1 | _ | 1 | 1 |
| 750 (720)/50p | 1 280 x 720 | 37.5 | 50.0 | 74.3 | R/Y/D/H/S*2 | _ | 1 | _ | 1 | 1 |
| 1125 (1080)/60i*4 | 1 920 x 1 080i | 33.8 | 60.0 | 74.3 | R/Y/D/H/S | | 1 | _ | 1 | 1 |
| 1125 (1080)/50i | 1 920 x 1 080i | 28.1 | 50.0 | 74.3 | R/Y/D/H/S | I — | 1 | _ | 1 | 1 |
| 1125 (1080)/24p | 1 920 x 1 080 | 27.0 | 24.0 | 74.3 | R/Y/D/H/S | <u> </u> | 1 | _ | 1 | 1 |
| 1125 (1080)/24sF | 1 920 x 1 080i | 27.0 | 48.0 | 74.3 | R/Y/D/H/S | 1 – | _ | _ | _ | _ |
| 1125 (1080)/25p | 1 920 x 1 080 | 28.1 | 25.0 | 74.3 | R/Y/D/H/S | T _ | 1 | _ | 1 | _ |
| 1125 (1080)/30p | 1 920 x 1 080 | 33.8 | 30.0 | 74.3 | R/Y/D/H/S | <u> </u> | _ | _ | _ | _ |
| 1125 (1080)/60p | 1 920 x 1 080 | 67.5 | 60.0 | 148.5 | R/Y/D/H/S | <u> </u> | 1 | _ | 1 | 1 |
| 1125 (1080)/50p | 1 920 x 1 080 | 56.3 | 50.0 | 148.5 | R/Y/D/H/S | <u> </u> | 1 | _ | 1 | 1 |
| 2K/24p | 2 048 x 1 080 | 27.0 | 24.0 | 74.3 | S*5 | T — | _ | _ | _ | _ |
| 2K/24sF | 2 048 x 1 080 | 27.0 | 24.0 | 74.3 | S*5 | T — | _ | _ | _ | _ |
| 2K/48p | 2 048 x 1 080 | 54.0 | 48.0 | 148.5 | S*6 | _ | _ | _ | _ | _ |
| 2K/50p | 2 048 x 1 080 | 56.3 | 50.0 | 148.5 | S*6 | T — | _ | _ | _ | _ |
| 2K/60p | 2 048 x 1 080 | 67.5 | 60.0 | 148.5 | S*6 | _ | _ | _ | _ | _ |
| 640 x 400 | 640 x 400 | 31.5 | 70.1 | 25.2 | R/D/H | _ | _ | _ | — | _ |
| 040 X 400 | 640 x 400 | 37.9 | 85.1 | 31.5 | R/D/H | _ | _ | _ | _ | _ |
| | 640 x 480 | 31.5 | 59.9 | 25.2 | R/D/H | 1 | 1 | 1 | 1 | 1 |
| | 640 x 480 | 35.0 | 66.7 | 30.2 | R/D/H | _ | _ | _ | — | _ |
| 640 x 480 | 640 x 480 | 37.9 | 72.8 | 31.5 | R/D/H | 1 | _ | 1 | 1 | 1 |
| | 640 x 480 | 37.5 | 75.0 | 31.5 | R/D/H | 1 | _ | 1 | 1 | 1 |
| | 640 x 480 | 43.3 | 85.0 | 36.0 | R/D/H | _ | _ | _ | _ | _ |
| | 800 x 600 | 35.2 | 56.3 | 36.0 | R/D/H | 1 | _ | 1 | 1 | 1 |
| | 800 x 600 | 37.9 | 60.3 | 40.0 | R/D/H | 1 | _ | 1 | 1 | 1 |
| 800 x 600 | 800 x 600 | 48.1 | 72.2 | 50.0 | R/D/H | 1 | _ | 1 | 1 | 1 |
| | 800 x 600 | 46.9 | 75.0 | 49.5 | R/D/H | 1 | _ | 1 | 1 | 1 |
| | 800 x 600 | 53.7 | 85.1 | 56.3 | R/D/H | 1 — | _ | _ | _ | _ |
| 832 x 624 | 832 x 624 | 49.7 | 74.6 | 57.3 | R/D/H | 1 | _ | 1 | 1 | 1 |

