

# Projector

## IN5542/IN5542c/IN5544/IN5544c

### User's Manual (concise)

#### Thank you for purchasing this product.

Before using this product, please read through this manual in order to use this product well and safely.

#### 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.

#### WARNING

- Read all the manuals before using the product. Keep the manuals in a safe place for future reference.
- Heed all warnings and cautions in the manuals and on the product.
- Follow all the instructions in the manuals and on the product.

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# 1. First of all

## 1.1 Entries and graphical symbols explanation

The following entries and graphical symbols are used for the manuals and the product as follows, for safety purpose. Please know their meanings beforehand, and heed them.

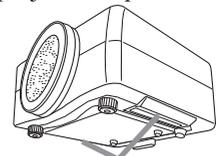
- ⚠ WARNING** This entry warns of a risk of serious personal injury or even death.
- ⚠ CAUTION** This entry warns of a risk of personal injury or physical damage.
- NOTICE** This entry notices of fear of causing trouble.

## 1.2 Important safety instruction

The following instructions are important to safely use the product. Always follow them when handling the product.

### ⚠ WARNING

- Never use the product in or after an abnormality (ex. the projector smokes, smells strange, has liquid or an object inside, or is broken, etc.) If an abnormality should occur, unplug the projector immediately.
- Keep the product away from children and pets.
- Do not use the product when there is the possibility of thunder or lightening.
- Unplug the projector from the power outlet if the projector is not used for an extended period of time.
- 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 it. For internal maintenance, leave it to your dealer or their service personnel.
- Use only the accessories specified or recommended by the manufacturer.
- Do not modify the projector or its accessories.
- Do not let liquid or other items enter inside the projector.
- Do not let the product get wet.
- Do not shock or apply pressure to this product.
  - Do not place the product on an unstable surface such as an uneven surface or leaning table.
  - Do not place the product where it is unstable. Place the projector so that it (even the lens part installed) does not protrude from the surface where the projector is placed on.
  - Always move the projector with two or more people. Place your hands in the indented handles on the bottom of the projector when carrying the projector.
  - Remove all the attachments including the power cord and cables, from the projector when carrying the projector.
  - Do not lengthen the elevator feet beyond 30 mm.
- Do not look into the lens and the openings on the projector, while the lamp is on.
- Do not approach the lamp cover or exhaust vents while the projection lamp is on or just after the lamp is turned off since they can be too hot.
- Do not apply the laser beam of the remote control to anything except the screen.



**Indented handles**

## 1.3 Regulatory notices

### About Electro-Magnetic Interference

**WARNING :**

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 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.

**In Canada**

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

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.

Some cables have to be used with a ferrite core set. Use the accessory cable or a designated type cable for the connection. For cables that have a core only at one end, connect the ferrite core 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.

### 1.3 Regulatory notices (continued)

#### **About Waste Electrical and Electronic Equipment**



The mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).

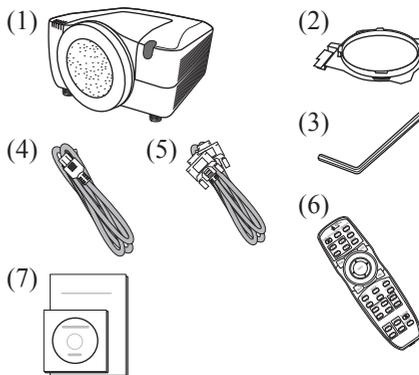
The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries or accumulators as unsorted municipal waste, but use the return and collection systems available.

If the batteries or accumulators included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.

## 2. Checking the contents of package

Soon after purchasing this product, check that all the following items are included in the package. If any items are missing, contact your dealer immediately.

- (1) Projector
- (2) Lens adapter
- (3) Hexagon wrench  
(for installation of the optional lens unit)
- (4) Power cord
- (5) Computer cable
- (6) Remote control (batteries not included)
- (7) User documentation



### NOTE

- \* This product is supplied without a lens unit, so that you can choose from a range of lenses (📖 24) that can meet your requirements. Ask your dealer about purchasing one or more lenses with this product.
- \* Additional accessories or services may be required for your application. We recommend consulting your dealer beforehand.

### ⚠ CAUTION

- Keep the original packing materials, and use them correctly when transporting or storing the product.

## 3. Attaching the lens unit

Ask your dealer to help you with lens installation. Removing and attaching the lens unit should only be accomplished by authorized service personnel.

### ⚠ WARNING

- Only use the lens unit specified by the manufacturer.
- Removing and attaching the lens unit should only be accomplished by authorized service personnel.
- Read and keep the user's manual of the lens unit.
- Be extremely cautious and do not drop or hit the lens against anything.
- Do not transport the projector with the lens attached.

### ⚠ CAUTION

- Keep the original packing materials for the lens unit, and use them correctly when transporting or storing the lens unit.

### NOTICE

- Do not touch the lens surface directly.
- Keep the dust protector of the projector, and use it when no lens unit is attached to the projector.

## 4. Placing the projector

Read this chapter through first. Then install the projector into place.

### 4.1 Installation environment

This product must be installed in a stable, cool and airy location. Check your installation environment in accordance with the following.

#### ⚠ WARNING

- Do not place the product on an unstable surface surface such as an uneven, tilted, or vibrating location.
- Do not place the product near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement, near a swimming pool, beach; or outdoors.

