

Projector

IN5132/IN5132c/IN5142/IN5142c/IN5134/
IN5134a/IN5134c/IN5144/IN5144a/IN5144c/
IN5135/IN5135c/IN5145/IN5145c

User's Manual (concise)

Please read this user's manual thoroughly to ensure the proper use of this product.

Manuel d'utilisation (résumé)

Nous vous recommandons de lire attentivement ce manuel pour bien assimiler le fonctionnement de l'appareil.

Bedienungsanleitung (Kurzform)

Um zu gewährleisten, dass Sie die Bedienung des Geräts verstanden haben, lesen Sie dieses Handbuch bitte sorgfältig.

Manual de usuario (resumen)

Lea atentamente el manual de usuario del proyector para garantizar un uso adecuado del mismo.

Manuale d'istruzioni (breve)

Vi preghiamo di leggere attentamente il manuale d'istruzioni per garantire una corretta comprensione delle istruzioni.

Brukerhåndbok (konsis)

Vennligst les denne brukerhåndbok grundig for å være garantert driftssikker bruk.

Gebruiksaanwijzing (beknopt)

Lees deze gebruikershandleiding grondig door, zodat u de werking ervan begrijpt en correct gebruik verzekerd is.

Instruções do proprietário (concisas)

Leia atentamente o presente manual do utilizador para garantir a utilização correcta por via da sua compreensão.

使用说明书 (简易版)

请仔细阅读本《使用说明书》，在理解的基础上正确使用。

사용 설명서 (휴대용)

본 사용자 설명서를 잘 읽으시고 이해하신 후, 올바르게 사용해 주십시오.

Bruksanvisning (koncis)

Läs denna bruksanvisning noga för att förstå alla instruktionerna för ett korrekt bruk.

Руководство пользователя (краткое)

Пожалуйста, внимательно прочтите данное руководство пользователя для ознакомления и правильно использования.

Käyttäjän ohjekirja (suppea)

Lue käyttäjän ohjekirja huolellisesti varmistaaksesi, että ymmärrät miten laitetta käytetään oikein.

Podręcznik użytkownika (skrótowy)

Przeczytaj dokładnie i ze zrozumieniem niniejszy podręcznik użytkownika, aby zapewnić prawidłowe użytkowanie urządzenia.

Panduan Pengguna (singkat)

Mohon dibaca panduan ini secara cermat untuk menjamin produk ini digunakan dengan benar.

دليل المستخدم (الموجز)
يرجى قراءة دليل المستخدم بعناية لضمان الاستخدام الأمثل لهذا المنتج.

ENGLISH

FRANÇAIS

DEUTSCH

ESPAÑOL

ITALIANO

NORSK

NEDERLANDS

PORTUGUÊS

中文

한국어

SVENSKA

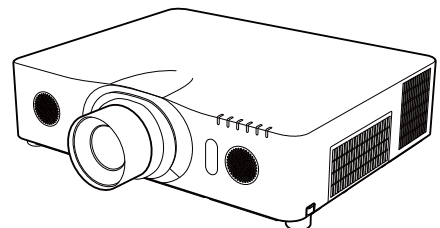
РУССКИЙ

SUOMI

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HUOM! • Tämän ohjekirjan tiedot voivat muuttua ilman eri ilmoitusta. • Valmistaja ei ota mitään vastuuta ohjekirjassa mahdollisesti olevista virheistä. • Dokumentin tai sen sisällön jäljentäminen, siirto tai käyttö ei ole sallittua ilmannimenomaista kirjallista valtuutusta.

UWAGA • Informacje podane w tym podręczniku mogą ulec zmianie bez uprzedzenia. • Producent nie ponosi odpowiedzialności za ewentualne błędy w podręczniku. • Powielanie, przysyłanie lub inne wykorzystanie tego dokumentu lub jego treści nie jest dozwolone bez wyraźnej pisemnej zgody.

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ملاحظة • المعلومات الواردة بهذا الدليل عرضة للتغيير دون إخطار. • لا تتحمل الجهة المصنعة مسؤولية الأخطاء التي قد تظهر بهذا الدليل. • لا يجوز إعادة إنتاج أي جزء من هذه الوثيقة أو نقلها أو نسخها دون الحصول على موافقة كتابية بذلك.



Thank you for purchasing this projector.

Before using this projector, please read through this manual in order to use it safely.

⚠WARNING ► Before using this product, read all manuals for this product. Afterwards, store the manuals in a safe place for future reference.
► Heed all warnings and cautions in the manuals and displayed on the product.
► Follow all the instructions in the manuals and on the product.

NOTE • In this manual, unless any comments are accompanied, “the manuals” means all the documents provided with this product, and “the product” means this projector and all the accessories came with the projector.

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Safety Information

Symbol and headings explanation

The following symbols and headings are used for the manuals and the product as follows, for safety purposes. Please review and read this important information.

⚠WARNING This warns of a serious risk of personal injury or even death.

⚠CAUTION This warns of a risk of personal injury or physical damage.

NOTICE This warns of a potential for causing problems.

Important safety instructions

The following instructions are designed to ensure the safe use of this product. Always follow these instructions when handling the product. The manufacturer assumes no responsibility for any damage caused by mishandling that is beyond normal usage defined in these projector manuals.

⚠WARNING ► Never use the product during or after an abnormal situation (for example, when the projector is smoking, smells strange, had a liquid spilled on it, had an object put inside it, is broken, etc.). If an abnormality should occur, unplug the projector immediately.

► Keep the product away from children and pets.

► Keep small parts away from children and pets. If parts are swallowed, consult a physician immediately for emergency treatment.

► Do not use the product when there is a threat of thunder and lightning.

► Unplug the projector from the power outlet when it is not in use.

► Do not connect the projector to a power supply when a lens unit is not attached to it.

► Do not open or remove any portion of the product, unless the manuals direct you so. Internal maintenance should only be accomplished by your dealer or their service personnel.

► Use only the accessories specified or recommended by the manufacturer.

► Do not modify the projector or accessories.

► Do not let any liquid or objects get inside of the product.

► Do not get the product wet.

► Do not place the projector where any oils, such as cooking or machine oil, are used. Oil may harm the product, resulting in a malfunction, or falling from mounted position.

► Do not apply a shock or pressure to this product.

- Do not place the product on an unstable place such as an uneven surface or a leaning table.

- Do not place the product in an unstable position. Place the projector so that it does not protrude from the surface which it is placed on.

- Hold the projector using the grips on the bottom of the projector when moving it.

- Remove all the attachments including the power cord and cables from the projector before carrying the projector.

► Do not look into the lens or openings of the projector, while the lamp is on.

► Stay away from the lamp cover and exhaust vents when the projection lamp is on and when the lamp has just gone out since they will be very hot.

Regulatory notices

About Electro-Magnetic Interference

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This product may cause interference if used in residential areas. Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.

In Canada

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

In the US and places where the FCC regulations are applicable

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.

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.

INSTRUCTIONS TO USERS: Some cables have to be used with a ferrite core. Use the accessory cable or a designated type cable for the connection. For cables that have a ferrite core on a single end, connect the ferrite core end to the projector.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Regulatory notices (continued)

About Waste Electrical and Electronic Equipment

The following information is only for EU-member states:

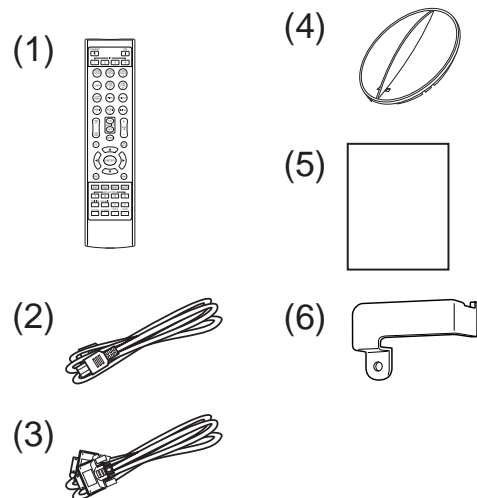
The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local laws.



Contents of package

Your projector should come with the items shown below. Check that all the items are included. Contact your dealer immediately if any items are missing.

- (1) Remote control (batteries not included)
- (2) Power cord
- (3) Computer cable
- (4) Lens cover
- (5) User's manual (Book x 1)
- (6) Adapter cover



⚠WARNING ► Keep small parts away from children and pets. Parts should not be placed in the mouth. If swallowed, consult a physician immediately for emergency treatment.

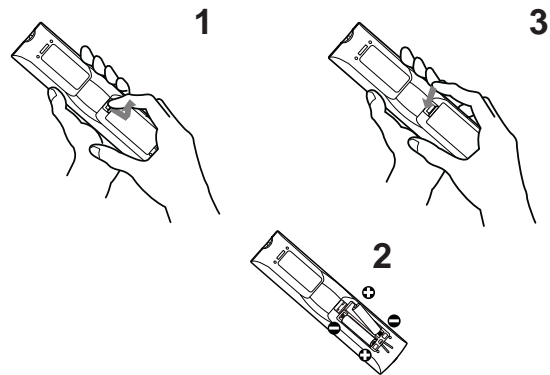
NOTE • Keep the original packing materials for future reshipment. Use the original packing materials when moving the projector. Use special caution for the lens.

• The projector may make a rattling sound when tilted, moved or shaken, since a flap to control the air flow inside of the projector will move. Be aware that this is not a failure or malfunction.

Preparing for the remote control

Please insert batteries (batteries not included) into the remote control before using it. If the remote control appears to malfunction, replace the batteries first. Remove the batteries from the remote control and store them in a safe place when the remote will not be used for a length of time.

1. Holding the hook part of the battery cover, remove it.
2. Align and insert two AA batteries (**HITACHI MAXELL** or **HITACHI MAXELL ENERGY, Part No.LR6** or **R6P**) according to their plus and minus terminals as indicated in the remote control.
3. Replace the battery cover in the direction of the arrow and snap it back into place.

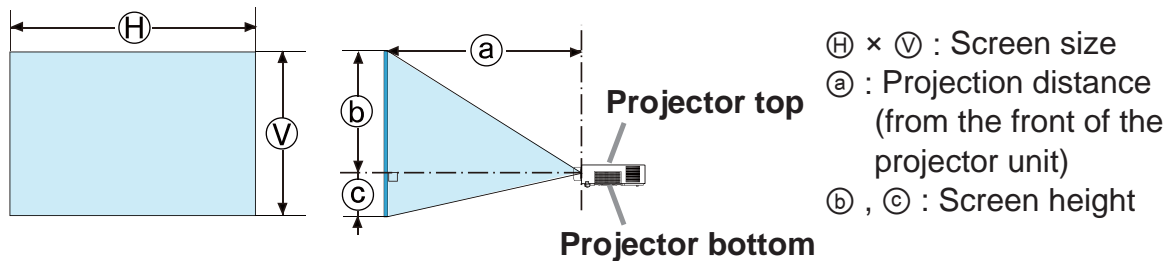


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- ⚠WARNING ► Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
- When replacing the batteries, replace both of the batteries with new batteries of the same type. Do not use a new battery with a used battery.
 - Only use the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
 - Make sure the plus and minus terminals are correctly aligned when loading a battery.
 - Keep a battery away from children and pets.
 - Do not recharge, short circuit, solder or disassemble a battery.
 - Do not place a battery in a fire or water. Keep batteries in a dark, cool and dry place.
 - If you observe battery leakage, wipe out the leakage and then replace a battery. If the leakage adheres to your body or clothes, rinse well with water immediately.
 - Obey the local laws when disposing of batteries.

Arrangement

Refer to the following table and to tables **T-1** to **T-5** at the back of this manual to determine screen size and projection distance. The values shown in the table are calculated for a full size screen.



△WARNING ► Install the projector where you can access the power outlet easily.

► Install the projector in a stable horizontal position.

- Do not use any mounting accessories except the accessories specified by the manufacturer. Read and keep all accessory manuals.
- For special installations such as ceiling mounting, consult your dealer beforehand. Specific mounting accessories and services may be required.
- Do not position the projector on its side, front or rear.
- Do not attach or place anything on the projector unless otherwise specified in the manual.

► Do not install the projector near thermally conductive or flammable items.

► Do not place the projector where any oils, such as cooking or machine oil, are used.

► Do not place the projector in a place where it may get wet.

△CAUTION ► Place the projector in a cool place with sufficient ventilation.

- Keep a space of 30 cm or more between the side of the projector and other objects such as walls.
- Do not plug, block or cover the projector's ventilation holes.
- Do not place the projector in places that are exposed to magnetic fields. Doing so can cause the cooling fans inside the projector to malfunction.
- Avoid placing the projector in smoky, humid or dusty places.
- Do not place the projector near humidifiers.

NOTICE ► Position the projector to prevent light from directly hitting the projector's remote sensor.

► Do not place the product in a place where radio interference may be caused.

► Verify the ALTITUDE setting in the OPTION>SERVICE menu is correct.

Under normal circumstances, it is recommended that it be set to AUTO. If the projector is using the wrong setting, it may cause damage to the projector itself or to the parts inside. For details, see **User's Manual - Operating Guide**.

Connecting with your devices

Before connecting the projector to a device, review the device manual to ensure projector compatibility and to understand what accessories are needed for connection. Consult your dealer when the required accessory did not come with the product or the accessory is damaged.

After verifying that the projector and the devices are turned off, connect the equipment, according to the following instructions. Refer to figures **F-1** to **F-4** at the back of this manual.

For details, see **User's Manual - Operating Guide**. Before connecting the projector to a network system, read **User's Manual - Network Guide** too.

△WARNING ► Use only compatible accessories. Otherwise a fire or projector and device damage may occur.

- Use only the accessories specified or recommended by the projector's manufacturer. Some regulations or standards may apply.
- Do not disassemble or modify the projector or its accessories.
- Do not use a damaged accessory. Be careful not to damage the accessories. Route cables so that they are not pinched or stepped on.
- Heat may build up in the USB wireless adapter, to avoid possible burns disconnect the projector power cord for 10 minutes before touching the adapter.
- When using the USB wireless adapter, connect the adapter to the further **USB TYPE A** port from the **LAN** port and use the supplied adapter cover (📖 8).

△CAUTION ► For a cable with a ferrite core at a single end, connect the end with the core to the projector. EMI regulations may apply.

- Before connecting the projector to a network system, obtain the consent of the network administrator.
- Do not connect the **LAN** port to any network that might have excessive voltage.
- The designated USB wireless adapter that is sold as an option uses the wireless network function of this projector. Before connecting the USB wireless adapter, turn off the power of the projector and disconnect the power cord.
- Before removing the USB storage device from the port of the projector, use the REMOVE USB function on the thumbnail screen to secure your data.

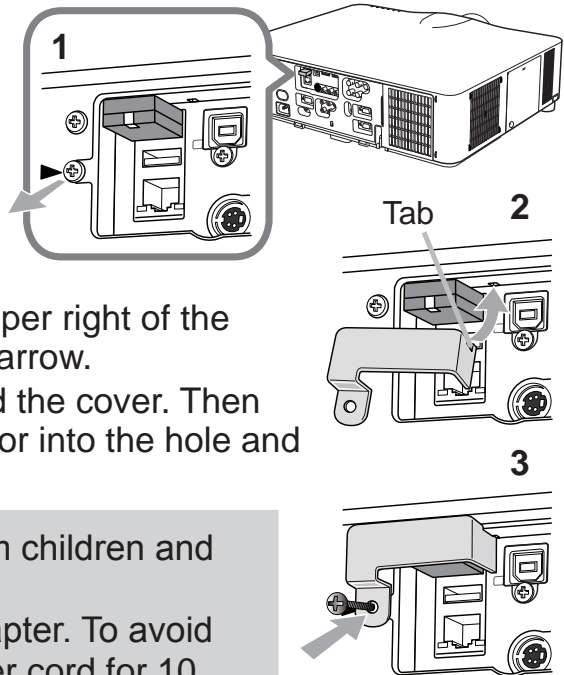
NOTE • Do not turn the projector on or off while connected to an operating device, unless directed by the device manual.

- Some input ports are user selectable. For details, see **User's Manual - Operating Guide**.
- Be careful not to connect a connector to a wrong port.
- If an oversized USB storage device blocks the **LAN** port, use a USB extension cable to connect the USB storage device.

Fastening the adapter cover

When using the USB wireless adapter, be sure to connect the adapter to the **USB TYPE A** port furthest away from the **LAN** port and use the supplied adapter cover.

1. Loosen the screw (marked with triangle) on the bottom left of the **USB TYPE A** ports.
2. Insert the cover tab into the hole at the upper right of the **USB TYPE A** ports in the direction of the arrow.
3. Align the screw holes on the projector and the cover. Then insert the screw removed from the projector into the hole and tighten the screw.

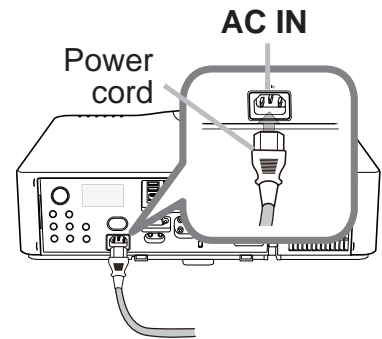


⚠WARNING ► Keep small parts away from children and pets. Do not put any parts into the mouth.
► Heat may build up in the USB wireless adapter. To avoid possible burns disconnect the projector power cord for 10 minutes before touching the adapter.

Connecting power supply

1. Plug the power cord into the **AC IN** (AC inlet) connector of the projector.
2. Firmly plug the power cord's plug into the outlet. In a couple of seconds after the power supply connection, the **POWER** indicator will become a steady orange.

Please remember that when the **DIRECT POWER ON** function is activated, the power supply connection will make the projector turn on.



⚠WARNING ► Do not connect the projector to a power supply when no lens unit is attached to it.

► Please use extra caution when connecting the power cord, as an incorrect or faulty connection may result in fire and/or electrical shock.

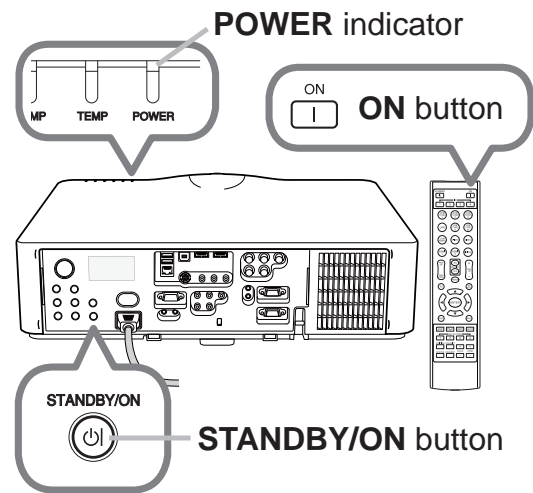
- Do not touch the power cord with a wet hand.
- Only use the power cord that came with the projector. If it is damaged, consult your dealer to get a new one. Never modify the power cord.
- Only plug the power cord into an outlet whose voltage is matched to the power cord. The power outlet should be close to the projector and easily accessible. Remove the power cord for complete separation.
- Do not distribute the power supply to multiple devices. Doing so may overload the outlet and connectors, loosen the connection, or result in fire, electric shock or other accidents.
- Connect the ground terminal for the AC inlet of this unit to the ground terminal of the building using an appropriate power cord (bundled).

NOTICE ► This product is also designed for IT power systems with a phase-to-phase voltage of 220 to 240 V.

Turning on the power

1. Make sure that the power cord is firmly and correctly connected to the projector and the outlet.
2. Make sure that the **POWER** indicator is steady orange. Then remove the lens cover.
3. Press the **STANDBY/ON** button on the projector or the **ON** button on the remote control.

The projection lamp will light up and the **POWER** indicator will begin blinking green. When the power is completely on, the indicator will stop blinking and become steady green.



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⚠WARNING ► A strong light is emitted when the projector's power is on. Do not look into the projector lens or look inside of the projector through any of the projector's openings.

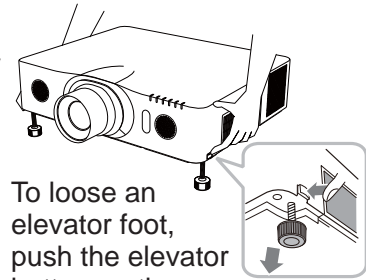
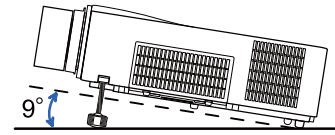
NOTE • Power on the projector prior to any connected devices.
• The projector has a **DIRECT POWER ON** function, which can cause the projector to turn on automatically. For more information, please see **User's Manual - Operating Guide**.

Adjusting the projector's elevator

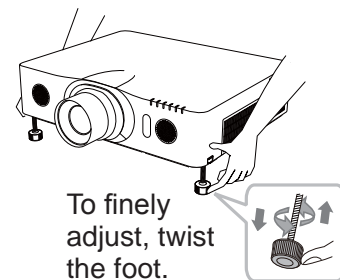
When the projector is placed on a slightly uneven surface, use the elevator feet to place the projector horizontally.

Using the feet can also tilt the projector in order to project at a suitable angle (up to 9 degrees) to the screen.

This projector has 2 elevator feet and 2 elevator buttons. An elevator foot is adjustable when you push the elevator button which is on the same side.



1. Holding the projector, push the elevator buttons to loosen the elevator feet.
2. Position the front side of the projector to the desired height.
3. Release the elevator buttons in order to lock the elevator feet.
4. After verifying that the elevator feet are locked, put the projector down gently.
5. If necessary, the elevator feet can be manually twisted to make more precise adjustments. Hold the projector when twisting the feet.



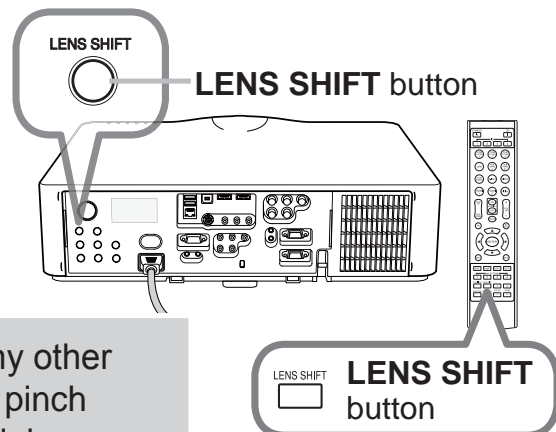
⚠CAUTION ► Do not handle the elevator buttons without holding the projector, since the projector may drop down.

► Do not tilt the projector more than 9 degrees using the adjuster feet. Tilting the projector beyond this limitation could cause projector malfunction and shorten the life of the consumables. **For the IN5142, IN5144, IN5144a and IN5145 only:** It is possible to install the IN5142, IN5144, IN5144a and IN5145 projector in any direction with specified mounting accessories. Consult with your dealer about such special installations.

Adjusting the lens position

Shifting the lens position shifts the projection position.

After pressing the **LENS SHIFT** button on the control panel or the remote control, use the cursor buttons to shift the lens position.

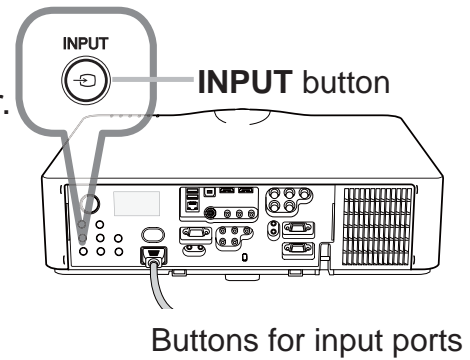


⚠CAUTION ► Do not put your fingers or any other items around the lens. The moving lens could pinch them in the space around the lens and cause injury.

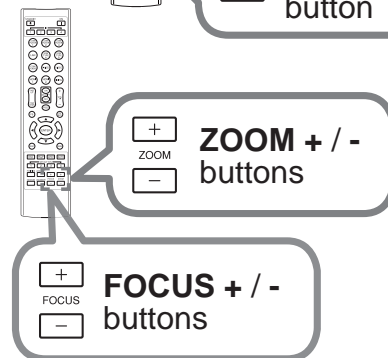
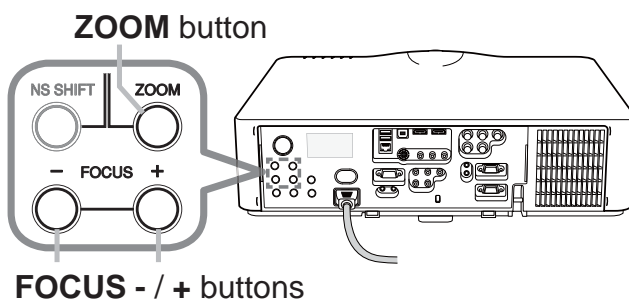
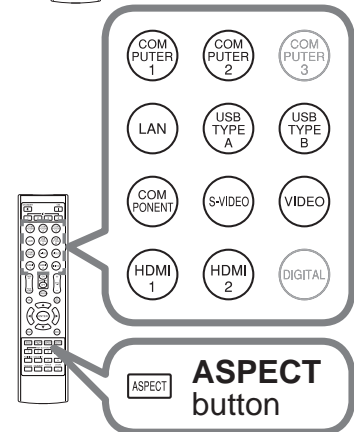
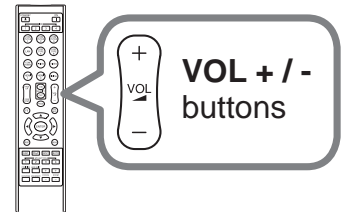
NOTE • The projector may ignore button operation when the lens is moving.
• Generally, better image quality is available when the lens is set to the center.

Displaying the picture

1. Activate your signal source. Turn the signal source on, and send the signal to the projector.
2. Press the **INPUT** button on the projector.
Each time you press the button, the projector switches its input port in turn.
You can also use the remote control to select an input signal. Press any of the buttons from **COMPUTER 1 / 2**, **LAN**, **USB TYPE A / B**, **HDMI 1 / 2**, **COMPONENT**, **S-VIDEO** or **VIDEO** to select the input signal from each port.
3. Use the **VOL + / -** buttons to adjust the volume.
4. Press the **ASPECT** button on the remote control.
Each time you press the button, the projector switches the mode for aspect ratio in turn.
5. Use the **ZOOM + / -** buttons on the remote control or **ZOOM** button and **◀/▶** cursor buttons on the projector to adjust the screen size.
6. Use the **FOCUS + / -** buttons on the projector or the remote control to focus the picture.



ENGLISH



⚠CAUTION ► If you wish to have a blank screen while the projector's lamp is on, use the lens shutter or AV MUTE function (see **User's Manual - Operating Guide**). Taking any other action may cause the damage on the projector.

NOTE • The **ASPECT** button does not work when no proper signal is inputted.
• For the details of how to adjust the picture, please see **User's Manual - Operating Guide**.

Turning off the power

1. Press the **STANDBY/ON** button on the projector or the **STANDBY** button on the remote control.

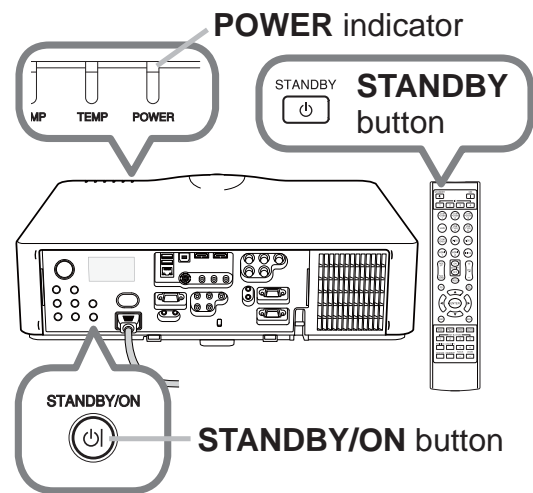
The message “Power off?” will appear on the screen for about 5 seconds.

2. Press the **STANDBY/ON** or **STANDBY** button again while the message appears.

The projector lamp will turn off, and the **POWER** indicator will begin blinking orange. Then the **POWER** indicator will stop blinking and become steady orange when the lamp is cooled sufficiently.

3. Attach the lens cover, after the **POWER** indicator becomes steady orange.

Do not turn the projector on for about 10 minutes or more after turning it off. Also, do not turn the projector off shortly after turning it on. Such operations might cause the lamp to malfunction or shorten the lifetime of some parts including the lamp.



⚠ **WARNING** ► Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.

► Remove the power cord for completely turn off the projector. The power outlet should be close to the projector and easily accessible.

NOTE • Power the projector off after all connected devices are powered off.
• This projector has an AUTO POWER OFF function which can make the projector turn off automatically. For more information, please see **User's Manual - Operating Guide**.

Replacing the lamp

A lamp has a finite product life. Using the lamp for long periods of time could cause the pictures to appear darker or the color tone to be poor. Note that each lamp has a different lifetime, and some may rupture or burn out soon after you start using them. It is recommended that you keep a spare lamp on hand. To order a new lamp, contact your dealer and tell them the lamp part number.

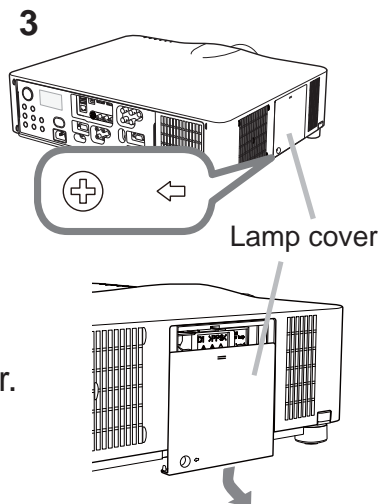
Part number <IN5132, IN5134, IN5134a, IN5135> : SP-LAMP-080

Part number <IN5142, IN5144, IN5144a, IN5145> : SP-LAMP-081

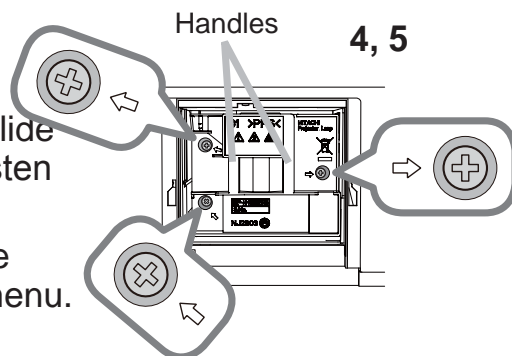
1. Turn the projector off, and unplug the power cord.
Allow the projector to cool for at least 45 minutes.
2. Obtain a new lamp. If the projector is ceiling mounted, or if the lamp has broken, you can ask the dealer to replace the lamp for you, if desired.

In case of replacement by yourself, follow the following procedure.

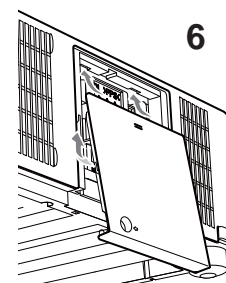
3. Loosen the lamp cover screw (marked by arrow) and then slide the lamp cover down and remove the cover.
4. Loosen the 3 lamp screws (marked by arrows), and slowly pull the lamp out by the handles. Never loosen any other screws.



5. Insert the new lamp, and retighten the 3 lamp screws firmly to lock them in place.
6. Align the lamp cover with the projector and slide the lamp cover back in place. Then firmly fasten the lamp cover screw.
7. Turn the projector on and reset the lamp time using the LAMP TIME item in the OPTION menu.



- (1) Press the **MENU** button to display the menu.
- (2) Highlight ADVANCED MENU in the menu using the ▼/▲ buttons, then press the ► button.
- (3) Highlight OPTION in the left column of the menu using the ▼/▲ buttons, then press the ► button.
- (4) Highlight LAMP TIME using the ▼/▲ buttons, then press the ► button. A dialog will appear.
- (5) Press the ► button to select "OK" on the dialog and reset the lamp time



⚠CAUTION ► Do not touch the inside of the projector, while the lamp is taken out.

NOTE • Only reset the lamp time after replacing the lamp to ensure proper functioning of the lamp counter.

Replacing the lamp (continued)



HIGH VOLTAGE



HIGH TEMPERATURE



HIGH PRESSURE

⚠ WARNING ► The projector uses a high-pressure mercury glass lamp. The lamp may burn out or rupture with a loud bang if the lamp is jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may rupture or burn out soon after you start using them. In addition, if the bulb ruptures, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury and dust containing fine particles of glass to escape from the projector's vent holes.

► **About disposal of a lamp:** This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws.

- For lamp recycling, go to www.lamprecycle.org (in the US).
- For product disposal, consult your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, ask your dealer.



Disconnect
the plug
from the
power
outlet

- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to inhale the gas or fine particles that come out from the projector's vent holes, and not to get them into your eyes or mouth.
- Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as lamp damage



- Never unscrew anything except the designated (marked by an arrow) screws.
- Do not open the lamp cover while the projector is suspended from a ceiling. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only specified lamps. Lamps which do not meet lamp specifications for this model could cause a fire, damage or shorten the life of this product.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, consult your local dealer or service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to rupture during use.
- Using the lamp for long periods of time can cause the lamp to become dim, not to light up or to rupture. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Cleaning and replacing the air filter

Please check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, comply with it as soon as possible. The filter unit with 2 sheets of filters is inside of the filter cover. In addition, the extra air filter is attached to inner side of the filter cover of **IN5142**, **IN5144**, **IN5144a** and **IN5145**. If one of the filters is damaged or heavily soiled, replace whole filter set with a new one.

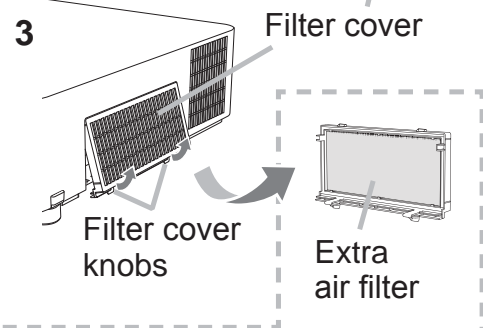
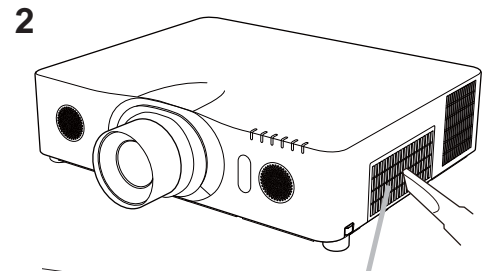
Request for a filter set with the following part number from your dealer when purchasing a new one.

Part number <IN5132, IN5134, IN5134a, IN5135>: SP-FILTER-02

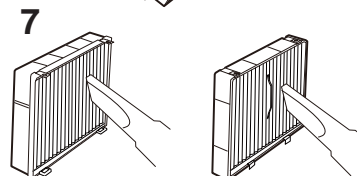
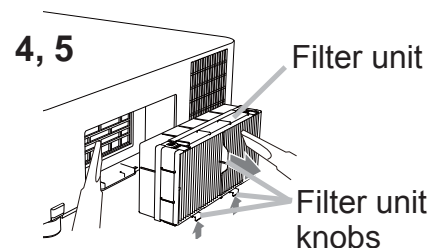
Part number <IN5142, IN5144, IN5144a, IN5145>: SP-FILTER-03

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.
2. Use a vacuum cleaner on and around the filter cover.
3. Pick and pull up the filter cover knobs to take it off.
4. Press up slightly the bottom side knobs to unlock the bottom side of the filter unit. Pull the center knob to take the filter unit off.
5. Use a vacuum cleaner for the filter vent of the projector and the outer side of the filter unit.
6. The filter unit consists of two parts. Press down around the interlocking parts to unlock, then separate the two parts.
7. Use a vacuum cleaner for the inner side of each part of the filter unit to clean them up. If the filters are damaged or heavily soiled, replace them with the new ones.
8. Combine the two parts to reassemble the filter unit.
9. Put the filter unit back into the projector.

(continued on next page)



<Only for **IN5142**, **IN5144**, **IN5144a** and **IN5145**>



Cleaning and replacing the air filter (continued)

10. Put the filter cover back into the place.
11. Turn the projector on and reset the filter time using the FILTER TIME item in the EASY MENU.
 - (1) Press the **MENU** button to display the menu.
 - (2) Highlight FILTER TIME using the ▲/▼ cursor buttons, then press the ► cursor (or the **ENTER** / the **RESET**) button. A dialog will appear.
 - (3) Press the ► cursor button to select the “OK” on the dialog. It resets the filter time.

⚠WARNING ► Before taking care of the air filter, make sure the power cable is not plugged in, then allow the projector to cool sufficiently.

► Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.

► Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

NOTE • Please reset the filter time only when you have cleaned or replaced the air filter to ensure proper air filter messages.

• The projector may display the message such as the “CHECK THE AIR FLOW” or turn off the projector, to prevent the internal heat level rising.

Specifications

Item	Specification
Product name	Liquid crystal projector
Liquid Crystal Panel	IN5132, IN5142: 786,432 pixels (1024 horizontal x 768 vertical) IN5134, IN5134a, IN5144, IN5144a: 1,024,000 pixels (1280 horizontal x 800 vertical) IN5135, IN5145: 2,304,000 pixels (1920 horizontal x 1200 vertical)
Lamp	IN5132, IN5134, IN5134a, IN5135: 245W UHP IN5142, IN5144, IN5144a, IN5145: 330W UHP
Speaker	8 W x2
Power supply, Rated current	IN5132, IN5134, IN5134a, IN5135: AC100-120 V: 3.8 A, AC220-240 V: 1.9 A IN5142, IN5144, IN5144a, IN5145: AC100-120 V: 4.9 A, AC220-240 V: 2.4 A
Power consumption	IN5132, IN5134, IN5134a, IN5135: AC100-120 V: 375 W, AC220-240 V: 355 W IN5142, IN5144, IN5144a, IN5145: AC100-120 V: 480 W, AC220-240 V: 455 W
Temperature range	IN5132, IN5134, IN5134a, IN5135: 0 ~ 40 °C (Operating) IN5142, IN5144, IN5144a, IN5145: 0 ~ 45 °C (Operating) * When the projector is used at high altitudes, even with the IN5142, IN5144, IN5144a or IN5145 , the service life of the optical components may be reduced by peripheral temperatures of over about 40°C. It is recommended to reduce the temperature as far as possible.
Size	498 (W) x 135 (H) x 396 (D) mm * Not including protruding parts. Refer to figure F-5 at the back of this manual.
Weight (mass)	IN5132, IN5134, IN5134a: approx. 8.3 kg IN5135: approx. 8.6 kg IN5142, IN5144, IN5144a, IN5145: approx. 8.7 kg

(continued on next page)

Specifications (continued)

Item	Specification
Ports	COMPUTER IN1 D-sub 15 pin mini jack x1 COMPUTER IN2 (H, V, G/Y, B/Cb/Pb, R/Cr/Pr) ... BNC jack x5 HDMI 1 HDMI connector x1 HDMI 2 HDMI connector x1 MONITOR OUT D-sub 15 pin mini jack x1 COMPONENT (Y, Cb/Pb, Cr/Pr) RCA jack x3 S-VIDEO Mini DIN 4 pin jack x1 VIDEO RCA jack x1 AUDIO IN1 3.5 mm (stereo) mini jack x1 AUDIO IN2 3.5 mm (stereo) mini jack x1 AUDIO IN3 (L, R) RCA jack x2 AUDIO OUT (L, R) RCA jack x2 USB TYPE A USB type A connector x2 USB TYPE B USB type B connector x1 CONTROL D-sub 9 pin plug x1 LAN RJ45 jack x1 REMOTE CONTROL IN 3.5 mm (stereo) mini jack x1 REMOTE CONTROL OUT 3.5 mm (stereo) mini jack x1
Optional parts	Lamp: SP-LAMP-080 <IN5132, IN5134, IN5134a, IN5135> SP-LAMP-081 <IN5142, IN5144, IN5144a, IN5145> Filter set: SP-FILTER-02 <IN5132, IN5134, IN5134a, IN5135> SP-FILTER-03 <IN5142, IN5144, IN5144a, IN5145> Lens unit: LENS-069 (Fixed short throw lens) LENS-070 (Short throw lens) LENS-071 (Middle throw lens) LENS-072 (Long throw lens) LENS-073 (Ultra long throw lens) USB wireless adapter: SP-DONGLE-USB * For more information, please consult your dealer.

Troubleshooting - Warranty and after-service

Never use the product during or after an abnormal situation (for example, when the projector is smoking, smells strange, had a liquid spilled on it, had an object put inside it, is broken, etc.). If an abnormality should occur, unplug the projector immediately.

Otherwise if a problem occurs with the projector, refer to the “Troubleshooting” sections of **User’s Manual - Operating Guide, Instant Stack Guide** and **Network Guide**, and run through the suggested checks.

If this does not resolve the problem, please consult your dealer or service company. They will tell you if your projector is still under warranty.

You can find the latest information for this projector at the following web address:.

**Product
information and
Manuals :**

www.infocus.com/support

NOTE • The information in this manual is subject to change without notice.

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- Be sure to read the “End User License Agreement for the Projector Software” on the next page.

End User License Agreement for the Projector Software

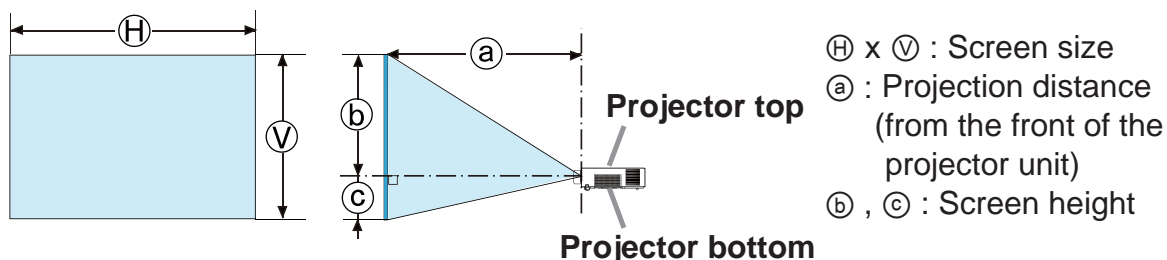
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T-1 IN5132/IN5132c with LENS-070

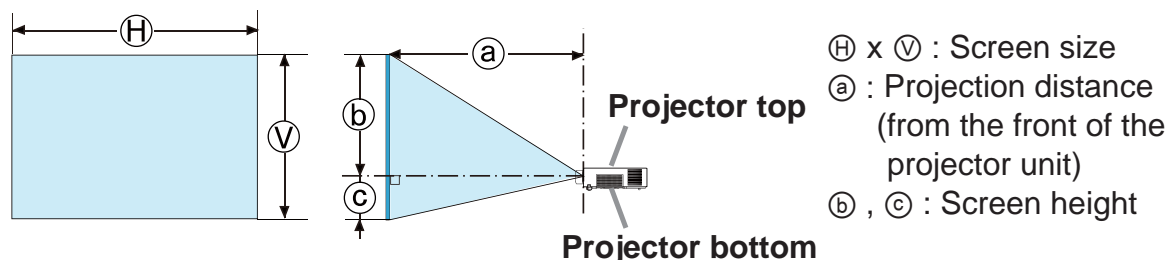
(1024 x 768, ±10%)

Screen type	4 : 3										16 : 9									
	Screen size		Projection distance				Screen height				Screen size		Projection distance				Screen height			
	Ⓜ	Ⓥ	ⓐ min.		ⓐ max.		ⓑ		ⓒ		Ⓜ	Ⓥ	ⓐ min.		ⓐ max.		ⓑ		ⓒ	
(inch)	m	m	m	inch	m	inch	cm	inch	cm	inch	m	m	m	inch	m	inch	cm	inch	cm	inch
30	0.6	0.5	0.9	37	1.4	55	51	20	-6	-2	0.7	0.4	1.0	40	1.5	60	50	20	-12	-5
40	0.8	0.6	1.2	49	1.9	73	69	27	-8	-3	0.9	0.5	1.3	53	2.0	79	66	26	-17	-7
50	1.0	0.8	1.5	61	2.3	91	86	34	-10	-4	1.1	0.6	1.7	66	2.5	99	83	33	-21	-8
60	1.2	0.9	1.8	73	2.8	109	103	41	-11	-5	1.3	0.7	2.0	79	3.0	119	100	39	-25	-10
70	1.4	1.1	2.1	84	3.2	127	120	47	-13	-5	1.5	0.9	2.3	92	3.5	138	116	46	-29	-11
80	1.6	1.2	2.4	96	3.7	145	137	54	-15	-6	1.8	1.0	2.7	105	4.0	158	133	52	-33	-13
90	1.8	1.4	2.8	108	4.1	163	154	61	-17	-7	2.0	1.1	3.0	118	4.5	177	149	59	-37	-15
100	2.0	1.5	3.1	120	4.6	181	171	68	-19	-8	2.2	1.2	3.3	131	5.0	197	166	65	-42	-16
150	3.0	2.3	4.6	180	6.9	271	257	101	-29	-11	3.3	1.9	5.0	196	7.5	295	249	98	-62	-25
200	4.1	3.0	6.1	239	9.2	361	343	135	-38	-15	4.4	2.5	6.6	261	10.0	393	332	131	-83	-33
250	5.1	3.8	7.6	299	11.5	451	429	169	-48	-19	5.5	3.1	8.3	326	12.5	491	415	163	-104	-41
300	6.1	4.6	9.1	359	13.7	541	514	203	-57	-23	6.6	3.7	9.9	391	15.0	589	498	196	-125	-49
600	12.2	9.1	18.2	716	27.5	1081	1029	405	-114	-45	13.3	7.5	19.8	780	29.9	1178	996	392	-249	-98

T-2 IN5142/IN5142c with LENS-071

(1024 x 768, ±10%)

Screen type	4 : 3										16 : 9									
	Screen size		Projection distance				Screen height				Screen size		Projection distance				Screen height			
	Ⓜ	Ⓥ	ⓐ min.		ⓐ max.		ⓑ		ⓒ		Ⓜ	Ⓥ	ⓐ min.		ⓐ max.		ⓑ		ⓒ	
(inch)	m	m	m	inch	m	inch	cm	inch	cm	inch	m	m	m	inch	m	inch	cm	inch	cm	inch
30	0.6	0.5	0.9	37	1.9	73	46	18	0	0	0.7	0.4	1.0	40	2.0	80	44	17	-6	-2
40	0.8	0.6	1.2	49	2.5	97	61	24	0	0	0.9	0.5	1.4	53	2.7	106	58	23	-8	-3
50	1.0	0.8	1.6	61	3.1	121	76	30	0	0	1.1	0.6	1.7	67	3.4	132	73	29	-10	-4
60	1.2	0.9	1.9	73	3.7	146	91	36	0	0	1.3	0.7	2.0	80	4.0	159	87	34	-12	-5
70	1.4	1.1	2.2	86	4.3	170	107	42	0	0	1.5	0.9	2.4	93	4.7	185	102	40	-15	-6
80	1.6	1.2	2.5	98	4.9	194	122	48	0	0	1.8	1.0	2.7	106	5.4	211	116	46	-17	-7
90	1.8	1.4	2.8	110	5.5	218	137	54	0	0	2.0	1.1	3.0	120	6.0	238	131	51	-19	-7
100	2.0	1.5	3.1	122	6.2	242	152	60	0	0	2.2	1.2	3.4	133	6.7	264	145	57	-21	-8
150	3.0	2.3	4.6	183	9.2	363	229	90	0	0	3.3	1.9	5.1	199	10.0	396	218	86	-31	-12
200	4.1	3.0	6.2	244	12.3	484	305	120	0	0	4.4	2.5	6.7	266	13.4	527	291	114	-42	-16
250	5.1	3.8	7.7	305	15.4	605	381	150	0	0	5.5	3.1	8.4	332	16.7	659	363	143	-52	-20
300	6.1	4.6	9.3	366	18.4	725	457	180	0	0	6.6	3.7	10.1	398	20.1	790	436	172	-62	-25
600	12.2	9.1	18.6	731	36.8	1450	914	360	0	0	13.3	7.5	20.2	796	40.1	1580	872	343	-125	-49



T-3 IN5134/IN5134a/IN5134c with LENS-070

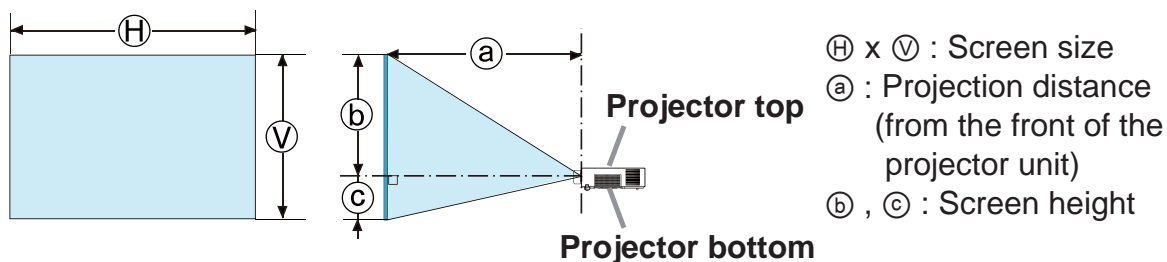
(1280 x 800, ±10%)

Screen type	16 : 10										4 : 3									
	Screen size		Projection distance				Screen height				Screen size		Projection distance				Screen height			
	(H)	(V)	(a) min.		(a) max.		(b)		(c)		(H)	(V)	(a) min.		(a) max.		(b)		(c)	
	(inch)	m	m	inch	m	inch	cm	inch	cm	inch	m	m	m	inch	m	inch	cm	inch	cm	inch
30	0.6	0.4	1.0	39	1.5	58	50	20	-10	-4	0.6	0.5	1.1	44	1.7	66	57	23	-11	-5
40	0.9	0.5	1.3	52	2.0	77	67	26	-13	-5	0.8	0.6	1.5	58	2.2	87	76	30	-15	-6
50	1.1	0.7	1.6	64	2.4	96	84	33	-17	-7	1.0	0.8	1.8	73	2.8	109	95	38	-19	-8
60	1.3	0.8	2.0	77	2.9	115	101	40	-20	-8	1.2	0.9	2.2	87	3.3	131	114	45	-23	-9
70	1.5	0.9	2.3	89	3.4	135	118	46	-24	-9	1.4	1.1	2.6	101	3.9	152	133	53	-27	-11
80	1.7	1.1	2.6	102	3.9	154	135	53	-27	-11	1.6	1.2	2.9	115	4.4	174	152	60	-30	-12
90	1.9	1.2	2.9	115	4.4	173	151	60	-30	-12	1.8	1.4	3.3	130	5.0	195	171	68	-34	-14
100	2.2	1.3	3.2	127	4.9	192	168	66	-34	-13	2.0	1.5	3.7	144	5.5	217	191	75	-38	-15
150	3.2	2.0	4.8	191	7.3	287	252	99	-50	-20	3.0	2.3	5.5	216	8.3	325	286	113	-57	-23
200	4.3	2.7	6.4	254	9.7	383	337	132	-67	-26	4.1	3.0	7.3	287	11.0	433	381	150	-76	-30
250	5.4	3.4	8.0	317	12.1	478	421	166	-84	-33	5.1	3.8	9.1	359	13.7	541	476	188	-95	-38
300	6.5	4.0	9.7	380	14.6	573	505	199	-101	-40	6.1	4.6	10.9	430	16.5	649	572	225	-114	-45
600	12.9	8.1	19.3	759	29.1	1146	1010	397	-202	-79	12.2	9.1	21.8	859	32.9	1297	1143	450	-229	-90

T-4 IN5144/IN5144a/IN5144c with LENS-071

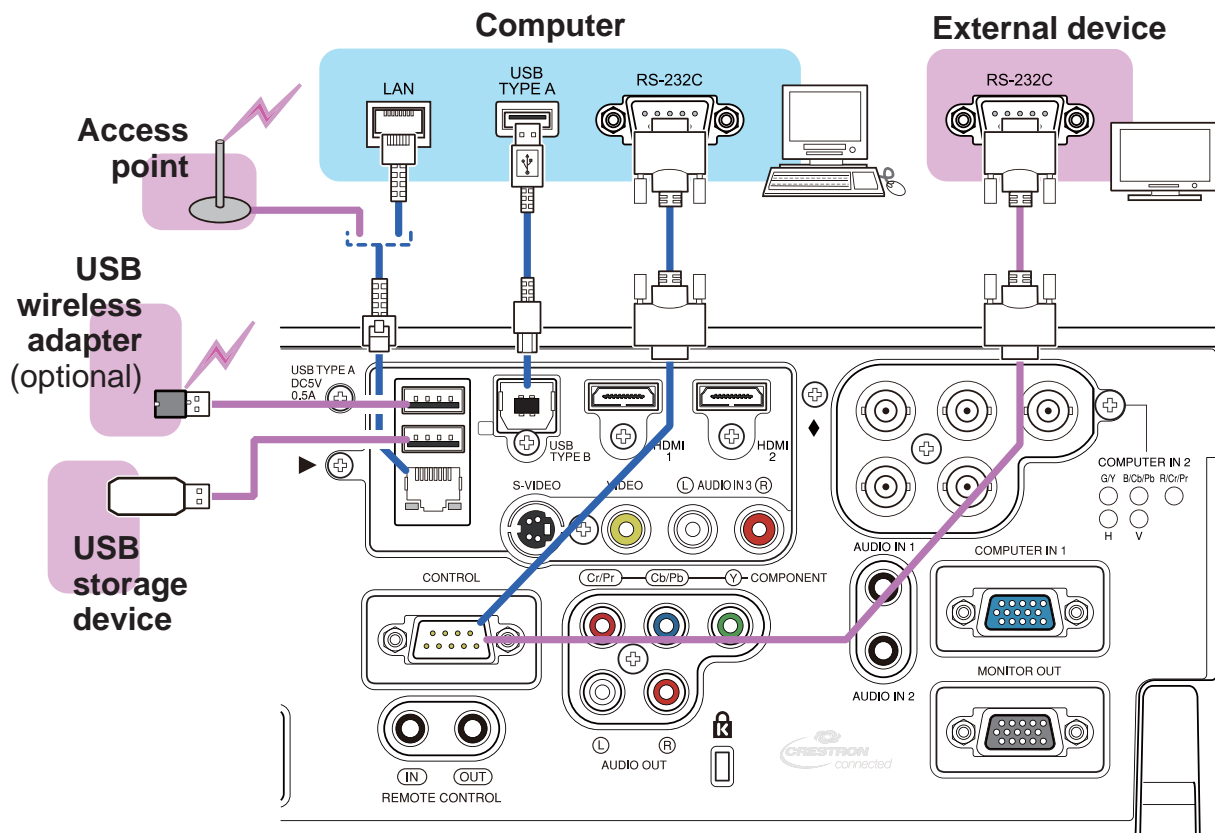
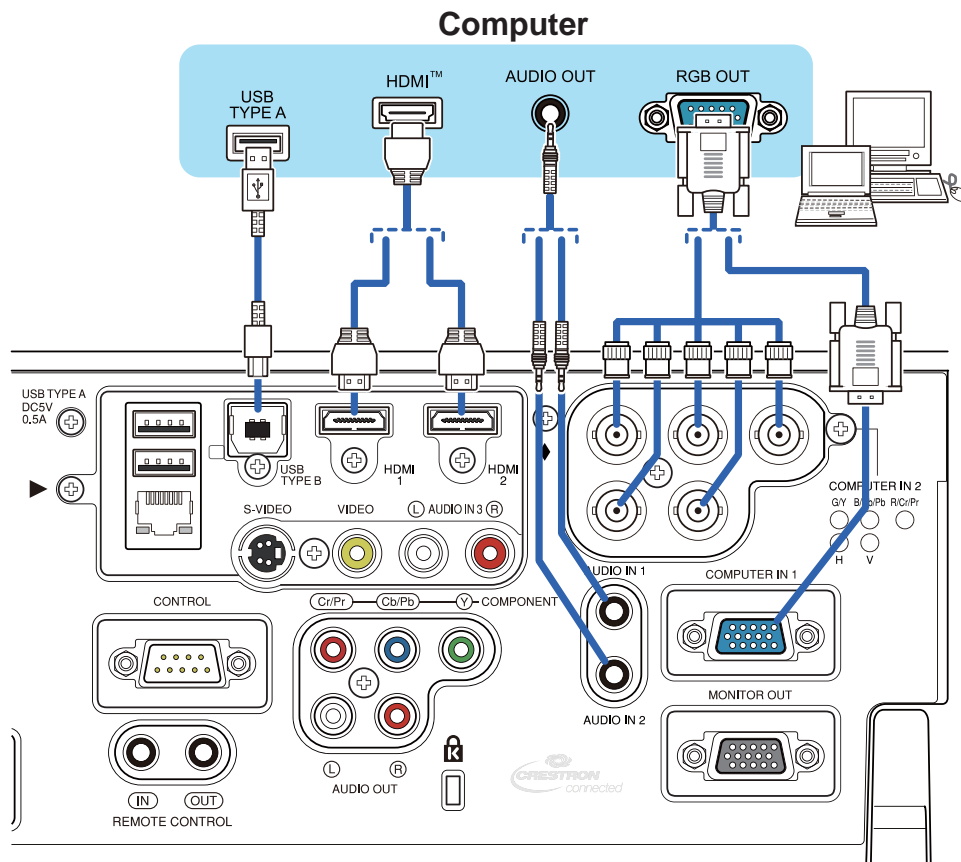
(1280 x 800, ±10%)

Screen type	16 : 10										4 : 3									
	Screen size		Projection distance				Screen height				Screen size		Projection distance				Screen height			
	(H)	(V)	(a) min.		(a) max.		(b)		(c)		(H)	(V)	(a) min.		(a) max.		(b)		(c)	
	(inch)	m	m	inch	m	inch	cm	inch	cm	inch	m	m	m	inch	m	inch	cm	inch	cm	inch
30	0.6	0.4	1.0	39	2.0	78	45	18	-4	-2	0.6	0.5	1.1	44	2.2	88	51	20	-5	-2
40	0.9	0.5	1.3	52	2.6	103	60	24	-6	-2	0.8	0.6	1.5	59	3.0	117	68	27	-7	-3
50	1.1	0.7	1.6	65	3.3	129	75	29	-7	-3	1.0	0.8	1.9	73	3.7	146	85	33	-8	-3
60	1.3	0.8	2.0	78	3.9	154	90	35	-9	-4	1.2	0.9	2.2	88	4.4	175	102	40	-10	-4
70	1.5	0.9	2.3	91	4.6	180	105	41	-10	-4	1.4	1.1	2.6	103	5.2	204	119	47	-12	-5
80	1.7	1.1	2.6	104	5.2	206	120	47	-12	-5	1.6	1.2	3.0	117	5.9	233	135	53	-14	-5
90	1.9	1.2	3.0	117	5.9	231	135	53	-13	-5	1.8	1.4	3.4	132	6.6	262	152	60	-15	-6
100	2.2	1.3	3.3	129	6.5	257	150	59	-15	-6	2.0	1.5	3.7	147	7.4	291	169	67	-17	-7
150	3.2	2.0	4.9	194	9.8	385	224	88	-22	-9	3.0	2.3	5.6	220	11.1	436	254	100	-25	-10
200	4.3	2.7	6.6	259	13.0	513	299	118	-30	-12	4.1	3.0	7.4	293	14.7	580	339	133	-34	-13
250	5.4	3.4	8.2	323	16.3	641	374	147	-37	-15	5.1	3.8	9.3	366	18.4	725	423	167	-42	-17
300	6.5	4.0	9.8	388	19.5	769	449	177	-45	-18	6.1	4.6	11.1	439	22.1	870	508	200	-51	-20
600	12.9	8.1	19.7	775	39.0	1537	897	353	-90	-35	12.2	9.1	22.3	877	44.2	1740	1016	400	-102	-40

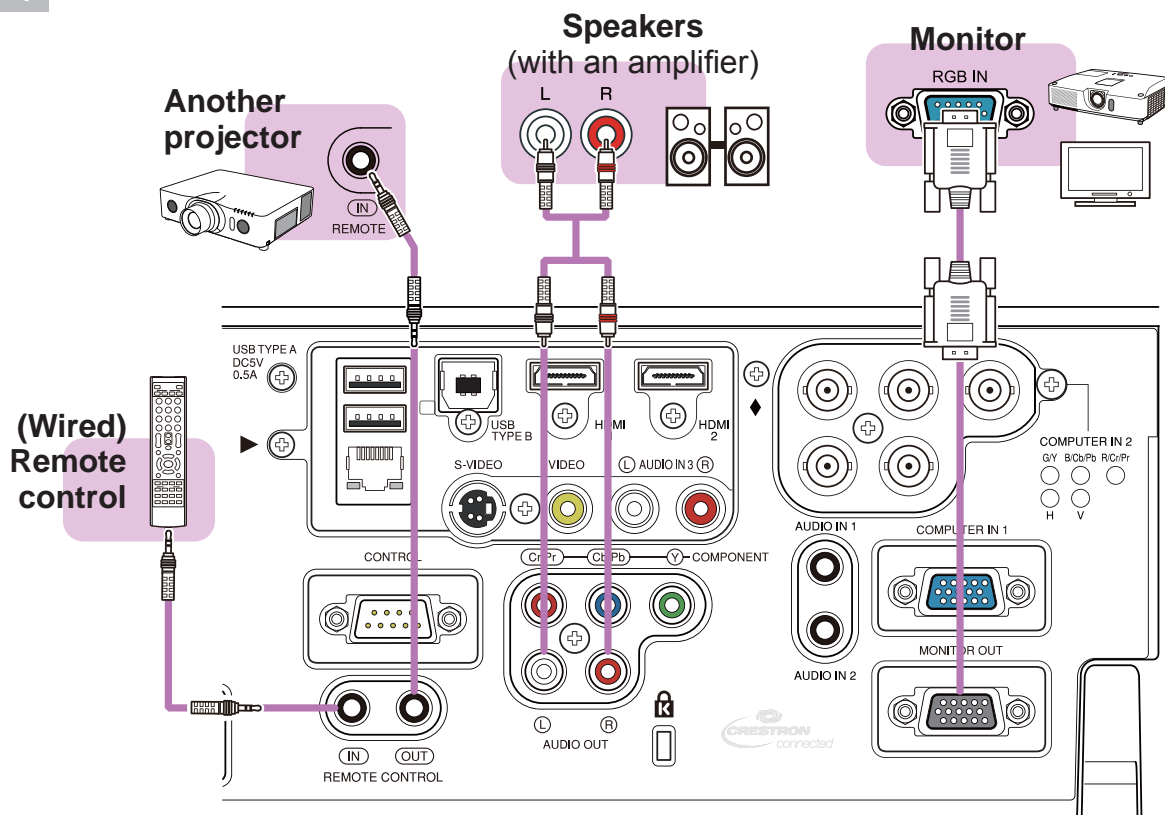
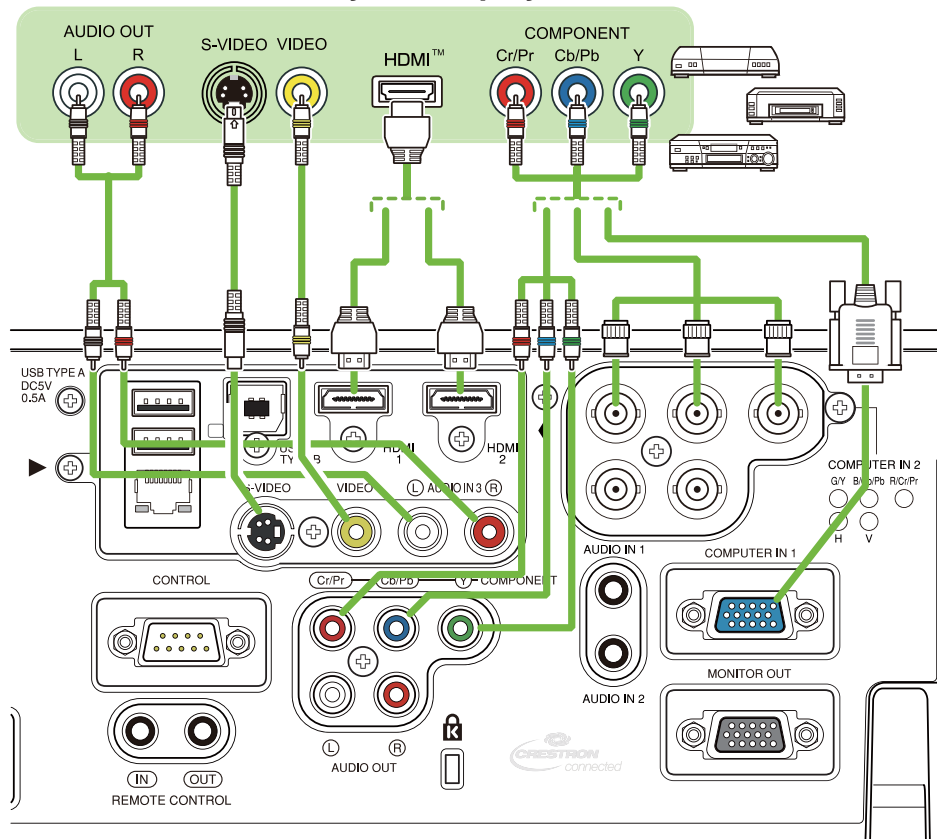


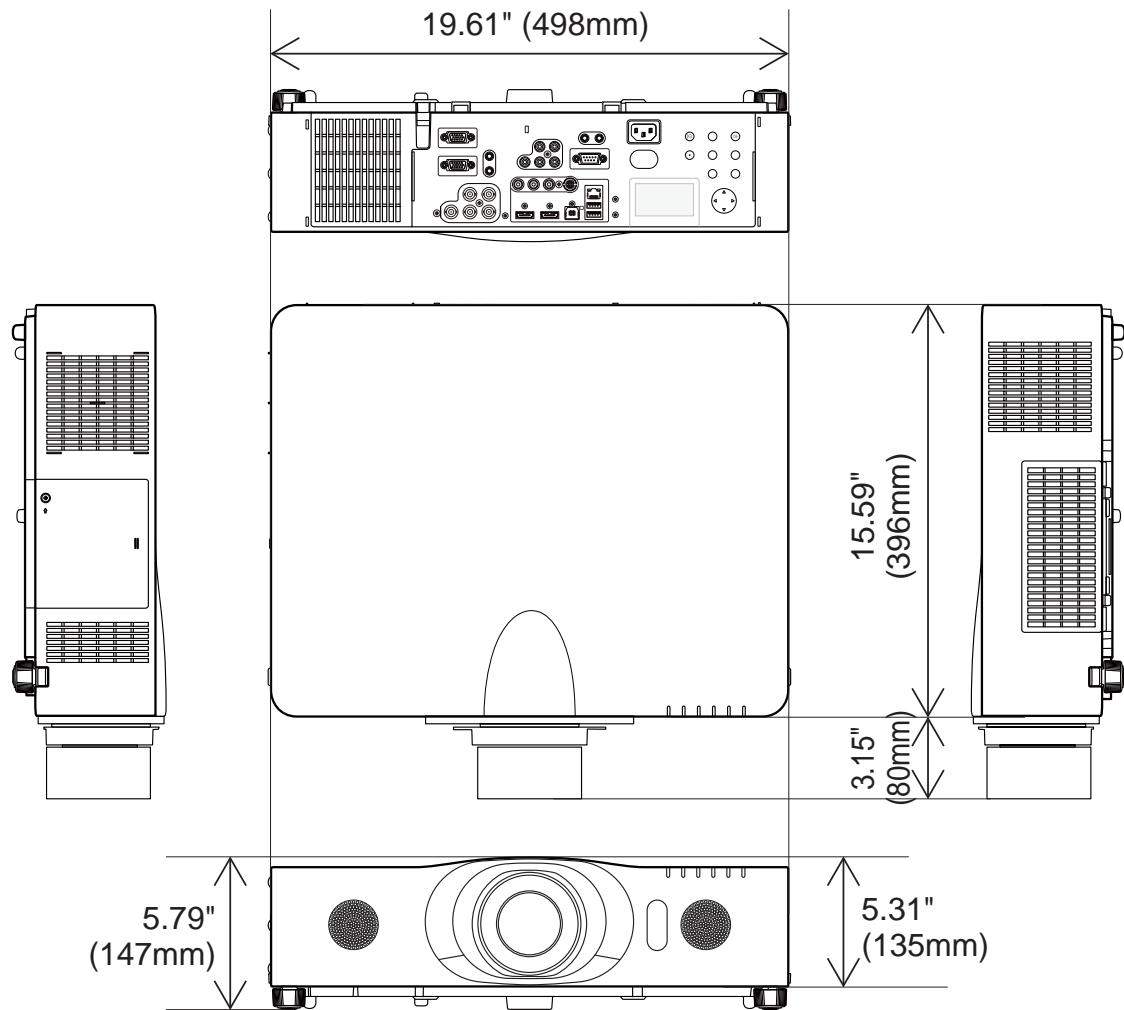
T-5 IN5135/IN5135c/IN5145/IN5145c with LENS-071 (1920 x 1200, ±10%)

Screen type	16 : 10										4 : 3									
	Screen size		Projection distance				Screen height				Screen size		Projection distance				Screen height			
	(H)	(V)	(a) min.		(a) max.		(b)		(c)		(H)	(V)	(a) min.		(a) max.		(b)		(c)	
(inch)	m	m	m	inch	m	inch	cm	inch	cm	inch	m	m	m	inch	m	inch	cm	inch	cm	inch
30	0.6	0.4	1.0	38	1.9	76	45	18	-4	-2	0.6	0.5	1.1	43	2.2	86	51	20	-5	-2
40	0.9	0.5	1.3	51	2.6	101	60	24	-6	-2	0.8	0.6	1.5	58	2.9	114	68	27	-7	-3
50	1.1	0.7	1.6	64	3.2	126	75	29	-7	-3	1.0	0.8	1.8	72	3.6	143	85	33	-8	-3
60	1.3	0.8	1.9	76	3.8	151	90	35	-9	-4	1.2	0.9	2.2	86	4.3	171	102	40	-10	-4
70	1.5	0.9	2.3	89	4.5	176	105	41	-10	-4	1.4	1.1	2.6	100	5.1	200	119	47	-12	-5
80	1.7	1.1	2.6	101	5.1	202	120	47	-12	-5	1.6	1.2	2.9	115	5.8	228	135	53	-14	-5
90	1.9	1.2	2.9	114	5.8	227	135	53	-13	-5	1.8	1.4	3.3	129	6.5	256	152	60	-15	-6
100	2.2	1.3	3.2	127	6.4	252	150	59	-15	-6	2.0	1.5	3.6	143	7.2	285	169	67	-17	-7
150	3.2	2.0	4.8	190	9.6	377	224	88	-22	-9	3.0	2.3	5.5	215	10.8	427	254	100	-25	-10
200	4.3	2.7	6.4	253	12.8	503	299	118	-30	-12	4.1	3.0	7.3	286	14.5	569	339	133	-34	-13
250	5.4	3.4	8.0	316	16.0	628	374	147	-37	-15	5.1	3.8	9.1	358	18.1	711	423	167	-42	-17
300	6.5	4.0	9.6	379	19.1	754	449	177	-45	-18	6.1	4.6	10.9	429	21.7	853	508	200	-51	-20
600	12.9	8.1	19.3	758	38.3	1507	897	353	-90	-35	12.2	9.1	21.8	859	43.3	1706	1016	400	-102	-40



VCR/DVD/Blu-ray Disc™ player





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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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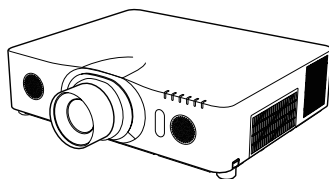
QR82892

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Projector

IN5132/IN5142/IN5134/IN5134a/ IN5144/IN5144a/IN5135/IN5145

User's Manual (detailed) Operating Guide



Thank you for purchasing this projector.

⚠ WARNING ▶ Before using this product, read all manuals for this product. Be sure to read **Safety Guide** first. After reading them, store them in a safe place for future reference.

About this manual

Various symbols are used in this manual. The meanings of these symbols are described below.

⚠ WARNING This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.

⚠ CAUTION This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

NOTICE This entry indicates the potential for trouble.



Refer to the pages written following this symbol.

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Introduction

Features

The projector provides you with the following features:

- ✓ The **HDMI** ports can support a variety of digital image equipment providing you with clearer pictures.
- ✓ The extremely bright lamp and high quality optical system fulfills the demands of professional applications.
- ✓ Optional lenses and a wide lens shift range provides you with the opportunity to install the product wherever you want.
- ✓ The lens shutter allows you to hide images you do not want to display to the audience and helps you to appear more professional.
- ✓ The wealth of I/O ports should support almost any business need.

Checking package contents

See the **Contents of package** section in the **User's Manual (concise)**. Your projector should come with the items shown there. If any items are missing, contact your dealer immediately.