| Compatible signal | Resolution (Dots) 1 024 x 768 1 024 x 768 1 024 x 768 1 024 x 768 | Horizontal (kHz) 39.6 48.4 | Vertical (Hz) | Dot clock freq. (MHz) | Format | RGB2 | | DVI-D | | |
|-------------------|--|-------------------------------------|------------------|-----------------------------|--------|------|-------|-------|----------|----------|
| 1024 x 768 | 1 024 x 768 1 024 x 768 1 024 x 768 | 39.6 | . , | (MHz) | | KGD2 | | | | |
| 1024 x 768 | 1 024 x 768 1 024 x 768 | 1 | 50.0 | | | | EDID1 | EDID2 | EDID3 | HDMI |
| 1024 x 768 | 1 024 x 768 | 48.4 | 00.0 | 51.9 | R/D/H | _ | _ | _ | _ | _ |
| 1024 x 768 | | | 60.0 | 65.0 | R/D/H | 1 | _ | 1 | ✓ | 1 |
| 1024 x 768 | 1 024 x 768 | 56.5 | 70.1 | 75.0 | R/D/H | 1 | _ | 1 | ✓ | ✓ |
| 1024 X 700 | | 60.0 | 75.0 | 78.8 | R/D/H | 1 | _ | 1 | ✓ | ✓ |
| | 1 024 x 768 | 65.5 | 81.6 | 86.0 | R/D/H | _ | _ | _ | _ | _ |
| | 1 024 x 768 | 68.7 | 85.0 | 94.5 | R/D/H | _ | _ | _ | _ | _ |
| | 1 024 x 768* ⁷ | 81.4 | 100.0 | 113.3 | R/D/H | _ | _ | _ | _ | _ |
| | 1 024 x 768*7 | 98.8 | 120.0 | 139.1 | R/D/H | 1 | _ | 1 | ✓ | 1 |
| | 1 152 x 864 | 53.7 | 60.0 | 81.6 | R/D/H | _ | _ | _ | _ | _ |
| 1152 x 864 | 1 152 x 864 | 64.0 | 70.0 | 94.2 | R/D/H | _ | _ | _ | _ | _ |
| 1132 X 004 | 1 152 x 864 | 67.5 | 74.9 | 108.0 | R/D/H | _ | _ | _ | _ | _ |
| | 1 152 x 864 | 77.1 | 85.0 | 119.7 | R/D/H | _ | _ | _ | _ | _ |
| 1152 x 870 | 1 152 x 870 | 68.7 | 75.1 | 100.0 | R/D/H | 1 | _ | 1 | ✓ | 1 |
| | 1 280 x 720 | 37.1 | 49.8 | 60.5 | R/D/H | _ | _ | _ | _ | _ |
| 1280 x 720 | 1 280 x 720 | 44.8 | 59.9 | 74.5 | R/D/H | _ | _ | _ | _ | _ |
| 1200 X 720 | 1 280 x 720*7 | 76.3 | 100.0 | 131.8 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 720*7 | 92.6 | 120.0 | 161.6 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 768 | 39.6 | 49.9 | 65.3 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 768 | 47.8 | 59.9 | 79.5 | R/D/H | _ | _ | _ | _ | _ |
| 1280 x 768 | 1 280 x 768*8 | 47.4 | 60.0 | 68.3 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 768 | 60.3 | 74.9 | 102.3 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 768 | 68.6 | 84.8 | 117.5 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 800 | 41.3 | 50.0 | 68.0 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 800 | 49.7 | 59.8 | 83.5 | R/D/H | - | _ | _ | _ | - |
| 1280 x 800 | 1 280 x 800*8 | 49.3 | 59.9 | 71.0 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 800 | 62.8 | 74.9 | 106.5 | R/D/H | - | _ | _ | _ | _ |
| | 1 280 x 800 | 71.6 | 84.9 | 122.5 | R/D/H | _ | _ | _ | _ | _ |
| 1280 x 960 | 1 280 x 960 | 60.0 | 60.0 | 108.0 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 1 024 | 52.4 | 50.0 | 88.0 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 1 024 | 64.0 | 60.0 | 108.0 | R/D/H | _ | _ | _ | _ | _ |
| 4000 4004 | 1 280 x 1 024 | 72.3 | 66.3 | 125.0 | R/D/H | - | _ | _ | _ | - |
| 1280 x 1024 | 1 280 x 1 024 | 78.2 | 72.0 | 135.1 | R/D/H | _ | _ | _ | _ | _ |
| | 1 280 x 1 024 | 80.0 | 75.0 | 135.0 | R/D/H | 1 | _ | 1 | 1 | 1 |
| | 1 280 x 1 024 | 91.1 | 85.0 | 157.5 | R/D/H | l — | _ | _ | _ | _ |
| 4000 700 | 1 366 x 768 | 39.6 | 49.9 | 69.0 | R/D/H | l – | _ | _ | _ | _ |
| 1366 x 768 | 1 366 x 768 | 47.7 | 59.8 | 85.5 | R/D/H | l – | _ | _ | _ | _ |
| | 1 400 x 1 050 | 54.1 | 50.0 | 99.9 | R/D/H | _ | _ | _ | _ | _ |
| | 1 400 x 1 050 | 64.0 | 60.0 | 108.0 | R/D/H | - | _ | _ | _ | _ |
| 1100 - 1050 | 1 400 x 1 050 | 65.2 | 60.0 | 122.6 | R/D/H | 1 | _ | 1 | 1 | 1 |
| 1400 x 1050 | 1 400 x 1 050 | 65.3 | 60.0 | 121.8 | R/D/H | l – | _ | _ | _ | _ |
| | 1 400 x 1 050 | 78.8 | 72.0 | 149.3 | R/D/H | l – | _ | _ | _ | _ |
| | 1 400 x 1 050 | 82.2 | 75.0 | 155.9 | R/D/H | l – | _ | _ | _ | _ |
| 4.440 000 | 1 440 x 900 | 46.3 | 49.9 | 86.8 | R/D/H | _ | _ | _ | _ | _ |
| 1440 x 900 | 1 440 x 900 | 55.9 | 59.9 | 106.5 | R/D/H | _ | _ | _ | _ | _ |
| 4000 000 | 1 600 x 900 | 46.4 | 49.9 | 96.5 | R/D/H | _ | _ | _ | _ | _ |
| 1600 x 900 | 1 600 x 900 | 55.9 | 60.0 | 119.0 | R/D/H | 1 | _ | 1 | 1 | 1 |
| 4000 4000 | 1 600 x 1 200 | 61.8 | 49.9 | 131.5 | R/D/H | _ | _ | _ | _ | _ |
| 1600 x 1200 | 1 600 x 1 200 | 75.0 | 60.0 | 162.0 | R/D/H | 1 | _ | 1 | 1 | 1 |
| 100- 11 | 1 680 x 1 050 | 65.3 | 60.0 | 146.3 | R/D/H | _ | _ | _ | _ | _ |
| 1680 x 1050 | 1 680 x 1 050 | 54.1 | 50.0 | 119.5 | R/D/H | _ | _ | _ | _ | _ |
| | 1 920 x 1 080 | 55.6 | 49.9 | 141.5 | R/D/H | _ | _ | _ | _ | _ |
| 1920 x 1080 | 1 920 x 1 080*8 | 66.6 | 59.9 | 138.5 | R/D/H | _ | _ | _ | _ | _ |
| | 1 920 x 1 080*9 | 67.2 | 60.0 | 173.0 | R | _ | _ | _ | _ | _ |

| | | Scannii | ng freq. | Dot clock | | Plug and play*1 | | | | | | |
|-------------------|----------------------|------------|----------|-----------|--------|-----------------|-------|-------|--------------|--------------|--|--|
| Compatible signal | Resolution (Dots) | Horizontal | Vertical | freq. | Format | RGB2 | | нрмі | | | | |
| | (5013) | (kHz) | (Hz) | (MHz) | :) | | EDID1 | EDID2 | EDID3 | וואוטח | | |
| | 1 920 x 1 200 | 61.8 | 49.9 | 158.3 | R/D/H | _ | _ | _ | _ | _ | | |
| 1920 x 1200 | 1 920 x 1 200*8 | 74.0 | 60.0 | 154.0 | R/D/H | 1 | _ | 1 | √ *10 | √ *10 | | |
| | 1 920 x 1 200*9 | 74.6 | 59.9 | 193.3 | R | _ | _ | _ | _ | _ | | |