#### ⚠ CAUTION

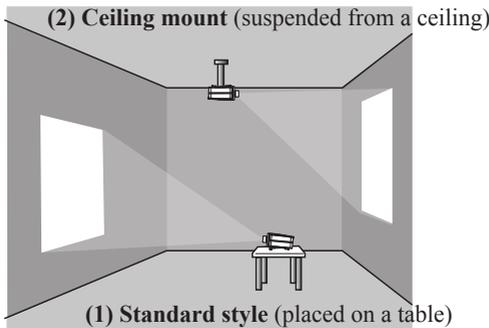
- Do not place the product in a dusty, smoky, or humid place - for example, in a passageway, in a smoking space, in a kitchen, or outdoors.
- Do not place the product near heat sources - for example, radiators, heat registers, stoves, or other product (including amplifiers) that produces heat.
- Do not place this product in a magnetic field.

#### NOTICE

- Do not place the product in a place where radio interference may be caused.
- Do not place the projector in a place where any strong light hit the remote sensors.

### 4.2 Projection style

Choose the projection style suitable to your use, referring to the illustration below.



#### NOTE

\* When installing the projector in a special situation such as a ceiling mount, specific mounting accessories (📖 24) and service may be required. Before installing the projector, consult your dealer about your installation.

#### ⚠ WARNING

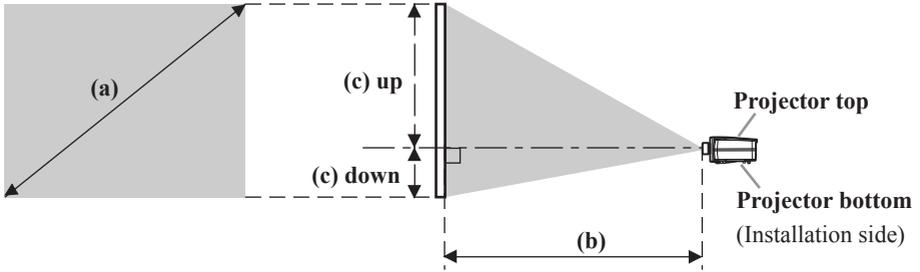
- Consult with your dealer about installation beforehand.
- Use only the mounting accessories the manufacturer specified, and leave installation and removal of the projector with the mounting accessories to the service personnel.
- Read and keep the mounting accessory's user manuals used.

### 4.3 Projection distance

Refer to the following to arrange the projector and your screen. The values shown in the following table were calculated for the model IN5542/IN5542c with the standard lens unit LENS-068. See the lens unit user's manual for your specific situation. The values differ for every combination of the projector and the lens unit.

\* The values shown in the table are calculated for full size screen 1024 x 768.

- (a) Screens size (diagonal)
- (b) Projection distance ( $\pm 10\%$ )
- (c) Screen height ( $\pm 10\%$ ) when the vertical lens shift is set full upward.



(a) Screen size [inch (m)]	4 : 3 screen				16 : 9 screen			
	(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]		(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]	
	min.	max.	down	up	min.	max.	down	up
40 (1.0)	1.7 (66)	2.3 (89)	-23 (-9)	84 (33)	1.3 (53)	1.8 (72)	-33 (-13)	83 (33)
60 (1.5)	2.6 (103)	3.5 (136)	-34 (-13)	125 (49)	2.1 (83)	2.8 (110)	-49 (-19)	124 (49)
70 (1.8)	3.1 (121)	4.0 (159)	-40 (-16)	146 (58)	2.5 (98)	3.3 (129)	-58 (-23)	145 (57)
80 (2.0)	3.5 (139)	4.6 (183)	-45 (-18)	167 (66)	2.9 (112)	3.8 (148)	-66 (-26)	165 (65)
90 (2.3)	4.0 (157)	5.2 (206)	-51 (-20)	188 (74)	3.2 (127)	4.3 (168)	-74 (-29)	186 (73)
100 (2.5)	4.4 (175)	5.8 (230)	-56 (-22)	209 (82)	3.6 (142)	4.7 (187)	-82 (-32)	207 (81)
120 (3.0)	5.4 (211)	7.0 (277)	-68 (-27)	251 (99)	4.4 (172)	5.7 (225)	-99 (-39)	248 (98)
150 (3.8)	6.7 (266)	8.8 (347)	-85 (-33)	313 (123)	5.5 (216)	7.2 (283)	-123 (-49)	310 (122)
200 (5.1)	9.0 (356)	11.8 (464)	-113 (-44)	418 (164)	7.4 (290)	9.6 (379)	-164 (-65)	414 (163)
250 (6.4)	11.3 (447)	14.8 (582)	-141 (-56)	522 (206)	9.2 (364)	12.0 (474)	-206 (-81)	517 (204)
300 (7.6)	13.6 (537)	17.8 (699)	-169 (-67)	627 (247)	11.1 (438)	14.5 (570)	-247 (-97)	620 (244)
350 (8.9)	15.9 (628)	20.7 (816)	-198 (-78)	731 (288)	13.0 (512)	16.9 (666)	-288 (-113)	724 (285)
400 (10.2)	18.2 (718)	23.7 (934)	-226 (-89)	835 (329)	14.9 (586)	19.4 (762)	-329 (-130)	827 (326)
500 (12.7)	22.8 (899)	29.7 (1168)	-282 (-111)	1044 (411)	18.6 (734)	24.2 (954)	-411 (-162)	1034 (407)
600 (15.2)	27.4 (1081)	35.6 (1403)	-339 (-133)	1253 (493)	22.4 (882)	29.1 (1145)	-493 (-194)	1241 (488)
700 (17.8)	32.0 (1262)	41.6 (1638)	-395 (-156)	1462 (576)	26.2 (1030)	34.0 (1337)	-576 (-227)	1447 (570)

**NOTICE**

- Do not use a polarized screen, since it can cause a red image.

## 4.4 Placement

Heed the following and install the projector in accordance with the preceding paragraph 4.3.