⚠ WARNING ► Keep small parts away from children and pets. Small parts should not be placed in the mouth. If swallowed, contact a physician immediately for emergency treatment.

NOTE • Keep the original packing materials for future reshipment. Be sure to use the original packing materials when moving the projector. Use special caution with the lens.

- The projector may make a rattling sound when tilted, moved or shaken because a flap to control the air flow inside of the projector will move. Be aware that this is not a failure or malfunction.

Part names

Projector

- (1) Lamp cover (📘108)

The lamp unit is inside.

- (2) Speakers (x2) (📘25, 57)

- (3) Filter cover (📘110)

The air filter and intake vent are inside.

- (4) Elevator feet (x2) (📘28)

- (5) Elevator buttons (x2) (📘28)

- (6) Remote sensors (x2) (📘18, 71)

- (7) Lens

- (8) Lens cover

- (9) Indicators (📘5)

- (10) Intake vents

- (11) Control panel (📘5)

- (12) Status Monitor (📘20)

<Only for IN5142, IN5144, IN5144a and IN5145>

- (13) AC IN (AC inlet) (📘16)

- (14) Exhaust vents

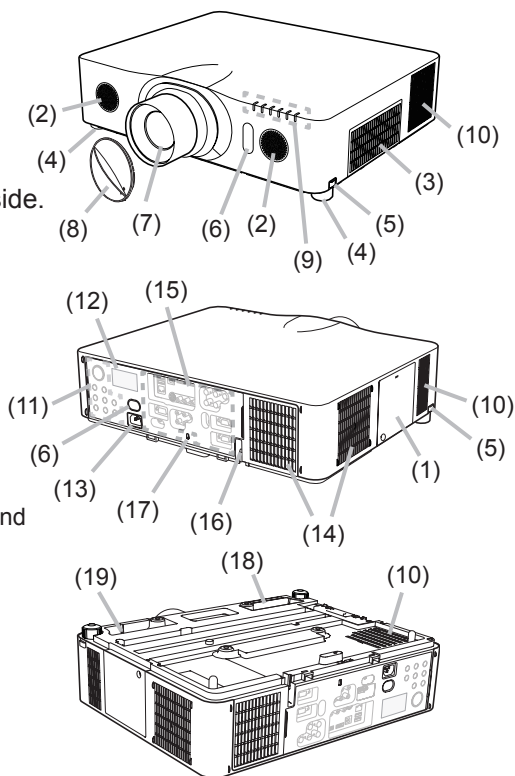
- (15) Ports (📘5)

- (16) Security bar (📘15)

- (17) Security slot (📘15)

- (18) Grip (📘below)

- (19) Safety bar (📘15)

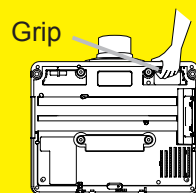


⚠ WARNING ► Do not open or remove any portion of the product, unless directed to do so by the manuals.

► Do not subject the projector to unstable conditions.

► Do not apply shock or pressure to this product. Place your hands on the grip on the bottom of the projector when carrying the projector. Remove all the attachments from the projector, including the power cord and cables, before carrying the projector.

► Do not look into the lens or the openings on the projector while the lamp is on.



⚠ CAUTION ► Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.

► Do not attach anything onto the lens except the projector's lens cover because it could damage or melt the lens.

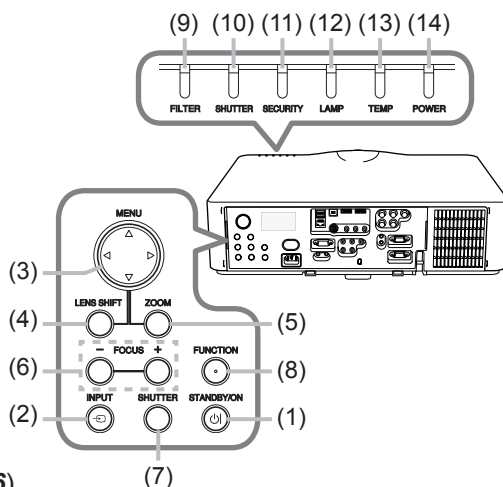
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Part names (continued)

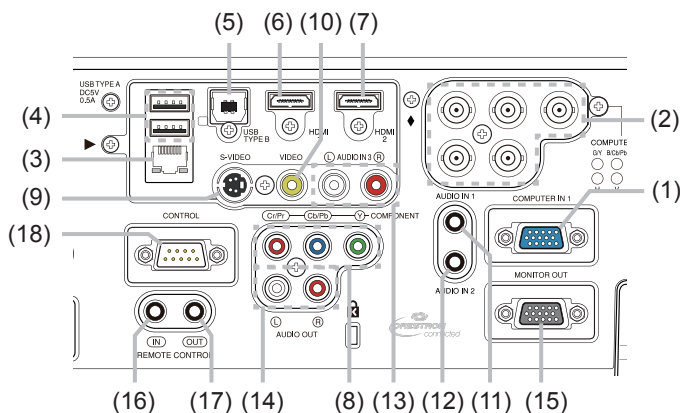
Control panel and Indicators

- (1) **STANDBY/ON** button (📖 24)
- (2) **INPUT** button (📖 26, 39)
- (3) **MENU** button (📖 39)
- (4) **LENS SHIFT** button (📖 29)
- (5) **ZOOM** button (📖 29)
- (6) **FOCUS - / +** buttons (📖 29)
- (7) **SHUTTER** button (📖 36)
- (8) **FUNCTION** button (📖 22, 29)
- (9) **FILTER** indicator (📖 117)
- (10) **SHUTTER** indicator (📖 36)
- (11) **SECURITY** indicator (📖 93)
- (12) **LAMP** indicator (📖 115, 116)
- (13) **TEMP** indicator (📖 115, 116)
- (14) **POWER** indicator (📖 24, 115, 116)



Ports (📖 10 ~ 14)

- | | |
|--|-------------------------------------|
| (1) COMPUTER IN1 port | (9) S-VIDEO port |
| (2) COMPUTER IN2 ports
(G/Y, B/Cb/Pb, R/Cr/Pr, H, V) | (10) VIDEO port |
| (3) LAN port | (11) AUDIO IN1 port |
| (4) USB TYPE A ports | (12) AUDIO IN2 port |
| (5) USB TYPE B port | (13) AUDIO IN3 (L, R) ports |
| (6) HDMI 1 port | (14) AUDIO OUT (L, R) ports |
| (7) HDMI 2 port | (15) MONITOR OUT port |
| (8) COMPONENT ports
(Y, Cb/Pb, Cr/Pr) | (16) REMOTE CONTROL IN port |
| | (17) REMOTE CONTROL OUT port |
| | (18) CONTROL port |



(continued on next page)

Part names (continued)

Remote control

-
- (1) **STANDBY** button (📘24)
- (2) **ON** button (📘24)
- (3) **ID - 1 / 2 / 3 / 4** buttons (📘17)
- (4) **COMPUTER 1** button (📘26)
- (5) **COMPUTER 2** button (📘26)
- (6) **COMPUTER 3** button *
- (7) **LAN** button (📘26)
- (8) **USB TYPE A** button (📘26)
- (9) **USB TYPE B** button (📘26)
- (10) **COMPONENT** button (📘26)
- (11) **S-VIDEO** button (📘26)
- (12) **VIDEO** button (📘26)
- (13) **HDMI 1** button (📘26)
- (14) **HDMI 2** button (📘26)
- (15) **DIGITAL** button *
- (16) **PAGE UP / PAGE DOWN** buttons (📘19, 96)
- (17) **F5** button (📘18, 19)
- (18) **ENTER** button (📘19, 22, 39)
- (19) **RESET** button (📘39)
- (20) **ESC** button (📘19, 39)
- (21) **▲/▼/◀/▶** cursor buttons
- (22) **MENU** button (📘39)
- (23) **VOL + / -** buttons (📘25)
- (24) **AV MUTE** button (📘25)
- (25) **MAGNIFY ON / OFF** buttons (📘35)
- (26) **FREEZE** button (📘36)
- (27) **PbyP** button ◯ (📘37)
- (28) **ASPECT** button (📘27)
- (29) **AUTO** button (📘31)
- (30) **POSITION** button (📘30, 31, 40)
- (31) **KEystone** button (📘32)
- (32) **MY BUTTON - 1, 2, 3, 4** buttons (📘68)
- (33) **LENS SHIFT** button (📘29)
- (34) **LENS MEMORY** button (📘30)
- (35) **FOCUS + / -** buttons (📘29)
- (36) **ZOOM + / -** buttons (📘29)
- (37) Battery cover (📘17)
- (38) Wired remote control port (📘14)


NOTE • Any button marked with “*” is not supported on this projector (📘114).

• Any button marked with “◯” is only available for **IN5135** and **IN5145**.

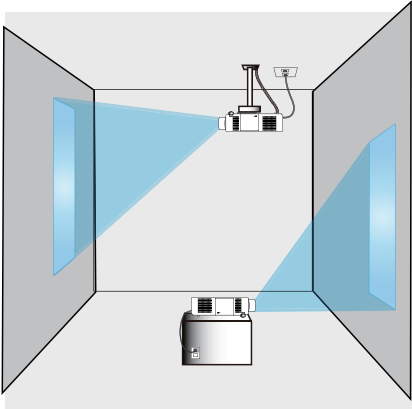
• Each time you press a button (except for the **ID** buttons), the **ID** button associated with the current selected ID number will light (📘17).

Setting up

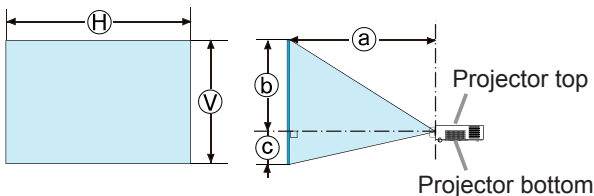
Install the projector appropriately for your environment and mounting situation.

When installing in a special application such as for ceiling mount application, additional mounting accessories ( **Specifications** in the **User's Manual (concise)**) and service may be required. Before installing the projector, contact your dealer about your application.

Arrangement



Besides the following, refer to tables **T-1** to **T-5** at the back of the **User's Manual (concise)** to determine screen size and projection distance. The values shown in the table are calculated for a full size screen.



- Ⓜ × Ⓥ : Screen size
- ⓐ : Projection distance
(from the front of the projector unit)
- ⓑ , ⓒ : Screen height

(continued on next page)

Arrangement (continued)

⚠ WARNING ▶ Install the projector where you can access the power outlet easily. If something unusual occurs, unplug the projector immediately. Otherwise a fire or electric shock may occur.

▶ Do not subject the projector to unstable conditions. If the projector falls or topples over, it could result in injury or damage the projector and other nearby items. Using a damaged projector could result in a fire and an electric shock.

- Do not place the projector in unstable places, such as an inclined surface, places subject to vibration, on top of a wobbly table or cart, or a surface that is smaller than the projector.
- Do not position the projector on its side, front or rear.
- Do not attach or place anything on the projector unless specified in this manual.
- Do not use any mounting accessories except those specified by the manufacturer. Read and keep the all accessory manuals.
- For special applications such as ceiling mount applications, contact your dealer beforehand.
- **IN5142, IN5144, IN5144a and IN5145 only:** The projector can be installed in any direction with appropriate mounting accessories. Contact your dealer about such a situation.
- Place your hands on the grip on the bottom of the projector when carrying the projector. Remove all the attachments from the projector, including the power cord and cables, before carrying the projector.

▶ Do not install the projector near thermally conductive or flammable items. Such items when heated by the projector could result in a fire and burns.

- Do not place the projector on a metal stand.

▶ Do not place the projector where any oils, such as cooking or machine oil, are used. Oil may harm the product, resulting in malfunction, or falling from the mounted position.

▶ Do not place the projector in a place where it may get wet. Getting the projector wet or inserting liquid into the projector could cause a fire or electric shock, and damage the projector.

- Do not place the projector near water, such as in a bathroom, kitchen, or poolside.
- Do not place the projector outdoors or by the window.
- Do not place anything containing liquid near the projector.

(continued on next page)

Arrangement (continued)


⚠ CAUTION ▶ Place the projector in a cool place with sufficient ventilation. The projector may shutdown automatically or may malfunction if its internal temperature is too high.

- Using a damaged projector could result in a fire and an electric shock.
- Do not place the projector in direct sunlight or near hot objects such as heaters.
- Do not place the projector where the air from an air conditioner or similar unit will blow on it directly.
- Keep a space of 30 cm or more between the side of the projector and other objects such as walls.
- Do not place the projector on carpet, cushions or bedding.
- Do not plug, block or cover the projector's ventilation holes. Do not place anything around the projector that could be sucked in or stick to the projector's intake vents.
- Do not place the projector where it can be exposed to magnetic fields. Doing so can cause the cooling fans inside the projector to malfunction.

▶ Avoid placing the projector in smoky, humid or dusty places. Placing the projector in such places could cause a fire, an electric shock and projector malfunction.

- Do not place the projector near humidifiers. In particular, ultrasonic humidifiers atomize chlorine and minerals from the tap water and can leave deposits inside the projector causing image degradation and other problems.
- Do not place the projector in a smoking area, kitchen, passageway or by a window.

NOTICE • Position the projector to prevent light from directly hitting the projector's remote sensor.

- Do not place the product in a place where radio interference may be caused.
- Set the ALTITUDE of the SERVICE item in the OPTION menu correctly. We recommend leaving it set to AUTO under normal circumstances ( 69). If the projector is used with a wrong setting, it may damage the projector itself or the parts inside.
- Keep heat-sensitive items away from the projector. Otherwise, they may be damaged by the heat from the projector.

Connecting your devices

Before connecting the projector to a device, consult the device manual to confirm that the device is compatible with this projector and prepare the required accessories, such as appropriate cables. Contact your dealer when the required accessory did not come with the product or an accessory is damaged.

After verifying that the projector and the devices are turned off, make all connections per the following instructions. Refer to the illustrations on the subsequent pages. Before connecting the projector to a network system, be sure to read **Network Guide** too.

► **Use only compatible accessories.** Otherwise a fire or damage may occur to the projector and devices.

⚠ **WARNING** • Only use accessories specified and recommended by the projector's manufacturer. Some regulations may apply.

- Do not disassemble or modify the projector or its accessories.
- Do not use damaged accessories. Be careful not to damage the accessories. Route cables so that they cannot be stepped on or pinched.

► **For a cable with a core at only one end, connect the end with the core to the projector.** That may be required by EMI regulations.

⚠ **CAUTION** Do not turn the projector on or off while connected to a device in operation, unless specified by the device manual. Otherwise a device or projector malfunction may occur.

NOTE • Some input port functions can be selected based on your usage requirements. Check the reference page indicated beside each port in the following illustration.

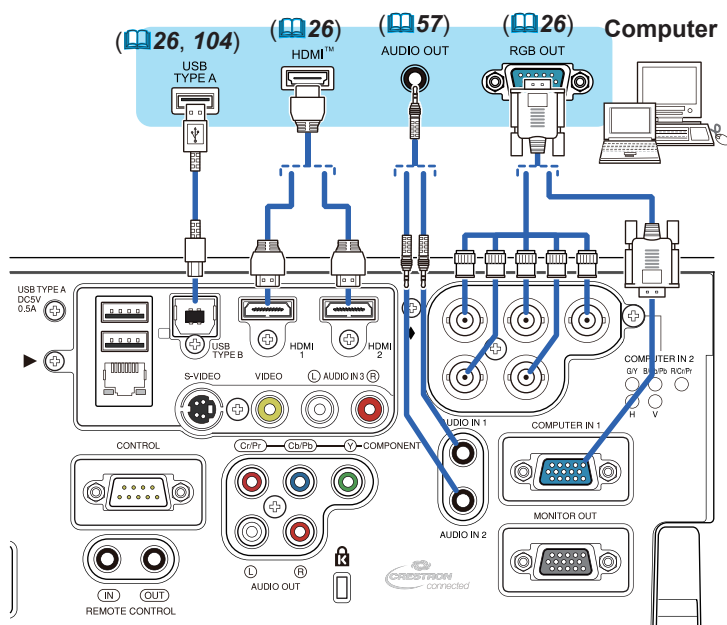
- Be careful not connect a connector to a wrong port. Otherwise a device or projector malfunction may occur.
 - When connecting a connector to a port, make sure that the shape of the connector fits the port.
 - Tighten the screws to connect a connector equipped with screws to a port.
 - Use cables with straight plugs, not L-shaped ones, as the input ports of the projector are recessed.

About Plug-and-Play capability

- Plug-and-Play is a system composed of a computer, its operating system and peripheral equipment (i.e. display devices). This projector is VESA DDC 2B compatible. Plug-and-Play can be used by connecting this projector to a computer that is VESA DDC (display data channel) compatible.
 - Take advantage of this feature by connecting a computer cable to the **COMPUTER IN1** port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
 - Use standard drivers in your computer as this projector is a Plug-and-Play monitor.

(continued on next page)

Connecting your devices (continued)

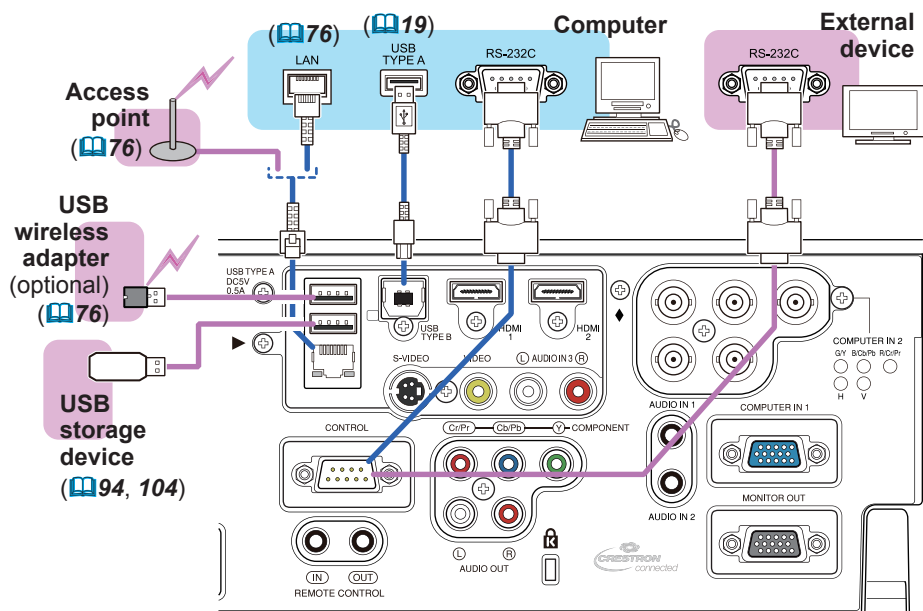


NOTE • Before connecting the projector to a computer, consult the computer's manual and check the signal compatibility, synchronization methods and the display resolution output to the projector.

- Some signals may need an adapter to input to this projector.
- Some computers have multiple screen display modes which may include some signals which are not compatible with this projector.
- Although the projector can display signals with a resolution up to UXGA (1600x1200) or up to WUXGA (1920x1200) for the **IN5135** and **IN5145**, the signal will be converted to the projector's native resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and the projector's native resolution are identical.
- If you connect this projector to a notebook computer, you must output the display to the projector, or output simultaneously to the computer's internal display and the projector. Contact the computer's manual for the settings.
- Depending on the input signal, the projector's automatic adjustment function may take time and may not operate correctly.
- Note: A composite sync signal or sync-on-green signal may confuse the projector's automatic adjustment function (26 52).
- If the automatic adjustment function does not work correctly, you may not see the dialog to set the display resolution. In this case, use an external display device. You may be able to see the dialog and set an appropriate display resolution.

(continued on next page)

Connecting your devices (continued)



⚠ WARNING ► Heat may build up in the USB wireless adapter. To avoid possible burns, disconnect the projector power cord for 10 minutes before touching the adapter.

► When using the USB wireless adapter, be sure to connect the adapter to the **USB TYPE A** port furthest from the **LAN** port and use the supplied adapter cover (15).

⚠ CAUTION ► Before connecting the projector to a network system be sure to obtain the network administrator's approval.

► Do not connect the **LAN** port to any network that might have excessive voltage.

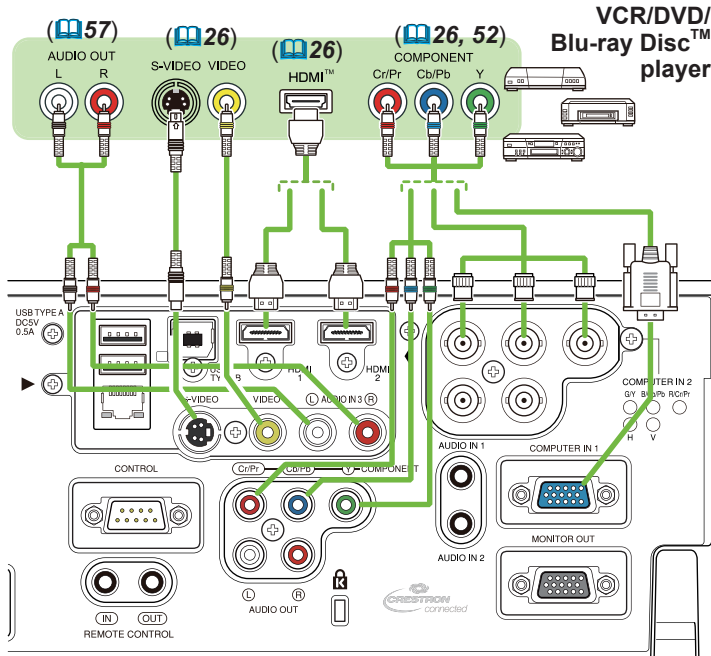
► The designated USB wireless adapter that is sold as an option is required to use the wireless network function of this projector. Before connecting the USB wireless adapter, turn off the projector's power and disconnect the power cord. Do not use any extension cable or device when connecting the adapter to the projector.

► Before removing the USB storage device from the port of the projector, be sure to use the REMOVE USB function on the Thumbnail screen to protect your data (97).

► To connect both the LAN cable and USB device to the projector, only use the **USB TYPE A** port furthest from the **LAN** port or a LAN cable that is flat on the side where the plug's wire is visible. Otherwise, both of them cannot be connected correctly, or a wire may break causing a malfunction.

NOTE • If an oversized USB storage device blocks the **LAN** port, only use the **USB TYPE A** port furthest from the **LAN** port or use a USB extension cable to connect the USB storage device.

Connecting your devices (continued)



NOTE • The **HDMI** ports of this model are compatible with HDCP (High-bandwidth Digital Content Protection) and therefore capable of displaying video signals from HDCP compatible DVD players and the like.

- The **HDMI** ports support the following signals:

Video signal : 480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60

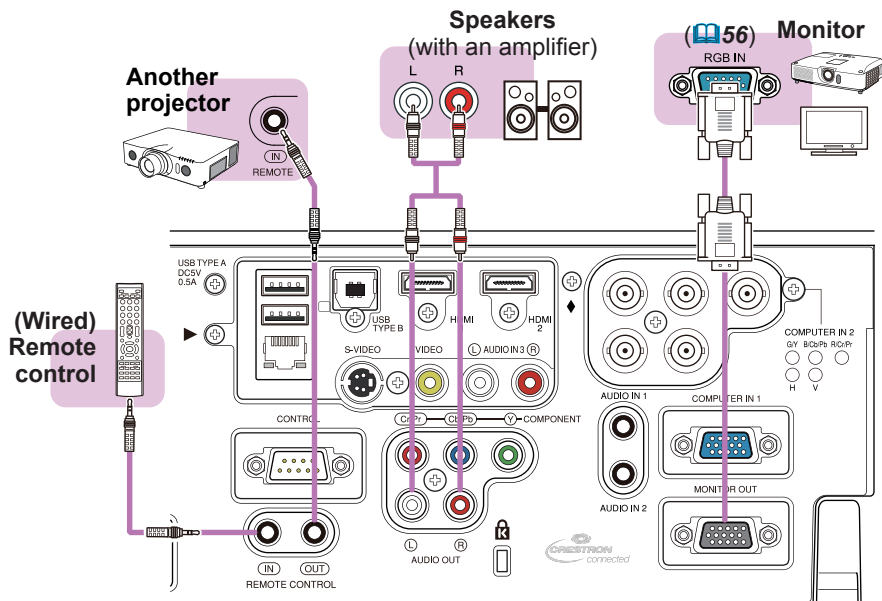
Audio signal : Format Linear PCM

Sampling frequency 48kHz / 44.1kHz / 32kHz

- This projector can be connected with other HDMI™ compatible equipment, but some equipment may not be compatible with the projector and may not work properly (for example, no video being displayed).
- Be sure to use an HDMI™ cable that has the HDMI™ logo.
- Use a Category 2-certified HDMI™ cable to input a 1080p@50/60 signal to the projector.
- When the projector is connected with a device with a DVI connector, use a DVI to HDMI™ cable to connect to the HDMI™ input.
- The HDMI™ cables may become disconnected easily because there are no mechanical locks on the cables or connectors. We recommend fastening the cables to the projector to prevent the cables from coming off (14).

(continued on next page)

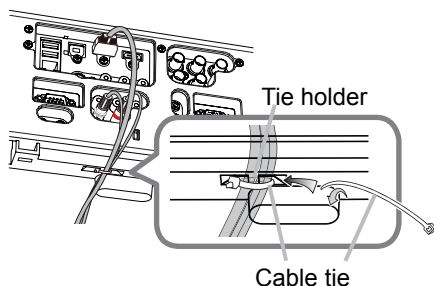
Connecting your devices (continued)



NOTE • To use a wired remote control, connect a wired remote control to the **REMOTE CONTROL IN** port. You can also connect another projector to the **REMOTE CONTROL IN** port to control it from the wired remote control. You can use this projector as a remote control-relay with the **REMOTE CONTROL IN** and **OUT** ports. To connect the wired remote control or another projector to the **REMOTE CONTROL IN** or **OUT** ports, use audio cables with 3.5 mm diameter stereo mini plugs. This function is useful when a wireless remote signal cannot reliably reach the projector.

Fastening the cables

To tie the signal cables and prevent them from coming off, fasten them to the projector using commercially available plastic cable ties. Use a cable tie 2.0 x 5.0mm or smaller. We recommend curling the end of the tie slightly before you thread it to the tie holder, so that you can get it through easily.



⚠ WARNING ► Do not bind the power cord.

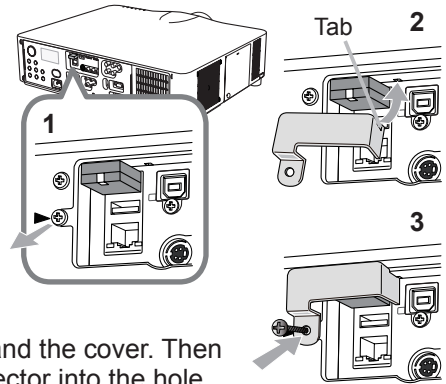
⚠ CAUTION ► Only use plastic ties to fasten the cables. A metal tie may damage the cables and tie holder.

► Do not bind the cables too tightly. The cables or the hole may be damaged.

Fastening the adapter cover

When using the USB wireless adapter, be sure to connect the adapter to the **USB TYPE A port** furthest from the **LAN** port and use the supplied adapter cover.

1. Loosen the screw (marked with a triangle) on the bottom left of the **USB TYPE A** ports.
2. Insert the cover tab into the hole at the upper right of the **USB TYPE A** ports in the direction of the arrow.
3. Align the screw holes on the projector and the cover. Then insert the screw removed from the projector into the hole and tighten the screw.



⚠ WARNING ► Keep small parts away from children and pets. Do not put them in the mouth.

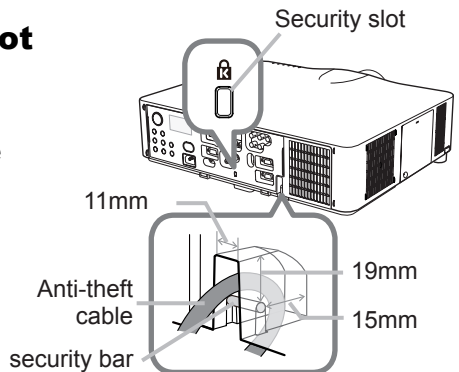
► Heat may build up in the USB wireless adapter. To avoid possible burns disconnect the projector power cord for 10 minutes before touching the adapter.

Using the security bar and slot

A commercially available anti-theft cable can be attached to the security bar on the projector. Refer to the illustration to choose an anti-theft cable.

This product also has a security slot for a Kensington lock.

For details, see the security tool manual.



⚠ WARNING ► Do not use the security bars and slot to prevent the projector from falling down, since this is not what it was designed for.

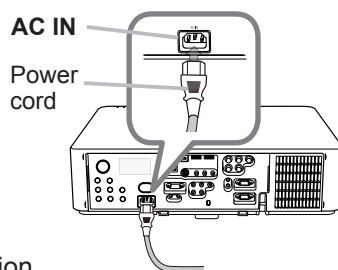
⚠ CAUTION ► Do not place the anti-theft cable near the exhaust vents since they may become too hot.

NOTE • The security bar and slot cannot prevent all thefts. They are intended to deter thefts.

• The safety bar (📖4) can be used like the security bar.

Connecting a power supply

1. Plug the power cord into the projector's **AC IN** (AC inlet).
2. Firmly plug the power cord's plug into a power outlet. After a few seconds, the **POWER** indicator will light steady orange.



Remember that when the **DIRECT POWER ON** function activated (📘66), the power supply connection will make the projector turn on.

⚠ WARNING ► Do not connect the projector to a power supply when no lens unit is attached to it.

► Use extra caution when connecting the power cord, as incorrect or faulty connections may result in fire and/or electrical shock.

- Do not touch the power cord with a wet hand.
- Only use the power cord that came with the projector. If it is damaged, contact your dealer to get a new one. Never modify the power cord.
- Only plug the power cord into an outlet whose voltage is matched with the power cord. The power outlet should be close to the projector and easily accessible. Remove the power cord for complete separation.
- Do not distribute the power supply to multiple devices. Doing so may overload the outlet and connectors, loosen the connection, or result in fire, electric shock or other accidents.
- Connect the ground terminal for the AC inlet of this unit to the ground terminal of the building using an appropriate power cord (bundled).

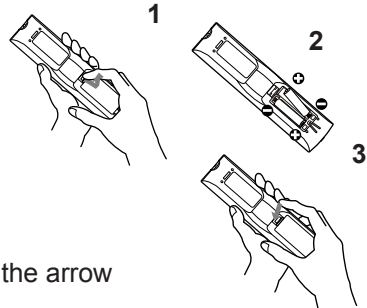
NOTICE • This product is also designed for IT power systems with a phase-to-phase voltage of 220 to 240 V.

Remote control

Installing the batteries

Insert batteries into the remote control before using it (batteries not included). If the remote control starts to malfunction, try replacing the batteries. If the remote control will not be used for a long period, remove the batteries from the remote control and store them in a safe place.

1. Holding the hook part of the battery cover, remove it.
2. Align and insert two AA batteries (**HITACHI MAXELL or HITACHI MAXELL ENERGY, Part No.LR6 or R6P - not included**) according to their plus and minus terminals as indicated in the remote control.
3. Replace the battery cover in the direction of the arrow and snap it back into place.



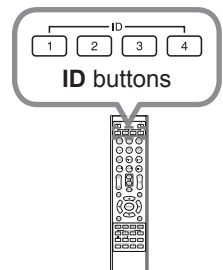
⚠ WARNING ▶ Always handle batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.

- Be sure to use only the batteries specified. Do not use batteries of different types simultaneously. Do not mix new and used batteries.
- Make sure the plus and minus terminals are correctly aligned when loading batteries.
- Keep batteries away from children and pets.
- Do not recharge, short circuit, solder or disassemble batteries.
- Do not place batteries fire or water. Keep batteries in a dark, cool and dry place.
- If you observe battery leakage, wipe out the leakage and then replace batteries. If the leakage adheres to your body or clothes, rinse well with water immediately.
- Obey the local laws on disposing batteries.

Using the REMOTE ID function

Utilize this function to control specific projectors with the remote control by assigning ID numbers to multiple projectors of the same type simultaneously.

Assign an ID number to each projector before using the REMOTE ID item in the SERVICE menu of the OPTION menu (71). Press the ID button with the same ID number as assigned to the projector you are going to control. The ID button selected will light for several seconds.



NOTE • Each time you press a button (other than an ID button), the ID button associated with the currently selected ID number will light.

- To confirm a projector's current ID, press any ID button for 3 seconds. The projector's ID will display on the screen regardless of which ID button is pressed.

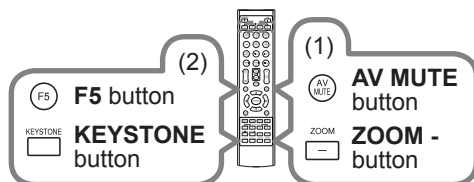
Changing the remote control signal frequency

There are two choices to control the signal frequency mode of the remote control, Mode 1:NORMAL and Mode 2:HIGH. If the remote control does not function properly, try changing its mode.

In order to set the Mode, press and hold the two button combination listed below for about 3 seconds.

(1) To set Mode 1:NORMAL
AV MUTE and **ZOOM** buttons

(2) To set Mode 2:HIGH
F5 and **KEYSTONE** buttons



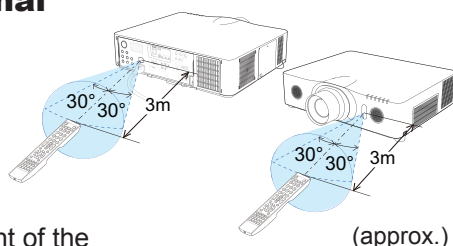
Remember to use the same mode for the projector's REMOTE FREQ. in the SERVICE item of the OPTION menu (71).

About the remote control signal

The remote control works with the projector's remote sensors. This projector has two remote sensors on the front and back sides.

The sensors can sense signals within the following range:

60 degrees (30 degrees to the left and right of the sensor) within approximately 3 meters.

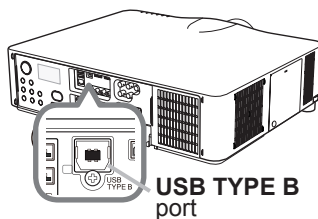


NOTE • You can deactivate one of the sensors using the REMOTE RECEIV. item in the SERVICE menu of the OPTION menu (71).

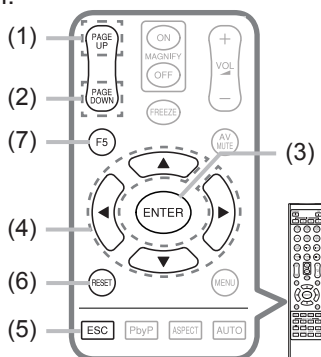
- The remote control signal may be able to be reflected off of the screen or other item. If it is difficult to send the signal to the sensor directly, try reflecting the signal.
- The remote control uses infrared light to send signals to the projector (Class 1 LED), so be sure to use the remote control in an area free from obstacles that could block the remote control's signal to the projector.
- The remote control may not work correctly if strong light (such as direct sun light) or light from an extremely close range (such as from an inverter fluorescent lamp) shines on the remote sensor of the projector. Adjust the position of projector avoiding those lights.

Simple PC mouse & keyboard control

When the projector's **USB TYPE B** port and the computer's type A USB port are connected and **MOUSE** is selected for the **USB TYPE B** item in the **OPTION** menu (☞67), the remote control will work like a simple PC mouse and keyboard.



- (1) **PAGE UP key:** Press the **PAGE UP** button.
- (2) **PAGE DOWN key:** Press the **PAGE DOWN** button.
- (3) **Mouse left button:** Press the **ENTER** button.
- (4) **Move pointer:** Use the cursor buttons
▲, ▼, ◀ and ▶.
- (5) **ESC key:** Press the **ESC** button.
- (6) **Mouse right button:** Press the **RESET** button.
- (7) **F5 key:** Press the **F5** button.



NOTICE ► Improper use of the simple mouse & keyboard function could damage your equipment. When using this function, connect this product only to a computer. Be sure to check your computer's manuals before connecting this product to a computer.