- *1 Signals with a ✓ in the Plug and play columns are signals described in EDID (extended display identification data) of the projector. If a signal has no ✓ in the Plug and play columns but has an entry in the Format column, it can be input. For signals without a ✓ in the Plug and play columns, there are instances when resolution cannot be selected on the computer even though the projector supports them.
- *2 Only for single link connection
- *3 Pixel-Repetition signal (dot clock frequency 27.0 MHz) only
- *4 When a 1125 (1035)/60i signal was input, it is displayed as a 1125 (1080)/60i signal.
- *5 Dual link HD-SDI is supported.
- *6 Dual link 3G-SDI is supported.
- *7 Image is displayed as 3D image in the frame sequential format when [3D INPUT FORMAT] is set to [AUTO]. To display images in 2D, set [3D INPUT FORMAT] to [NATIVE].
- *8 VESA CVT-RB (Reduced Blanking)-compliant
- *9 Samples the pixels in the image processing circuit and projects the image.
- *10 Only for PT-RZ12K

Note

- · A signal with a different resolution is converted to the number of display dots. The number of display dots is as follows.
 - PT-RZ12K: 1 920 x 1 200
 - PT-RS11K: 1 400 x 1 050
- The "i" at the end of the resolution indicates an interlaced signal.
- When interlaced signals are connected, flickering may occur on the projected image.
- DIGITAL LINK input compatible signal is the same as HDMI input compatible signal.

List of simultaneous input 2D compatible signals

The following table specifies the simultaneous input (2D) compatible video signals that the projector can project.

| | Resolution | Scanni | ng freq. | Dot aloak from | | |
|----------------------|---------------|---------------------|------------------|--------------------------|----------|-----------|
| 2D compatible signal | (Dots) | Horizontal (kHz) | Vertical (Hz) | Dot clock freq. (MHz) | HDMI/DVI | SDI1/SDI2 |
| 1080/50p | 1 920 x 1 080 | 56.3 | 50.0 | 148.5 | ✓ | ✓ |
| 1080/60p | 1 920 x 1 080 | 67.5 | 60.0 | 148.5 | ✓ | ✓ |
| 1366 x 768 | 1 366 x 768 | 39.6 | 49.9 | 69.0 | ✓ | _ |
| 1300 X 700 | 1 366 x 768 | 47.7 | 59.8 | 85.5 | ✓ | _ |
| 1400 × 1050 | 1 400 x 1 050 | 54.1 | 50.0 | 99.9 | ✓ | _ |
| 1400 x 1050 | 1 400 x 1 050 | 65.3 | 60.0 | 121.8 | ✓ | _ |
| 4000 4000 | 1 920 x 1 080 | 55.6 | 49.9 | 141.5 | √ | _ |
| 1920 x 1080 | 1 920 x 1 080 | 66.6 | 59.9 | 138.5 | √ | _ |
| 4000 4000 | 1 920 x 1 200 | 61.8 | 49.9 | 158.3 | √ | _ |
| 1920 x 1200 | 1 920 x 1 200 | 74.0 | 60.0 | 154.0 | 1 | _ |

List of 3D compatible signals

The following table specifies the 3D compatible video signals that the projector can project.

- Abbreviations for input formats and 3D formats in the table have the following meanings.
 - FP: Frame packing format
 - SBS: Side by side format
 - TB: Top and bottom format
 - LBL: Line by line format
 - FS: Frame sequential format
 - 3G: 3G-SDI Level B simultaneous format
 - H-D: HDMI & DVI-D input simultaneous format
 - R1-2: RGB1 & RGB2 input simultaneous format
 - S1-2: SDI1 & SDI2 input simultaneous format