### ⚠ WARNING

- Keep the projector away from anything that could catch fire.
- Do not block or cover the openings on the projector, and keep sufficient space for ventilation around the projector.
  - Do not use the projector on a cushioned surface such a rug, a carpet or bedding.
  - Keep the projector away from light-weight materials such as a piece of paper that can stick to the intake holes.
- Do not use the projector on an unstable surface surface such as a cart.
- Place the projector so that nothing enters inside of the projector.
  - Keep the projector away from small items such as paperclips that can fall into the inside.
  - Keep the projector away from any liquids that can spill or leak into the product.

### ⚠ CAUTION

- Keep the projector away from anything that is heat conductive such as metal.
  - Do not use the projector on a metallic table.
- Keep the projector away from anything that is susceptible to heat such as some types of plastics.

### NOTICE

- Place the projector so that there is nothing that blocks the projection light to the screen.
- Avoid exposing the remote sensor directly to strong light.

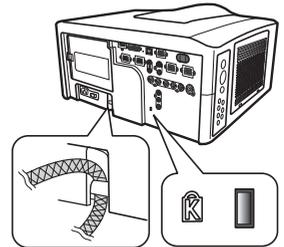
## 4.5 Supplementary anti-theft means

This projector has a security bar for a commercial anti-theft chain or wire up to 10 mm in diameter, and also the security slot for the Kensington lock.

For details, see your security tool manual.

### NOTE

\* These will not prevent theft, but will help prevent against theft.



### ⚠ WARNING

- Do not use the security slot to prevent the projector from falling, since this is not what it is designed for.

### ⚠ CAUTION

- Do not place the anti-theft chain or wire near the projector's exhaust vents, since the chain or wire heated by the hot exhaust may cause burns.

## 5. Connecting with your devices

Before connecting the projector to your devices, check the device manual to ensure that the device is compatible with this projector and to check what is required for the connection.

Consult your dealer when the required accessory did not come with the product or the accessory is damaged. It may be regulated under some standard.

After making sure that the projector and the devices are turned off, perform the connection, according to the following instructions. Refer to the illustrations on subsequent pages.

### NOTE

\* For this product, the optional cable cover is available for purchase. To place an order for it, please tell your dealer the part name of it. (📖 24)

### ⚠ WARNING

- Use only the accessories specified or recommended by manufacturer. Do not modify the projector or its accessories.
- Read and keep the accessory's user manual.
- Do not connect or disconnect the projector with devices while they are connected to a power supply except when directed by the device manuals.

### ⚠ CAUTION

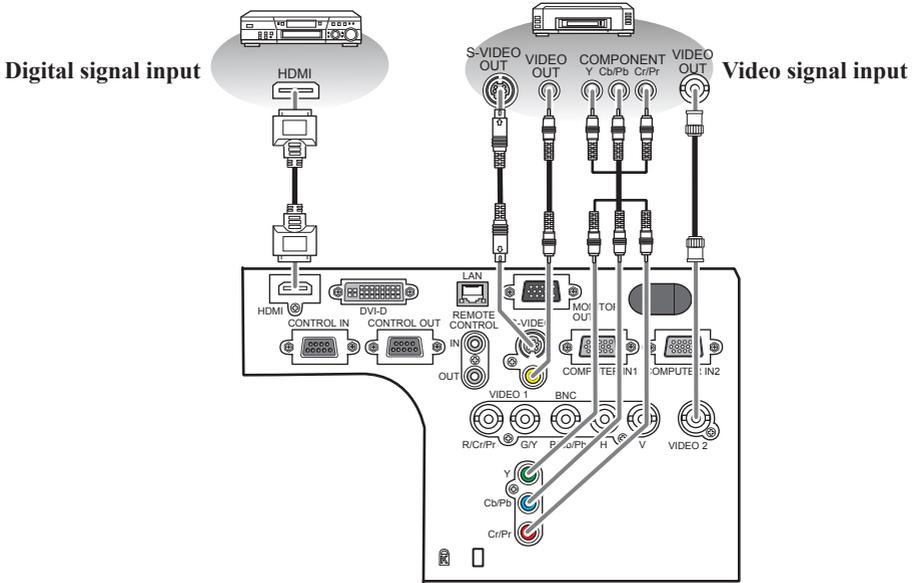
- Some connecting cables may have to have a specific length, or a ferrite core at the end to connect to the projector, under the regulation of electro-magnetic interference. When a ferrite core is attached to the specified cable only at one end, connect to the end with the ferrite core to the projector.
- Be careful not to connect a cable into the wrong port or the wrong way.
- Be careful not to damage the cables. Route the cables so they will not be stepped on or pinched.

### NOTICE

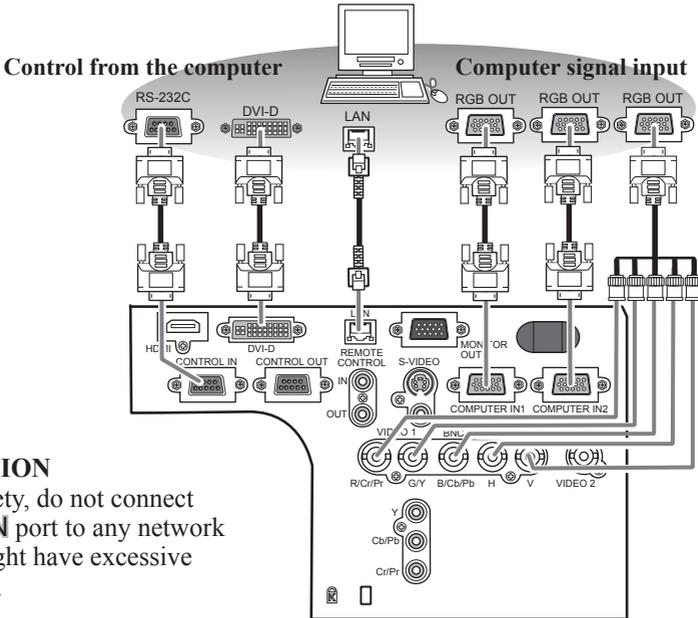
- Do not turn your device on prior to the projector, except when directed by the device manuals.