NOTE • When the simple mouse & keyboard function of this product does not work correctly, check the following:

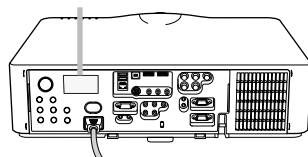
- When a USB cable connects this projector with a computer having a built-in pointing device (e.g. track ball) like a laptop PC, open BIOS setup menu, then select the external mouse and disable the built-in pointing device, because the built-in pointing device may have priority to this function.
- Windows 95 OSR 2.1 or higher is required for this function. This function may not work depending on the computer's configurations and mouse drivers. This function can work with computers that use a standard USB mouse or keyboard.
- Pressing two buttons at once will not work (for instance, you cannot press two buttons simultaneously to move the mouse pointer diagonally).
- This function is only activate when the projector is working properly. This function is unavailable:
 - When the lamp is warming up. (The **POWER** indicator blinks green.)
 - When either **USB TYPE A** or **USB TYPE B** is the selected input source.
 - While displaying **BLANK** (☞59), **TEMPLATE** (☞63) or **MY IMAGE** (☞84) screen.
 - When any menu is displayed on the screen.
 - When the cursor buttons are being used to operate the sound or screen functions such as adjusting the sound volume, correcting the keystone, correcting the picture position and magnifying the screen.

Status Monitor

<IN5142, IN5144, IN5144a and IN5145 only>

The Status Monitor is the LCD window on the rear panel of the **IN5142**, **IN5144**, **IN5144a** and **IN5145**. The Status Monitor displays the projector's present condition, including errors, setup information and error history.

Status Monitor



Displaying the projector condition

If no buttons are being operated, the Status Monitor will display the projector's condition as per below.

NOTE • If the **STANDBY MODE** item of **SETUP** menu is set to **SAVING** (📖56), the Status Monitor displays nothing while the projector is in standby mode.
 • When **INSTALLATION** in the **SETUP** menu is set to **FRONT / CEILING** or **REAR / CEILING**, the Status Monitor contents are displayed upside down (📖55).

○ In a normal state

The Status Monitor displays the state of the projector in three lines.

1st line

: Displays the projector condition. While the lamp is on, the selected port is displayed.

Displayed conditions are:

STANDBY: The projector is in standby mode.

WARM UP: The projector is warming up.

SEARCHING: The projector is searching an input signal.

COOL DOWN: The projector is cooling down.

2nd line

: While the lamp is on, the detected input signal condition is displayed. Otherwise, the projector's serial number is displayed.

Displayed conditions are:

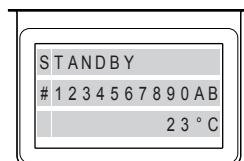
SYNC OUT: Detected input signal is out of specified range.

NO SIGNAL: There is no input signal.

CONNECTED: The **LAN** or **USB TYPE B** port is selected, the projector is connected to the network (or the computer) and an image is being transferred to the projector.

HOLD: The **LAN** port is selected and the projector is connected to the network but no image is transferred.

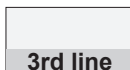
NOT CONNECTED: The **LAN** or **USB TYPE B** port is selected, but the projector is not connected to the network or the computer.




example

(continued on next page)



Displaying the projector condition (continued)

: When the lamp is on, it displays the supplied voltage and peripheral Celsius temperature.

NOTE • Nothing is displayed on the 2nd line of the monitor, when the projector is searching for an input signal and when the **USB TYPE A** ports are set to normal condition.

- "NO SIGNAL" is displayed on the 2nd line of the monitor ( 67) when the **USB TYPE B** port is selected.
- The displayed temperature might differ from the actual peripheral temperature because the displayed temperature is measured inside of the projector.

○ Error states:


The Status Monitor displays error warnings in capital letters. To resolve the errors, refer to the sections "**Related messages**" ( 114) and "**Regarding the indicator lamps**" ( 115, 116).

Displayed warnings:

COVER: The lamp cover has not been securely fastened.

Refer to the blinking **LAMP** indicator in the table ( 115).

FAN: The cooling fan is not operating.

Refer to the blinking **TEMP** indicator in the table ( 116).


LAMP: The lamp does not light.

Refer to the solid **LAMP** indicator in the table ( 115).


TEMP: The projector's inside becomes over heated.

Refer to the solid **TEMP** indicator in the table ( 116).

AIR (AIR FLOW): The internal temperature is rising.

Refer to the description of the message, "CHECK THE AIR FLOW" in the table ( 114).

COLD: The inside of the projector may be too cold.

Refer to the alternate blinking **LAMP** and **TEMP** indicators in the table ( 116).

FILTR (FILTER): It is time to clean the air filter.

Refer to the blinking **LAMP** and **TEMP** indicators in the table ( 116).



example

NOTE • When one of the FAN, LAMP, COVER, or TEMP errors displays, the backlight blinks simultaneously.

Displaying the log

You can use the buttons to review the present setup information and the error history on the Status Monitor.

- NOTE**
- While the projector is warming up, button presses are ignored.
 - When the **USB TYPE A** port is selected, use the buttons on the control panel to display the logs. The Status Monitor button on the remote control may be unavailable.
 - When the projector is in standby mode and the **STANDBY MODE** item of **SETUP** menu is set to **SAVING** (p. 56), the Status Monitor will not display anything and the buttons will not operate.
 - The Status Monitor and the OSD menu cannot be operated at same time.

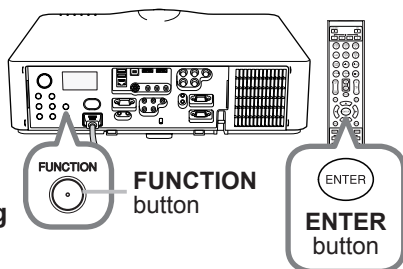
When the projector is acting normally, or is displaying an **AIR FLOW**, **COLD** or **FILTER** error, press the **FUNCTION** button on the control panel or press the **ENTER** button on the remote control for three seconds. The monitor backlight turns on.

○ To display the setup information including usage time

Use the ◀/▶ buttons to switch display.



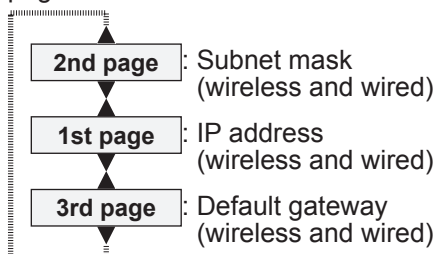
Usage time: The Status Monitor displays the lamp time (the hours the present lamp has been used), the filter time (the hours the air filter has been used) and the projector usage time.



0	LAMP	2250 h	Lamp time
	FILTER	12835 h	Filter time
	SYSTEM	22386 h	Projector usage time

Usage time (example)

Network information: The network information is displayed over three pages. Use the ▲/▼ buttons to switch the page. Information will display on each page as shown below.



IP ADDRESS	
W	192.168.0.2196
N	192.168.0.1075

Network information (example)

(continued on next page)

Displaying the log (continued)

NOTE • The Status Monitor and its backlight will return to its previous state when any button (except the cursor buttons) is pressed and when no buttons are pressed for 30 seconds.

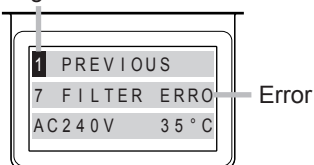
- The projector usage time is the amount of time the projector lamp has been on since the projector was manufactured. LAMP TIME in the OPTION menu (67) does not reset this timer.
- If the ▲/▼ buttons are pressed while the usage time is displayed, the usage time switches to the previous time when an error occurred.

○ To display error history

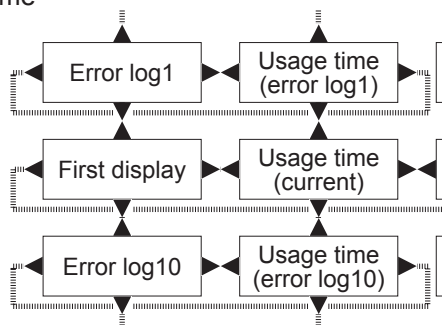
Press the ▲ button to display the previous error log. If a warning has been displayed, the first previous error log will be current error. The Status Monitor displays the log number, the error that occurred, and the supplied voltage and peripheral temperature at that time. Press the ► button to display the time when each error occurred.

Use the ▲/▼ buttons to change the log. The display switches with the ◀/▶ buttons to each log. Up to 10 error logs including the present one can be displayed.

Log number



Error log (example)



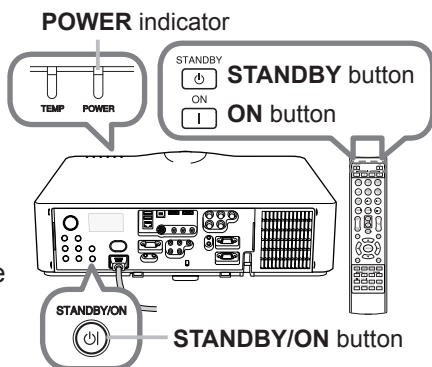
NOTE • The Status Monitor and its backlight will return to its previous state when any button (except the cursor buttons) is pressed and when no buttons are pressed for 30 seconds.

- When less than 10 errors have occurred, "NO DATA" will display regardless of the fact that an error is visible in the error log.

Power on/off

Turning on the power

1. Make sure the power cord is firmly and correctly connected to the projector and the outlet.
2. Make sure the **POWER** indicator is steady orange (📖115). Then remove the lens cover.
3. Press the **STANDBY/ON** button on the projector or the **ON** button on the remote control. The projection lamp will light up and **POWER** indicator will begin blinking green. When the power is completely on, the indicator will stop blinking and become steady green (📖115).



To display the picture, select an input signal according to the section **Selecting an input signal** (📖26).

Turning off the power

1. Press the **STANDBY/ON** button on the projector or the **STANDBY** button on the remote control.
The message "Power off?" will appear on the screen for about 5 seconds.
2. Press the **STANDBY/ON** or **STANDBY** button again while the message is displayed.
The projector lamp will go off, and the **POWER** indicator will begin blinking orange. The **POWER** indicator will stop blinking and become steady orange when the lamp cooling is complete (📖115).
3. After the **POWER** indicator turns steady orange, attach the lens cover.

After turning the projector off, do not turn the projector on again for at least 10 minutes. Do not turn the projector off immediately after turning it on. Doing so can cause the lamp to malfunction and shorten the lifetime of lamp or other parts.

⚠ WARNING ▶ A strong light is emitted when the projector's power is on. Do not look into the projector lens or look inside of the projector through any of the projector's openings.
▶ Do not touch around the lamp cover or the exhaust vents during use or just after use, because they are too hot.

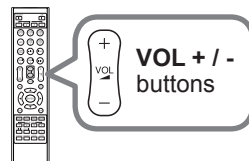
NOTE • Turn the power on/off in the right order. Power the projector on before other connected devices.

• This projector can be turned on/off automatically. Refer to the **DIRECT POWER ON** (📖66) and **AUTO POWER OFF** (📖66) items of the **OPTION** menu.

Operating

Adjusting the volume

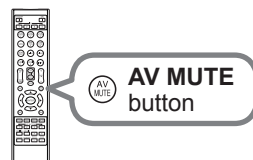
1. Use the **VOL + / -** buttons to adjust the volume.
A dialog will appear on the screen to aid you in adjusting the volume. If you do not do anything, the dialog will automatically disappear after a few seconds.



NOTE • When \times is selected for current source, the volume adjustment is disabled. See the AUDIO SOURCE item of AUDIO menu (📖57).
 • Even if the projector is in standby mode, the volume is adjustable when both of the following conditions are true:
 - An option other than \times is selected for AUDIO OUT STANDBY in the AUDIO SOURCE item of the AUDIO menu (📖57).
 - NORMAL is selected in the STANDBY MODE item of the SETUP menu (📖56).

Turning off the source image and audio temporarily

1. Press **AV MUTE** button on the remote control.
The BLANK screen will be displayed instead of the source image and the internal speakers will be muted. Refer to the BLANK item in SCREEN menu to learn about the BLANK screen (📖59).
To exit from AV MUTE mode and restore the screen and audio, press **AV MUTE** button again.



NOTE • The projector automatically exits from AV MUTE mode when some control buttons are pressed.

⚠ CAUTION ► If you wish to have a blank screen while the projector's lamp is on, use the AV MUTE function above or the lens shutter function (📖36). Any other action may damage the projector.

Selecting an input signal

1. Press the **INPUT** button on the projector.
Each time you press the button, the projector switches its input port from the current port as per below.

COMPUTER IN1 → **COMPUTER IN2** → **LAN**

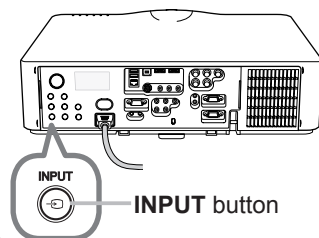
↑
VIDEO

↑
S-VIDEO

↑
COMPONENT ← **HDMI 2** ← **HDMI 1** ←

↓
USB TYPE A

↓
USB TYPE B

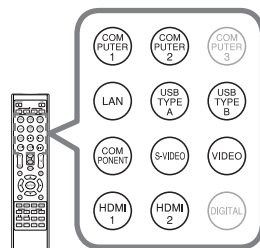


NOTE • If some ports have been skipped in SOURCE SKIP of the OPTION menu, those input ports cannot be selected (📖 65).

- When AUTO SEARCH in the OPTION menu is ON, the projector will keep checking the ports sequentially until an input signal is detected (📖 65).
- It may take several seconds to project images from the **USB TYPE B** port.

1. Press the **COMPUTER 1 / 2**, **LAN**, **USB TYPE A / B**, **HDMI 1 / 2**, **COMPONENT**, **S-VIDEO** or **VIDEO** button on the remote control.
The port corresponding to each button is selected as per below.

Button	Ports
COMPUTER 1	COMPUTER IN1
COMPUTER 2	COMPUTER IN2
LAN	LAN
USB TYPE A	USB TYPE A
USB TYPE B	USB TYPE B
HDMI 1	HDMI 1
HDMI 2	HDMI 2
COMPONENT	COMPONENT
S-VIDEO	S-VIDEO
VIDEO	VIDEO



Buttons for input ports

NOTE • While ON is selected for AUTO SEARCH item in OPTION menu, the projector will keep checking every port sequentially until an input signal is detected (📖 65).

- It may take several seconds to project images from the **USB TYPE B** port.

Selecting an aspect ratio

1. Press the **ASPECT** button on the remote control.
Each time you press the button, the projector switches the aspect ratio as follows.



ASPECT
button

○ For a computer signal

IN5132, IN5142:

NORMAL → 4:3 → 16:9 → 16:10



IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145:

NORMAL → 4:3 → 16:9 → 16:10 → NATIVE



○ For an HDMI™ signal

IN5132, IN5142:

NORMAL → 4:3 → 16:9 → 16:10 → 14:9



IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145:

NORMAL → 4:3 → 16:9 → 16:10 → 14:9 → NATIVE



○ For a video signal, s-video signal or component video signal

IN5132, IN5142:

4:3 → 16:9 → 14:9



IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145:

4:3 → 16:9 → 16:10 → 14:9 → NATIVE



○ When there is no signal or an input signal from the LAN, USB TYPE A or USB TYPE B ports is being used:

IN5132, IN5142: 4:3 (fixed)

IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145: 16:10 (fixed)

NOTE • The **ASPECT** button does not work when no compatible signal is inputted.

• The NORMAL mode keeps the source's original aspect ratio setting.

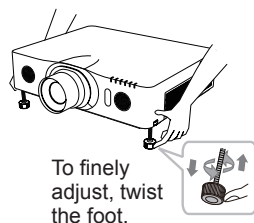
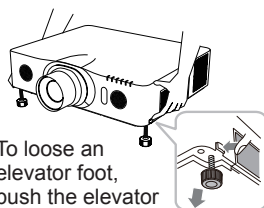
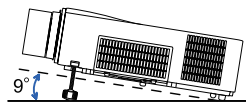
Adjusting the projector's elevator

When the projector surface is slightly uneven to the left or right, use the elevator feet to place the projector horizontally.

You can also tilt the projector using the feet to project at an appropriate angle to the screen, elevating the front side of the projector up to 9 degrees.

This projector has 2 elevator feet and 2 elevator buttons. To adjust an elevator foot, you must push the elevator button which is on the same side as it.

1. Holding the projector, push the elevator buttons to loosen the elevator feet.
2. Position the front side of the projector to the desired height.
3. Release the elevator buttons in order to lock the elevator feet.
4. After verifying that the elevator feet are locked, put the projector down gently.
5. If necessary, the elevator feet can be manually twisted to make more precise adjustments. Hold the projector when twisting the feet.



⚠ CAUTION ► Do not handle the elevator buttons without holding the projector, since the projector may fall down.

► Do not tilt the front of the projector beyond 9 degrees. A projector tilt exceeding this restriction can cause a projector malfunction and shorten the lifetime of the lamp or the projector itself. **IN5142, IN5144, IN5144a and IN5145 only:** It is possible to install the projector in any direction with specified mounting accessories. Contact your dealer about such a situation.

Adjusting the lens

Adjusting the zoom and focus

The ZOOM or FOCUS dialog will appear when you press any of the buttons from **ZOOM**, **ZOOM -**, **ZOOM +**, **FOCUS +** and **FOCUS -**.

1. Use the **ZOOM + / -** buttons on the remote control or **ZOOM** button and **◀/▶** cursor buttons on the projector to adjust the screen size.
2. Use the **FOCUS + / -** buttons to focus the picture.

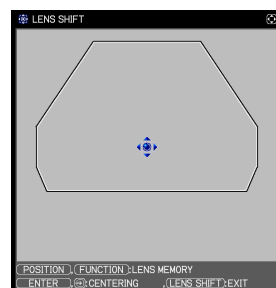
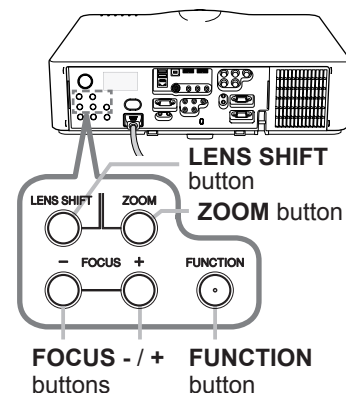
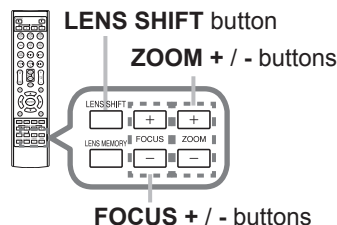
NOTE • The projector may ignore button operations when the lens is moving.

Adjusting the lens position

Press the **LENS SHIFT** button. The LENS SHIFT dialog will appear. Using the **▲/▼/◀/▶** buttons while the dialog is displayed, shift the lens. Generally, you get better image quality when the lens is set to the center. Press the **LENS SHIFT** button again to exit the LENS SHIFT function.

CENTERING

Press the **ENTER** or **INPUT** button while the dialog is displayed to perform the **CENTERING** feature, which adjusts the lens to the center. A confirmation message will be displayed. Pressing the **▶** button performs **CENTERING**. You can also perform **CENTERING** in the standby mode by pressing the **FUNCTION** and **LENS SHIFT** buttons on the control panel for 3 seconds simultaneously.



⚠ CAUTION ▶ Do not put your fingers or any other items around the lens. The moving lens could catch them in the space around the lens and result in an injury.

NOTE • While the lens is moving to the center, the menu will disappear and an hourglass icon will appear on the screen. **CENTERING** may take some time until the lens reaches the center.

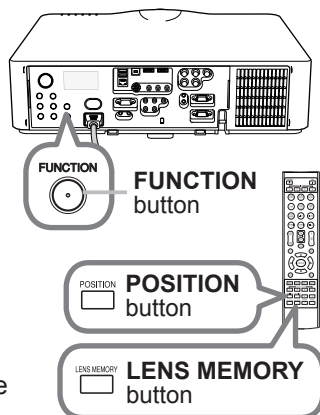
- The projector may ignore button operations when the lens is being moved.
- When the projector is in the standby mode, the **CENTERING** feature is disabled if the **STANDBY MODE** item of **SETUP** menu is set to **SAVING**. Perform **CENTERING** before the projector's power is turned off, or set the **STANDBY MODE** to **NORMAL**.
- The adjustable range of **LENS SHIFT** varies depending on the type of lens mounted in the projector. Therefore the **LENS SHIFT** adjustment may not reach the end of the indicator in the dialog. This is not a failure.

Adjusting the lens (continued)

Lens memory

This projector is equipped with memory functions for lens adjustments (LENS SHIFT and LENS TYPE). Up to 3 sets of adjustments can be saved.

To use the lens memory feature, press the **POSITION** or **FUNCTION** button while the LENS SHIFT dialog is displayed. Then the LENS MEMORY dialog will appear. The current lens adjustments are displayed on the "CURRENT" line. The adjustments already saved in the lens memory are displayed on the lines of SAVE and LOAD-1 to 3.

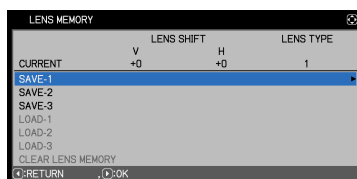


○ SAVE:

To store the current lens adjustments, select one of the "SAVE" options numbered 1 to 3 (number of the lens memory options) and press the ► or the **ENTER** button. Remember that the data currently saved will be lost when saving new data into the memory.

○ LOAD:

To recall saved adjustments, select one of the "LOAD" options numbered 1 to 3 (number of the lens memory options) and press the ► or the **ENTER** button.



Remember that the data currently loaded will be lost when loading new data from the memory. If you want to keep the current adjustments, save them before performing a LOAD function.

○ CLEAR LENS MEMORY:

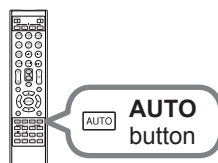
To clear the adjustments saved in a lens memory, select CLEAR LENS MEMORY and press the ► or the **ENTER** button. The CLEAR LENS MEMORY dialog will be displayed. Select the number associated with the lens memory to be cleared using the ▲/▼ buttons and press the ► button. A confirmation message will be displayed. Press the ► button again to clear the lens memory.

NOTE • The projector may ignore button operations when the lens is being moved.

• You can perform the LOAD function using the **LENS MEMORY** button.

Using the automatic adjustment feature

1. Press the **AUTO** button on the remote control.
 - Pressing this button performs the following.
 - **For a computer signal**
The vertical position, the horizontal position and the horizontal phase will be automatically adjusted. Make sure the application window is set to its maximum size before attempting to use this feature. A dark picture may still be inadjusted correctly. Use a bright picture when adjusting.
 - **For a video signal and s-video signal**
The video format best suited for the respective input signal will be selected automatically. This function is only available when the AUTO is selected for the VIDEO FORMAT item in the INPUT menu (📖51). The vertical position and horizontal position will be automatically set to the default.
 - **For a component video signal**
The vertical position and horizontal position will be automatically set to the default. The horizontal phase will be automatically adjusted.

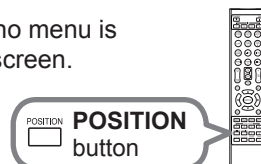


NOTE • The automatic adjustment operation requires approx. 10 seconds, and may not operate correctly with some inputs.

- When this function is performed for a video signal, certain extra items such as a line may appear outside the picture.
- When this function is performed for a computer signal, a black frame may be displayed on the edge of the screen, depending on the computer model.
- The items adjusted by this function may vary when FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu (📖69).

Adjusting the position

1. Press the **POSITION** button on the remote control when no menu is indicated. The “POSITION” indication will appear on the screen.
2. Use the **▲/▼/◀/▶** cursor buttons to adjust the picture position.
 - When you want to reset the operation, press **RESET** button on the remote control during the operation.
 - To complete this operation, press **POSITION** button again. Even if you do not do anything, the dialog will automatically disappear after a few seconds.



NOTE • When this function is performed on a video signal or an s-video signal, certain extra items such as a line may appear outside of the picture.

- When this function is performed on a video signal or s-video signal, the range of this adjustment depends on OVER SCAN in the IMAGE menu (📖48) setting. It is not possible to adjust this function when OVER SCAN is set to 10.
- If the **POSITION** button is pressed when a menu is indicated on screen, the displayed picture does not move its position but the menu does.
- This function is unavailable for a signal from the **LAN**, **USB TYPE A / B** or **HDMI 1 / 2 port**.

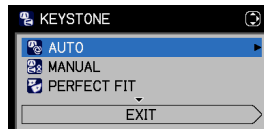
Correcting the distortion

To correct the distortion of a projected image, you can select one of three options, AUTO, MANUAL and PERFECT FIT. First press the **KEYSTONE** button to display the KEYSTONE menu, and point at one of items with the **▲/▼** buttons.

AUTO: performs an automatic vertical keystone correction. (📖54)

MANUAL: allows you to adjust the vertical and horizontal keystone manually.

PERFECT FIT: allows you to adjust each of the screen corners and sides to correct the distortion.



Then follow the procedures shown below for the item you selected.

NOTE • The menu or dialog will automatically disappear after several seconds of inactivity. Press the **KEYSTONE** button again, or point the cursor at EXIT in the dialog and press the **▶** or the **ENTER** button to end the operation and close the menu or dialog.

- When the screen is adjusted by PERFECT FIT, neither AUTO nor MANUAL is selectable. If you wish to use these functions, refer to step 3 in the PERFECT FIT item to initialize the adjustment of PERFECT FIT.
- When TRANSITION DETECTOR is ON, these functions are unavailable (📖90).

○ **AUTO**:

When AUTO is highlighted, pressing the **▶** or **ENTER** button performs automatic vertical keystone correction.

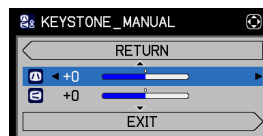
NOTE • When the projector is in one of the following conditions, the automatic vertical keystone correction feature may not work correctly or at all.

- REAR / CEILING or FRONT / CEILING is selected for the INSTALLATION item in the SETUP menu, and the projector screen is slanted or tilted downwards.
- The ZOOM adjustment is not set to the full WIDE (wide-angle focus).
- The projector is nearly horizontal (about $\pm 4^\circ$).
- The projector is inclined at about ± 35 degrees or over.
- When the horizontal lens shift is not set to the center, this function may not work well.

Correcting the distortion (continued)

○ MANUAL:

When MANUAL is highlighted, pressing the ► or **ENTER** button displays the KEYSTONE_MANUAL dialog.



1. Select vertical or horizontal keystone (A / B) with the ▲/▼ buttons.
2. Use the ◀/▶ buttons to adjust the keystone distortion.

NOTE • When the zoom adjustment is set to the TELE (telephoto focus), this function may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible.

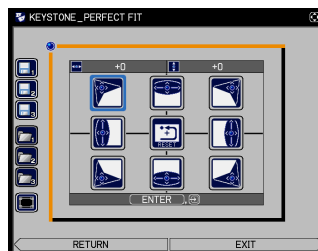
• When the horizontal lens shift is not set to the center, this function may not work well.

• Point at RETURN in the dialog with the ▲/▼ buttons and press ◀ or the **ENTER** button to return to the KEYSTONE menu.

○ PERFECT FIT:

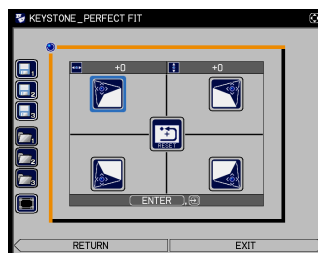
When PERFECT FIT is highlighted, pressing the ► or **ENTER** button displays the KEYSTONE_PERFECT FIT dialog.

This projector is equipped with a test pattern for PERFECT FIT. Select the test pattern icon shown in the lower left of the dialog with the ◀/▼ buttons. When you press the **ENTER** or **INPUT** button, the test pattern appears or disappears.



**IN5132, IN5142, IN5134,
IN5134a, IN5144, IN5144a**

1. If it is necessary to initialize the current adjustment, point at RESET in the dialog with the **RESET** button, and press the **ENTER** or **INPUT** button.
2. Select one of the corners to be adjusted with the ▲/▼/◀▶ buttons and press the **ENTER** or **INPUT** button. **IN5132, IN5142, IN5134, IN5134a, IN5144, and IN5144a only:** the sides can also be adjusted.





(continued on next page)

IN5135, IN5145

Correcting the distortion (continued)

3. Adjust the selected part as per below.
 - To adjust a corner, use the ▲/▼/◀/▶ buttons to adjust the position of the corner.
 - <Only for **IN5132, IN5142, IN5134, IN5134a, IN5144 and IN5144a**>
To adjust the upper or lower side, use the ◀/▶ buttons to select any one point on the side, and use the ▲/▼ buttons to adjust the distortion of the side.
 - <Only for **IN5132, IN5142, IN5134, IN5134a, IN5144 and IN5144a**>
To adjust the left or right side, use the ▲/▼ buttons to select any one point on the side, and use the ◀/▶ buttons to adjust the distortion of the side.
 - To adjust another corner or side, press the **ENTER** or **INPUT** button and follow the procedure from step 2.

4. This projector is equipped with a memory feature for PERFECT FIT adjustment. Up to 3 sets of adjustments can be saved.
 - **SAVE:**
To store the current PERFECT FIT adjustment, select one of the SAVE icons  numbered 1 to 3 (number of the memory options) with the ◀/▲/▼ buttons and press the **ENTER** or **INPUT** button.
Remember that the currently saved memory data will be lost when saving new data into the memory.
 - **LOAD:**
To recall saved adjustments, select one of the LOAD icons  numbered 1 to 3 (number of the memory options) with the ◀/▲/▼ buttons and press the **ENTER** or **INPUT** button.
Remember that the current adjustments will be lost when loading new data from memory. If you want to keep the current adjustments, save it before performing a LOAD function.

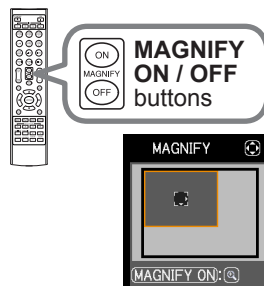
NOTE • <Only for **IN5132, IN5142, IN5134, IN5134a, IN5144 and IN5144a**>

Each corner and side can be adjusted individually but in some cases it may be adjusted in conjunction with another corner or side. This is due to control restrictions and is not a malfunction.

- LOAD functions are skipped when there is no linked memory data.
- There may be some noise and the image may flicker for a moment when loading data. This is not a malfunction.
- Point at RETURN in the dialog with the ▲/▼ buttons and press the ◀ or the **ENTER** button to return to the KEYSTONE menu.

Using the magnify feature

1. Press the **MAGNIFY ON** button on the remote control.
The picture will be magnified, and the MAGNIFY dialog will appear on the screen. When the **MAGNIFY ON** button is pressed for the first time after the projector is turned on, the picture will be zoomed 1.5 times. On the dialog, triangle marks to show each direction will be displayed.
2. The projector's display magnification switches with every press of the **MAGNIFY ON** button.
 - For computer signals, HDMI™ (RGB) signals, input signals from the LAN, USB TYPE A or USB TYPE B ports
1.5 times → 2 times → 3 times → 4 times → 1 time
 - For video signals, s-video signals, component video signals or HDMI™ (Component) signals
1.5 times → 2 times → 1 time
3. While the triangles are displayed on the dialog, use the ▲/▼/◀/▶ cursor buttons to shift the magnified area.
4. Press the **MAGNIFY OFF** button on the remote control to exit magnification.



NOTE • The MAGNIFY dialog will automatically disappear in several seconds with no operation. To bring the menu dialog back, press the **MAGNIFY ON** button again.

- Magnification is automatically disabled when the signal being displayed or its display condition changes.
- When magnification is active, keystone distortion settings may vary. They will be restored when magnification is disabled.
- Some horizontal stripes may be visible on the image when magnification is active.
- The MAGNIFY function is unavailable when:
 - An incompatible sync signal is input.
 - There is no input signal.

Temporarily freezing the screen

1. Press the **FREEZE** button on the remote control.
The “FREEZE” indicator will appear on the screen (however, the indicator will not appear when OFF is selected for the MESSAGE item in the SCREEN menu (61)).



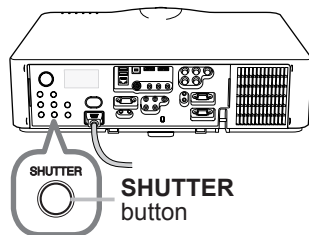
To exit the FREEZE mode and restore the screen to normal, press the **FREEZE** button again.

NOTE • The projector automatically exits from the FREEZE mode when some control buttons are pressed.

- If the projector continues projecting a still image for a long time, the image may become burned into the LCD panel. Do not leave the projector in the FREEZE mode for too long.
- Images might appear degraded when this function is in operation, but this is not a malfunction.

Temporarily shutting the screen

1. Press the **SHUTTER** button on the control panel.
The mechanical lens shutter closes and the screen turns to black. The **SHUTTER** indicator on the projector blinks yellow while the shutter is closed.
To open the shutter and restore the screen, press the **SHUTTER** button again.



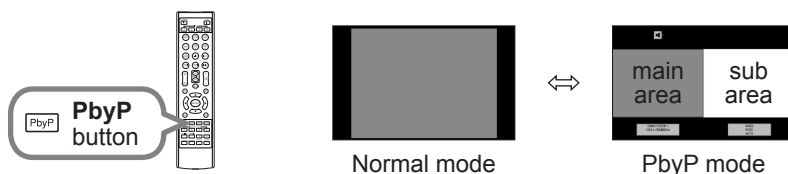
CAUTION ► If you wish to have a blank screen while the projector's lamp is on, use the lens shutter function above or the AV MUTE function (25). Doing anything else may damage the projector.

NOTE • The projector will turn off automatically when the time set up by the SHUTTER TIMER passes (66).

- When turning off power normally, the lens shutter opens automatically. If AC power supply is disconnected while opening or closing the lens shutter, the moving of the lens shutter stops. However, the next time the projector is turned on, the lens shutter opens again automatically.

PbyP (Picture by Picture) <Only for IN5135 and IN5145>

PbyP is a function for displaying two different picture signals on a screen that is split into main and sub areas for each signal.



Press the **PbyP** button on the remote control. This activates the PbyP mode. The displayed image before the PbyP button was pressed will be displayed as the main area. Most operations are effective for the main area only. Only the audio input signal of the main area will be output.

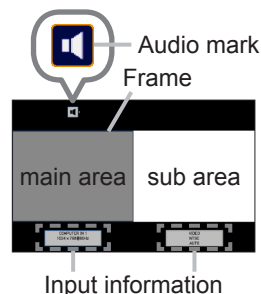
To cancel the PbyP mode, press the **PbyP** button again.

NOTE • If the **LAN** or **USB TYPE A / B** port is selected when the **PbyP** button is pressed, input from the other port is displayed on the main area.

- When in the PbyP mode, use the **MENU** button on the remote control or **▲/▼** buttons on the control panel to display the OSD menu.
- Certain functions cannot be used in the PbyP mode.
- Most of the time, messages will be displayed when buttons are pressed that cannot be used (📖114).
- The functions on the OSD menu that cannot be used are displayed in gray and cannot be selected.

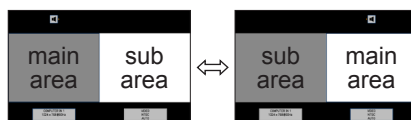
○ Setting information

The setting information will appear for several seconds when the PbyP function starts. The input information for each area will be displayed. A blue frame around the main area and an audio mark indicating the audio output will also be displayed. The information can be redisplayed with the **◀/▶** buttons after it has been erased.



○ Changing the main area

The position of the main area can be toggled with the **◀/▶** buttons when the setting information is displayed on the screen. The blue frame and the audio mark will move together with it.



(continued on next page)

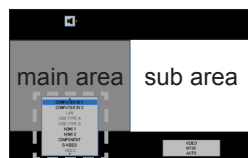
PbyP (Picture by Picture) <Only for IN5135 and IN5145> (continued)

○ Changing the picture input signal

Press any button to select an input port on the remote control or press the **INPUT** button on the control panel. A dialog box to select the input signal for the main area will be displayed. Choose a signal using the ▲/▼ buttons. To change the signal in the sub area, use the ◀/▶ buttons to temporarily switch to the sub area.

You cannot display the same signal on both areas. The table below provides details on available input signal combinations. Any combinations marked with "X" cannot be selected.

Sub area Main area	COMPUTER IN1	COMPUTER IN2	LAN	USB TYPE A	USB TYPE B	HDMI 1	HDMI 2	COMPONENT	S-VIDEO	VIDEO
COMPUTER IN1	X	O	X	X	X	O	O	O	O	O
COMPUTER IN2	O	X	X	X	X	O	O	O	O	O
LAN	X	X	X	X	X	X	X	X	X	X
USB TYPE A	X	X	X	X	X	X	X	X	X	X
USB TYPE B	X	X	X	X	X	X	X	X	X	X
HDMI 1	O	O	X	X	X	X	X	O	O	O
HDMI 2	O	O	X	X	X	X	X	O	O	O
COMPONENT	O	O	X	X	X	O	O	X	O	O
S-VIDEO	O	O	X	X	X	O	O	O	X	O
VIDEO	O	O	X	X	X	O	O	O	O	X

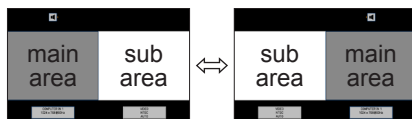


Input signal

NOTE • The combined input signals marked with an "O" can be selected and displayed in the PbyP mode even when the port is set to SKIP with the SOURCE SKIP on the OPTION menu (65).