| 25 (11.1 | 5 1 " | Scannii | ng freq. | Dot clock | | HD | MI | | | DV | 'I-D | |
|----------------------|----------------------|---------------------|------------------|----------------|----|-------|----|----|-------|----|------|----|
| 3D compatible signal | Resolution (Dots) | Horizontal (kHz) | Vertical (Hz) | freq. (MHz) | FP | SBS*1 | тв | FS | SBS*1 | тв | LBL | FS |
| 720/60p | 1 280 x 720 | 45.0 | 60.0 | 74.3 | 1 | 1 | 1 | _ | 1 | 1 | 1 | |
| 720/50p | 1 280 x 720 | 37.5 | 50.0 | 74.3 | 1 | 1 | 1 | _ | 1 | 1 | 1 | _ |
| 1080/60i | 1 920 x 1 080i | 33.8 | 60.0 | 74.3 | 1 | 1 | _ | _ | 1 | 1 | _ | _ |
| 1080/50i | 1 920 x 1 080i | 28.1 | 50.0 | 74.3 | 1 | 1 | _ | _ | 1 | 1 | _ | _ |
| 1080/24p | 1 920 x 1 080 | 27.0 | 24.0 | 74.3 | 1 | 1 | 1 | _ | 1 | 1 | _ | _ |
| 1080/24sF | 1 920 x 1 080i | 27.0 | 24.0 | 74.3 | _ | _ | _ | _ | 1 | 1 | _ | _ |
| 1080/25p | 1 920 x 1 080 | 28.1 | 25.0 | 74.3 | _ | _ | _ | _ | 1 | / | _ | _ |
| 1080/30p | 1 920 x 1 080 | 33.8 | 30.0 | 74.3 | _ | _ | _ | _ | 1 | / | _ | _ |
| 1080/60p | 1 920 x 1 080 | 67.5 | 60.0 | 148.5 | _ | 1 | 1 | _ | 1 | / | _ | _ |
| 1080/50p | 1 920 x 1 080 | 56.3 | 50.0 | 148.5 | _ | 1 | 1 | _ | 1 | 1 | _ | _ |
| 640 x 480 | 640 x 480 | 31.5 | 59.9 | 25.2 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 800 x 600 | 800 x 600 | 37.9 | 60.3 | 40.0 | _ | _ | _ | _ | 1 | _ | _ | _ |
| | 1 024 x 768 | 39.6 | 50.0 | 51.9 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 4004 700 | 1 024 x 768 | 48.4 | 60.0 | 65.0 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 1024 x 768 | 1 024 x 768 | 81.4 | 100.0 | 113.3 | _ | _ | _ | 1 | | _ | _ | 1 |
| | 1 024 x 768 | 98.8 | 120.0 | 139.1 | _ | _ | _ | 1 | | _ | _ | 1 |
| 1152 x 864 | 1 152 x 864 | 53.7 | 60.0 | 81.6 | _ | _ | _ | _ | 1 | _ | _ | _ |
| | 1 280 x 720 | 37.1 | 49.8 | 60.5 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 4000 700 | 1 280 x 720 | 44.8 | 59.9 | 74.5 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 1280 x 720 | 1 280 x 720 | 76.3 | 100.0 | 131.8 | _ | _ | _ | 1 | _ | _ | _ | 1 |
| | 1 280 x 720 | 92.6 | 120.0 | 161.6 | _ | _ | _ | 1 | _ | _ | _ | 1 |
| | 1 280 x 768 | 39.6 | 49.9 | 65.3 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 1280 x 768 | 1 280 x 768 | 47.8 | 59.9 | 79.5 | _ | _ | _ | _ | / | _ | _ | _ |
| | 1 280 x 768*2 | 47.4 | 60.0 | 68.3 | _ | _ | _ | _ | / | _ | _ | _ |
| | 1 280 x 800 | 41.3 | 50.0 | 68.0 | _ | - | _ | _ | / | _ | _ | _ |
| 1280 x 800 | 1 280 x 800 | 49.7 | 59.8 | 83.5 | _ | _ | _ | _ | 1 | l | _ | 1 |
| | 1 280 x 800*2 | 49.3 | 59.9 | 71.0 | _ | _ | _ | _ | / | _ | _ | _ |
| 1280 x 960 | 1 280 x 960 | 60.0 | 60.0 | 108.0 | _ | _ | _ | _ | 1 | | _ | - |
| 1280 x 1024 | 1 280 x 1 024 | 52.4 | 50.0 | 88.0 | _ | _ | _ | _ | / | | _ | - |
| 1200 X 1024 | 1 280 x 1 024 | 64.0 | 60.0 | 108.0 | _ | _ | _ | _ | / | | _ | - |
| 1366 x 768 | 1 366 x 768 | 47.7 | 59.8 | 85.5 | _ | _ | _ | _ | 1 | - | _ | - |
| 1300 X 700 | 1 366 x 768 | 39.6 | 49.9 | 69.0 | _ | _ | _ | _ | / | _ | _ | _ |
| | 1 400 x 1 050 | 54.1 | 50.0 | 99.9 | _ | _ | _ | _ | / | _ | _ | _ |
| 1400 × 1050 | 1 400 x 1 050 | 64.0 | 60.0 | 108.0 | _ | _ | _ | _ | 1 | _ | | _ |
| 1400 x 1050 | 1 400 x 1 050 | 65.2 | 60.0 | 122.6 | _ | _ | _ | _ | 1 | _ | _ | _ |
| | 1 400 x 1 050 | 65.3 | 60.0 | 121.8 | _ | _ | _ | _ | 1 | _ | | _ |
| 1440 × 000 | 1 440 x 900 | 55.9 | 59.9 | 106.5 | _ | | _ | | 1 | _ | | _ |
| 1440 x 900 | 1 440 x 900 | 46.3 | 49.9 | 86.8 | _ | | | _ | 1 | _ | | _ |
| 1600 × 000 | 1 600 x 900 | 46.4 | 49.9 | 96.5 | _ | _ | | | 1 | | | _ |
| 1600 x 900 | 1 600 x 900 | 55.9 | 60.0 | 119.0 | | _ | _ | _ | 1 | _ | _ | _ |

| 3D compatible Resolution | | Scanning freq. | | Dot clock | | HD | MI | | DVI-D | | | |
|--------------------------|-----------------|---------------------|------------------|----------------|----|-------|----|----|-------|----|-----|----|
| signal | (Dots) | Horizontal (kHz) | Vertical (Hz) | freq. (MHz) | FP | SBS*1 | ТВ | FS | SBS*1 | ТВ | LBL | FS |
| 4000 4000 | 1 600 x 1 200 | 75.0 | 60.0 | 162.0 | _ | _ | _ | _ | / | _ | _ | _ |
| 1600 x 1200 | 1 600 x 1 200 | 61.8 | 49.9 | 131.5 | _ | _ | _ | _ | / | _ | _ | _ |
| 4000 4050 | 1 680 x 1 050 | 65.3 | 60.0 | 146.3 | _ | _ | _ | _ | / | _ | _ | _ |
| 1680 x 1050 | 1 680 x 1 050 | 54.1 | 50.0 | 119.5 | _ | - | _ | _ | / | _ | _ | _ |
| 4000 4000 | 1 920 x 1 080 | 55.6 | 49.9 | 141.5 | _ | - | _ | _ | / | _ | _ | _ |
| 1920 x 1080 | 1 920 x 1 080*2 | 66.6 | 59.9 | 138.5 | _ | _ | _ | _ | / | _ | _ | _ |
| 1020 v 1200 | 1 920 x 1 200 | 61.8 | 49.9 | 158.3 | _ | _ | _ | _ | 1 | | _ | _ |
| 1920 x 1200 | 1 920 x 1 200*2 | 74.0 | 60.0 | 154.0 | _ | _ | _ | _ | 1 | _ | 1 | _ |