5. Connecting with your devices (continued)

**Example of connecting with VCR or DVD players**



**Example of connecting with computers**

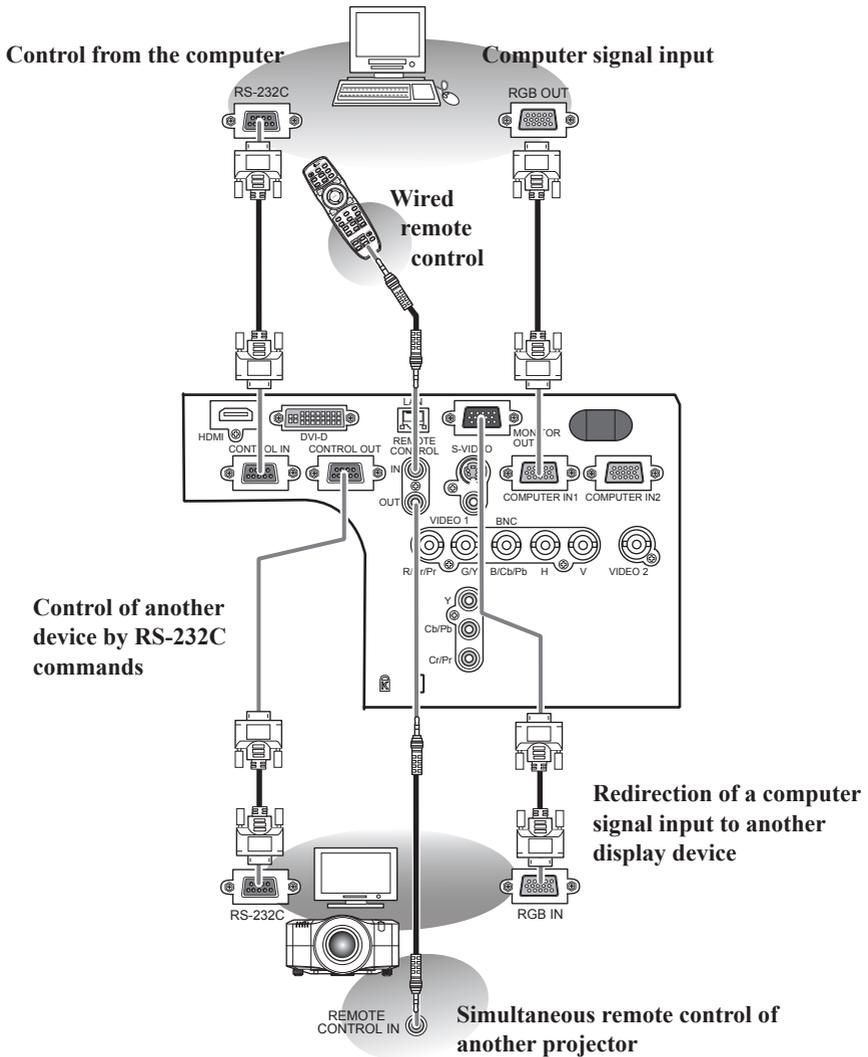


**⚠ CAUTION**

- For safety, do not connect the **LAN** port to any network that might have excessive voltage.

5. Connecting with your devices (continued)

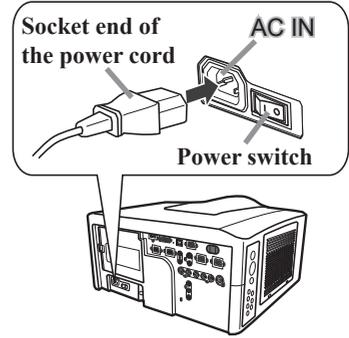
Example of connecting with another projector or a display device



## 6. Connecting to a power supply

In accordance with the warnings shown below, connect the AC inlet of the projector to the proper power outlet. The following walks you through the connection.

1. Make sure that the power switch of the projector is set to the off-position (marked with “O”).
2. Insert the socket end of the power cord into the **AC IN** (AC inlet) of the projector.
3. Plug the other end of the power cord into the power outlet.



### ⚠ WARNING

- Do not connect the projector to a power supply when the lens unit is not attached.
- Use this projector from only the specified power supply in accordance with the label indication on the projector.
- Use a power outlet that is close to the projector and easily accessible.
- Do not overload the outlet, since overloading can result in a fire or an electric shock.
- Use only the suitable power cord that came with this product and is suitable for your power supply. If the suitable power cord did not come with this product, consult your dealer.
- Do not use a damaged power cord. If the power cord you need is damaged, ask your dealer for a new power cord of the same type.
- Do not handle the power cord with wet hands.
- Do not repair or modify the power cord.
- Be careful not to damage the power cord. Route the power cord so that it is unlikely to be walked on or pinched by items placed upon or against them.
- Firmly connect the power cord to avoid loose connections. Do not use a loose or unsound power outlet.

## 7. Preparing the remote control

Use the remote control that came with the product. Load the batteries into the remote control after reading this chapter through.