○ PbyP SWAP function

Press the **MY BUTTON** assigned to PbyP SWAP (68). The position of both areas is exchanged without any setting changes.



NOTE • Some signals may not display correctly in PbyP mode, even if they normally can.

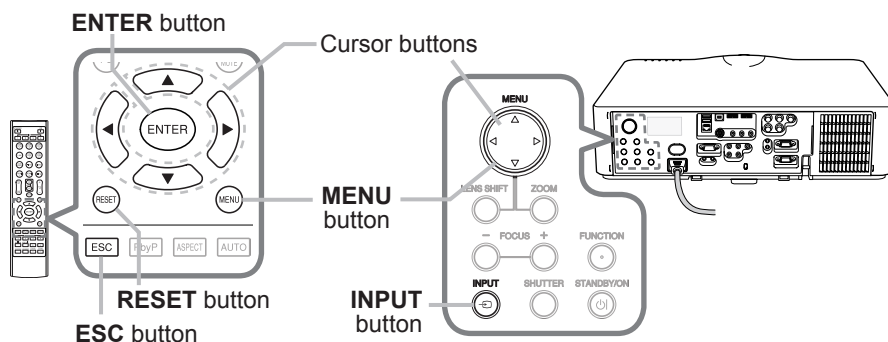
Using the menu function

This projector has the following menus:

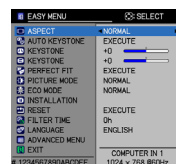
PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION, NETWORK, SECURITY and EASY MENU.

EASY MENU consists of functions often used, and the other menus are classified into each purpose and brought together as the ADVANCED MENU.

Each of these menus is operated using the same methods. When the projector is displaying the menu system, the projector's **MENU** button acts as a cursor button. Basic menu operations are described below.

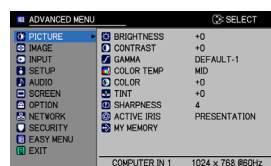


1. To start the MENU, press the **MENU** button. EASY MENU will appear just after the projector is powered on, otherwise the MENU you last used (EASY or ADVANCED) will appear
2. **In the EASY MENU**
 - (1) Use the **▲/▼** cursor buttons to select an item to operate. If you want to make changes in the ADVANCED MENU, select the ADVANCED MENU.
 - (2) Use the **◀/▶** cursor buttons to operate the item.



In the ADVANCED MENU

- (1) Use the **▲/▼** cursor buttons to select a menu. If you want to change make changes in the EASY MENU, select the EASY MENU. The items in the menu appear on the right side.
- (2) Press the **▶** cursor button or the **ENTER** button to move the cursor to the right side. Then use the **▲/▼** cursor buttons to select an item to operate and press the **▶** cursor button or the **ENTER** button to progress. The operation menu or dialog of the selected item will appear.
- (3) Use the buttons as instructed in the OSD to operate the item.



(continued on next page)

Using the menu function (continued)

3. To close the MENU, press the **MENU** button again or select EXIT and press the ◀ cursor button or the **ENTER** button. Even if you do not do anything, the dialog will automatically disappear after about 30 seconds.

NOTE • If you want to move the menu position, press the **POSITION** button and then use the cursor buttons.

• Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed.

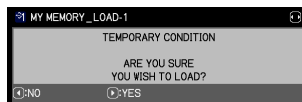
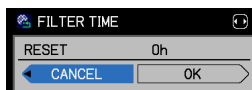
• If you want to reset the function, press the **RESET** button on the remote control while the function is active. Note: some items (ex. LANGUAGE, VOLUME) cannot be reset.

• In the ADVANCED MENU, when you want to return to the previous menu, press the ◀ cursor button or **ESC** button on the remote control.

POSITION
POSITION button



Indication in OSD (On Screen Display)







The general OSD meanings are described below:

Indication	Meaning
EXIT	Selecting this word closes the OSD menu. It's the same as pressing the MENU button.
RETURN	Selecting this word returns the menu to the previous menu.
CANCEL or NO	Selecting this word cancels the operation in the present menu and returns to the previous menu.
OK or YES	Selecting this word performs the prepared function or shifts the menu to the next menu.

Using the menu function (continued)

Containing items of each menu

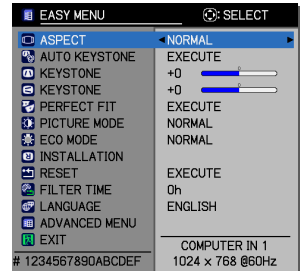
The items contained in the menus are as per below;

Menu	Items
EASY MENU (📖42)	ASPECT, AUTO KEYSTONE,  KEYSTONE,  KEYSTONE, PERFECT FIT, PICTURE MODE, ECO MODE, INSTALLATION, RESET, FILTER TIME, LANGUAGE, ADVANCED MENU, EXIT
PICTURE (📖44)	BRIGHTNESS, CONTRAST, GAMMA, COLOR TEMP, COLOR, TINT, SHARPNESS, ACTIVE IRIS, MY MEMORY
IMAGE (📖47)	ASPECT, OVER SCAN, V POSITION, H POSITION, H PHASE, H SIZE, AUTO ADJUST EXECUTE
INPUT (📖50)	PROGRESSIVE, VIDEO NR, COLOR SPACE, COMPONENT, VIDEO FORMAT, HDMI FORMAT, HDMI RANGE, COMPUTER IN, FRAME LOCK, RESOLUTION
SETUP (📖54)	AUTOKEYSTONE,  KEYSTONE,  KEYSTONE, PERFECTFIT, AUTO ECO MODE, ECO MODE, INSTALLATION, STANDBY MODE, MONITOR OUT
AUDIO (📖57)	VOLUME, SPEAKER, AUDIO SOURCE, HDMI AUDIO
SCREEN (📖59)	LANGUAGE, MENU POSITION, BLANK, START UP, MyScreen, MyScreen Lock, MESSAGE, SOURCE NAME, TEMPLATE, C. C.
OPTION (📖65)	SOURCE SKIP, AUTO SEARCH, AUTO KEYSTONE, DIRECT POWER ON, AUTO POWER OFF, SHUTTER TIMER, USB TYPE B, LAMP TIME, FILTER TIME, MY BUTTON, SERVICE
NETWORK (📖76)	WIRELESS SETUP, WIRELESS INFORMATION, WIRED SETUP, WIRED INFORMATION, PROJECTOR NAME, MY IMAGE, AMX D. D., PRESENTATION, SERVICE
SECURITY (📖87)	SECURITY PASSWORD CHANGE, MyScreen PASSWORD, PIN LOCK, TRANSITION DETECTOR, MY TEXT PASSWORD, MY TEXT DISPLAY, MY TEXT WRITING, SECURITY INDICATOR, STACK LOCK

EASY MENU

From the EASY MENU, you can perform the items shown in the table below.

Select an item using the ▲/▼ cursor buttons. Then follow the instructions below.



Item	Description
ASPECT	Using the ◀/▶ buttons switches the aspect ratio mode. See the ASPECT item in IMAGE menu (M47).
AUTO KEYSTONE	Using the ▶ button performs the auto keystone function. See the AUTO KEYSTONE item in SETUP menu (M54).
KEYSTONE	Using the ◀/▶ buttons corrects the vertical keystone distortion. See the KEYSTONE item in SETUP menu (M54).
KEYSTONE	Using the ◀/▶ buttons corrects the horizontal keystone distortion. See the KEYSTONE in SETUP menu (M55).
PERFECT FIT	Pressing the ▶ button displays the PERFECT FIT dialog. See the PERFECT FIT item in SETUP menu (M55).
PICTURE MODE	Using the ◀/▶ buttons switches the picture mode. The picture modes are combinations of GAMMA and COLOR TEMP settings. Choose a suitable mode according to the projected source. <div style="text-align: center;"> NORMAL ⇄ CINEMA ⇄ DYNAMIC ⇄ BOARD(BLACK) ⇕ DICOM SIM. ⇄ DAYTIME ⇄ WHITEBOARD ⇄ BOARD(GREEN) </div> (continued on next page)

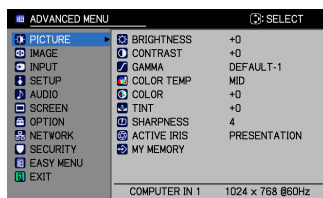
(continued on next page)

Item	Description																											
PICTURE MODE (continued)	<table><tr><td></td><td>GAMMA</td><td>COLOR TEMP</td></tr><tr><td>NORMAL</td><td>1 DEFAULT</td><td>2 MID</td></tr><tr><td>CINEMA</td><td>2 DEFAULT</td><td>3 LOW</td></tr><tr><td>DYNAMIC</td><td>3 DEFAULT</td><td>1 HIGH</td></tr><tr><td>BOARD(BLACK)</td><td>4 DEFAULT</td><td>4 Hi-BRIGHT-1</td></tr><tr><td>BOARD(GREEN)</td><td>4 DEFAULT</td><td>5 Hi-BRIGHT-2</td></tr><tr><td>WHITEBOARD</td><td>5 DEFAULT</td><td>2 MID</td></tr><tr><td>DAYTIME</td><td>6 DEFAULT</td><td>6 Hi-BRIGHT-3</td></tr><tr><td>DICOM SIM.</td><td>7 DEFAULT</td><td>2 MID</td></tr></table>		GAMMA	COLOR TEMP	NORMAL	1 DEFAULT	2 MID	CINEMA	2 DEFAULT	3 LOW	DYNAMIC	3 DEFAULT	1 HIGH	BOARD(BLACK)	4 DEFAULT	4 Hi-BRIGHT-1	BOARD(GREEN)	4 DEFAULT	5 Hi-BRIGHT-2	WHITEBOARD	5 DEFAULT	2 MID	DAYTIME	6 DEFAULT	6 Hi-BRIGHT-3	DICOM SIM.	7 DEFAULT	2 MID
		GAMMA	COLOR TEMP																									
	NORMAL	1 DEFAULT	2 MID																									
	CINEMA	2 DEFAULT	3 LOW																									
	DYNAMIC	3 DEFAULT	1 HIGH																									
	BOARD(BLACK)	4 DEFAULT	4 Hi-BRIGHT-1																									
	BOARD(GREEN)	4 DEFAULT	5 Hi-BRIGHT-2																									
	WHITEBOARD	5 DEFAULT	2 MID																									
	DAYTIME	6 DEFAULT	6 Hi-BRIGHT-3																									
	DICOM SIM.	7 DEFAULT	2 MID																									
<ul style="list-style-type: none">• When the combination of GAMMA and COLOR TEMP differs from the pre-assigned modes above, the display on the menu for the PICTURE MODE is "CUSTOM". Refer to the GAMMA and COLOR TEMP (44, 45) items in PICTURE menu.• Lines or other noise might appear on the screen when this function operating, but this is not a malfunction.• DICOM SIM. is the projector's DICOM® ("Digital Imaging and Communication in Medicine") simulation mode. This mode simulates the DICOM standard, which is a standard applicable to digital communications in medicine, and can be useful for displaying medical images, such as X-rays photos. This projector is not a medical device and is not compliant to the DICOM standard, and neither the projector nor the DICOM SIM. mode should be used for medical diagnosis.																												
ECO MODE	Using the ◀/▶ buttons turns off/on the Eco mode. See the ECO MODE item in SETUP menu (55).																											
INSTALLATION	Pressing the ▶ button displays the INSTALLATION dialog. See the INSTALLATION item in SETUP menu (55).																											
RESET	Performing this item resets all of the EASY MENU items except for FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Select OK using the ▶ button to perform the reset.																											
FILTER TIME	The air filter usage time is shown in this menu. Performing this item resets the filter usage time. A dialog is displayed for confirmation. Select OK using the ▶ button to perform the reset. See the FILTER TIME item in OPTION menu (67).																											
LANGUAGE	Using the ◀/▶ buttons changes the display language. See the LANGUAGE item in SCREEN menu (59).																											
ADVANCED MENU	Press the ▶ or ENTER button to use the PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION, NETWORK or SECURITY menu.																											
EXIT	Press the ◀ or the ENTER button to close the OSD menu.																											

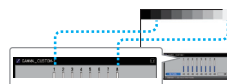
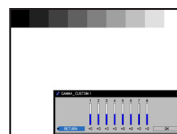
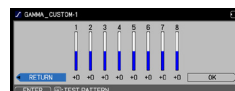
PICTURE menu

From the PICTURE menu, you can perform the items shown in the table below.

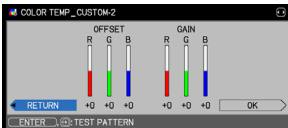
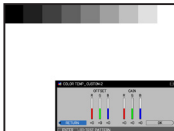
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item. Then follow the instructions below.



Item	Description
BRIGHTNESS	Using the ◀/▶ buttons adjusts brightness. Dark ⇄ Light
CONTRAST	Using the ◀/▶ buttons adjusts contrast. Weak ⇄ Strong
GAMMA	<p>Using the ▲/▼ buttons switches the gamma mode.</p> <p>1 DEFAULT ⇄ 1 CUSTOM ⇄ 2 DEFAULT ⇄ 2 CUSTOM ⇄ 3 DEFAULT ⇄ 3 CUSTOM ⇄ 4 DEFAULT ⇄ 4 CUSTOM ⇄ 5 DEFAULT ⇄ 5 CUSTOM ⇄ 6 DEFAULT ⇄ 6 CUSTOM</p> <p>To adjust CUSTOM</p> <p>Selecting a CUSTOM mode and then pressing the ► button or the ENTER button causes a dialog to appear that will aid you in adjusting the mode. This function is useful when you want to change the brightness of particular tones.</p> <p>Choose an item using the ◀/▶ buttons, and adjust the level using the ▲/▼ buttons. You can display a test pattern to check your adjustments by pressing the ENTER button. Each time you press the ENTER button, the pattern changes as per below.</p> <p>No pattern ⇄ Gray scale of 9 steps ⇄ Ramp ⇄ Gray scale of 15 steps</p> <p>Except for the darkest bar on the left, the eight equalizing bars correspond to the test pattern's eight tone levels (9 steps of gray scale). If you want to adjust the 2nd tone from the left end on the test pattern, use the equalizing adjustment bar "1". The darkest test pattern on the left cannot be controlled with any of equalizing adjustment bars.</p> <ul style="list-style-type: none"> • Lines or other noise might appear on the screen when this function is operated, but this is not a malfunction.



(continued on next page)

Item	Description
COLOR TEMP	<p>Using the ▲/▼ buttons switches the color temperature mode.</p> <p>1 HIGH ⇄ 1 CUSTOM ⇄ 2 MID ⇄ 2 CUSTOM ⇄ 3 LOW ⇄ 3 CUSTOM ⇅ 6 CUSTOM ⇅ 6 Hi-BRIGHT-3 ⇄ 5 CUSTOM ⇄ 5 Hi-BRIGHT-2 ⇄ 4 CUSTOM ⇅ 4 Hi-BRIGHT-1</p> <p>To adjust CUSTOM</p> <p>Selecting a CUSTOM mode and then pressing the ► button or the ENTER button displays a dialog to aid you in adjusting the OFFSET and GAIN of the selected mode.</p>  <p>OFFSET adjustments change the color intensity on the whole tones of the test pattern. GAIN adjustments mainly affect color intensity on the brighter tones of the test pattern.</p> <p>Choose an item using the ◀/▶ buttons, and adjust the level using the ▲/▼ buttons.</p> <p>You can display a test pattern to check your adjustments by pressing the ENTER button.</p> <p>Each time you press the ENTER button, the pattern changes as per below.</p> <p>No pattern ⇄ Gray scale of 9 steps ⇄ Ramp ⇄ Gray scale of 15 steps</p> <ul style="list-style-type: none"> • Lines or other noise may appear on the screen when this function is operated, but this is not a malfunction. 
COLOR	<p>Using the ◀/▶ buttons adjusts the strength of the whole color.</p> <p>Weak ⇄ Strong</p> <ul style="list-style-type: none"> • This item can only be selected with a video, s-video and component video signal. • For an HDMI™ signal, this item can also be selected if either (1) or (2) applies. <ol style="list-style-type: none"> (1) HDMI FORMAT item in the INPUT menu for selected port is set to VIDEO. (2) HDMI FORMAT item in the INPUT menu for selected port is set to AUTO, and the projector recognizes that it receives video signals.
TINT	<p>Using the ◀/▶ buttons adjusts the tint.</p> <p>Reddish ⇄ Greenish</p> <ul style="list-style-type: none"> • This item can only be selected for a video, s-video and component video signal. • For an HDMI™ signal, this item can also be selected if either (1) or (2) applies. <ol style="list-style-type: none"> (1) HDMI FORMAT item in the INPUT menu for selected port is set to VIDEO. (2) HDMI FORMAT item in the INPUT menu for selected port is set to AUTO, and the projector recognizes that it receives video signals.


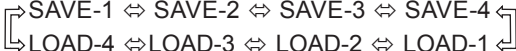
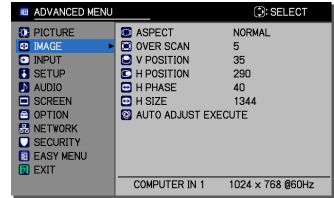
Item	Description
SHARPNESS	<p>Using the ◀/▶ buttons adjusts the sharpness. Weak ⇄ Strong</p> <ul style="list-style-type: none"> • There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.
ACTIVE IRIS	<p>Using the ▲/▼ cursor buttons changes the active iris control mode. PRESENTATION ⇄ THEATER ⇄ OFF</p>  <p><u>PRESENTATION</u> : The active iris displays the best presentation image for both bright and dark scenes. <u>THEATER</u> : The active iris displays the best theater image for both bright and dark scenes. <u>OFF</u> : The active iris is always open.</p> <ul style="list-style-type: none"> • The screen may flicker when the PRESENTATION or THEATER modes are selected. If this occurs select OFF.
MY MEMORY	<p>This projector has 4 memories for adjustment data (for all the items of the PICTURE menu). Selecting a function using the ▲/▼ buttons and pressing the ▶ or ENTER button performs each function.</p>  <p><u>SAVE-1, SAVE-2, SAVE-3, SAVE-4</u> Performing a SAVE function saves the current adjustment data and associates it with the number included in the function name.</p> <ul style="list-style-type: none"> • Remember that the currently saved memory data will be lost when saving new data into the memory. <p><u>LOAD-1, LOAD-2, LOAD-3, LOAD-4</u> Performing a LOAD function loads the data associated with the number in the function name, and adjusts the picture automatically depending on the data.</p> <ul style="list-style-type: none"> • LOAD functions are skipped when there is no data associated with the function name. • Remember that the current adjustments will be lost when loading new data from memory. If you want to keep the current adjustments, save it before performing a LOAD function. • There may be some noise and the screen may flicker for a moment when loading data. This is not a malfunction. • You can perform the LOAD function using MY BUTTON. See MY BUTTON item in OPTION menu (p.68).

IMAGE menu



From the IMAGE menu, you can perform the items shown in the table below.

Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item. Then follow the instructions below.



Item	Description
ASPECT	Using the ▲/▼ buttons switches the aspect ratio mode.
	For a computer signal
	IN5132, IN5142: NORMAL ⇄ 4:3 ⇄ 16:9 ⇄ 16:10
	IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145: NORMAL ⇄ 4:3 ⇄ 16:9 ⇄ 16:10 ⇄ NATIVE
	For an HDMI™ signal
	IN5132, IN5142: NORMAL ⇄ 4:3 ⇄ 16:9 ⇄ 16:10 ⇄ 14:9
	IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145: NORMAL ⇄ 4:3 ⇄ 16:9 ⇄ 16:10 ⇄ 14:9 ⇄ NATIVE
	For a video signal, s-video signal or component video signal
	IN5132, IN5142: 4:3 ⇄ 16:9 ⇄ 14:9
	IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145: 4:3 ⇄ 16:9 ⇄ 16:10 ⇄ 14:9 ⇄ NATIVE
	For an input signal from the LAN, USB TYPE A or USB TYPE B ports, or if there is no signal
	IN5132, IN5142: 4:3 (fixed) IN5134, IN5134a, IN5144, IN5144a, IN5135, IN5145: 16:10 (fixed)
	• The NORMAL mode keeps the original aspect ratio of the signal.

(continued on next page)

Item	Description
OVER SCAN	<p>Using the ◀/▶ buttons adjusts the over-scan ratio. Small (magnifies picture) ⇔ Large (reduces picture)</p> <ul style="list-style-type: none"> • This item can only be selected for a video, s-video and component video signal. • For an HDMI™ signal, this item can also be selected if either (1) or (2) applies. <p>(1) HDMI FORMAT item in the INPUT menu for selected port is set to VIDEO.</p> <p>(2) HDMI FORMAT item in the INPUT menu for selected port is set to AUTO, and the projector recognizes that it receives video signals.</p>
V POSITION	<p>Using the ◀/▶ buttons adjusts the vertical position. Down ⇔ Up</p> <ul style="list-style-type: none"> • Over-adjusting the vertical position may cause noise to appear on the screen. If this occurs, reset the vertical position to the default setting. Pressing the RESET button when the V POSITION is selected will reset the V POSITION to the default setting. • When this function is performed on a video signal or an s-video signal, the range of this adjustment depends on the OVER SCAN setting ( above). You cannot adjust this OVER SCAN is set to 10. • This function is unavailable with LAN, USB TYPE A / B or HDMI 1 / 2 port signals.
H POSITION	<p>Using the ◀/▶ buttons adjusts the horizontal position. Right ⇔ Left</p> <ul style="list-style-type: none"> • Over-adjusting the horizontal position may cause noise to appear on the screen. If this occurs, reset the horizontal position to the default setting. Pressing the RESET button when the H POSITION is selected will reset the H POSITION to the default setting. • When this function is performed on a video signal or an s-video signal, the range of this adjustment depends on OVER SCAN setting ( above). You cannot adjust this OVER SCAN is set to 10. • This function is unavailable with LAN, USB TYPE A / B or HDMI 1 / 2 port signals.

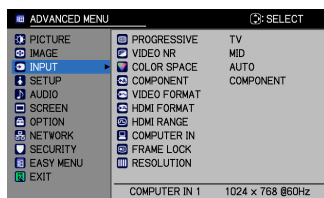
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Item	Description
H PHASE	<p>Using the ◀/▶ buttons adjusts the horizontal phase to eliminate flicker. Right ⇌ Left</p> <ul style="list-style-type: none"> • This item can only be selected for a computer signal or a component video signal. This function is unavailable with LAN, USB TYPE A / B or HDMI 1 / 2 port signals.
H SIZE	<p>Using the ◀/▶ buttons adjusts the horizontal size. Small ⇌ Large</p> <ul style="list-style-type: none"> • This item can only be selected for a computer signal. This function is unavailable with LAN, USB TYPE A / B or HDMI 1 / 2 port signals. • When this adjustment is excessive, the picture may not display correctly. In this case, reset the adjustment by pressing the RESET button on the remote control during this operation. • Images might appear degraded when this function is operated, but this is not a malfunction.
AUTO ADJUST EXECUTE	<p>Selecting this item performs the automatic adjustment function.</p> <p>For a computer signal The vertical position, the horizontal position and the horizontal phase will be automatically adjusted. Make sure the application window is set to its maximum size before attempting to use this function. A dark picture may still be inadjusted correctly. Use a bright picture when adjusting.</p> <p>For a video signal and s-video signal The video format best suited for the respective input signal will be selected automatically. This function is only available when AUTO is selected for the VIDEO FORMAT item in the INPUT menu (📖51). The vertical position and horizontal position will be automatically set to the default.</p> <p>For a component video signal The vertical position and horizontal position will be automatically set to the default. The horizontal phase will be automatically adjusted.</p> <ul style="list-style-type: none"> • The automatic adjustment operation requires approx. 10 seconds. Also note that it may not operate correctly with some inputs. • When this function is performed for a video signal, an extra item such as a line may appear outside a picture. • When this function is performed for a computer signal, a black frame may be displayed on the edge of the screen, depending on the computer model. • The items adjusted by this function may vary when the FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu (📖69).

INPUT menu

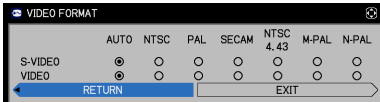


From the INPUT menu, you can perform the items shown in the table below.

Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item. Then follow the instructions below.


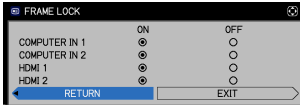


Item	Description
PROGRESSIVE	<p>Using the ▲/▼ buttons switches the progress mode. TV ⇄ FILM ⇄ OFF ↑</p> <ul style="list-style-type: none"> • This function only works for composite, s-video, component and HDMI™ signals (of 480i@60 or 576i@50 or 1080i@50/60). • When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system, but may cause certain image defects (for example, jagged line) when viewing quick moving objects. In this case, select OFF, even though the screen image may lose sharpness.
VIDEO NR	<p>Using the ▲/▼ buttons switches the noise reduction mode. HIGH ⇄ MID ⇄ LOW ↑</p> <ul style="list-style-type: none"> • This function only works for composite, s-video, component and HDMI™ signals (of 480i@60 or 576i@50 or 1080i@50/60).
COLOR SPACE	<p>Using the ▲/▼ buttons switches the color space mode. AUTO ⇄ RGB ⇄ SMPTE240 ⇄ REC709 ⇄ REC601 ↑</p> <ul style="list-style-type: none"> • This item can only be selected with computer signals and component video signals (except for signals from the LAN, USB TYPE A and USB TYPE B ports and SCART RGB.) • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well with some signals. In this case, it may be good to select a different mode than AUTO.
COMPONENT	<p>Using the ▲/▼ buttons switches the COMPONENT port functions. COMPONENT ⇄ SCART RGB</p> <p>When SCART RGB is selected, the COMPONENT (Y, Cb/Pb, Cr/Pr) and VIDEO ports will function as a SCART RGB port. A SCART adapter or SCART cable is required for a SCART RGB input to the projector. For details, contact your dealer.</p>

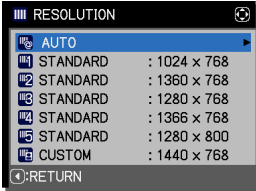
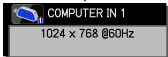
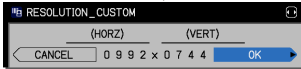

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Item	Description
VIDEO FORMAT	<p>You can choose the video format for the S-VIDEO and VIDEO ports.</p> <p>(1) Use the ▲/▼ buttons to select the input port.</p> <p>(2) Using the ◀/▶ buttons switches the video format mode.</p> <p>AUTO ⇄ NTSC ⇄ PAL ⇄ SECAM ⇄ N-PAL ⇄ M-PAL ⇄ NTSC4.43 ⇄</p> <p>• This item only affects video signals from the VIDEO and S-VIDEO ports.</p> <p>• The AUTO mode automatically selects the optimum mode.</p> <p>• The AUTO operation may not work well with some signals. If the picture becomes unstable (e.g. an irregular picture, lack of color), select the mode appropriate for the input signal.</p> 
HDMI FORMAT	<p>You can choose the HDMI™ input signal video format for the HDMI 1 and 2 ports.</p> <p>(1) Use the ▲/▼ buttons to select the HDMI port to be set.</p> <p>(2) Use the ◀/▶ buttons to select the video format.</p> <p>AUTO ⇄ VIDEO ⇄ COMPUTER</p> <p><u>AUTO</u>: automatically sets the optimum mode. <u>VIDEO</u>: sets the suitable mode for DVD signals. <u>COMPUTER</u>: sets the suitable mode for computer signals.</p> <p>• When COMPUTER is selected, the functions COLOR (PICTURE menu), TINT (PICTURE menu) and OVER SCAN (IMAGE menu) are unavailable.</p> 
HDMI RANGE	<p>You can choose the HDMI™ input signal digital range for the HDMI 1 and 2 ports.</p> <p>(1) Use the ▲/▼ buttons to select the HDMI port to be set.</p> <p>(2) Use the ◀/▶ buttons to select the digital range.</p> <p>AUTO ⇄ NORMAL ⇄ ENHANCED</p> <p><u>AUTO</u>: automatically sets the optimum mode. <u>NORMAL</u>: sets the suitable mode for DVD signals. (16-235) <u>ENHANCED</u>: sets the suitable mode for computer signals. (0-255)</p> <p>• If the screen image contrast is too strong or too weak, try a different mode.</p> 

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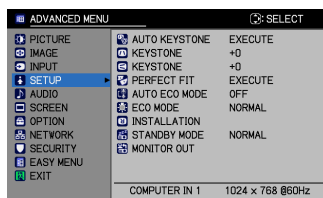
Item	Description
COMPUTER IN	<p>The computer input signal type for COMPUTER IN1 and IN2 ports can be chosen.</p> <p>(1) Use the ▲/▼ buttons to select the COMPUTER IN port to be set.</p> <p>(2) Use the ◀/▶ buttons to select the computer input signal type.</p> <p style="text-align: center;">AUTO ⇔ SYNC ON G OFF</p> <ul style="list-style-type: none"> • Selecting the AUTO mode allows you to input a sync on G signal or component video signal from the port. • In the AUTO mode, the picture may be distorted with certain input signals. In this case, remove the signal connector so that no signal is received and select the SYNC ON G OFF, and then reconnect the signal. 
FRAME LOCK	<p>Set the frame lock function on/off for each port.</p> <p>(1) Use the ▲/▼ buttons to select the input ports.</p> <p>(2) Use the ◀/▶ buttons to turn the frame lock function on/off.</p> <p style="text-align: center;">ON ⇔ OFF</p> <ul style="list-style-type: none"> • This item can only be performed on a signal with a vertical frequency of 49 to 51Hz, 59 to 61 Hz. • When ON is selected, moving pictures are displayed more smoothly. 


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Item	Description
RESOLUTION	<p>The resolution for the COMPUTER IN1 and COMPUTER IN2 input signals can be chosen on this projector.</p> <p>(1) In the INPUT menu select the RESOLUTION using the ▲/▼ buttons and press the ► button. The RESOLUTION menu will be displayed.</p>  <p>(2) In the RESOLUTION menu select the resolution you wish to display using the ▲/▼ buttons. Selecting AUTO will set a resolution appropriate to the input signal.</p> <p>(3) Pressing the ► or ENTER button when selecting a STANDARD resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size. The INPUT_INFORMATION dialog will be displayed.</p> <p>(4) To set a custom resolution use the ▲/▼ buttons to select the CUSTOM and the RESOLUTION_CUSTOM box will be displayed. Set the horizontal (HORZ) and vertical (VERT) resolutions using the ▲/▼/◀/▶ buttons. This function may not support all resolutions.</p> <p>(5) Move the cursor to OK on screen and press the ► or ENTER button. The message "ARE YOU SURE YOU WISH TO CHANGE RESOLUTION?" appears. To save the setting, press the ► button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted. The INPUT_INFORMATION dialog will be displayed.</p> <p>(6) To revert back to the previous resolution without saving changes, move the cursor to CANCEL on screen and press the ◀ or the ENTER button. The screen will then return to the RESOLUTION menu displaying the previous resolution.</p> <ul style="list-style-type: none"> • For some images, this function may not work well.
	<p>STANDARD</p>  <p>CUSTOM</p>  











SETUP menu

From the SETUP menu, you can perform the items shown in the table below. Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item. Then follow the instructions below.



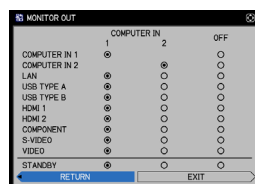
Item	Description
AUTO KEYSTONE	<p>Selecting this item performs the Automatic Keystone distortion correction. The projector automatically corrects vertical keystone distortion due to the (forward/backward) setup angle. When this function is selected, it will only be performed once. When the projector slant changes, perform this function again.</p> <ul style="list-style-type: none"> • The adjustable range of this function will vary among inputs. For some inputs, this function may not work well. • When the projector is in one of the following modes, the automatic vertical keystone correction feature may not work correctly or at all: <ul style="list-style-type: none"> - REAR / CEILING or FRONT / CEILING is selected for the INSTALLATION item in the SETUP menu, and the projector screen is slanted or tilted downwards. - The ZOOM adjustment is not set to the full WIDE (wide-angle focus). - The projector is nearly horizontal ($\pm 4^\circ$). - The projector is inclined more than 35 degrees. • This function is unavailable when the TRANSITION DETECTOR (📘90) is ON or the screen is adjusted by PERFECT FIT (📘33, 34).
 KEYSTONE	<p>Using the ◀/▶ buttons corrects the vertical keystone distortion.</p> <p>Shrink the bottom of the image ⇔ Shrink the top of the image</p> <ul style="list-style-type: none"> • The adjustable range of this function will vary among inputs. For some inputs, this function may not work well. • When the zoom adjustment is set to TELE (telephoto focus), this function may be excessive. This function should be used when the zoom adjustment is set to the full WIDE (wide-angle focus) whenever possible. • This function is unavailable when the TRANSITION DETECTOR (📘90) is ON or the screen is adjusted by PERFECT FIT (📘33, 34).

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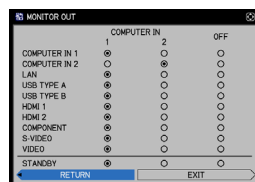
Item	Description
 KEystone	<p>Using the ◀/▶ buttons corrects the horizontal keystone distortion. Shrink the right of the image ⇔ Shrink the left of the image</p> <ul style="list-style-type: none"> • The adjustable range of this function will vary among inputs. For some inputs, this function may not work well. • When the horizontal lens shift is not set to the center, this function may not work well. • This function is unavailable when the TRANSITION DETECTOR ( 90) is ON or the screen is adjusted by PERFECT FIT ( 33, 34).
PERFECT FIT	<p>Select this to display the PERFECT FIT dialog. For details, see PERFECT FIT in Correcting the distortion ( 33, 34).</p> <ul style="list-style-type: none"> • This is unavailable when the TRANSITION DETECTOR is ON ( 90).
AUTO ECO MODE	<p>Using the ▲/▼ buttons turns on/off the AUTO ECO MODE. ON ⇔ OFF</p> <ul style="list-style-type: none"> • When ON is selected, the projector will always be set to Eco mode at start-up regardless of the ECO MODE ( below) setting. An OSD message "AUTO ECO MODE" will be displayed for ten seconds when the projector starts with this function activated.
ECO MODE	<p>Using the ▲/▼ buttons turns off/on the Eco mode. NORMAL ⇔ ECO</p> <ul style="list-style-type: none"> • When the ECO is selected, acoustic noise and screen brightness are reduced. • When AUTO ECO MODE ( above) is ON, the projector will always be set to Eco mode at start-up regardless of this setting.
INSTALATION	<p>Pressing the ▶ button displays the dialog for changing the INSTALLATION setting.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>FRONT / DESKTOP</p> <p>⇕</p> <p>REAR / DESKTOP</p> <p>⇕</p> <p>REAR / CEILING</p> <p>⇕</p> <p>FRONT / CEILING</p> </div>  </div> <p>Use the ▲/▼ buttons to select the desired setting on the INSTALLATION dialog, and press the ENTER button of the remote control or the INPUT button of the projector to perform this item. If TRANSITION DETECTOR is ON and the INSTALLATION status is changed, the TRANSITION DETECTOR ON alarm ( 90) will be displayed when the projector is restarted.</p>

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Item	Description
STANDBY MODE	<p>Using the ▲/▼ buttons switches the standby mode setting between NORMAL and SAVING.</p> <p>NORMAL ⇄ SAVING</p> <p>When SAVING is selected, the power consumption in standby mode is lowered with some functional restrictions as per below:</p> <ul style="list-style-type: none"> • When SAVING is selected and the projector is in standby mode, all RS-232 communication and network controls are disabled except the power on command. If COMMUNICATION TYPE in the COMMUNICATION menu is set to NETWORK BRIDGE, all of the RS-232 commands are disabled (M72). • When SAVING is selected and the projector is in standby mode, the AUDIO OUT STANDBY setting of AUDIO SOURCE (M57) is disabled, and no signal will be output from the AUDIO OUT port. • When SAVING is selected and the projector is in standby mode, the STANDBY setting of MONITOR OUT is disabled, and no signal is output from the MONITOR OUT port. • When SAVING is selected and the projector is in standby mode, the CENTERING feature is disabled. • <IN5142, IN5144, IN5144a and IN5145 only> When SAVING is selected and the projector is in standby mode, the Status Monitor and its button operation are unavailable.
MONITOR OUT	<p>While the image signal from the input port chosen in step (1) is projected, the image signal from the input port selected in step (2) is output to MONITOR OUT port.</p> <p>(1) Choose a picture input port using ▲/▼ buttons. Choose STANDBY to select the picture output in the standby mode.</p> <p>(2) Select one of the COMPUTER IN ports using ◀/▶ buttons. Select OFF to disable the MONITOR OUT port for the input port or standby mode chosen in the step (1).</p> <ul style="list-style-type: none"> • <IN5132, IN5142, IN5134, IN5134a, IN5144, IN5144a only> You cannot select COMPUTER IN1 or COMPUTER IN2 for step (1) or step (2).