^{*1} Supports half.
*2 VESA CVT RB (Reduced Blanking) compliant

| | 5 | Scanni | ng freq. | Dot clock | R | GB1/ | RGB2 | 2 | | SDI1/ | SDI2 | | | | |
|----------------------|----------------------|---------------------|------------------|----------------|-------|------|------|----|-------|----------|------|----|----------|------|------|
| 3D compatible signal | Resolution (Dots) | Horizontal (kHz) | Vertical (Hz) | freq. (MHz) | SBS*1 | тв | LBL | FS | SBS*1 | тв | LBL | 3G | H-D | R1-2 | S1-2 |
| 720/60p | 1 280 x 720 | 45.0 | 60.0 | 74.3 | 1 | 1 | 1 | _ | 1 | > | 1 | \ | 1 | 1 | 1 |
| 720/50p | 1 280 x 720 | 37.5 | 50.0 | 74.3 | 1 | 1 | 1 | _ | 1 | \ | 1 | / | 1 | 1 | 1 |
| 1080/60i | 1 920 x 1 080i | 33.8 | 60.0 | 74.3 | 1 | 1 | _ | _ | 1 | \ | _ | / | 1 | 1 | 1 |
| 1080/50i | 1 920 x 1 080i | 28.1 | 50.0 | 74.3 | 1 | 1 | _ | _ | 1 | 1 | _ | 1 | 1 | 1 | 1 |
| 1080/24p | 1 920 x 1 080 | 27.0 | 24.0 | 74.3 | 1 | 1 | _ | _ | 1 | / | _ | 1 | 1 | 1 | 1 |
| 1080/24sF | 1 920 x 1 080i | 27.0 | 24.0 | 74.3 | 1 | 1 | _ | _ | 1 | 1 | _ | 1 | 1 | 1 | 1 |
| 1080/25p | 1 920 x 1 080 | 28.1 | 25.0 | 74.3 | 1 | 1 | _ | _ | 1 | 1 | _ | 1 | 1 | 1 | 1 |
| 1080/30p | 1 920 x 1 080 | 33.8 | 30.0 | 74.3 | 1 | 1 | _ | _ | 1 | 1 | _ | 1 | 1 | 1 | 1 |
| 1080/60p | 1 920 x 1 080 | 67.5 | 60.0 | 148.5 | 1 | 1 | _ | _ | 1 | 1 | _ | _ | 1 | 1 | 1 |
| 1080/50p | 1 920 x 1 080 | 56.3 | 50.0 | 148.5 | 1 | 1 | _ | _ | 1 | 1 | _ | _ | 1 | 1 | 1 |
| 640 x 480 | 640 x 480 | 31.5 | 59.9 | 25.2 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 800 x 600 | 800 x 600 | 37.9 | 60.3 | 40.0 | 1 | _ | _ | _ | _ | - | _ | _ | _ | _ | _ |
| | 1 024 x 768 | 39.6 | 50.0 | 51.9 | 1 | _ | _ | _ | _ | - | _ | _ | _ | _ | _ |
| | 1 024 x 768 | 48.4 | 60.0 | 65.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1024 x 768 | 1 024 x 768 | 81.4 | 100.0 | 113.3 | _ | _ | _ | 1 | _ | _ | _ | _ | _ | _ | _ |
| | 1 024 x 768 | 98.8 | 120.0 | 139.1 | _ | _ | _ | 1 | _ | _ | _ | _ | _ | _ | _ |
| 1152 x 864 | 1 152 x 864 | 53.7 | 60.0 | 81.6 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 280 x 720 | 37.1 | 49.8 | 60.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 280 x 720 | 44.8 | 59.9 | 74.5 | 1 | _ | _ | _ | _ | _ | _ | _ | <u> </u> | _ | _ |
| 1280 x 720 | 1 280 x 720 | 76.3 | 100.0 | 131.8 | _ | _ | _ | 1 | _ | _ | _ | _ | <u> </u> | _ | _ |
| | 1 280 x 720 | 92.6 | 120.0 | 161.6 | _ | _ | _ | 1 | _ | _ | _ | _ | <u> </u> | _ | _ |
| | 1 280 x 768 | 39.6 | 49.9 | 65.3 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1280 x 768 | 1 280 x 768 | 47.8 | 59.9 | 79.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 280 x 768*2 | 47.4 | 60.0 | 68.3 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 280 x 800 | 41.3 | 50.0 | 68.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1280 x 800 | 1 280 x 800 | 49.7 | 59.8 | 83.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 280 x 800*2 | 49.3 | 59.9 | 71.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1280 x 960 | 1 280 x 960 | 60.0 | 60.0 | 108.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 280 x 1 024 | 52.4 | 50.0 | 88.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1280 x 1024 | 1 280 x 1 024 | 64.0 | 60.0 | 108.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 366 x 768 | 47.7 | 59.8 | 85.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1366 x 768 | 1 366 x 768 | 39.6 | 49.9 | 69.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 400 x 1 050 | 54.1 | 50.0 | 99.9 | 1 | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | _ |
| | 1 400 x 1 050 | 64.0 | 60.0 | 108.0 | 1 | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | _ |
| 1400 x 1050 | 1 400 x 1 050 | 65.2 | 60.0 | 122.6 | 1 | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | _ |
| | 1 400 x 1 050 | 65.3 | 60.0 | 121.8 | 1 | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | _ |
| | 1 440 x 900 | 55.9 | 59.9 | 106.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1440 x 900 | 1 440 x 900 | 46.3 | 49.9 | 86.8 | 1 | _ | _ | _ | _ | _ | _ | _ | <u> </u> | _ | _ |
| | 1 600 x 900 | 46.4 | 49.9 | 96.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1600 x 900 | 1 600 x 900 | 55.9 | 60.0 | 119.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |

| 3D compatible Resolution | | Scanni | ng freq. | Dot clock | R | RGB1/RGB2 | | | | SDI1/ | SDI2 | | | | |
|--------------------------|-----------------|---------------------|------------------|----------------|-------|-----------|-----|----|-------|-------|------|----|-----|------|------|
| 3D compatible signal | (Dots) | Horizontal (kHz) | Vertical (Hz) | freq. (MHz) | SBS*1 | тв | LBL | FS | SBS*1 | тв | LBL | 3G | H-D | R1-2 | S1-2 |
| 4000 v 4000 | 1 600 x 1 200 | 75.0 | 60.0 | 162.0 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1600 x 1200 | 1 600 x 1 200 | 61.8 | 49.9 | 131.5 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 4000 × 4050 | 1 680 x 1 050 | 65.3 | 60.0 | 146.3 | 1 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1680 x 1050 | 1 680 x 1 050 | 54.1 | 50.0 | 119.5 | 1 | _ | _ | _ | _ | _ | — | _ | — | _ | _ |
| 4000 × 4000 | 1 920 x 1 080 | 55.6 | 49.9 | 141.5 | 1 | _ | _ | _ | _ | _ | _ | _ | — | _ | _ |
| 1920 x 1080 | 1 920 x 1 080*2 | 66.6 | 59.9 | 138.5 | 1 | _ | _ | _ | _ | _ | _ | _ | — | _ | _ |
| 1020 v 1200 | 1 920 x 1 200 | 61.8 | 49.9 | 158.3 | 1 | _ | _ | _ | _ | _ | _ | _ | 1 | 1 | _ |
| 1920 x 1200 | 1 920 x 1 200*2 | 74.0 | 60.0 | 154.0 | 1 | _ | 1 | _ | | _ | _ | _ | 1 | 1 | |

Note

^{*1} Supports half. *2 VESA CVT RB (Reduced Blanking) compliant

[•] DIGITAL LINK input compatible signal is the same as HDMI input compatible signal.