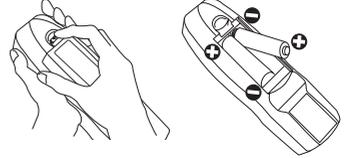
### 7.1 Putting the batteries

The remote control needs two batteries of the following type.

Hitachi Maxell or Hitachi Maxell Energy part number **AA Alkaline (LR6 or R6P)**  
*Batteries not included.*

The following walks you through loading batteries into the remote control.

1. Remove the battery cover in the back of the remote control. Push lightly the knob of the battery cover while pulling it up.
2. Put the batteries into the battery holder, according to the polarity markings “+” and “-“ inside the holder.
3. Put the battery cover back into place until it clicks.



#### NOTE

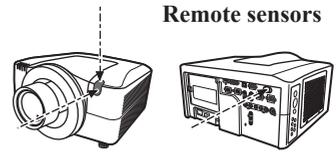
\* If the remote control malfunctions, try replacing the batteries with fresh ones.

#### ⚠ WARNING

- Be careful not to press the **LASER** button when loading the batteries. It is dangerous if a laser beam is unintentionally turned on. See the warning in the following paragraph 7.3.
- Be careful of handling batteries, since a battery can cause explosion, cracking or leakage that could result in a fire, injury, or environment pollution.
  - Use only the specified batteries. Do not use batteries of different types.
  - 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.
  - Do not use a battery with damage, such as scratches, dents, rust or leakage.
  - Make sure the plus and minus terminals are correctly aligned when loading a battery.
  - Do not work on a battery; for example recharging or soldering.
  - If the remote control is not used for a long period of time, remove the batteries.
  - Keep batteries in a dark, cool and dry place. Never expose a battery to a fire or water.
  - Keep batteries away from children and pets.
  - When a battery leaks, wipe the leakage out well with a waste cloth. If the leakage adheres to your body, immediately rinse it well with water. When a battery leaks in the battery holder, replace the batteries after wiping the leakage out.
  - Obey the local laws when disposing a battery.

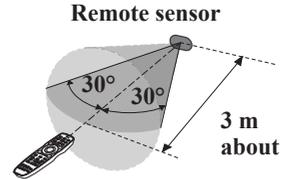
## 7.2 Transmitting condition

The remote control works with the remote sensors on the projector using infrared light (Class 1 LED). The remote sensor senses the remote control signals within the range of (to right and left) and about 3 meters from the sensor.



### NOTE

- \* You can inactivate one or two of the three sensors using the item **REMOTE RECEIVE.** of the **SERVICE** menu under the **OPTION** menu.
- \* When you want to use two or more projectors of this type at the same time and the same place, use the **REMOTE ID** function. The buttons of **ID 1**, **ID 2**, **ID 3** and **ID 4** on the remote control can name the projector given the same ID number as the button by the item **REMOTE ID** of the **SERVICE** menu under the **OPTION** menu.

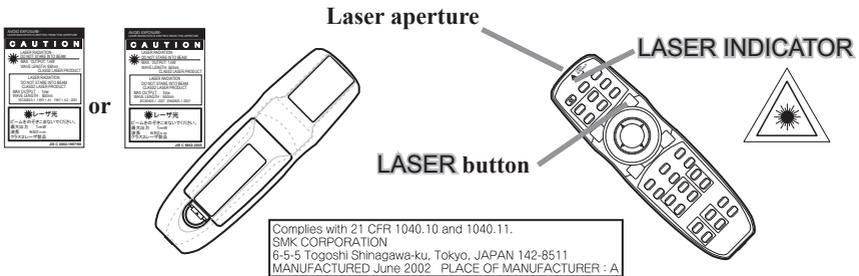


### NOTICE

- Avoid exposing the remote sensor directly to strong light.
- Do not put anything between the remote control and the remote sensor on the projector, since it may interfere with transmission of the remote control signals.

## 7.3 Laser pointer

While pressing the **LASER** button, the remote control emits a laser beam and lights the **LASER INDICATOR**. Use the laser beam as the pointer on the screen.



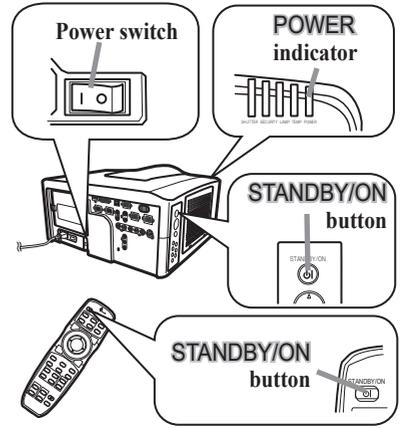
### ⚠ WARNING

- Use the laser beam of the remote control only for the pointer on the screen. Do not apply the laser beam to anything except the screen.
  - Never hit eyes with the laser beam since the laser beam can injure eyes.
  - Do not apply the laser beam to anything except the screen.

## 8. Turning the projector on/off

### 8.1 Turning on

1. Make sure that the power cord is firmly and correctly connected to the projector and the outlet.  
2. Press down the side marked “I” on the power switch.  
The **POWER** indicator will light up in steady orange. Wait for the buttons to become ready. It may take several seconds.
3. Press the **STANDBY/ON** button (on the projector or the remote control).  
The projection lamp will light up and the **POWER** indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in steady green.



### 8.2 Turning off

1. Press the **STANDBY/ON** button on the projector or the remote control.  
The message “**Power off?**” will appear on the screen for about 5 seconds.
2. Press the **STANDBY/ON** button again while the message is shown.  
The projector lamp will go off, and the **POWER** indicator will begin blinking in orange.  
Then the **POWER** indicator will stop blinking and light in steady orange when lamp cooling is complete.
3. After making sure that the **POWER** indicator lights in steady orange, and press down the side marked “O” on the power switch.  
The **POWER** indicator will go off.