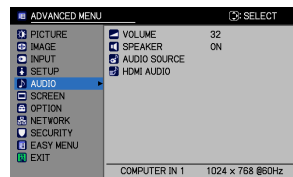
<IN5132, IN5142, IN5134, IN5134a, IN5144, IN5144a>



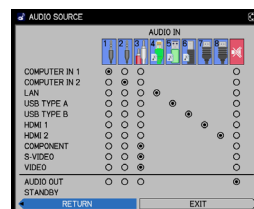
<IN5135, IN5145>

AUDIO menu


From the AUDIO menu, you can perform the items shown in the table below. Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item. Then follow the instructions below.



Item	Description
VOLUME	Using the ◀/▶ buttons adjusts the volume. Low ⇄ High
SPEAKER	Using the ▲/▼ buttons turns on/off the built-in speaker. ON ⇄ OFF When OFF is selected, the built-in speaker does not work.
AUDIO SOURCE	<p>While the image signal from the input port chosen in step (1) is projected, the audio signal from the input port selected in step (2) is output to both the AUDIO OUT port and built-in speaker of this projector. However, the built-in speaker does not work when SPEAKER is OFF.</p> <p>(1) Choose a picture input port using the ▲/▼ buttons. Choose AUDIO OUT STANDBY to select the sound output in the standby mode.</p> <p>(2) Select an audio input port or the mute icon using the ◀/▶ buttons. The icons indicate the following;</p> <div style="display: flex; justify-content: space-between;"> <div> <p>No.1: AUDIO IN1 port</p> <p>No.3: AUDIO IN3 ports</p> <p>No.5: USB TYPE A ports</p> <p>No.7: HDMI 1 port</p> <p>⌘ : mutes the sound</p> </div> <div> <p>No.2: AUDIO IN2 port</p> <p>No.4: LAN port</p> <p>No.6: USB TYPE B port</p> <p>No.8: HDMI 2 port</p> </div> </div> <p>• Audio input from port nos.4 to 8 can only be selected by each of the picture input ports.</p> <p>• C.C. (Closed Caption) is automatically activated when ⌘ is selected and an input signal containing C.C. is received. This function is only available when the signal is NTSC for VIDEO or S-VIDEO, or 480i@60 for COMPONENT, COMPUTER IN1 or COMPUTER IN2, and when AUTO is selected for DISPLAY in the C.C. menu under the SCREEN menu (64).</p>



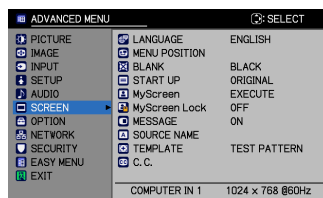
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Item	Description
HDMI AUDIO	<p>The HDMI™ audio mode for the HDMI 1 and 2 ports can be chosen.</p> <p>(1) Use the ▲/▼ buttons to select the HDMI port to be set.</p> <p>(2) Use the ◀/▶ buttons to select the mode of HDMI™ audio.</p> <p>Check each of the modes provided and select the suitable one for your HDMI™ audio device.</p> 

SCREEN menu


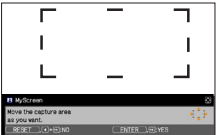

From the SCREEN menu, you can perform the items shown in the table below.

Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item. Then follow the instructions below.



Item	Description
LANGUAGE	<p>Using the ▲/▼/◀/► buttons switches the OSD (On Screen Display) language.</p> <p>ENGLISH ⇄ FRANÇAIS ⇄ DEUTSCH ⇄ ESPAÑOL ⤴ (shown in the LANGUAGE dialog) ⤵</p> <p>Press the ENTER or INPUT button to save the language setting.</p>
MENU POSITION	<p>Using the ▲/▼/◀/► buttons adjusts the menu position.</p> <p>To cancel the operation, press the MENU button on the remote control or do not operate the menu for about 10 seconds.</p>
BLANK	<p>Using the ▲/▼ buttons switches the BLANK screen. The BLANK screen is displayed when the AV MUTE button on the remote control is pressed.</p> <p>MyScreen ⇄ ORIGINAL ⇄ BLUE ⇄ WHITE ⇄ BLACK ⤴ ⤵</p> <p><u>MyScreen</u> : Screen can be saved with the MyScreen item (📘60). <u>ORIGINAL</u> : The standard screen. <u>BLUE, WHITE, BLACK</u> : A plain screen in each color.</p> <ul style="list-style-type: none"> • To avoid image burn-in, the MyScreen or ORIGINAL screen will change to a plain black screen after several minutes.
START UP	<p>Using the ▲/▼ buttons switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an incompatible signal is detected.</p> <p>MyScreen ⇄ ORIGINAL ⇄ OFF ⤴ ⤵</p> <p><u>MyScreen</u> : Screen can be saved with the MyScreen item (📘60). <u>ORIGINAL</u> : The standard screen. <u>OFF</u> : A plain black screen.</p> <ul style="list-style-type: none"> • To avoid image burn-in, the MyScreen or ORIGINAL screen will change to the BLANK screen (📘above) after several minutes. If the BLANK screen is the MyScreen or ORIGINAL, a plain black screen is used instead. • When ON is selected for the MyScreen PASSWORD item in the SECURITY menu (📘88), the START UP is set to MyScreen.

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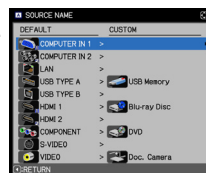
Item	Description
MyScreen	<p>This item allows you to capture a personal MyScreen image which can be used as the BLANK or START UP screen. Display the image you want to capture before accomplishing the following steps.</p> <p>(1) Selecting this item displays a dialog titled "MyScreen". It will ask you if you want to capture the current screen for your MyScreen image.</p>  <p>Please wait until the target image is displayed, and press the ENTER or INPUT button. The image will freeze and the frame for capturing it will appear.</p> <p>To cancel this process, press the RESET button on the remote control.</p> <p>(2) Using the ▲/▼/◀/▶ buttons adjusts the frame position.</p> <p>Move the frame to the position of the image which you want to use. For some input signals, the frame may not be able to be moved.</p>  <p>To start saving the image, press the ENTER or INPUT button on the remote control.</p>  <p>To restore the screen and return to the previous dialog, press the RESET button on the remote control.</p> <p>Saving the image may take several minutes.</p> <p>When this is completed, the saved screen image and the following message are displayed for several seconds:</p> <p>"MyScreen registration is finished."</p> <p>If the image is not saved, the following message is displayed:</p> <p>"A capturing error has occurred. Try again."</p> <ul style="list-style-type: none"> • This function cannot be selected when MyScreen Lock (📖61) is ON. • This function cannot be selected when MyScreen PASSWORD in SECURITY menu (📖88) is ON • This function is unavailable for LAN, USB TYPE A / B or HDMI 1 / 2 port signals. • Drawings using the Drawing function cannot be captured (📖104).

(continued on next page)

Item	Description
MyScreen Lock	<p>Using the ▲/▼ buttons turns on/off the MyScreen lock function. ON ⇄ OFF</p> <p>When ON is selected, the item MyScreen is locked. Use this function for protecting the current MyScreen.</p> <ul style="list-style-type: none"> • This function cannot be selected when ON is selected to the MyScreen PASSWORD item in SECURITY menu (📖88).
MESSAGE	<p>Using the ▲/▼ buttons turns on/off the message function. ON ⇄ OFF</p> <p>When ON is selected, the following messages will appear:</p> <p>“AUTO IN PROGRESS” while automatically adjusting</p> <p>“NO INPUT IS DETECTED”</p> <p>“SYNC IS OUT OF RANGE”</p> <p>“INVALID SCAN FREQ.”</p> <p>“Unavailable”</p> <p>“+++ FOCUS +++”</p> <p>“Searching....” when searching for an input</p> <p>“Detecting....” when an input signal is detected</p> <p>“AUTO ECO MODE” when starting up with AUTO ECO MODE</p> <p>The input signal source will be displayed when changing sources</p> <p>The aspect ratio will be displayed when changing modes</p> <p>The PICTURE MODE will be displayed when changing modes</p> <p>The ACTIVE IRIS will be displayed when changing modes</p> <p>The MY MEMORY will be displayed when changing modes</p> <p>The “FREEZE” and “II” will display when the screen has been frozen by using the FREEZE button.</p> <p>The TEMPLATE will be displayed when changing templates.</p> <p>The ECO MODE will be displayed when changing modes.</p> <ul style="list-style-type: none"> • When OFF is selected, do not forget if you have frozen the image. Do not mistake freezing for a malfunction (📖36).

(continued on next page)

Item	Description
SOURCE NAME	<p>Each input port for this projector can have a name applied to it.</p> <ol style="list-style-type: none"> (1) Use the ▲/▼ buttons on the SCREEN menu to select SOURCE NAME and press the ► or ENTER button. The SOURCE NAME menu will be displayed. (2) Use the ▲/▼ buttons on the SOURCE NAME menu to select the port to be named and press the ► button. The SOURCE NAME dialog will be displayed. The right side of the menu will remain blank until a name is specified. (3) Select an icon you would like to assign to the port in the SOURCE NAME dialog. The name assigned to the port will also automatically change based on your icon selection. Press the ENTER or INPUT button to make your icon selection. (4) Select the number you would like to assign to the port along with the icon. You can select the 1, 2, 3, 4 or blank (no number assigned). Then press the ENTER or INPUT button. (5) If you would like to modify the name assigned to the port, select CUSTOM NAME and press the ENTER or INPUT button.

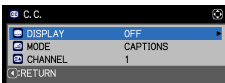




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Item	Description
SOURCE NAME (continued)	<p>(6) The current name will be displayed on the first line. Use the ▲/▼/◀/▶ buttons and the ENTER or INPUT button to select and enter characters. To erase 1 character at a time, press the RESET button or press the ◀ and INPUT button simultaneously. Also if you highlight DELETE or ALL CLEAR on screen and press the ENTER or INPUT button, you can erase one character or all characters at a time. The name can be up to 16 characters.</p> <p>(7) To change an existing character, press the ▲ button to move the cursor to the first line, and use the ◀/▶ buttons to highlight the character to be changed. After pressing the ENTER or INPUT button, the character is selected. Then, follow step (6) as per above.</p> <p>(8) To finish entering text, move the cursor to OK on the screen and press the ▶, ENTER or INPUT button. To revert to the previous name without saving changes, move the cursor to CANCEL on the screen and press the ◀, ENTER or INPUT button.</p>
TEMPLATE	<p>Using the ▲/▼ cursor buttons switches the mode for the template screen.</p> <p>Press the ▶ cursor (or the ENTER) button to display the selected template, and press the ◀ cursor button to close the displayed screen.</p> <p>The last selected template is displayed when the MY BUTTON allocated to the TEMPLATE function is pressed (📖68).</p> <p>TEST PATTERN ⇄ DOT-LINE1 ⇄ DOT-LINE2 ⇄ DOT-LINE3 ⇕</p> <p>STACK ⇄ MAP2 ⇄ MAP1 ⇄ CIRCLE2 ⇄ CIRCLE1 ⇄ DOT-LINE4 ⇕</p> <p>You can turn a map upside down and scroll it horizontally when MAP1 or MAP2 is selected. To invert or scroll the map, when MAP1 or MAP2 is displayed, press the RESET button on the remote at least three seconds to display the guides.</p>



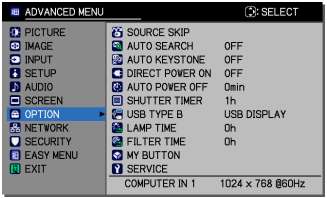
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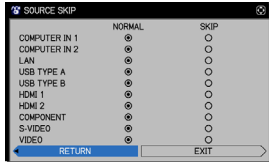
Item	Description
C.C. (Closed Caption)	<p>C.C. displays a transcript or dialog of the audio portion of videos, files and other presentations, including relevant sounds. An NTSC format video or a 480i@60 format component video source supporting closed captioning is required to use this function. Depending on the signal source and the equipment being used, this function may not work properly. In this case, turn off Closed Captioning.</p> 
	<p>DISPLAY</p> <p>Select the Closed Captioning DISPLAY option using ▲/▼ buttons.</p> <p>AUTO ⇄ ON ⇄ OFF</p>  <p><u>AUTO</u> : Closed Captioning automatically appears when a C.C. compatible input signal is selected and the AUDIO SOURCE is muted.</p> <p><u>ON</u> : Closed Captioning is on.</p> <p><u>OFF</u> : Closed Captioning is off.</p> <ul style="list-style-type: none"> • Captions are not displayed when the OSD menu is active. • Closed Captioning displays the dialogue, narration, and / or sound effects of a television program or other video sources. Closed Captioning availability is depending upon the broadcaster and/or content.
	<p>MODE</p> <p>Select the Closed Captioning MODE option using the ▲/▼ buttons.</p> <p>CAPTIONS ⇄ TEXT</p> <p><u>CAPTIONS</u> : Display Closed Captioning.</p> <p><u>TEXT</u> : Display text data, which is for additional information such as news reports or a TV program guide. The information covers the entire screen. Not all of the C.C. program has text information.</p>
	<p>CHANNEL</p> <p>Select the Closed Captioning CHANNEL option using the ▲/▼ buttons.</p> <p>1 ⇄ 2 ⇄ 3 ⇄ 4</p>  <p>1: Channel 1, primary channel / language</p> <p>2: Channel 2</p> <p>3: Channel 3</p> <p>4: Channel 4</p> <p>The channel data may vary, depending on the content. Some channels may be used for a secondary language or be empty.</p>




OPTION menu

From the **OPTION** menu, you can perform the items shown in the table below.

Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to perform this item, except items LAMP TIME and FILTER TIME. Then follow the instructions below.



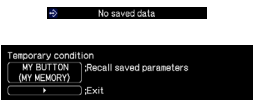
Item	Description
SOURCE SKIP	<p>Ports can be ignored by the AUTO SEARCH function (📘below) and when using buttons on the control panel.</p> <ol style="list-style-type: none"> (1) Choose a picture input port using the ▲/▼ buttons. (2) Using the ◀/▶ buttons turns the SOURCE SKIP function on/off. NORMAL ⇔ SKIP <p>The port that is set to SKIP will be ignored.</p> <ul style="list-style-type: none"> You cannot SKIP all of the ports simultaneously. This setting is not valid when in the PbyP mode (📘37). 
AUTO SEARCH	<p>Using the ▲/▼ buttons turns the automatic signal search function on/off. ON ⇔ OFF</p> <p>When ON is selected, the projector automatically cycles through input ports in the following order looking for an active source. The search is started from the current port. When an input is found, the projector will stop searching and display the image.</p> <pre> COMPUTER IN1 ⇒ COMPUTER IN2 ⇒ LAN ⇒ USB TYPE A ↑ ↓ VIDEO USB TYPE B ↑ ↓ S-VIDEO ⇔ COMPONENT ⇔ HDMI 2 ⇔ HDMI 1 </pre> <ul style="list-style-type: none"> It may take several seconds to project the images from the USB TYPE B port.
AUTO KEYSTONE	<p>Using the ▲/▼ buttons turns the automatic keystone function on/off. ON ⇔ OFF</p> <p><u>ON</u>: Automatic keystone distortion correction will be performed whenever the projector slant changes.</p> <p><u>OFF</u>: Disables automatic keystone correction. Execute the AUTO KEYSTONE (EXECUTE) in the SETUP menu for automatic keystone distortion correction.</p> <ul style="list-style-type: none"> When the projector is suspended from the ceiling, turn this feature OFF since it will not operate correctly. This function is unavailable when the Transition Detector is on (📘90).

Item	Description
DIRECT POWER ON	<p>Using the ▲/▼ buttons turns the DIRECT POWER ON function on/off, ON ⇄ OFF</p> <p>When this function is ON, the lamp inside the projector will automatically turn on when the projector is supplied with power instead of following the usual procedure (📖24).</p> <ul style="list-style-type: none"> • After the lamp is turned on using the DIRECT POWER ON function and the 30 minutes have lapsed without a signal source input or any user operation, the projector will turn off, even when the AUTO POWER OFF function (📖below) is disabled.
AUTO POWER OFF	<p>Using the ▲/▼ buttons adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇄ Short (min. 0 minute = DISABLE)</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>When the time is set to 0, the projector will not turn off automatically. When the time is set to 1 to 99 and there has been not been a compatible signal within that time, the projector lamp will turn off. If one of the projector or remote control buttons is pressed or a command (except read commands) is transmitted to the CONTROL port during the corresponding time, the projector will not turn off. Refer to the section Turning off the power (📖24).</p>
SHUTTER TIMER	<p>Using the ▲/▼ buttons sets the time from closing the lens shutter to automatically turning the projector off. 1h ⇄ 3h ⇄ 6h</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • The shutter will open automatically when the projector is turned on again.

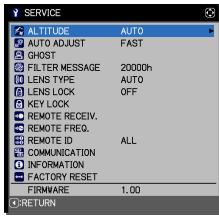
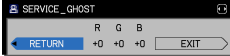
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Item	Description
USB TYPE B	<p>Using the ▲/▼ buttons selects the function of USB TYPE B port. To use this function, you need to connect the projector's USB TYPE B port to the computer's Type A USB port.</p> <p>MOUSE ⇔ USB DISPLAY</p> <p><u>MOUSE</u>: The remote control works like a simple mouse and keyboard for the computer.</p> <p><u>USB DISPLAY</u>: The port will receive image input signals from the computer (📘104).</p> <ul style="list-style-type: none"> • It may take several seconds to project the images from the USB TYPE B port. • In the following situations, a message will appear stating that USB TYPE B port is unavailable as an image input when: <ul style="list-style-type: none"> - This setting is switched to MOUSE while a picture is being projected from the USB TYPE B port. - This setting is switched to USB DISPLAY while this setting is set to MOUSE.
LAMP TIME	<p>The lamp time is the amount of time the lamp has been used since it was last reset. Lamp Time is shown in the OPTION menu. Pressing the RESET button on the remote control or the ► button of the projector displays a dialog.</p> <p>To reset the lamp time, select OK using the ► button.</p> <p>CANCEL ⇔ OK</p> <ul style="list-style-type: none"> • In order to maintain LAMP TIME accuracy, only reset the lamp time when you have replaced the lamp. • See the section Replacing the lamp (📘108) for lamp replacement information. • The lamp time can be viewed in the Status Monitor on the IN5142, IN5144, IN5144a, IN5145 (📘22).
FILTER TIME	<p>The filter time is the amount of time the filter has been used since it was last reset. Filter Time is shown in the OPTION menu. Pressing the RESET button on the remote control or the ► button of the projector displays a dialog.</p> <p>To reset the filter time, select OK using the ► button.</p> <p>CANCEL ⇔ OK</p> <ul style="list-style-type: none"> • In order to maintain FILTER TIME accuracy, only reset the filter time when you have cleaned or replaced the filter. • See the section Cleaning and replacing the air filter (📘110) for filter cleaning and replacement instructions. • The filter time can be viewed in the Status Monitor on the IN5142, IN5144, IN5144a, IN5145 (📘22).

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Item	Description
MY BUTTON	<p>This item assigns one of the following functions to MY BUTTON (1 to 4) on the remote control (M6).</p> <p>(1) Use the ▲/▼ buttons on the MY BUTTON menu to select a button from MY BUTTON - 1 to 4 and press the ► or ENTER button to display the MY BUTTON setup dialog.</p> <p>(2) Then using the ▲/▼/◀/► buttons highlight one of the following functions for the chosen button. Press the ENTER or INPUT button to save the setting.</p> <p><u>SLIDESHOW</u>: Selects the USB TYPE A port input and starts a Slideshow.</p> <p><u>MY IMAGE</u>: Displays the MY IMAGE menu (M84).</p> <p><u>MESSENGER</u>: Turns the messenger text displayed on the screen on/off (M5. Messenger Function in the Network Guide). When there is no text data to display, the message "NO MESSENGER DATA" appears.</p> <p><u>SHUTTER</u>: Opens and closes the lens shutter (M36).</p> <p><u>PbyP SWAP</u>: <Only for the IN5135 and IN5145> When in PbyP mode (M38), swaps the position of the picture on the right with the one on the left.</p> <p><u>INFORMATION</u>: Displays SYSTEM INFORMATION, INPUT INFORMATION (M75), WIRELESS INFORMATION (M80), WIRED INFORMATION (M82) or nothing.</p> <p><u>AUTO KEYSTONE</u>: Performs automatic keystone distortion correction (M54).</p> <p><u>MY MEMORY</u>: Loads one of the saved MY MEMORY settings (M46). When more than one set of data is saved, the adjustment changes with each push of the MY BUTTON. When no data is saved in memory, the dialog "No saved data" appears.</p> <p>When the current adjustment is not saved to memory, the dialog shown on the right appears.</p>  <p>If you want to keep the current adjustment, press the ► button to exit. Otherwise loading new data will overwrite the current adjustments.</p> <p><u>ACTIVE IRIS</u>: Changes the active iris mode (M46).</p> <p><u>PICTURE MODE</u>: Changes the PICTURE MODE (M42).</p> <p><u>FILTER RESET</u>: Displays the filter time reset confirmation dialogue (M67).</p> <p><u>TEMPLATE</u>: Makes the saved test pattern TEMPLATE item (M63) appear and disappear.</p> <p><u>MUTE</u>: Turns audio mute on/off.</p> <p><u>RESOLUTION</u>: Turns the RESOLUTION dialog (M53) on/off.</p> <p><u>ECO MODE</u>: Turns the ECO MODE dialog (M55) on/off.</p>

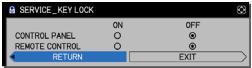



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Item	Description
SERVICE	<p>Select this to display the SERVICE menu. Select an item using the ▲/▼ buttons, and press the ► button or the ENTER button on the remote control to perform this item.</p> 
	<p>ALTITUDE</p> <p>Using the ▲/▼ buttons switches the rotation speed of the cooling fans. We recommend leaving it set to AUTO under most circumstances</p> <p>HIGH-2 ⇄ HIGH-1 ⇄ NORMAL ⇄ AUTO</p> <p>↑—————↑</p> <p><u>AUTO</u>: The projector changes the rotation speed automatically to accomodate for altitude and other environmental factors. When there is trouble with the AUTO mode, choose one of the options below.</p> <p><u>NORMAL</u>: This mode can be used below 1600m (5250ft.).</p> <p><u>HIGH-1</u>: This mode can be used between 1600 to 2300m (5250 to 7550ft.).</p> <p><u>HIGH-2</u>: This mode can be used above 2300m (7550ft.).</p>
	<p>AUTO ADJUST</p> <p>Using the ▲/▼ buttons selects one of the modes. When DISABLE is selected, the automatic adjustment feature is disabled.</p> <p>FINE ⇄ FAST ⇄ DISABLE</p> <p>↑—————↑</p> <p><u>FINE</u>: Finer tuning including H.SIZE adjustment.</p> <p><u>FAST</u>: Faster tuning. Sets the H.SIZE according to a table of preset data based on the input signal.</p> <ul style="list-style-type: none"> Depending on a variety of conditions, such as the input image, cables, and projector environment, etc., the automatic adjustment function may not work correctly. In this case, choose DISABLE to disable automatic adjustments, and make adjustments manually.
	<p>GHOST</p> <p>(1) Select the ghost's color element using the ◀/▶ buttons.</p> <p>(2) Adjust the selected element using the ▲/▼ buttons to eliminate the ghost.</p> 

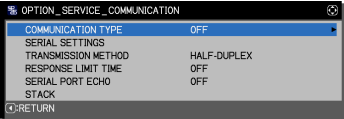
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Item	Description
SERVICE (continued)	<p>FILTER MESSAGE</p> <p>Use the ▲/▼ button to set the notification timer for displaying a message to replace the filter unit</p> <p>IN5132, IN5134, IN5134a, IN5135: 1000h ⇄ 2000h ⇄ 5000h ⇄ 10000h ⇄ 15000h ⇄ OFF</p> <p>IN5142, IN5144, IN5144a, IN5145: 1000h ⇄ 2000h ⇄ 5000h ⇄ 10000h ⇄ 15000h ⇄ 20000h ⇄ OFF</p> <p>After choosing any item except OFF, the message "REMINDER *** HRS PASSED...." will appear after the timer reaches the time intervals set by this feature (114).</p> <p>When OFF is chosen, the message will not appear. Utilize this feature to keep the air filter clean and to set replacement times appropriate for your projector environment.</p> <ul style="list-style-type: none"> Periodically take care of the filter unit, even if no message displays. If the air filter becomes blocked by dust or other matter, the internal temperature will rise, which could cause a malfunction, or reduce the projector lifetime. Be careful with the projector's operating environment and the filter unit condition.
	<p>LENS TYPE</p> <p>(1) Select the lens type being used using the ▲/▼ buttons and press the ► or ENTER button. If AUTO is selected, the projector determines the lens type automatically.</p> <p>(2) A confirmation message will be displayed. Press the ► or ENTER button to save the lens type setting.</p> <ul style="list-style-type: none"> This setting influences the keystone distortion, etc. The lens type determined by the projector will be displayed on the right of "AUTO". If the projector cannot determine the lens type automatically when this item is set to AUTO, "UNKNOWN LENS" is displayed on the right of "AUTO". Ask your dealer about optional lenses.
	<p>LENS LOCK</p> <p>Using the ▲/▼ buttons turns the lens lock feature on/off. When ON is selected, the buttons (ZOOM, ZOOM + / -, FOCUS + / -, LENS SHIFT, LENS MEMORY) are locked.</p> <p>ON ⇄ OFF</p>

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Item	Description
SERVICE (continued)	<p>KEY LOCK</p> <p>(1) Use the ▲/▼ buttons to choose the control option. CONTROL PANEL ⇄ REMOTE CONTROL</p> <p>(2) Use the ◀/▶ buttons to select ON or OFF. ON ⇄ OFF</p>  <p>Selecting ON in Step 2 locks all the buttons except STANDBY, ON and STANDBY/ON for the control option selected in Step 1. Selecting OFF releases the locked buttons on the control option selected in Step 1.</p> <ul style="list-style-type: none"> • Use this function to prevent tampering and accidental operation. • It is not possible to disable both options simultaneously.
	<p>REMOTE RECEIV.</p> <p>(1) Select a remote sensor using the ▲/▼ button. FRONT ⇄ REAR</p> <p>(2) Switch it on/off using the ◀/▶ button. ON ⇄ OFF</p>  <ul style="list-style-type: none"> • When one sensor is turned off, the other cannot be turned off too.
	<p>REMOTE FREQ.</p> <p>(1) Use the ▲/▼ button to change the projector's remote sensor frequency setting (4, 18). 1:NORMAL ⇄ 2:HIG</p> <p>(2) Use the ◀/▶ button to change the projector's remote sensor on or off. ON ⇄ OFF</p>  <p>Both 1:NORMAL and 2:HIG are ON by default. If the remote control does not function correctly, disable one of them.</p> <ul style="list-style-type: none"> • It is not possible to disable both options simultaneously.
	<p>REMOTE ID</p> <p>Use the ▲/▼ buttons on the REMOTE ID menu to select ID and press the ▶ button.</p> <p>ALL ⇄ 1 ⇄ 2 ⇄ 3 ⇄ 4</p>  <p>The projector is controlled by the remote control which shares the same ID number. When ALL is selected, the projector is controlled by a remote control irrespective of the ID setting.</p>


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Item	Description
SERVICE (continued)	<p>Selecting this item displays COMMUNICATION menu.</p> <p>In this menu, you can configure the projector's serial communication settings using the CONTROL port.</p>  <ul style="list-style-type: none"> • Select an item using the cursor buttons ▲/▼. Then press the ► button to open the submenu for setting the item you selected. Or, press the ◀ button instead of the ► button to go back to the previous menu without changing the setup. Each submenu can be operated as described above. • When COMMUNICATION TYPE (see below) is OFF, all other items in the COMMUNICATION menu are unavailable except STACK. • For serial communication functions, refer to the Network Guide.
	<p>COMMUNICATION TYPE</p> <p>Select the communication type for transmission via the CONTROL port.</p> <div style="text-align: center;"> <p>NETWORK BRIDGE (WIRELESS) ←</p> <p>↕</p> <p>NETWORK BRIDGE (WIRED)</p> <p>↕</p> <p>OFF ←</p> </div> <p>NETWORK BRIDGE: Select this type, if an external device must be used as a network terminal between this projector and the computer. Select WIRELESS or WIRED as your network connection mode.</p> <p>The CONTROL port does not accept RS-232 commands (see 6. Network Bridge Function in the Network Guide)</p> <p>OFF: Select this mode to receive RS-232 commands using the CONTROL port.</p> <ul style="list-style-type: none"> • OFF is the default setting. • When you select NETWORK BRIDGE, check the TRANSMISSION METHOD (see 73) settings.




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Item	Description	
SERVICE (continued)	COMMUNICATION (continued)	<p>SERIAL SETTINGS Select the CONTROL port serial communication settings.</p> <p>BAUD RATE 4800bps ⇄ 9600bps ⇄ 19200bps ⇄ 38400bps ↑—————↑</p> <p>PARITY NONE ⇄ ODD ⇄ EVEN ↑—————↑</p> <ul style="list-style-type: none"> When the COMMUNICATION TYPE is OFF (🔧 72), the BAUD RATE is set to 19200bps and PARITY is set NONE.
		<p>TRANSMISSION METHOD Select the NETWORK BRIDGE communication transmission method for the CONTROL port.</p> <p>HALF-DUPLEX ⇄ FULL-DUPLEX</p> <p><u>HALF-DUPLEX</u>: This method allows the projector to communicate both ways, but only in one direction, either transmitting or receiving, at a time.</p> <p><u>FULL-DUPLEX</u>: This method allows the projector to communicate both ways, transmitting and receiving data simultaneously.</p> <ul style="list-style-type: none"> HALF-DUPLEX is the default setting. If you select HALF-DUPLEX, check the RESPONSE LIMIT TIME (🔧 74) setting.

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Item	Description	
SERVICE (continued)	COMMUNICATION (continued)	<p>RESPONSE LIMIT TIME Select the time period which the projector should wait to receive response data from a device communicating using the NETWORK BRIDGE and HALF-DUPLEX methods via the CONTROL port.</p> <p>OFF ⇄ 1s ⇄ 2s ⇄ 3s </p> <p><u>OFF</u>: Select this mode if the responses from the device do not need to be monitored. In this mode, the projector can send data out to the computer continuously.</p> <p><u>1s /2s /3s</u>: Select the time period which the projector should wait to receive response data from the device. The projector does not send out any data from the CONTROL port while waiting for a response.</p> <ul style="list-style-type: none"> • This menu is only available when NETWORK BRIDGE is the selected COMMUNICATION TYPE and HALF-DUPLEX is the selected TRANSMISSION METHOD (73). • OFF is the default setting.
		<p>SERIAL PORT ECHO Controls whether the serial port echoes characters.</p>
		<p>STACK Select this to display the STACK menu. For more information, see the Instant Stack Guide.</p> <ul style="list-style-type: none"> • When STACK MODE is set to MAIN or SUB, the items in the COMMUNICATION menu are unavailable.

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Item	Description
SERVICE (continued)	<p>INFORMATION</p> <p>Selecting this item displays a dialog titled “INPUT_INFORMATION”. It shows information about the current input.</p> <div>  </div> <div>  </div> <div>  </div> <ul style="list-style-type: none"> • The “FRAME LOCK” message on the dialog means the frame lock function is working. • The “SCART RGB” message means the COMPONENT ports are working as a SCART RGB input port. Refer to the COMPONENT item in the INPUT menu (p.50). • This item cannot be selected when there is no signal or sync out. • When MY TEXT DISPLAY is ON, MY TEXT is displayed together with the input information in the INPUT_INFORMATION box (p.92).
	<p>FACTORY RESET</p> <p>Selecting OK using the ► button performs this function. This function causes all the menu items to return to their initial settings. Note: LAMP TIME, FILTER TIME, LANGUAGE, FILTER MESSAGE, STANDBY MODE, COMMUNICATION, NETWORK and SECURITY settings are not reset.</p> <p>CANCEL ⇌ OK</p>
	<p>FIRMWARE</p> <p>Displays the latest firmware code.</p>

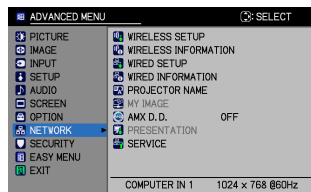
NETWORK menu

Remember that incorrect network settings on this projector may cause network problems. Contact your network administrator before connecting to an existing access point on the network.

Select “NETWORK” from the main menu to access the following functions.

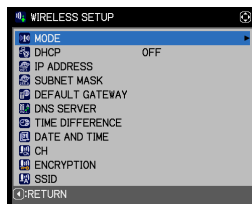
Select an item using the ▲/▼ cursor buttons on the projector or remote control, and press the ► cursor button on the projector or remote control, or the **ENTER** button on the remote control to perform this item. Then follow the instructions below.

See the **Network Guide** for more details about NETWORK operation.



- NOTE** • To use the wireless network function of this projector, the optional specified USB wireless adapter is required. Do not use any extension cables or devices when connecting the adapter to the projector.
- Wired and wireless LAN cannot be connected to the projector using the same network simultaneously.
 - Do not define the same network address for both wireless and wired LAN.
 - If you are not utilizing SNTP (📘3.1.8 Date/Time Settings in the **Network Guide**), DATE AND TIME must be defined during the initial installation.
 - When the STANDBY MODE in the SETUP menu is set to SAVING and the projector is in standby mode, the network communication control is disabled. Connect the network communication to the projector after setting STANDBY MODE to NORMAL (📘56).

Item	Description	
WIRELESS SETUP	<p>Select this to display the WIRELESS SETUP menu for the wireless LAN. Use the ▲/▼ buttons to select an item, and the ► or ENTER button on the remote control to perform the item.</p>	
	MODE	<p>Use the ▲/▼ buttons to select the network communication system mode. Select the item based on your computer settings.</p> <p>ADHOC ↔ INFRASTRUCTURE</p> <p>To save the setting, press the ► button.</p> <ul style="list-style-type: none"> • When ADHOC is selected, IEEE802.11 n cannot be used. • When ADHOC is set to MODE, ENCRYPTION (📘78) switches to OFF automatically.



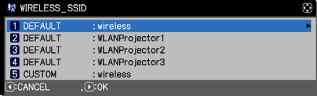

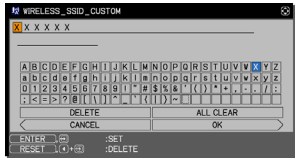

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Item	Description	
WIRELESS SETUP (continued)	DHCP (Dynamic Host Configuration Protocol)	<p>Use the ▲/▼ buttons to turn DHCP on/off. ON ⇌ OFF</p> <p>Select OFF when the network does not have DHCP enabled. To save the setting, press the ► button.</p> <ul style="list-style-type: none"> • When DHCP changes to ON, it takes a little time to obtain the IP address from DHCP server. • Auto IP function will assign an IP address if the projector cannot obtain an IP address from the server even if DHCP is ON.
	IP ADDRESS	<p>Use the ▲/▼/◀/► buttons to enter the IP ADDRESS. This function can only be used when DHCP is OFF.</p> <ul style="list-style-type: none"> • The IP ADDRESS is the number that identifies this projector on the network. You cannot have two devices with the same IP ADDRESS on the same network. • The IP ADDRESS 0.0.0.0 is prohibited.
	SUBNET MASK	<p>Use the ▲/▼/◀/► buttons to enter the SUBNET MASK used by your computer. This function can only be used when DHCP is OFF.</p> <ul style="list-style-type: none"> • The SUBNET MASK 0.0.0.0 is prohibited.
	DEFAULT GATEWAY	<p>Use the ▲/▼/◀/► buttons to enter the DEFAULT GATEWAY (a node on a computer network that serves as an access point to another network) address. This function can only be used when DHCP is OFF.</p>
	DNS SERVER	<p>Use the ▲/▼/◀/► buttons to input the DNS server address. The DNS server is a system to control domain names and IP addresses on the Network.</p>
	TIME DIFFERENCE	<p>Use the ▲/▼ buttons to enter TIME DIFFERENCE. Set TIME DIFFERENCE to match your computer. If you are unsure what to enter, contact your IT manager. Use the ► button to return to the menu after setting TIME DIFFERENCE.</p> <ul style="list-style-type: none"> • When this item is set, TIME DIFFERENCE in the WIRED SETUP menu will be overwritten with the same setting (p. 82).