Specifications

The specifications of the projector are as follows.

| Power supply | y | 100 V - 240 V \sim (100 V - 240 V alt | ernating current), 50 Hz/60 Hz | | | | | | |
|-----------------|-----------------------------------|--|--|--|--|--|--|--|--|
| | | 1 200 W (12.0 A - 6.0 A) | | | | | | | |
| Power consu | ımption | When [STANDBY MODE] is set to [ECO]: 0.3 W | | | | | | | |
| | | When [STANDBY MODE] is set to | [NORMAL]: 4 W | | | | | | |
| | 0: | PT-RZ12K | 24.4 mm (0.96") (aspect ratio 16:10) | | | | | | |
| | Size | PT-RS11K | 24.1 mm (0.95") (aspect ratio 4:3) | | | | | | |
| DLP chip | Display system | DLP chip x 3, DLP projection system | | | | | | | |
| | Number of pivole | PT-RZ12K | -RZ12K 2 304 000 pixels (1 920 x 1 200 dots) | | | | | | |
| | Number of pixels | PT-RS11K | 1 470 000 pixels (1 400 x 1 050 dots) | | | | | | |
| Lens | | Optional | | | | | | | |
| Light source | | Laser, 2-bank type | | | | | | | |
| Light output* | 1 | 12 000 lm (ANSI) | | | | | | | |
| Contrast ratio | O*1 | 20 000:1 (when [DYNAMIC CONTI | RAST] is set to [3]) | | | | | | |
| Color system | า | 7 standards (NTSC/NTSC4.43/PAL | /PAL-N/PAL-M/SECAM/PAL60) | | | | | | |
| Projected image | age size | .78 m (70") to 25.40 m (1 000")*2 | | | | | | | |
| Image aspec | t ratio | PT-RZ12K | 16:10 | | | | | | |
| illiage aspec | Lialio | PT-RS11K 4:3 | | | | | | | |
| Projection m | ethod | [FRONT/CEILING], [FRONT/FLOOR], [REAR/CEILING], [REAR/FLOOR] | | | | | | | |
| Power cord I | ength | 3.0 m (118-1/8") | | | | | | | |
| Outer case | | Molded plastic | | | | | | | |
| | Width | 578 mm (22-3/4") | | | | | | | |
| Dimensions | Height | 270 mm (10-5/8") (excluding the fe | , | | | | | | |
| | Depth | 725 mm (28-17/32") (excluding the | protrusion) | | | | | | |
| Weight | | Approx. 44.0 kg (96.9 lbs.)*3 | | | | | | | |
| Noise level*1 | | 43 dB | | | | | | | |
| Operating | Operating environment temperature | 0 °C (32 °F) to 50 °C (122 °F)*4 | | | | | | | |
| environment | Operating environment humidity | 10 % to 80 % (no condensation) | | | | | | | |
| | Power supply | DC 3 V (AA/R6/LR6 battery x 2) | | | | | | | |
| Remote | Operating range | Within approx. 30 m (98'5") (when | operated directly in front of signal receiver) | | | | | | |
| control | Weight | 150 g (5.3 ozs.) (including batteries | 3) | | | | | | |
| | Dimensions | Width: 47.5 mm (1-7/8"), Height: 18 | 31.5 mm (7-5/32"), Depth: 27.5 mm (1-3/32") | | | | | | |

- *1 Measurement, measuring conditions and method of notation all comply with ISO21118 international standards.
- *2 When the Zoom Lens (Model No.: ET-D75LE8) is used, the projected image size for the maximum projection distance will be 1.78 m (70") to 15.24 m (600"). When the Fixed-focus Lens (Model No.: ET-D75LE90) is used, the projected image size for the maximum projection distance will be 3.05 m (120") to 15.24 m (600").
- *3 Average value. Weight varies for each product.
- *4 The operating environment temperature should be between 0 °C (32 °F) and 45 °C (113 °F) if the projector is used at an altitude between 1 400 m (4 593') and 4 200 m (13 780') above sea level. However, when [OPERATING MODE] in the [PROJECTOR SETUP] menu → [OPERATION SETTING] is set to [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3], the operating environment temperature should be between 0 °C (32 °F) and 45 °C (113 °F), and when the Smoke Cut Filter is used, it should be between 0 °C (32 °F) and 40 °C (104 °F).

 When [OPERATING MODE] in the [PROJECTOR SETUP] menu → [OPERATION SETTING] is set to [ECO], [LONG LIFE1], [LONG LIFE2], or [LONG LIFE3], the projector cannot be used at an altitude of 2 700 m (8 858') or higher above sea level. When the Smoke Cut Filter is used, the projector cannot be used at an altitude of 1 400 m (4 593') or higher above sea level.