#### NOTE

- \* When the item **DIRECT ON** of the **OPTION** menu is set to the **ON**, and that the projector was turned off by only the power switch without using the **STANDBY/ON** button, switching the power switch turns the projector automatically.

#### ⚠ WARNING

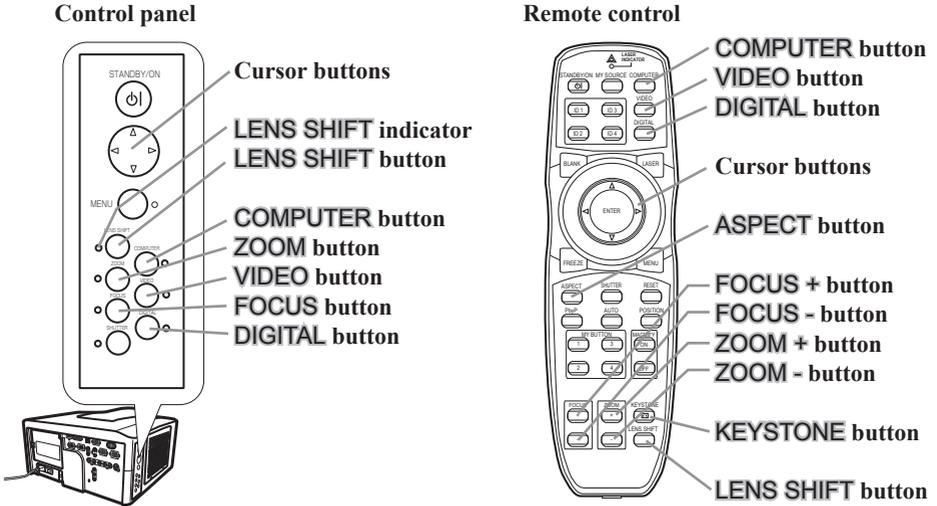
- Do not look directly into the lens or the openings on the projector while the lamp is on.
- Do not approach the lamp cover and the exhaust vents for a while after the lamp goes out, since they may be hot and could cause burns.

#### NOTICE

- Do not turn your device on prior to the projector, except when directed by the device manuals. Turn your device off prior to the projector, except when directed by the device manuals.

# 9. Projecting images

The basic operation of this product is shown in this chapter. For details, please refer to the manuals in the CD “User’s Manual (detailed)”(📖 23).



## 9.1 Displaying and switching the image

Pressing one of the following buttons (on the control panel or the remote control) calls the picture signal from one of the input ports belonging to the category the button’s name shows. And repeating and pressing the same button changes the port to take in the signal from in the order shown below.

- (1) **COMPUTER** button: **COMPUTER IN1** → **COMPUTER IN2** → **BNC**
- (2) **VIDEO** button: **Component (Y, Cb/Pb, Cr/Pr)** → **S-VIDEO** → **VIDEO 1** → **VIDEO 2**
- (3) **DIGITAL** button: **HDMI** ↔ **DVI-D**

## 9.2 Focusing the image

- (1) On the control panel, press the **FOCUS** button first, then use the ◀/▶ cursor buttons to adjust.
- (2) On the remote control, use the **FOCUS +/FOCUS –** buttons to adjust.

## 9.3 Zooming the image

- (1) On the control panel, press the **ZOOM** button first, then use the ◀/▶ cursor buttons to adjust.
- (2) On the remote control, use the **ZOOM +/ZOOM –** buttons to adjust.

## 9.4 Adjusting the projection position

### Using the elevator feet

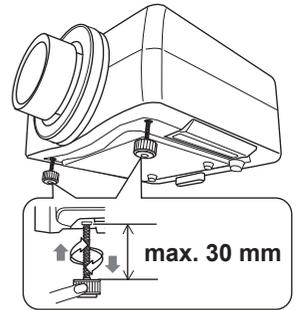
Lengthening or shortening the length of the elevator feet shifts the projection position and the projection angle. Turn the elevator feet each to adjust their length.

#### ⚠ WARNING

- Do not lengthen the elevator feet more than 30 mm. If the foot is lengthened beyond this limit, it may come off and drop the projector down, possibly causing an injury or damaging the projector.

#### ⚠ CAUTION

- Do not place the projector with an inclination more than 5 degrees. Leaning the projector beyond this limit could cause malfunction and shorten the life of the projector.



### 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.

#### NOTE

- \* While the lens is moving, the **LENS SHIFT** indicator (on the control panel) lights up or blinks green. The projector may ignore operation by buttons while moving the lens.
- \* Generally, better images occur when the lens is set to the center.

#### ⚠ CAUTION

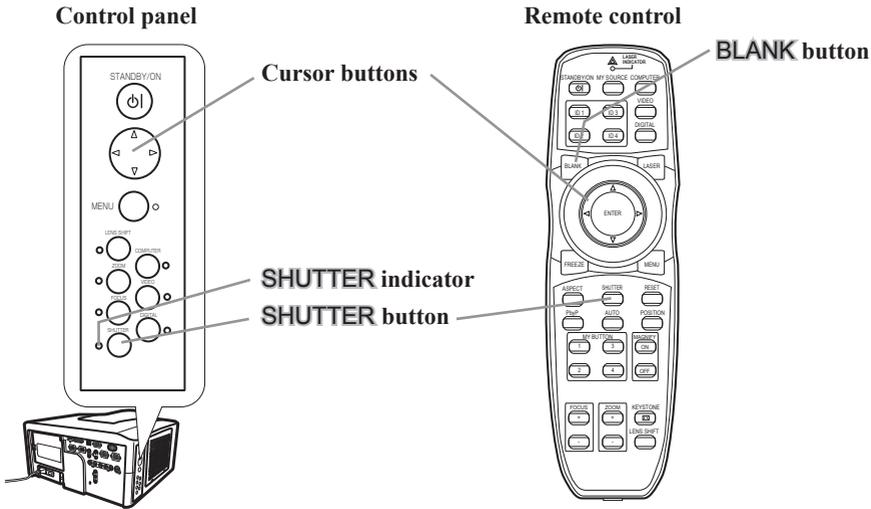
- Do not put your fingers or any other things around the lens. The moving lens could catch them in the space around the lens and result in an injury.