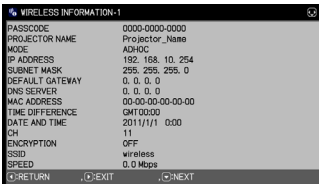
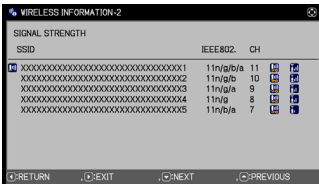
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Item	Description	
WIRELESS SETUP (continued)	DATE AND TIME	<p>Use the ▲/▼/◀/▶ buttons to enter the Year (last two digits), Month, Date, Hours and Minutes.</p> <ul style="list-style-type: none"> When this item is set, TIME DIFFERENCE in the WIRED SETUP menu will be overwritten with the same setting (🔗82). When SNTP is enabled, the projector will override this setting and retrieve DATE AND TIME information from the Time server. (🔗3.1.8 Date/Time Settings in the Network Guide) If STANDBY MODE in the SETUP menu is set to SAVING and the projector is turned off (or AC power is turned off), this setting will be reset. (🔗56).
	CH	<p>Use the ▲/▼ buttons to select the wireless LAN channel to be used when MODE (🔗76) is set to ADHOC. Select the item based on your computer settings.</p> <p>The channels 1 to 11 are available. To save the setting, press the ► button.</p> <ul style="list-style-type: none"> Available channels will vary per country. In addition, a wireless network card may be required based on the country. This item can only be selected when MODE is set to ADHOC. When MODE is set to INFRASTRUCTURE, the channel is automatically selected.
	ENCRYPTION	<p>Use the ▲/▼ buttons to select the encryption method to be used.</p> <div style="text-align: center;"> WPA2-PSK(AES) ⇄ WPA2-PSK(TKIP) ⇅ OFF ⇄ WPA-PSK(AES) ⇅ WEP 64bit ⇄ WEP 128bit ⇄ WPA-PSK(TKIP) </div> <p>To save the setting, press the ► button.</p> <ul style="list-style-type: none"> When MODE (🔗76) is set to ADHOC, WPA-PSK and WPA2-PSK are disabled. If IEEE802.11 n is used while MODE is set to INFRASTRUCTURE, TKIP and WEP are disabled. Communication will switch automatically to IEEE802.11 b/g unless OFF or AES is selected.

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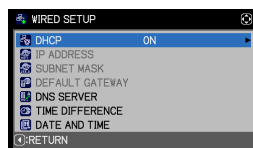
Item	Description
WIRELESS SETUP (continued)	<p>SSID</p> <p>Use the ▲/▼ buttons to select the SSID to display the SSID menu.</p>  <p>#1 DEFAULT ⇄ #2 DEFAULT ⇄ #3 DEFAULT ↗ ↘ #5 CUSTOM ⇄ #4 DEFAULT ↖</p> <p>Select DEFAULT (#1~#4) and press ► or the ENTER button.</p> <p>To adjust CUSTOM</p> <p>Press the ► or ENTER button when #5 CUSTOM is selected. The SSID #5 CUSTOM menu will appear.</p> <p>(1) The current SSID will be displayed on the first line. If nothing has been entered yet, the line will be blank. Use the ▲/▼/◀/► buttons and the ENTER or INPUT button to select and enter characters. To erase 1 character at one time, press the RESET button or press the ◀ and INPUT button simultaneously. You can also highlight DELETE or ALL CLEAR on the screen and press the ENTER or INPUT button to erase 1 character at a time or all of the characters. The SSID can be up to 32 characters.</p>  <p>(2) To change an existing character, press the ▲/▼ button to move the cursor to one of the first 2 lines, and use the ◀/► buttons to highlight the character to be changed. After pressing the ENTER or INPUT button, the character is selected. Then, repeat item (1) above.</p>  <p>(3) When finished entering text, move the cursor to OK and press the ►, ENTER or INPUT button. To keep the previous name without saving the changes, move the cursor to CANCEL and press the ◀, ENTER or INPUT button.</p> 

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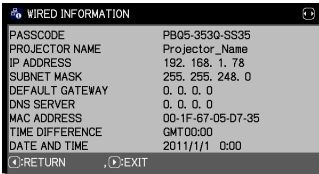
Item	Description
WIRELESS INFORMATION	<p>Select this to display the WIRELESS INFORMATION dialog to view the wireless LAN settings. Use the ▲/▼ buttons to switch the page. The first page shows the wireless LAN settings. The second and subsequent pages display the wireless LAN connection devices signal information</p> <div style="display: flex; justify-content: space-around;">   </div> <ul style="list-style-type: none"> • For PASSCODE details, refer to the LiveViewer manual. • Nothing (blank) is shown in the PROJECTOR NAME (📄83) and SSID (📄79) field until you setup those items. Only the first 16 characters of the PROJECTOR NAME will be displayed. • IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY indicate 0.0.0.0 under the following conditions: <ol style="list-style-type: none"> (1) The USB wireless adapter is not inserted into the projector. (2) DHCP is ON and the projector did not receive an address from the DHCP server. • Nothing (blank) is shown in the CH and SPEED fields if the USB wireless adapter is not inserted. • The CH field will display actual performance and setting information instead of in the WIRELESS SETUP menu. • An icon is displayed to the left of the device SSID connected to the projector.

(continued on next page)



Item	Description	
WIRED SETUP	<p>Select this to display the WIRED SETUP menu for the wired LAN. Use the ▲/▼ buttons to select an item, and the ► or ENTER button on the remote control to perform the item.</p>	
	<p>DHCP (Dynamic Host Configuration Protocol)</p>	<p>Use the ▲/▼ buttons to turn DHCP on/off. ON ⇄ OFF</p> <p>Select OFF when the network does not have DHCP enabled. To save the setting, press the ► button.</p> <ul style="list-style-type: none"> • When the DHCP setting changes to ON, it will take some time to obtain IP address from DHCP server. • Auto IP function will be assigned an IP address if the projector could not obtain an IP address from server even if DHCP is ON.
	<p>IP ADDRESS</p>	<p>Use the ▲/▼/◀/▶ buttons to enter the IP ADDRESS. This function can only be used when DHCP is OFF.</p> <ul style="list-style-type: none"> • The IP ADDRESS is the number that identifies this projector on the network. You cannot have two devices with the same IP ADDRESS on the same network. • The IP ADDRESS 0.0.0.0 is prohibited.
	<p>SUBNET MASK</p>	<p>Use the ▲/▼/◀/▶ buttons to enter the same SUBNET MASK used by your computer. This function can only be used when DHCP is OFF.</p> <ul style="list-style-type: none"> • The SUBNET MASK 0.0.0.0 is prohibited.
	<p>DEFAULT GATEWAY</p>	<p>Use the ▲/▼/◀/▶ buttons to enter the DEFAULT GATEWAY (a node on a computer network that serves as an access point to another network) address. This function can only be used when DHCP is OFF.</p>
	<p>DNS SERVER</p>	<p>Use the ▲/▼/◀/▶ buttons to input the DNS server address. The DNS server is a system to control domain names and IP addresses on the Network.</p>



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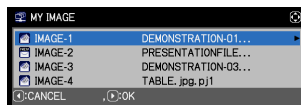
Item	Description	
WIRED SETUP (continued)	TIME DIFFERENCE	Use the ▲/▼ buttons to enter the TIME DIFFERENCE. Set the TIME DIFFERENCE to match your computer. If you are unsure what to enter, contact your IT manager. Use the ► button to return to the menu after setting TIME DIFFERENCE. <ul style="list-style-type: none">When this item is set, TIME DIFFERENCE in the WIRED SETUP menu will be overwritten with the same setting (📘77).
	DATE AND TIME	Use the ▲/▼/◀/► buttons to enter the Year (last two digits), Month, Date, Hours and Minutes. <ul style="list-style-type: none">When this item is set, TIME DIFFERENCE in the WIRED SETUP menu will be overwritten with the same setting (📘78).The projector will override this setting and retrieve DATE AND TIME information from the Time server when SNTP is enabled. (📘3.1.8 Date/Time Settings in the Network Guide)If STANDBY MODE in the SETUP menu is set to SAVING and the projector is turned off (or AC power is turned off), this setting will be reset. (📘56).
WIRED INFORMATION	<p>Select this to display the WIRED INFORMATION dialog to view the wired LAN settings.</p> <div></div> <p>• For more details about PASSCODE, refer to the LiveViewer manual.</p> <p>• Only the first 16 characters of the PROJECTOR NAME are displayed.</p> <p>• IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY indicate 0.0.0.0 when DHCP is ON and the projector has not received an address from DHCP server.</p>	

(continued on next page)

Item	Description
PROJECTOR NAME	<p>(1) Use the ▲/▼ buttons on the NETWORK menu to select the PROJECTOR NAME and press the ► button. The PROJECTOR NAME dialog will be displayed.</p> 
	<p>(2) The current PROJECTOR NAME will be displayed on the first 3 lines. A projector name will be pre-assigned by default. Use the ▲/▼/◀/► buttons and the ENTER or INPUT button to select and enter characters. To erase 1 character at one time, press the RESET button or press the ◀ and INPUT button simultaneously. Also if you highlight DELETE or ALL CLEAR and push the ENTER or INPUT button, you can erase one character or all characters at a time. The PROJECTOR NAME can be up to 64 characters.</p>
	<p>(3) To change an existing character, press the ▲/▼ button to move the cursor to one of the first 3 lines, and use the ◀/► buttons to highlight the character to be changed. After pressing the ENTER or INPUT button, the character is selected. Then, repeat item (2) above.</p> 
	<p>(4) To finish entering text, move the cursor to OK and press the ►, ENTER or INPUT button. To revert to the previous PROJECTOR NAME without saving changes, move the cursor to CANCEL and press the ◀, ENTER or INPUT button.</p>

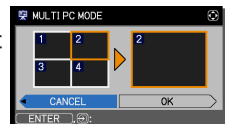
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Item	Description
MY IMAGE	<p>Select this to display the MY IMAGE menu.</p> <p>Use the application to transfer the image data. It can be downloaded from the InFocus website. (www.infocus.com/support).</p> <p>Use the ▲/▼ buttons to select a still MY IMAGE image (4. My Image Function in the Network Guide) and the ► or ENTER button to display the image.</p> <ul style="list-style-type: none"> • If no images have been saved, you cannot select an image. • Only 16 characters of the image names can be displayed. <p>To switch the displayed image Use the ▲/▼ buttons.</p> <p>To return to the menu Press the ◀ button on the remote control.</p> <p>To erase the displayed image and its source file in the projector. (1) Press the RESET button on the remote control while displaying the image in the MY IMAGE DELETE menu.</p> <p>(2) Press the ► button to perform to erase. To keep the image, press the ◀ button.</p>
AMX D.D. (AMX Device Discovery)	<p>Use the ▲/▼ buttons to turn the AMX Device Discovery on/off. ON ⇌ OFF</p> <p>When ON is selected, the projector can be detected by AMX controllers connected to the same network. More information about AMX Device Discovery, visit the AMX website. <u>URL: http://www.amx.com/</u> (as of Feb. 2012)</p>

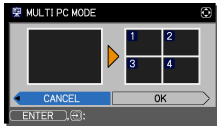




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Item	Description	
PRESENTATION	<p>Select this to display the PRESENTATION menu. Use ▲/▼ buttons to select one of the following items, then press ► or the ENTER button to use the function.</p> <ul style="list-style-type: none"> To use Network Presentation, an exclusive application, LiveViewer is required. It can be installed from the bundled application CD. You can also download the latest version and relevant information from the InFocus website (www.infocus.com/support). For more details about Network Presentation and instructions to install the LiveViewer, refer to the LiveViewer manual. 	
	QUIT PRESENTER MODE	<p>If you set a computer to Presenter mode while its image is projected, the projector is occupied by the computer and access from any other computer is blocked.</p> <p>Use this function to quit Presenter mode and allow other computers to access the projector.</p> <p>Select this item to display a dialog.</p> <p>Press ► button to choose OK in the dialog.</p> <p>Presenter mode is cancelled and a message is displayed indicating the result.</p> <ul style="list-style-type: none"> To choose a Presenter mode setting, use LiveViewer. <p>For details, refer to the LiveViewer manual.</p>
	MULTI PC MODE	<p>If you set one or more computers to the Multi PC mode on LiveViewer and send their images to the projector, you can select the display mode on the projector from the two options below.</p> <ul style="list-style-type: none"> Single PC mode: displays the image of a single computer on full screen. Multi PC mode: displays up to four computer images by dividing the screen into quarter sections. <p>Select this item to display a dialog.</p> <p>Use the dialog to change the display mode as explained below.</p> <ul style="list-style-type: none"> To change from Multi PC mode to Single PC mode, select one of computers in the dialog using the ▲/▼/◀/▶ buttons and press the ENTER or INPUT button. <p>Press the ► button to choose OK, and then press ENTER or INPUT again. The image for the selected computer is displayed on full screen.</p> <p>(continued on next page)</p>



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Item	Description	
PRESENTATION (continued)	MULTI PC MODE (continued)	<ul style="list-style-type: none"> To change from Single PC mode to Multi PC mode, press ► button to choose OK in the dialog and press the ENTER or INPUT button. The display mode will change. For details on how to switch the display mode to Multi PC mode on your computer, refer to the LiveViewer manual. The Presenter mode setting of the selected computer becomes valid when the display mode is changed to Single PC mode. The Presenter mode setting is unavailable when the display mode changes to Multi PC mode, regardless of the computer settings. For details, refer to the LiveViewer manual. 
	DISPLAY USER NAME	<p>Select this to display the user name. This function helps you identify which computer is sending the current image.</p> <ul style="list-style-type: none"> You can choose a user name for each computer in LiveViewer. For details, refer to the LiveViewer manual.
SERVICE	<p>Executing this item restarts and initializes the network functions. Choose the NETWORK RESTART EXECUTE using the button ►.</p>  <p>Then use the button ► to execute.</p>  <p>When you choose restart, network communication will be cut off. If DHCP is ON, the IP address may change. After selecting NETWORK RESTART EXECUTE, the NETWORK menu may not be available for approximately 30 seconds.</p>	

SECURITY menu

This projector is equipped with security functions.

From the SECURITY menu, you can perform the items shown in the table below.

To use the SECURITY menu: User registration is required before using the security functions.

Enter to the SECURITY menu

1. Press the ► button. The ENTER PASSWORD box will be displayed.
2. Use the ▲/▼/◀/▶ buttons to enter the password. The factory default password is as follows.

IN5132, IN5142: 6007

IN5134, IN5134a, IN5144, IN5144a: 4407

IN5135, IN5145: 6107

This password can be changed (below). Move the cursor to the right side of the ENTER PASSWORD box and press the ► button to display the SECURITY menu.

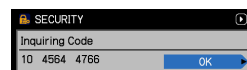
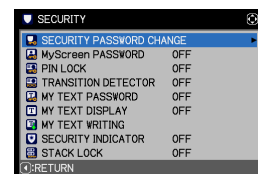
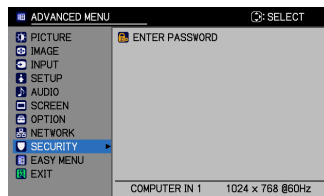
- We strongly recommend changing the factory default password as soon as possible.
 - If an incorrect password is entered, the ENTER PASSWORD box will be displayed again. If an incorrect password is entered 3 times, the projector will turn off. Afterwards the projector will turn off every time an incorrect password is entered.
3. Items shown in the table below can be performed.

If you have forgotten your password

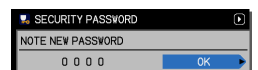
- (1) While the ENTER PASSWORD box is displayed, press and hold the **RESET** button on the remote control for about 3 seconds or press and hold the **INPUT** button for 3 seconds while pressing the ► button on the projector.




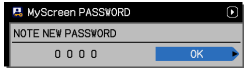

- (2) A 10 digit Inquiring Code will be displayed. Contact your dealer with the 10 digit Inquiring Code. Your password will be sent to you after your user registration has been verified.

- If the Inquiring Code is displayed and no one operates the keys for approximately 55 seconds, the menu will close. If necessary, repeat the process starting from item (1).



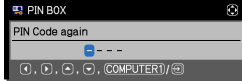
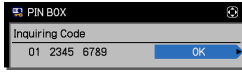


Item	Description
SECURITY PASSWORD CHANGE	<ol style="list-style-type: none"> (1) Use the ▲/▼ buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► button to display the ENTER NEW PASSWORD box. (2) Use the ▲/▼/◀/▶ buttons to enter the new password. (3) Move the cursor to the right side of the ENTER NEW PASSWORD box and press the ► button to display the NEW PASSWORD AGAIN box. Enter the same password again. (4) Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► button and the NOTE NEW PASSWORD box will be displayed for about 30 seconds. Write down the password at this time. Pressing the ENTER button on the remote control or ► button on the projector will close the NOTE NEW PASSWORD box. <ul style="list-style-type: none"> • Do not forget your password.

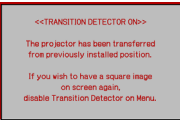






Item	Description
MyScreen PASSWORD	<p>The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the current MyScreen image from being overwritten.</p> <p>1 Turning on the MyScreen PASSWORD</p> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select MyScreen PASSWORD and press the ► button to display the MyScreen PASSWORD on/off menu.</p>  <p>1-2 Use the ▲/▼ buttons on the MyScreen PASSWORD on/off menu to select ON. The ENTER NEW PASSWORD box (small) will be displayed.</p>  <p>1-3 Use the ▲/▼/◀/▶ buttons to enter the password. Move the cursor to the right side of the ENTER NEW PASSWORD box (small) and press the ► button to display the NEW PASSWORD AGAIN box. Enter the same PASSWORD again.</p>  <p>1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► button to display the NOTE NEW PASSWORD box.</p>  <p>This will display for about 30 seconds. Write down the password at this time. Press the ENTER button on the remote control or ► button on the projector to return to the MyScreen PASSWORD on/off menu.</p> <p>When a password is set for MyScreen:</p> <ul style="list-style-type: none"> • The MyScreen registration function (and menu) will be unavailable. • The MyScreen Lock menu will be unavailable. • The START UP setting will be locked on MyScreen (and the menu will be unavailable). <p>Turning the MyScreen PASSWORD off will allow normal operation of these functions.</p> <ul style="list-style-type: none"> • Do not forget your MyScreen PASSWORD. <p>2 Turning off the MyScreen PASSWORD</p> <p>2-1 Follow the procedure in 1-1 to display the MyScreen PASSWORD on/off menu.</p> <p>2-2 Select OFF to display the ENTER PASSWORD box (large). Enter the password and the screen will return to the MyScreen PASSWORD on/off menu.</p>  <p>If an incorrect PASSWORD is entered, the menu will close. If necessary, repeat the process starting from item 2-1.</p> <p>3 If you have forgotten your password</p> <p>3-1 Follow the procedure in 1-1 to display the MyScreen PASSWORD on/off menu.</p> <p>3-2 Select OFF to display the ENTER PASSWORD box (large). A 10 digit Inquiring Code will be displayed inside the box.</p> <p>3-3 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent to you after your user registration has been verified.</p>

(continued on next page)

Item	Description
PIN LOCK	<p>PIN LOCK is a function which prevents the projector from being used unless a registered Code is entered.</p> <p>1 Turning on the PIN LOCK</p> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select PIN LOCK and press the ► button or the ENTER button to display the PIN LOCK on/off menu.</p>  <p>1-2 Use the ▲/▼ buttons on the PIN LOCK on/off menu to select ON and the Enter PIN Code box will be displayed.</p>  <p>1-3 Input a 4 digit PIN code using the ▲/▼/◀/▶, COMPUTER 1 and INPUT buttons. The PIN Code again box will appear. Reenter the same PIN code. This will complete the PIN code registration.</p>  <ul style="list-style-type: none"> • If the Enter PIN Code box or the PIN Code Again box is displayed and no one operates the keys for approximately 55 seconds, the menu will close. If necessary, repeat the process starting from item 1-1. <p>Afterwards, the Enter PIN Code box will display each time AC power has been turned off and the projector is restarted. Enter the registered PIN code. The projector can be used after the correct PIN code has been entered. If an incorrect PIN code is entered, the Enter PIN code box will be displayed again.</p> <p>If an incorrect PIN code is entered 3 times, the projector will turn off. Afterwards the projector will turn off every time an incorrect PIN code is entered. If the Enter PIN code box is displayed and no one operates the keys for approximately 5 minutes, the projector will turn off. This function is activated when AC power to the projector has been turned off and the projector is restarted.</p> <ul style="list-style-type: none"> • Do not forget your PIN code. <p>2 Turning off the PIN LOCK</p> <p>2-1 Follow the procedure in 1-1 to display the PIN LOCK on/off menu.</p> <p>2-2 Use the ▲/▼ buttons to select OFF and the Enter PIN Code box will be displayed.</p> <p>Enter the registered PIN code to turn the PIN LOCK function off.</p> <p>If an incorrect PIN code is entered 3 times, the projector will turn off.</p> <p>3 If you have forgotten your PIN code</p> <p>3-1 While the Enter PIN code box is displayed, press and hold the RESET button for three seconds or press and hold the INPUT button for 3 seconds while pressing the ► button on the projector. A 10 digit Inquiring Code will be displayed.</p>  <ul style="list-style-type: none"> • If the Inquiring Code is displayed and no one operates the keys for approximately 5 minutes, the projector will turn off. <p>3-2 Contact your dealer with the 10 digit Inquiring Code. Your PIN code will be sent to you after your user registration has been verified.</p>

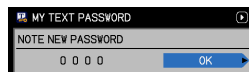
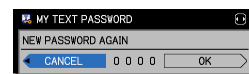
(continued on next page)

Item	Description
TRANSITION DETECTOR	<p>If this function is ON and the projector's vertical angle or INSTALLATION setting is different from the previous recorded setting, the TRANSITION DETECTOR ON alarm will be displayed instead of an input signal.</p> <ul style="list-style-type: none"> • To display the input signal again, turn this function OFF. • The projector will display the TRANSITION DETECTOR ON alarm for approximately 5 minutes and then the lamp will turn off. • The keystone adjustment feature is not available while the Transition Detector function is on. <p>1 Turning on the TRANSITION DETECTOR</p> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select TRANSITION DETECTOR and press the ► or ENTER button to display the TRANSITION DETECTOR on/off menu.</p> <p>1-2 Use the ▲/▼ buttons on the TRANSITION DETECTOR on/off menu to select ON. Selecting ON will save the setting of the current angle and the INSTALLATION setting. The ENTER NEW PASSWORD box (small) will be displayed.</p> <p>1-3 Use the ▲/▼/◀/▶ buttons to enter a password. Move the cursor to the right side of the ENTER NEW PASSWORD box (small) and press the ► button to display the NEW PASSWORD AGAIN box. Enter the same password again.</p> <p>1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► button to display the NOTE NEW PASSWORD box. It will display for about 30 seconds. Write the password down at this time.</p> <p>Press the ENTER button on the remote control or the ► button on the projector to return to the TRANSITION DETECTOR on/off menu.</p> <ul style="list-style-type: none"> • Do not forget your TRANSITION DETECTOR password. • This function will only activate when AC power has been turned off and the projector has been restarted. • If this feature has been turned ON and the projector is on an unstable surface, this feature may not function properly. <p>2 Turning off the TRANSITION DETECTOR</p> <p>2-1 Follow the procedure in 1-1 to display the TRANSITION DETECTOR on/off menu.</p> <p>2-2 Select OFF to display the ENTER PASSWORD box (large). Enter the password and the screen will return to the TRANSITION DETECTOR on/off menu.</p> <p>If an incorrect password is entered, the menu will close. If necessary, repeat the process starting from item 2-1.</p> <p>3 If you have forgotten your password</p> <p>3-1 Follow the procedure in 1-1 to display the TRANSITION DETECTOR on/off menu.</p> <p>3-2 Select OFF to display the ENTER PASSWORD box (large). A 10 digit Inquiring Code will be displayed inside the box.</p> <p>3-3 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent to you after your user registration has been verified.</p>
	
	
	
	
	

Item	Description
MY TEXT PASSWORD	<p>The MY TEXT PASSWORD function can prevent the MY TEXT from being overwritten. When the password is set for the MY TEXT;</p> <ul style="list-style-type: none"> • The MY TEXT DISPLAY menu will be unavailable, which can prohibit changing the DISPLAY setting. • The MY TEXT WRITING menu will be unavailable, which can prevent the MY TEXT from being overwritten.
	<p>1 Turning on the MY TEXT PASSWORD</p> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT PASSWORD and press the ► button to display the MY TEXT PASSWORD on/off menu.</p>
	<p>1-2 Use the ▲/▼ buttons on the MY TEXT PASSWORD on/off menu to select ON. The ENTER NEW PASSWORD box (small) will be displayed.</p>
	<p>1-3 Use the ▲/▼/◀/▶ buttons to enter the password. Move the cursor to the right side of the ENTER NEW PASSWORD box (small) and press the ► button to display the NEW PASSWORD AGAIN box, and then enter the same password again.</p>
	<p>1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press ► button to display the NOTE NEW PASSWORD box for about 30 seconds. Write the password down at this time.</p> <p>Press the ENTER button on the remote control or ► button on the projector to return to the MY TEXT PASSWORD on/off menu.</p> <p>2 Turning off the MY TEXT PASSWORD</p> <p>2-1 Follow the procedure in 1-1 to display the MY TEXT PASSWORD on/off menu.</p> <p>2-2 Select OFF to display the ENTER PASSWORD box (large). Enter the password and the screen will return to the MY TEXT PASSWORD on/off menu.</p> <p>If an incorrect password is entered, the menu will close. If necessary, repeat the process starting from item 2-1</p> <p>3 If you have forgotten your password</p> <p>3-1 Follow the procedure in 1-1 to display the MY TEXT PASSWORD on/off menu.</p> <p>3-2 Select OFF to display the ENTER PASSWORD box (large). A 10 digit inquiring code will be displayed inside the box.</p> <p>3-3 Contact your dealer with the 10 digit inquiring code. Your password will be sent to you after your user registration has been verified.</p>



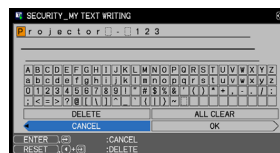
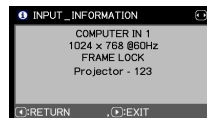
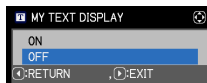
ENTER NEW PASSWORD box (small)



ENTER PASSWORD box (large)

(continued on next page)

Item	Description
MY TEXT DISPLAY	<p>(1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT DISPLAY and press the ► or ENTER button to display the MY TEXT DISPLAY on/off menu.</p> <p>(2) Use the ▲/▼ buttons on the MY TEXT DISPLAY on/off menu to select on or off. ON ⇔ OFF</p> <p>When this is set to ON, the START UP screen will display MY TEXT and when INFORMATION on the SERVICE menu is selected, INPUT_INFORMATION will display.</p> <ul style="list-style-type: none"> • This function is only available when the MY TEXT PASSWORD function is set to OFF.
MY TEXT WRITING	<p>(1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT WRITING and press the ► button. The MY TEXT WRITING dialog will display.</p> <p>(2) The current MY TEXT will be displayed on the first 3 lines. If nothing has been entered yet, the lines will be blank. Use the ▲/▼/◀/▶ buttons and the ENTER or INPUT button to select and enter characters. To erase 1 character at one time, press the RESET button or press the ◀ and INPUT button simultaneously. Also if you highlight DELETE or ALL CLEAR on screen and press the ENTER or INPUT button, you can erase one character or all characters at a time. Up to 24 characters can be entered on each MY TEXT line.</p> <p>(3) To change an existing character, press the ▲/▼ button to move the cursor to one of the first 3 lines, and use the ◀/▶ buttons to highlight the character to be changed. After pressing the ENTER or INPUT button, the character is selected. Then, repeat item (2) above.</p> <p>(4) To finish entering text, move the cursor to OK and press the ►, ENTER or INPUT button. To revert to the previous MY TEXT without saving changes, move the cursor to CANCEL and press the ◀, ENTER or INPUT button.</p> <ul style="list-style-type: none"> • The MY TEXT WRITING function is only available when the MY TEXT PASSWORD function is OFF.





(continued on next page)

Item	Description
SECURITY INDICATOR	<p>Select this to display the SECURITY INDICATOR dialog. Use the ▲/▼ buttons to select ON or OFF.</p> <p>ON ⇄ OFF</p> <p>When PIN LOCK or TRANSITION DETECTOR is ON and this is turned ON, the SECURITY indicator blinks yellow in the standby mode (📖 89, 90).</p>
STACK LOCK	<p>Select this to display the STACK LOCK dialog. For more information, see the Instant Stack Guide.</p>

Presentation tools

The projector has the following convenient tools that enable on-screen presentations easily and quickly:




- PC-LESS Presentation ( **below**)
- USB Display ( **104**)
- Network Presentation

For more details about Network Presentation, refer to the **Network Guide** and the LiveViewer manual.

PC-LESS Presentation


PC-LESS Presentation reads image and audio data from a storage media device inserted into the **USB TYPE A** ports and displays images in the following modes. PC-LESS Presentation can be started by selecting the **USB TYPE A** as the input source.

This feature allows you to make your presentations without your computer.

- Thumbnail mode ( **95**)
- Full Screen mode ( **99**)
- Slideshow mode ( **101**)

[Supported storage media]

- USB memory (USB memory type, USB hard disk and USB card reader type)

NOTE • Some USB memory devices and/or USB hubs may not operate properly.
• USB devices with security software may not work.
• Be careful when inserting or removing a USB device. ( **12, 97**)

[Supported format]

- FAT12, FAT16 and FAT32

NOTE • NTFS is not supported.

[Supported file format and its extension]

- | | |
|----------------------|---|
| • JPEG (.jpeg, .jpg) | * Progressive is not supported. |
| • Bitmap (.bmp) | * 16bit mode and compressed bitmap is not supported. |
| • PNG (.png) | * Interlace PNG is not supported. |
| • GIF (.gif) | |
| • Movie (.avi, .mov) | * Supported video format: Motion-JPEG |
| | Supported audio format: WAV (Linear PCM, Stereo 16bit), IMA-ADPCM |

(continued on next page)

PC-LESS Presentation (continued)

NOTE • Files with a resolution larger than the following are not supported.

IN5132, IN5142: 1024 x 768 (Still), 768 x 576 (Movie)

IN5134, IN5134a, IN5144, IN5144a: 1280 x 800 (Still), 768 x 576 (Movie)

IN5135, IN5145: 1920 x 1200 (Still), 768 x 576 (Movie)

(* Some computers may not support these resolutions.)

- Files with a resolution smaller than 36 x 36 are not supported.
- Files with a resolution smaller than 100 x 100 may not be displayed.
- Movie images with a frame rate higher than 15 fps cannot be displayed.
- Movie images with a bit rate higher than 20 Mbps cannot be displayed.
- Some supported files may not be displayed.
- Only a frame appears when the image data content cannot be displayed in the Thumbnail mode.
- Even with the file format and audio format combinations described above, playback of some files may fail.

Thumbnail Mode

The Thumbnail mode displays the images saved in a USB storage device on the Thumbnail screen. A maximum of 20 images can be displayed on a screen. After you select some images in the Thumbnail mode, you can jump into Full Screen mode or Slideshow mode if desired.

Thumbnail mode will start automatically when the **USB TYPE A** source is selected.



PC-LESS Presentation (continued)**Button Operation**

You can control the images on the Thumbnail screen with the remote control, control panel or Web Remote Control. The following functions can be supported while the Thumbnail screen is displayed.

Button operation			Functions
Remote control	Control panel	Web Remote Control	
▲/▼/◀/▶	▲/▼/◀/▶	[▲]/[▼]/[◀]/[▶]	Moves the cursor.
PAGE UP PAGE DOWN	-	[PAGE UP] [PAGE DOWN]	Switches pages.
ENTER	INPUT	[ENTER]	<ul style="list-style-type: none"> Displays the selected image on the Full Screen mode when a cursor is on a Thumbnail image. Displays the SETUP menu (📖 <i>below</i>) for the selected image when a cursor is on a Thumbnail image number.





The SETUP menu for the selected image

Item	Functions
SETUP	Use the ◀/▶ cursor buttons to switch each setting or use the ► cursor button to perform the functions as follows.
RETURN	Press the ► cursor button or ENTER to return to the Thumbnail screen.
START	Switch to ON to set the selected image as the first image in the Slideshow. This setting information will be saved in the playlist.txt file (📖 <i>103</i>).
STOP	Switch to ON to set the selected image as the last image in the Slideshow. This setting information will be saved in the playlist.txt file (📖 <i>103</i>).
SKIP	Switch to ON to skip the selected image in the Slideshow. This setting information will be saved in the playlist.txt file (📖 <i>103</i>).
ROTATE	Press the ► cursor or the ENTER button to rotate the selected still image 90 degrees clockwise. This setting information will be saved in the playlist.txt file (📖 <i>103</i>).

PC-LESS Presentation (continued)

Thumbnail Menu Operation





You can also control the images by using the Thumbnail screen menu.

Item	Functions
	Moves to an upper folder.
SORT	Allows you to sort files and folders as following.
RETURN	Press the ► cursor button or ENTER to return to the Thumbnail screen.
NAME UP	Sorts in ascending order by file name.
NAME DOWN	Sorts in descending order by file name.
DATE UP	Sorts in ascending order by file date.
DATE DOWN	Sorts in descending order by file date.
▲/▼	Go to previous / next page.
SLIDESHOW	Configures and starts the Slideshow ( 101).
RETURN	Press the ► cursor button or ENTER to return to the Thumbnail screen.
PLAY	Press the ► cursor button or ENTER to start the Slideshow.
START	Sets the beginning number of the Slideshow.
STOP	Sets the end number of the Slideshow.
INTERVAL	Sets the time intervals for displaying still images during the Slideshow. Do not set the time intervals too short (such as several seconds), because it may take more than several seconds to read and display an image file, especially if it is in a very deep level of the directory or there are a lot of files saved in the same directory.
PLAY MODE	Selects the Slideshow mode. <u>ONE TIME</u> : Play the Slideshow one time. <u>ENDLESS</u> : Play the Slideshow continuously.
INPUT	Switches the input port.
MENU	Displays the menu.
REMOVE USB	Be sure to use this function before removing the USB storage device from the projector. If you do not do this, the projector will not recognize any USB storage devices until you insert it again into the USB TYPE A port.
 / 	Turns the sound on/off for files containing audio data.

(continued on next page)

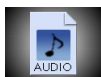
PC-LESS Presentation (continued)

NOTE • These operations are not accessible when the projector OSD is displayed.

- The Thumbnail mode is able to display up to 20 files in a page.
- When a Thumbnail screen, Slideshow, or Full Screen image is displayed, you cannot change the input port using the **INPUT** button.
- When playing back audio data included in a movie, the image quality may deteriorate. If you want the image quality to have priority, turn the sound off by setting  to off.
- If one of the **AUDIO IN** ports is selected or  is selected for USB TYPE A in AUDIO SOURCE of the AUDIO menu ( 57),  cannot be operated.
- Some error icons may be displayed on the Thumbnail screen.



————— This file seems to be broken or not supported format.



} A file that cannot be displayed on the Thumbnail screen is indicated by a file format icon.

PC-LESS Presentation (continued)

Full Screen Mode

The Full Screen mode shows a full display image. To display in Full Screen mode, select an image in the Thumbnail screen. Then press the **ENTER** button on the remote control, the **INPUT** button on the control panel or click **[ENTER]** on the Web Remote Control.



Full screen display

Operations for still images

When a still image is displayed, the following operations will occur in Full Screen mode.