■ Applicable scanning frequency

Refer to "List of compatible signals" (→ page 206) for the types of video signals that can be used with the projector.

| For video signal, Y/C signal | Horizontal: 15.75 kHz, Vertical: 60 Hz; H | lorizontal: 15.63 kHz, Vertical: 50 Hz |
|---|--|---|
| For RGB signal | Horizontal: 15 kHz to 100 kHz, Vertical: PIAS (Panasonic Intelligent Auto Scanni | |
| | Dot clock frequency: 162 MHz or less | |
| For YC _B C _R /YP _B P _R signal | 525i (480i) Horizontal: 15.73 kHz, Vertical: 59.94 525p (480p) Horizontal: 31.47 kHz, Vertical: 59.94 750 (720)/60p Horizontal: 45 kHz, Vertical: 60 Hz 1125 (1035)/60i Horizontal: 33.75 kHz, Vertical: 60 Hz 1125 (1080)/50i Horizontal: 28.13 kHz, Vertical: 50 Hz 1125 (1080)/24sF Horizontal: 27 kHz, Vertical: 48 Hz 1125 (1080)/30p Horizontal: 33.75 kHz, Vertical: 30 Hz 1125 (1080)/50p Horizontal: 56.25 kHz, Vertical: 50 Hz The SYNC/HD and VD terminals do n | 625p (576p) Horizontal: 31.25 kHz, Vertical: 50 Hz 750 (720)/50p Horizontal: 37.5 kHz, Vertical: 50 Hz 1125 (1080)/60i Horizontal: 33.75 kHz, Vertical: 60 Hz 1125 (1080)/24p Horizontal: 27 kHz, Vertical: 24 Hz 1125 (1080)/25p Horizontal: 28.13 kHz, Vertical: 25 Hz 1125 (1080)/60p Horizontal: 67.5 kHz, Vertical: 60 Hz |
| For DVI-D signal | 525i (480i)*1, 625i (576i)*1, 525p (480p), 750 (720)/50p, 1125 (1080)/60i, 1125 (1125 (1080)/24sF, 1125 (1080)/25p, 112 1125 (1080)/60p, 1125 (1080)/50p Displayable resolution: 640 x 480 to 1 Dot clock frequency: 25 MHz to 162 M | 080)/50i, 1125 (1080)/24p, 5 (1080)/30p, 920 x 1 200 (non-interlaced) |
| For HDMI signal | 525i (480i)*1, 625i (576i)*1, 525p (480p), 750 (720)/50p, 1125 (1080)/60i, 1125 (11 1125 (1080)/24sF, 1125 (1080)/25p, 112 1125 (1080)/60p, 1125 (1080)/50p • Displayable resolution: 640 x 480 to 1 | 625p (576p), 750 (720)/60p, 080)/50i, 1125 (1080)/24p, 5 (1080)/30p, 920 x 1 200 (non-interlaced) |
| | Dot clock frequency: 25 MHz to 162 N | |
| | Single link HD-SDI signal | SMPTE ST 259 compliant $ \begin{array}{l} \text{YC}_{\text{B}}\text{C}_{\text{R}} \text{ 4:2:2 10-bit} \\ \text{480i, 576i} \\ \text{SMPTE ST 292 compliant} \\ \text{YP}_{\text{B}}\text{P}_{\text{R}} \text{ 4:2:2 10-bit} \\ \text{720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p,} \\ \text{1080/24p, 1080/24sF, 1080/30p} \\ \end{array} $ |
| For SDI signal | Dual link HD-SDI signal | SMPTE ST 372 compliant RGB 4:4:4 12-bit/10-bit 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, 2048 x 1080/24p, 2048 x 1080/24sF X'Y'Z' 4:4:4 12-bit 2048 x 1080/24p, 2048 x 1080/24sF |
| | 3G-SDI signal | SMPTE ST 424 compliant YP _B P _R 4:2:2 10-bit 1080/50p, 1080/60p RGB 4:4:4 12-bit/10-bit 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p |
| | Dual link 3G-SDI signal | SMPTE ST 425 compliant YP _B P _R 4:4:4 12-bit/10-bit 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p RGB 4:4:4 12-bit/10-bit 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p |

^{*1} Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

Note

[•] DIGITAL LINK input compatible signal is the same as HDMI input compatible signal.

■ Terminal

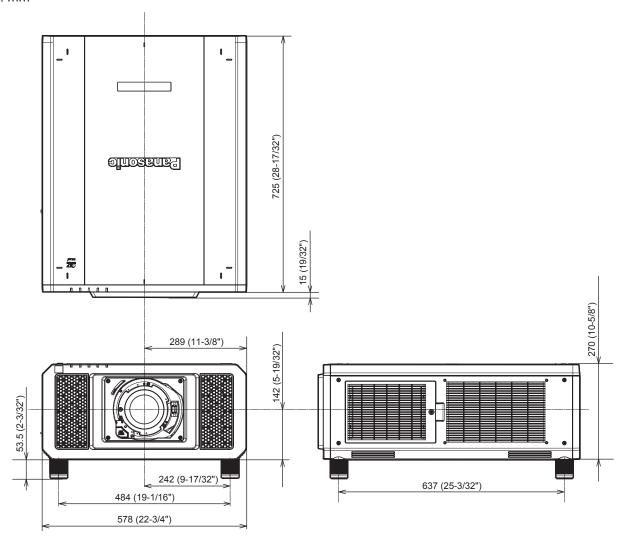
| | 1 set (BNC x 5 (RGB/YP _E | P _R /YC _B C _R /YC/VIDEO x 1 | 1)) |
|--|---------------------------------------|--|---|
| | RGB signal | | ON GREEN: 1.0 V [p-p] 75 Ω) |
| | | SYNC/HD | TTL high impedance, automatic positive/negative polarity compatible |
| <rgb 1="" in=""> terminal</rgb> | | VD | TTL high impedance, automatic positive/negative polarity compatible |
| | YP _B P _R signal | Y: 1.0 V [p-p] including s | synchronization signal, P _B P _R : 0.7 V [p-p] 75 Ω |
| | Y/C signal | Y: 1.0 V [p-p], C: 0.286 | V [p-p] 75 Ω |
| | VIDEO signal | 1.0 V [p-p] 75 Ω | |
| | 1 set, high-density D-Sub | 15 p (female) | |
| | RGB signal | 0.7 V [p-p] 75 Ω (SYNC | ON GREEN: 1.0 V [p-p] 75 Ω) |
| <rgb 2="" in=""> terminal</rgb> | | SYNC/HD | TTL high impedance, automatic positive/negative polarity compatible |
| | | VD | TTL high impedance, automatic positive/negative polarity compatible |
| | YP _B P _R signal | Y: 1.0 V [p-p] including s | synchronization signal, P_BP_R : 0.7 V [p-p] 75 Ω |
| <dvi-d in=""> terminal</dvi-d> | 1 set, DVI-D 24 p, single | link, DVI 1.0 compliant, H | IDCP compatible |
| <hdmi in=""> terminal</hdmi> | 1 set, HDMI 19 p, HDCP | compatible, Deep Color of | compatible |
| | 1 set (BNC) | | |
| | SD-SDI signal | SMPTE ST 259 complia | ant |
| | HD-SDI signal | SMPTE ST 292 complia | ant |
| <sdi 1="" in=""> terminal</sdi> | 3G-SDI signal | SMPTE ST 424 complia | ant |
| | Dual link HD-SDI (LINK-A) signal | SMPTE ST 372 complia | ant |
| | Dual link 3G-SDI (Link 1) signal | SMPTE ST 425 complia | ant |
| | 1 set (BNC) | | |
| | SD-SDI signal | SMPTE ST 259 complia | ant |
| | HD-SDI signal | SMPTE ST 292 complia | ant |
| <sdi 2="" in=""> terminal</sdi> | 3G-SDI signal | SMPTE ST 424 complia | ant |
| | Dual link HD-SDI (LINK-B) signal | SMPTE ST 372 complia | ant |
| | Dual link 3G-SDI (Link 2) signal | SMPTE ST 425 complia | ant |
| | 1 set (BNC) | | |
| <3D SYNC 1 IN/OUT> terminal | During input setting | TTL high impedance | |
| | During output setting | TTL output: Maximum 1 | 0 mA |
| <3D SYNC 2 OUT> terminal | 1 set (BNC) | | |
| C3D 31NC 2 OO1> terrillilar | TTL output: Maximum 10 | mA | |
| <serial in="">/ <serial out=""> terminal</serial></serial> | D-Sub 9 p, 1 set each, RS | S-232C compliant, for cor | mputer control |
| <remote 1="" in="">/ <remote 1="" out=""> terminal</remote></remote> | M3 stereo mini jack, 1 set | each, for remote control | (wired)/for projector connection control |
| <remote 2="" in=""> terminal</remote> | 1 set, D-Sub 9 p, for cont | act control | |
| <digital lan="" link=""> terminal</digital> | | | ections (HDBaseT™ compliant), PJLink compatible, le, Deep Color compatible |