## 9.5 Selecting an aspect ratio

Use the **ASPECT** button (on the remote control). Each time you press the button, it changes the aspect ratio of the image in turn.

## 9.6 Correcting the keystone distortion

Pressing the **KEYSTONE** button (on the remote control) displays the **KEYSTONE** dialog. Use the cursor buttons according to the dialog, checking the image.



## 9.7 Hiding the projection image

Closing the mechanical lens shutter blocks the projection light and blackens the screen. If you use another monitor device, you can operate the display, hiding it from the audience. Press the **SHUTTER** button (on the control panel or the remote control) to close, or open the lens shutter.

### NOTE

- \* While the lens shutter is closed, the **SHUTTER** indicator (on the control panel) blinks yellow.
- \* Even if the projector is turned off with the lens shutter closed, turning the projector on opens automatically the lens shutter.

### ⚠ WARNING

- Do not leave the shutter closed for long periods of time during projector use, since the closed lens shutter could raise the inside temperature, and result in a fire.

## 9.8 Temporarily blanking the display

Using the **BLANK** button, you can display the **BLANK** image preset by the item **BLANK** of the **SCREEN** menu instead of the input signal image.

Press the **BLANK** button (on the remote control), to display the **BLANK** image, or recover the input signal image.

### NOTE

- \* Some projector operations may recover the input signal image automatically.

## 10. Maintenance

Before maintaining the projector, be sure to turn off, unplug, and cool it down. Especially when maintaining the lamp, allow the projector to cool for about 45 minutes.

### 10.1 Lamp unit

A worn out lamp bulb could burn or burst. It is recommended to keep a spare lamp unit on hand and to replace the lamp unit when the projected image darkens or color reproduction becomes poor.

To purchase a spare, contact your dealer and tell the following type number.

Optional lamp part number: **SP-LAMP-079**

If the projector is installed in a special state such as ceiling mount, or if the lamp bulb has broken, also ask the dealer to replace the lamp unit. Otherwise, follow the procedure shown below to replace the lamp unit.

1. Make sure that the projector is unplugged and cooled down.
2. Loosen the screw (marked by arrow) of the lamp cover. Then slide and take it off.
3. Loosen the 3 screws (marked by arrow) of the lamp unit. Then picking the handles of the unit, gently take it from the projector.
4. Gently set the new lamp unit into place. Then retighten the screws of the lamp unit.
5. Put the lamp cover back into place, and retighten the screw of the lamp cover.
6. Reset the **LAMP TIME** value.

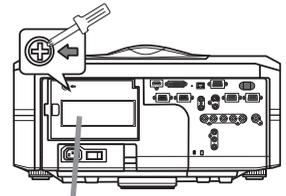
(1) Turn the projector on.

(2) To display the **ADVANCED MENU**, press the **MENU** button (on the control panel or the remote control). On the **EASY MENU**, select the **“ADVANCED MENU”** using the **▲/▼** cursor buttons, then press the **▶** cursor button.

(3) To select the **OPTION** menu, select the **“OPTION”** using the **▲/▼** cursor buttons in the left column, then press the **▶** cursor button.

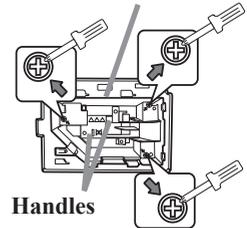
(4) To display the **LAMP TIME** dialog, select the **“LAMP TIME”** using the **▲/▼** cursor buttons in the right column, then press the **▶** cursor button.

(5) Use the **▶** cursor button according to the dialog, Selecting **“OK”** resets the **LAMP TIME** value.

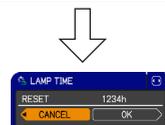
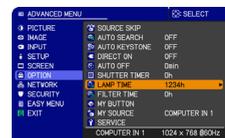


Lamp cover

Lamp unit



Handles



#### NOTE

- \* The value shown on the **OPTION** menu as the **LAMP TIME** is the amount of usage which has occurred since the last time the **LAMP TIME** was reset. Refer to the value for proper maintenance.

#### NOTICE

- Be sure to reset the **LAMP TIME** after you have replaced the lamp unit.

**⚠ WARNING**

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

- The projector uses a high-pressure mercury glass lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.
  - **About 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](http://www.lamprecycle.org) (in the US).
    - For product disposal, contact your local government agency or [www.eiae.org](http://www.eiae.org) (in the US) or [www.epsc.ca](http://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 inside of the projector, 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 breathe the gas that comes out of the projector vents, or get it in 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 damaging the lamp.



- Never unscrew except the appointed (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. When replacing the lamp, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only the specified lamp type.
- 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, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- Using the lamp for long periods of time, could cause it to darken, not to light up or to burst. 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.

## 10.2 Filter unit

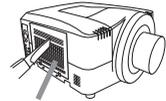
To keep the interior venting properly, keep a spare and replace the filter unit periodically, although frequent replacement is not needed for this product.

To purchase a spare, contact your dealer and tell the following type number.