Button operation			Functions
Remote control	Control panel	Web Remote Control	
▼ ▶ or PAGE DOWN	▼ or ▶	[▼] [▶] or [PAGE DOWN]	Shows the next file.
▲ ◀ or PAGE UP	▲ or ◀	[▲] [◀] or [PAGE UP]	Shows the previous file.
ENTER	INPUT	[ENTER]	Displays a Thumbnail.

PC-LESS Presentation (continued)**Operations for movie**

When a movie is playing in Full Screen mode, you can press one of the cursor buttons, the **ENTER** or the **INPUT** button on the remote control, control panel or Web Remote Control to display a remote control icon and progress bar. The following operations are available when the remote control icon and progress bar are displayed.



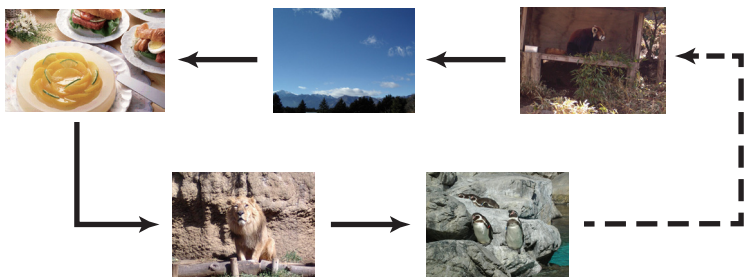
Button operation			Functions
Remote control	Control panel	Web Remote Control	
▲	▲	[▲]	(Play) / (Pause) toggle
▶	▶	[▶]	(FF) Fast-forward
◀	◀	[◀]	(REW) Fast-rewind
ENTER	INPUT	[ENTER]	(Stop), Displays a Thumbnail.
PAGE DOWN	–	[PAGE DOWN]	Shows the next file.
PAGE UP	–	[PAGE UP]	Shows the previous file.

NOTE • These operations are not available when the projector OSD is displayed.
 • When a Thumbnail screen, Slideshow, or Full Screen image is displayed, you cannot change the input port using the INPUT button

PC-LESS Presentation (continued)

Slideshow Mode

The Slideshow mode displays images in full screen and changes the images based on the timing chosen in INTERVAL on the Thumbnail menu (📖97).



You can start this function from the Slideshow menu. To display the Slideshow menu, select the SLIDESHOW button in the Thumbnail menu and press the **ENTER** button on the remote control or **INPUT** button on the control panel, or click **[ENTER]** on the Web Remote Control.

Button Operation

When the Slideshow is displaying still images, the following button operations are available. The same button operations are available when movies are displayed in Full Screen mode.

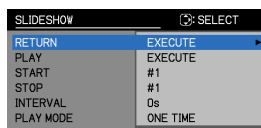
Button operation			Functions
Remote control	Control panel	Web Remote Control	
ENTER	INPUT	[ENTER]	Displays Thumbnail.

NOTE • These operations are not available when the projector OSD is displayed.

- When a Thumbnail screen, Slideshow, or Full Screen image is displayed, you cannot change the input port using the INPUT button
- When the Slideshow mode is ONE TIME and the last file is a still image, that image will remain displayed until the **ENTER** button on the remote control or Web Remote Control, or the **INPUT** button on the control panel is pressed.

PC-LESS Presentation (continued)**Operating by SLIDESHOW in the Thumbnail menu**

You can customize your Slideshow. Configure the SLIDESHOW item in the Thumbnail menu ( 97).



Item	Functions
SLIDESHOW	
RETURN	Returns to the Thumbnail mode.
PLAY	Play the Slideshow.
START	Sets the beginning Slideshow slide
STOP	Sets the ending Slideshow slide.
INTERVAL	Sets the time intervals for displaying still images during the Slideshow. Do not set the time intervals too short (such as several seconds), because it may take more than several seconds to read and display an image file, especially if it is in a very deep level of the directory or there are a lot of files saved in the same directory
PLAY MODE	Selects the Slideshow mode. <u>ONE TIME</u> : Play the Slideshow one time. <u>ENDLESS</u> : Play the Slideshow continuously.

NOTE • The Slideshow settings are saved to the **playlist.txt** file on the storage media. If the file does not exist, it will be generated automatically.

- The settings for START, STOP, INTERVAL, and PLAY MODE are saved to the Playlist.
- If the storage media is write-protected or the **playlist.txt** is a read-only file, it will be impossible to change the **Slideshow settings**.

PC-LESS Presentation (continued)**Playlist**

The Playlist is a DOS format text file, which decides the order to display still image files in the Thumbnail mode or in Slideshow.

The playlist file name is **playlist.txt** and it can be edited on a computer.

When a PC-LESS Presentation is started or a Slideshow is configured, the file is created in a folder that contains the selected image files.

[Example of playlist.txt files]

START setting : STOP setting : INTERVAL setting : PLAY MODE setting :

img001.jpg: : :

img002.jpg:600: : :

img003.jpg:700:rot1: :

img004.jpg: : :SKIP:

img005.jpg:1000:rot2:SKIP:

The **playlist.txt** file contains the following information.

Each piece of information requires to be separated by “:”, and “.” at the end of each line.

1st line: START, STOP, INTERVAL and PLAY MODE settings (📖97).

2nd and subsequent lines: file name, time intervals, rotation setting and skip setting.

time intervals: They can be set from 0 to 999900 (ms) with an increment of 100 (ms).

rotation setting: “rot1” means a rotation at 90 degrees clockwise; “rot2” and “rot3” increase another 90 degrees in order.

skip setting: “SKIP” means that the image will not be displayed in the Slideshow.

NOTE • The maximum length in a line on the **playlist.txt** file is 255 characters including linefeeds. If any line exceeds the limit, the **playlist.txt** file becomes invalid.

- Up to 999 files can be registered to the Playlist. However, if folders exist in the same directory, the number of files decreases based on the number of folders. Any files over the limit will not be shown in the Slideshow.

- If the storage device is protected or does not have sufficient space, the **playlist.txt** file cannot be created.

- For the Slideshow settings, refer to the **Slideshow mode** (📖101) section.

USB Display

The projector can display images transferred from a computer via a USB cable (📖11).

NOTE • When the computer resolution is greater than the projector specifications, the projector will shrink the computer image to the size specified below before it displays the image.

IN5132, IN5142: 1024 x 768 (XGA)

The other models: 1280 x 800

Even if the native projector resolution is higher than above, the transferred image will be displayed in the smaller resolution. If your computer does not support the display resolution specified above, then the the largest compatible resolution will be selected.

Hardware and software requirement for computer

- **OS:** One of the following. (32 bit version only)
 - Windows[®] XP Home Edition /Professional Edition
 - Windows Vista[®] Home Basic /Home Premium /Business /Ultimate /Enterprise
 - Windows[®] 7 Starter /Home Basic /Home Premium /Professional / Ultimate / Enterprise
- **CPU:** Pentium 4 (2.8 GHz or higher)
- **Graphic card:** 16 bit, XGA or higher
- **Memory:** 512 MB or higher
- **Hard disk space:** 30 MB or higher
- **USB(A) Port**
- **USB cable** : 1 piece

USB Display (continued)

Starting USB Display


Set the USB TYPE B to USB DISPLAY in the OPTION menu. When you connect your computer to the projector's **USB TYPE B** port using a USB cable, the projector will be recognized as a CD-ROM drive by your computer. The embedded software, "LiveViewerLiteForUSB.exe", will run automatically and the application, "LiveViewer Lite for USB", will be available on your computer for USB Display. The application, "LiveViewer Lite for USB", will automatically close when the USB cable is unplugged.

NOTE • If the software does not start automatically (this typically happens when the CD-ROM autorun function is disabled on your operating system), follow the instructions below.

(1) Click on the toolbar [Start] button and select "Run"

(2) Enter F:\LiveViewerLiteForUSB.exe and then press the [OK]

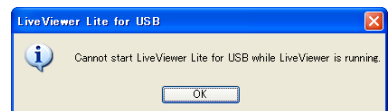
▲ If your CD-ROM drive is not drive F on your computer, you will need to replace F with the correct drive letter assigned to your CD-ROM drive.


- CD-ROM autorun is disabled when the screensaver is running.
- When a password-protected screensaver is running, image transmissions from the computer are suspended. To resume transmissions, exit the screensaver.
- Check our website for the latest software version and its manual. ( **User's Manual (concise)**). Follow the update instructions on the website.

Once this application starts, it will appear as an icon in the Windows notification area. You can exit the application from your computer by selecting QUIT on the menu.



NOTE • LiveViewer (refer to the **Network Guide**) and this application cannot be used simultaneously. If you connect your computer to the projector using a USB cable while LiveViewer is running, the following message will be displayed.

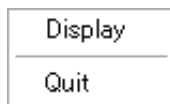


- Depending your computer's software, not all of the images on your computer may be able to be transferred using "LiveViewer Lite for USB".
- If your computer has applications with firewall functions, disable the firewall according to the user's manual.
- Some security software may block image transmission. Change the software security settings to allow the use of "LiveViewer Lite for USB".
- If the audio input from **USB TYPE B** ( **57**) is selected and the sound level is still low despite maximizing the projector's volume level, check your computer audio settings and raise the volume level accordingly.

USB Display (continued)

Right-Click menu

The menu shown on the right is displayed when you right-click the application icon in the Windows notification area.



Display : A floating menu is displayed, and the icon disappears from the Windows notification area.

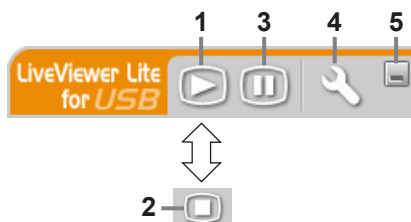
Quit : The application is closed, and the icon disappears from the Windows notification area.



NOTE • If you wish to restart the application, you need to unplug the USB cable and plug it again.

floating menu

If you select “Display” on the Right-Click menu, the floating menu shown in the right will appear on your computer screen.



1 Start capture button

Transmissions will start and images will be displayed on the projector.

2 Stop capture button

Image transmission is stopped.

3 Hold button

The image on the projector's screen is temporarily frozen. The last image before the button is clicked remains on the screen. You can revise the image data on your computer without showing it on the projector's screen.

4 Option button

The Options window is displayed.

5 Minimize button

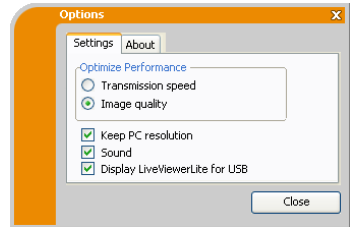
The floating menu is closed, and the icon reappears in the Windows notification area.

NOTE • If the start/stop capture buttons are clicked repeatedly, images may not be displayed on screen.

USB Display (continued)

Options window

If you select the Option button on the floating menu, the Options window is displayed.



Optimize Performance

The “LiveViewer Lite for USB” captures screenshots as JPEGs and sends them to the projector.

The “LiveViewer Lite for USB” has two compression rates for JPEG data.

Transmission speed

Speed takes priority over image quality.

This makes the JPEG compression rate higher. The screen on the projector is rewritten quicker because the transferred data is smaller, but the image quality suffers.

Image quality

Image quality takes priority over transmission speed.

This makes the JPEG compression rate lower. The screen on the projector is rewritten slower because the transferred data is larger, but the image quality is better.

Keep PC resolution

If you remove the checkmark in the [Keep PC resolution] box, your computer's screen resolution will change as per below and your display speed may be faster.

IN5132, IN5142: 1024 x 768 (XGA)

The other models: 1280 x 800

If your computer does not support the display resolution specified above, then the largest compatible resolution will be selected.

Sound

Turns the sound on/off. The image quality may deteriorate when you play back audio data transferred simultaneously with image data. To make the image quality a higher priority, turn off the sound by selecting the checkbox.

Display LiveViewer Lite for USB

If you want to display the “LiveViewer Lite for USB” application window on the screen, check the box.

About

The “LiveViewer Lite for USB” version information

NOTE • When the resolution is changed, the icon arrangement on the computer desktop screen may change.

• If one of the **AUDIO IN** ports is selected or if USB TYPE B is set to ✕ in the AUDIO SOURCE menu (🔊57), audio sound operation in the Options window will be disabled.

Maintenance

Replacing the lamp

A lamp has a finite product life. Using the lamp for long periods of time could cause the pictures to appear darker or the color tone to be poor. Note that each lamp has a different lifetime, and some may rupture or burn out soon after you start using them. We recommended that you keep a spare lamp on hand. Use the part number below when speaking with your dealer.

Part number <IN5132, IN5134, IN5134a, IN5135>: SP-LAMP-080

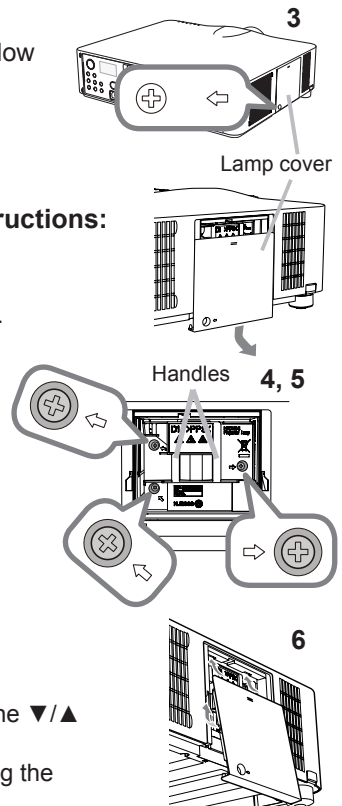
Part number <IN5142, IN5144, IN5144a, IN5145>: SP-LAMP-081

Replacing the lamp

1. Turn the projector off, and unplug the power cord. Allow the projector to cool for at least 45 minutes.
2. If the projector is ceiling mounted, or if the lamp has broken, you can ask the dealer to replace the lamp for you, if desired.

If you replace the lamp yourself, follow these instructions:

3. Loosen the lamp cover screw (marked by arrow) and then slide the lamp cover down and remove the cover.
4. Loosen the 3 lamp screws (marked by arrows), and slowly pull the lamp out by the handles. Never loosen any other screws.
5. Insert the new lamp, and re-tighten the 3 lamp screws firmly to lock the lamp in place.
6. Align the lamp cover with the projector and slide the lamp cover back in place. Then firmly fasten the lamp cover screw.
7. Turn the projector on and reset the lamp time using the LAMP TIME item in the OPTION menu.
 - (1) Press the **MENU** button to display a menu.
 - (2) Highlight the ADVANCED MENU in the menu using the **▼/▲** button, then press the **►** button.
 - (3) Highlight OPTION in the left column of the menu using the **▼/▲** button, then press the **►** button.
 - (4) Highlight LAMP TIME using the **▼/▲** button, then press the **►** button. A dialog will appear.
 - (5) Press the **►** button to select OK on the dialog. The lamp time will be reset.



⚠ CAUTION ► Do not touch the inside of the projector, when the lamp has been removed.

NOTE • Only reset the lamp time the lamp has been replaced in order to maintain accurate lamp information.

Replacing the lamp (continued)

Lamp warning

 **HIGH VOLTAGE**  **HIGH TEMPERATURE**  **HIGH PRESSURE**

⚠ WARNING ► The projector uses a high-pressure mercury glass lamp. The lamp may burn out or rupture with a loud bang if the lamp is jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may rupture or burn out soon after you start using them. In addition, if the bulb ruptures, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury and dust containing fine particles of glass to escape from the projector's vent holes.

► **Regarding lamp disposal:** This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws.

- For lamp recycling, go to www.lamprecycle.org (in the US).
- For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.



Disconnect
the plug
from the
power
outlet

- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.

- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to inhale the gas or fine particles that come out from the projector's vent holes, and not to get them into your eyes or mouth.

- Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as lamp damage.



- Never unscrew except the designated screws (marked by an arrow).
- Do not open the lamp cover while the projector is suspended from a ceiling. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.

- Do not use the projector with the lamp cover removed. When reinstalling the lamp cover, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only specified lamps. Lamps which do not meet lamp specifications for this model could cause a fire, damage or shorten the life of this product.

- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, consult your local dealer or service representative.

- Handle with care: jolting or scratching could cause the lamp bulb to rupture during use.

- Using the lamp for long periods of time can cause the lamp to become dim, not to light up or to rupture. When the pictures appear dark, or when the color tone is poor, please replace the lamp as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

Cleaning and replacing the air filter

Check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, please clean the air filter as soon as possible. The filter unit, which contains 2 sheets of filters, is inside the filter cover. In addition, an extra air filter is attached to inside of the **IN5142**, **IN5144**, **IN5144a** and **IN5145**. filter cover. If one of the filters is damaged or heavily soiled, replace the entire filter unit with a new one.

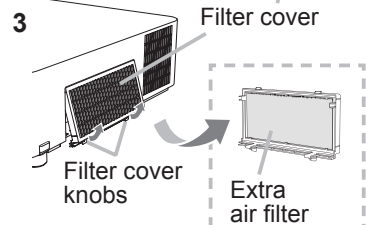
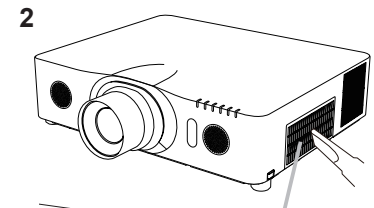
When purchasing a new filter from your dealer, request a filter unit with the following part number:

Part number <IN5132, IN5134, IN5134a, IN5135>: SP-FILTER-02

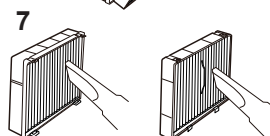
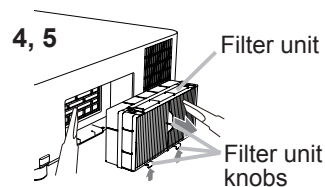
Part number <IN5142, IN5144, IN5144a, IN5145>: SP-FILTER-03

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.
2. Use a vacuum cleaner on and around the filter cover.
3. Pick and pull up on the filter cover knobs to take it off.
4. Press up slightly the bottom side knobs to unlock the bottom side of the filter unit. Pull the center knob to take the filter unit off.
5. Use a vacuum cleaner for the projector filter vent and the outside of the filter unit.
6. The filter unit consists of two parts. Press down around the interlocking parts to unlock it and separate the two parts.
7. Use a vacuum cleaner to clean the inside of each part of the filter unit. If the filters are damaged or heavily soiled, replace them with new ones.
8. Combine the two parts to reassemble the filter unit.
9. Put the filter unit back into the projector.

(continued on next page)



<Only for IN5142, IN5144, IN5144a and IN5145>



Cleaning and replacing the air filter (continued)

10. Put the filter cover back into the place.
11. Turn the projector on and reset FILTER TIME in the EASY MENU.
 - (1) Press the **MENU** button to display a menu.
 - (2) Highlight FILTER TIME using the ▲/▼ cursor buttons, then press the ► cursor (or the **ENTER** / the **RESET**) button. A dialog will appear.
 - (3) Press the ► cursor button to select OK on the dialog. It resets the filter time.

⚠ WARNING ► Before maintaining the air filter, verify the power cable is unplugged, then allow the projector to cool sufficiently.

► Only use the specified air filter. Do not use the projector without an air filter or the filter cover. It could result in a fire or projector malfunction.

► Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, burns or a projector malfunction.

NOTE • Reset the filter time only after you have cleaned or replaced the air filter in order to maintain accurate air filter information.

• The projector may display a message such as the “CHECK THE AIR FLOW” or turn off the projector to prevent the projector from overheating.

Other care

Inside of the projector

In order to ensure the safe use of your projector, have it cleaned and inspected by your dealer annually.

Caring for the lens

If the lens is damaged, soiled or foggy, it could affect the image display quality. Take care of the lens. Handle with care.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After verifying the projector has cooled adequately, lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

Caring for the projector cabinet and remote control

Improper care can cause problems, such as discoloration, peeling paint, etc.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After verifying the projector has cooled adequately, lightly wipe with gauze or a soft cloth.
If the projector is extremely dirty, dip a soft cloth in water or a neutral cleaner diluted in water, wring well and then wipe the projector lightly. Then, wipe lightly with a soft, dry cloth.

⚠ WARNING ► Before caring for your projector, verify the power cord is unplugged, and allow the projector to cool sufficiently. Caring for the projector while it is hot can cause a burn and/or projector malfunction.

► Do not service the inside of the projector personally. Doing is so dangerous.
► Do not get the projector wet or allow liquids to spill into the projector. This can result in a fire, an electric shock, and/or projector malfunction.

- Do not put anything containing water, cleaners or chemicals near the projector.
- Do not use aerosols or sprays.

⚠ CAUTION ► Take good care of the projector by following these instructions. Incorrect care could cause an injury and cause problems such as discoloration, peeling paint, etc.

- Do not use cleaners or chemicals other than those specified in this manual.
- Do not polish or wipe the projector with hard objects.

NOTICE ► Do not touch the lens surface with your hands.

Troubleshooting

If something unusual happens, stop using the projector immediately.

⚠ WARNING ► Never use the projector if something unusual is observed such as smoke, a strange odor, excessive sound, damage to the projector or its accessories, liquids or foreign matter have gotten into the projector, etc. In such cases, immediately disconnect the power plug from the power outlet. After verifying that the smoke or odor has stopped, contact to your dealer or service company.

If a problem occurs with the projector, review the following troubleshooting tips before requesting repair.

If the problem remains unresolved, contact your dealer or service company. They can tell you what your warranty status is.


Warnings displayed on the Status Monitor

<Only for IN5142, IN5144, IN5144a and IN5145>

If an error occurs, a warning will be displayed on the Status Monitor (📖21). Refer to the tables in the sections "Related messages" and "Regarding the indicator lamps".

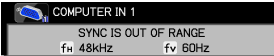


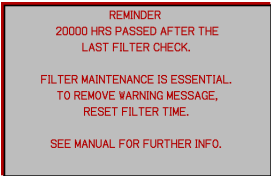

Related messages

When a message appears, review the following troubleshooting tips in the table below. Although these messages will automatically disappear after several minutes, they will be reappear every time the power is turned on.

Message	Description
 COMPUTER IN 1 NO INPUT IS DETECTED	There is no input signal. Confirm the signal input connection, and the status of the signal source.
USB DISPLAY is invalid. Change the setting of USB TYPE B to USB DISPLAY.	The USB TYPE B port is the selected picture input source even if MOUSE is selected for USB TYPE B (📖67). Set USB TYPE B to USB DISPLAY in the OPTION menu. In this case, you will not be able to use the simple mouse and keyboard function. Otherwise select a different port for picture input.
Waiting for connection	Projector is waiting for an image file. Check the hardware connections, projector settings and network-related settings.
Waiting for connection PASSCODE_WIRELESS : 2913-1111-MBGS PASSCODE_WIRED : PB05-3530-SS35 PROJECTOR NAME : Projector_Name	The network connection between the projector and computer may be disconnected. Re-connect them.

(continued on next page)

Related messages (continued)

Message	Description
	<p>The input signal's horizontal or vertical frequency is not compatible with the projector. Verify the specifications for your projector and the signal source.</p>
	<p>An improper signal is input. Verify the specifications for your projector and the signal source.</p>
	<p>The internal temperature is rising. Turn the power off, and allow the projector to cool down at least 20 minutes. After having confirmed the following items, turn the power ON again.</p> <ul style="list-style-type: none"> • Are the vents blocked? • Is the air filter dirty? • Does the peripheral temperature exceed 45°C? • If you are using a IN5132, IN5134, IN5134a or IN5135, does the peripheral temperature exceed 40°C? • Is the ALTITUDE setting appropriate? <p>For more details about ALTITUDE, refer to ALTITUDE in the SERVICE submenu of the OPTION menu (📖69). If the projector has the wrong settings, it may damage the projector itself or the parts inside.</p>
	<p>A note of precaution when cleaning the air filter. Turn the power off immediately, and clean or change the air filter. Refer to the Cleaning and replacing the air filter section of this manual. After you have cleaned or changed the air filter, reset the filter timer (📖67, 110).</p>
	<p>The buttons cannot be operated. Check the button you are going to use (📖6). Even when a usable button is pressed, none of the button operations are available under these conditions:</p> <ul style="list-style-type: none"> - When the lens is moving, button operation from the control panel and remote control may be ignored. - Pressing a source button may be ignored, when all the input ports are set to SKIP in the SOURCE SKIP submenu of the OPTION menu.

Regarding the indicator lamps

When the **LAMP**, **TEMP** and **POWER** indicators are acting unusual, review the following table.

POWER indicator	LAMP indicator	TEMP indicator	Description
Solid Orange	OFF	OFF	The projector is in a standby state. Refer to the section "Power on/off".
Blinking Green	OFF	OFF	The projector is warming up. Please wait.
Solid Green	OFF	OFF	The projector is in an ON state. Normal operations can be performed.
Blinking Orange	OFF	OFF	The projector is cooling down. Please wait.
Blinking Red	(discretionary)	(discretionary)	The projector is cooling down. An error has been detected. Please wait until the POWER indicator finishes blinking, and then follow the directions below.
Blinking or Solid Red	Solid Red	OFF	The lamp does not light, and the inside of the projector may be overheated. Turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has cooled down sufficiently, verify the following items, and then turn the power on again. <ul style="list-style-type: none"> • Are the vents blocked? • Is the air filter dirty? • Does the peripheral temperature exceed 45°C? • If you are using an IN5132, IN5134, IN5134a or IN5135, does the peripheral temperature exceed 40°C? If indicators are doing the same thing, change the lamp according to section Replacing the lamp .
Blinking or Solid Red	Blinking Red	OFF	The lamp cover has not been securely fastened. Turn the power off, and allow the projector to cool down at least 45 minutes. After the projector has cooled down sufficiently, verify the attachment state of the lamp cover. After performing any needed maintenance, turn the power on again. If the indicators are doing the same thing, contact your dealer or service company.

(continued on next page)

Regarding the indicator lamps (continued)

POWER indicator	LAMP indicator	TEMP indicator	Description
<i>Blinking or Solid Red</i>	OFF	<i>Blinking Red</i>	<p>The cooling fan is not operating. Turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has cooled down sufficiently, verify that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the same indication is displayed after this, contact your dealer or service company.</p>
<i>Blinking or Solid Red</i>	OFF	Solid Red	<p>The inside of the projector has possibly become overheated. Turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has cooled down sufficiently, verify the following items, and then turn the power on again.</p> <ul style="list-style-type: none"> • Are the vents blocked? • Is the air filter dirty? • Does the peripheral temperature exceed 45°C? • If you are using the IN5132, IN5134, IN5134a or IN5135, does the peripheral temperature exceed 40°C? • Is the ALTITUDE setting appropriate? <p>For ALTITUDE details, refer to ALTITUDE of SERVICE in the OPTION menu (p.69). If the projector has the wrong settings, it may damage the projector itself or the parts inside.</p>
Solid Green	Simultaneous <i>blinking Red</i>		<p>It is time to clean the air filter. Turn the power off immediately, and clean or change the air filter according to section Cleaning and replacing the air filter. After cleaning or changing the air filter, be sure to reset the filter timer.</p>
Solid Green	Alternative <i>blinking Red</i>		<p>The inside of the projector has possibly become too cold. Use the unit within the usage temperature parameters (0°C to 40°C or 45°C (p.10 User's Manual (concise))). After you are finished, turn the power back on.</p>
Blinking Green for approx. 3 seconds.	OFF	OFF	<p>At least 1 Power ON schedule is saved to the projector. Refer to 3.1.7 Schedule Settings in the Network Guide.</p>

(continued on next page)

Regarding the indicator lamps (continued)

NOTE • When the inside of the projector becomes overheated, the projector will automatically shut down (for safety purposes) and the indicator lamps may also be turned off. In this case, disconnect the power cord, and wait at least 45 minutes. After the projector has cooled down sufficiently, verify the lamp and lamp cover are securely attached, and then turn the power on again.

For the **SECURITY** indicator, see SECURITY INDICATOR in the SECURITY menu (📖93).

For the **SHUTTER** indicator, see the section "Temporarily shutting the screen" (📖36).

The **FILTER** indicator shows the condition of the air filter. Utilize this feature to keep the inside of the projector in good condition.

FILTER indicator	Description
OFF	The air filter is clean. No maintenance is needed.
Solid Orange	The air filter is getting clogged. The filter needs to be cleaned.
Solid Red	The air filter is clogged. You must turn the power off and clean the air filter immediately.

NOTE • The **FILTER** indicator might turn solid orange or red when something blocks the intake vents even though the air filter is clean.
• The **FILTER** indicator might light up differently from other indicators or display messages related to cleaning the air filter. Follow the messages that are displayed earlier.

Resetting all settings

When it is difficult to correct all of the menu settings, FACTORY RESET in the SERVICE item of the OPTION menu (📖75) can be used to reset all settings (except LANGUAGE, LAMP TIME, FILTER TIME, FILTER MESSAGE, STANDBY MODE, COMMUNICATION, SECURITY and NETWORK) to their factory defaults.

Problems that can be easily mistaken for machine defects

Before assuming that the projector needs repair, review the following troubleshooting tips:

Situation	Troubleshooting tips	Reference page
Power does not come on.	The electrical power cord is unplugged. Connect the power cord correctly.	16
	The main power source was interrupted (for example a power outage (blackout), etc.). Disconnect the power plug from the power outlet, and allow the projector to cool down at least 10 minutes, then turn the power on again.	16
	Either there is no lamp and/or lamp cover, or one of these has not been securely fastened. Turn the power off and disconnect the power plug from the power outlet, and allow the projector to cool down at least 45 minutes. After the projector has cooled down sufficiently, verify the lamp and lamp cover are securely attached, and then turn the power on again.	108
No sounds or pictures are outputted.	The signal cables are not correctly connected. Correctly connect the connection cables.	10 ~ 14
	Signal source does not correctly work. Set up the signal source device correctly by referring to the source device manual.	—
	The input changeover settings are mismatched. Select the input signal, and correct the settings.	26
	AV MUTE function is working. Press AV MUTE button on the remote control.	25
	The USB TYPE B port is the selected picture input source even if MOUSE is selected for USB TYPE B. Set USB TYPE B to USB DISPLAY in the OPTION menu to project the picture input to the port. Otherwise select a different port for picture input.	67
	The USB TYPE B port is not recognized as an input port because of electrical noise. Temporarily set USB TYPE B to MOUSE in the OPTION menu, and then change it back to USB DISPLAY, so the projector recognizes the USB TYPE B port as an input port.	67

(continued on next page)

Problems that can be easily mistaken for machine defects (continued)

Situation	Troubleshooting tips	Reference page
No sounds or pictures are outputted. (continued)	The projector does not recognize the USB storage device inserted into USB TYPE A ports. Select REMOVE USB and then remove the USB storage device. Insert it back into the port again. Before removing the USB storage device, be sure to use the REMOVE USB function on the Thumbnail screen, which appears when the USB TYPE A is the selected input source.	12, 97
Sound does not come out.	The signal cables are not correctly connected. Correctly connect the audio cables.	10 ~ 14
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu system or the remote control.	25, 57
	The AUDIO SOURCE/SPEAKER setting is not correct. Correctly set the AUDIO SOURCE/SPEAKER in AUDIO menu.	57
	The mode selected for HDMI AUDIO is not appropriate. Check each of the two modes provided and select the appropriate one for your HDMI™ audio device.	58
	The Sound button (J) or checkbox is disabled. If you have selected USB TYPE A , turn the sound on from the Thumbnail menu. If you have selected USB TYPE B , remove the checkmark from the Sound checkbox in the Options window of "LiveViewer Lite for USB". If you have selected LAN , remove the checkmark from the Sound checkbox in the Option menu of LiveViewer.	97, 107
No pictures are displayed.	The signal cables are not correctly connected. Correctly connect the signal cables.	10 ~ 14
	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu system.	44
	The computer cannot detect the projector as a plug and play monitor. Make sure the computer can detect a plug and play monitor using another plug and play monitor.	10
	The lens shutter is closed. Check whether the SHUTTER indicator is blinking. If it is blinking, press the SHUTTER button on the control panel.	36

(continued on next page)

Problems that can be easily mistaken for machine defects (continued)

Situation	Troubleshooting tips	Reference page
The remote control does not work.	The batteries in the remote control are almost dead. Replace the batteries.	17
	The ID numbers set in the projector and the remote control are different. Press the ID button with the same ID number as the projector, then perform the desired operation. The ID number associated with the projector will display for 3 seconds when any of the ID buttons on the remote control are pressed.	17
Video screen display freezes.	The FREEZE function is working. Press the FREEZE button to restore the screen to normal.	36
Colors have a faded- out appearance, or color tone is poor.	Color settings are not adjusted correctly. Change the COLOR TEMP, COLOR and/or TINT settings, using the menu system.	45
	COLOR SPACE settings are not correct. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	50
Pictures appear dark.	The brightness and/or contrast are adjusted to an extremely low level. Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu system.	44
	The projector is operating in Eco mode. Set ECO MODE to NORMAL and AUTO ECO MODE to OFF, in the SETUP menu.	55
	The lamp is approaching the end of its product life. Replace the lamp.	108, 109
Pictures appear blurry.	The lens cover is attached. Remove the lens cover.	4
	Either the focus and/or horizontal phase settings are not properly adjusted. Adjust the focus using the FOCUS + / - buttons, and/or H PHASE using the menu system.	29, 49
	The lens is dirty or misty. Clean the lens. Refer to the Caring for the lens section.	112

(continued on next page)

Problems that can be easily mistaken for machine defects (continued)

Situation	Troubleshooting tips	Reference page
Some kind of image degradation such as flickering or stripes appear on screen.	When the projector is operating in Eco mode, flickering may appear on screen. Set ECO MODE to NORMAL, and set AUTO ECO MODE to OFF, in the SETUP menu.	55
	The OVER SCAN ratio is too big. Adjust OVER SCAN smaller in the IMAGE menu.	48
	Excessive VIDEO NR. Change the VIDEO NR setting in the INPUT menu.	50
	The FRAME LOCK function cannot work with the current input signal. Set FRAME LOCK to OFF in the INPUT menu.	52
The sound or image is unstable or is output intermittently.	When LAN, USB TYPE A or USB TYPE B port is selected, some parts of the output may be missing due to signal processing delay. Change the signal or use another port.	26, 57
The computer connected to the USB TYPE B port of the projector does not start up.	The computer cannot start up in the current hardware configuration. Disconnect the USB cable from the computer, then reconnect it after the computer has been restarted.	11, 12
RS-232 does not work.	The SAVING function is working. Set STANDBY MODE to NORMAL in the SETUP menu.	56
	The COMMUNICATION TYPE for the CONTROL port is set to NETWORK BRIDGE. Set COMMUNICATION TYPE to OFF in the OPTION - SERVICE - COMMUNICATION menu.	72
Network does not work	The SAVING function is working. Set STANDBY MODE to NORMAL in the SETUP menu.	56
	The same network address is set for both wireless and wired LAN. Change the network address setting for wireless or wired LAN.	77, 81

(continued on next page)

Problems that can be easily mistaken for machine defects (continued)

Situation	Troubleshooting tips	Reference page
NETWORK BRIDGE function does not work	The NETWORK BRIDGE function is turned off. Set COMMUNICATION TYPE to NETWORK BRIDGE in the OPTION - SERVICE - COMMUNICATION menu.	72
Schedule function does not work	The SAVING function is working. Set STANDBY MODE to NORMAL in the SETUP menu.	56
	The internal clock has been reset. If the projector is in SAVING mode and the projector is turned off (or AC power is turned off), the current date and time setting has been reset. Check the DATE AND TIME settings for WIRELESS SETUP or WIRED SETUP in the NETWORK menu.	78, 82
<p>When the projector is connected to the network, it powers off and on as described below.</p> <p>Powers off ←</p> <p>↓</p> <p>POWER</p> <p>indicator blinks orange several times</p> <p>↓</p> <p>Goes into standby mode</p>	<p>Disconnect the LAN cable and check that the projector is working properly.</p> <p>If this situation occurs after connecting to the network, there may be a loop between two Ethernet switching hubs within the network, as explained below.</p> <ul style="list-style-type: none"> - There are two or more Ethernet switching hubs in the network. - Two of the hubs are connected twice by LAN cables. - This double connection forms a loop between the two hubs. <p>Such a loop may have an adverse effect on the projector as well as other network devices.</p> <p>Check the network connection and remove the loop by disconnecting the LAN cables so that there is only one connecting cable between the two hubs.</p>	—

NOTE • Although bright or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and it does not constitute or imply a machine defect.

Specifications

See **Specifications** in the **User's Manual (concise)**.

End User License Agreement for the Projector Software

- The projector software contains several independent software modules and there are copyright or/and third party copyrights for each of these software modules.
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