Note

• The model numbers of accessories and optional accessories are subject to change without prior notice.

Dimensions

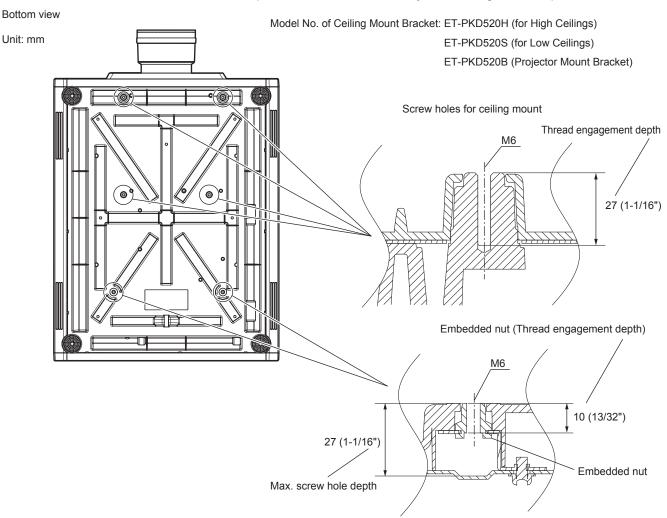
Unit: mm



^{*} Actual dimensions may differ depending on the product.

Precautions for attaching the Ceiling Mount Bracket

- When installing the projector to a ceiling, be sure to use the specified optional Ceiling Mount Bracket (Model No.: ET-PKD520H (for High Ceilings), ET-PKD520S (for Low Ceilings), ET-PKD520B (Projector Mount Bracket)). The Ceiling Mount Bracket (Model No.: ET-PKD520H (for High Ceilings), ET-PKD520S (for Low Ceilings)) is used in combination with the Ceiling Mount Bracket (Model No.: ET-PKD520B (Projector Mount Bracket)).
- Attach the drop-prevention set that comes with the Ceiling Mount Bracket. If you need the drop-prevention set (hex bolt with washer (M10 x 40), wire rope: TTRA0143) separately, consult your dealer.
- Ask a qualified technician to do the installation work such as mounting the projector on the ceiling.
- Panasonic takes no responsibility for any damage to the projector resulting from use of the Ceiling Mount
 Bracket not manufactured by Panasonic or the inappropriate choice of location for installing the Ceiling Mount
 Bracket, even if the warranty period of the projector has not expired.
- Unused products must be removed promptly by a qualified technician.
- Referring to the following screw holes for ceiling mount diagram, use screws of sufficient length to reach the embedded nuts.
- Use a torque screwdriver or Allen torque wrench to tighten bolts to their specified tightening torques. Do not use electric screwdrivers or impact screwdrivers.
- Read the Installation Instructions of the Ceiling Mount Bracket for details.
- The model numbers of accessories and optional accessories are subject to change without prior notice.



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Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Product Information (for Turkey only)

AEEE Yönetmeliğine Uygundur.

Eski Ekipman ve Bataryaların İşlenmesi.



Sadece geri dönüşüm sistemleri olan Avrupa Birliği ve ülkeleri için geçerlidir.

Ürünler, ambalaj ve/veya ekli belgeler üzerindeki bu semboller kullanılmış elektrik ve elektronik ürünlerin ve pillerin genel ev atığı ile karıştırılmaması gerektiğini ifade eder.



Eski ürünlerin ve pillerin toplanması ve geri kazanılması için bu atıkları lütfen yasayla belirlenmiş olan uygun toplama merkezlerine teslim ediniz. Bu atıkların doğru işlenmesiyle, değerli kaynakların korunmasına ve insan sağlığı ve çevreye



olası negatif etkilerinin engellenmesine yardımcı olabilirsiniz.

Atıkların toplanması ve geri dönüsümü için detaylı bilgi için lütfen bağlı olduğunuz verel

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Atıkların atılmasıyla ilgili yanlış uygulamalar yasayla belirlenmiş olan cezalara sebebiyet verebilir.

Panasonic Corporation

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