Optional filter part number: **SP-FILTER-01**

The following walks you through the steps to replace the filter unit.

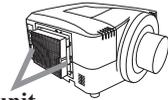
1. Make sure that the projector is unplugged and cooled down.
2. Use a vacuum cleaner on and around the filter cover.
3. Pick and pull up the filter cover knobs to take it off.
4. Pinch and pull out the filter unit knobs to take it off.
5. Use a vacuum cleaner on and around the intake vents of the projector.
6. Set the new filter unit into the place.
7. Put the filter cover back into the place.
8. Reset the **FILTER TIME** value.
  - (1) Turn the projector on.
  - (2) To display the **EASY MENU**, press the **MENU** button (on the control panel or the remote control). On the **ADVANCED MENU**, select the “**EASY MENU**” using the **▲/▼** cursor buttons in the left column, then press the **▶** cursor button.
  - (3) To display the **FILTER TIME** dialog, select the “**FILTER TIME**” using the **▲/▼** cursor buttons, then press the **▶** cursor button.
  - (4) Use the **▶** cursor button according to the dialog, Selecting “**OK**” resets the **FILTER TIME** value.



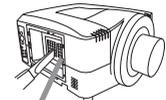
Filter cover



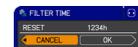
Filter cover knob



Filter unit knob



Intake vents



### NOTE

- \* The value shown on the **EASY MENU** as the **FILTER TIME** is the amount of usage which has occurred since the last time the **FILTER TIME** was reset. Refer to the value for proper maintenance.
- \* You can use the message function, which is set up by the item **FILTER TIME** of the **OPTION** menu, to notify you when to replace the lamp.

### ⚠ WARNING

- Before checking or replacing the filter unit, turn off, unplug, and cool down the projector.
- To keep ventilation of the inside normal, replace the filter unit periodically.
- Use only the manufacturer specified type of the filter unit.

### NOTICE

- Be sure to reset the **FILTER TIME** after you have replaced the filter unit.

## 10.3 Internal clock battery

This projector can be loaded with a battery for the internal clock that the network function needs. When the clock does not work correctly, ask your dealer to check the battery and to replace if needed. For replacement, prepare a new battery of the following type. You can buy it at the store or order it from your dealer.

Hitachi Maxell or Hitachi Maxell Energy part Number **CR2032** or **CR2032H** (Battery not included.)

### **⚠ WARNING**

- Be careful when handling the battery since it can explode, crack or leak possibly resulting in a fire, injury or environmental pollution.
- Use only the specified battery.
- When replacing the battery, replace it with a new battery.
- Do not use a battery with damage, such as scratches, dents, rust or leakage.
- Do not work on a battery; for example recharging or soldering.
- Keep a battery in a dark, cool and dry place. Never expose a battery to a fire or water.
- Keep a battery away from children and pets. Be careful not to let them swallow a battery.
- When a battery leaks, wipe the leakage out well with a waste cloth. If the leakage adheres to your body, immediately rinse it well with water. When a battery leaks in the battery holder, replace the batteries after wiping the leakage out.
- Obey the local laws when disposing batteries.

## 10.4 Others

### **For the lens**

Be careful not to scratch, crack, dirty, or fog the lens surface, since it affects the image quality. When the lens surface is fogged or dirty, gently wipe it only with the commercial cloth or paper lens cleaner.

### **For the inside of the projector**

In order to ensure the safe use of your projector, please have it cleaned and inspected by your dealer about once every year.

### **For the cabinet of the projector and remote control**

For the dirty cabinet of the projector or remote control, use soft cloth. Dip a soft cloth in water or a neutral cleaner diluted in water, and wipe the cabinet lightly after wringing it well. Then, wipe again lightly with a soft and dry cloth.

### **⚠ WARNING**

- Before checking or cleaning the lens, turn off, unplug, and cool down the projector.
- Do not scratch the projector and knock it against something. Use special caution with the lens surface.
- Do not let the product get wet. Do not let any liquids enter the inside. Do not use a spray.

### **NOTICE**

- Do not directly touch the lens surface with hands.
- Do not use cleaners or chemicals other than those specified in this manual.

# 11. Using the CD manual

The detailed manuals for this product are on the CD titled “**User’s Manual (detailed)**” which came with this product. Before using the CD, read the following to ensure the proper use.

## System requirements

For using the CD manual, the following system is required.

Windows®:	OS:	Microsoft® Windows® 98, Windows® 98SE, Windows NT® 4.0, Windows® Me, Windows® 2000/Windows® XP, or the later
	CPU:	Pentium® processor 133MHz / Memory: 32MB or more
Macintosh®:	OS:	Mac OS® 10.2 or the later
	CPU:	PowerPC® / Memory: 32MB or more
CD-ROM drive:		4x CD-ROM drive
Display:		256 color / 640x480 dots resolution
Applications:		Microsoft® Internet Explorer® 4.0 and Adobe® Acrobat® Reader® 4.0 or the later

## How to use the CD

1. Insert the CD into the CD-ROM drive of your computer.
2. When using it on the Macintosh® system, start the web browser by the following.
  - (1) Double-click on the “**Projectors**” icon displayed on the computer’s desktop.
  - (2) Then click on the “**main.html**” file.

When using it on the Windows® system, the web browser automatically starts.

3. The web browser displays the initial window of the manual.

On the window, select the model name of your projector, and the language you want to read the manuals with. The manual in the selected language will open.

## NOTE

- \* The information in the CD is subject to change without notice.
- \* The manufacturer assumes no responsibility for any obstacle and defect to hardware and software of your computer as a result of the use of the CD.
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## ⚠ CAUTION

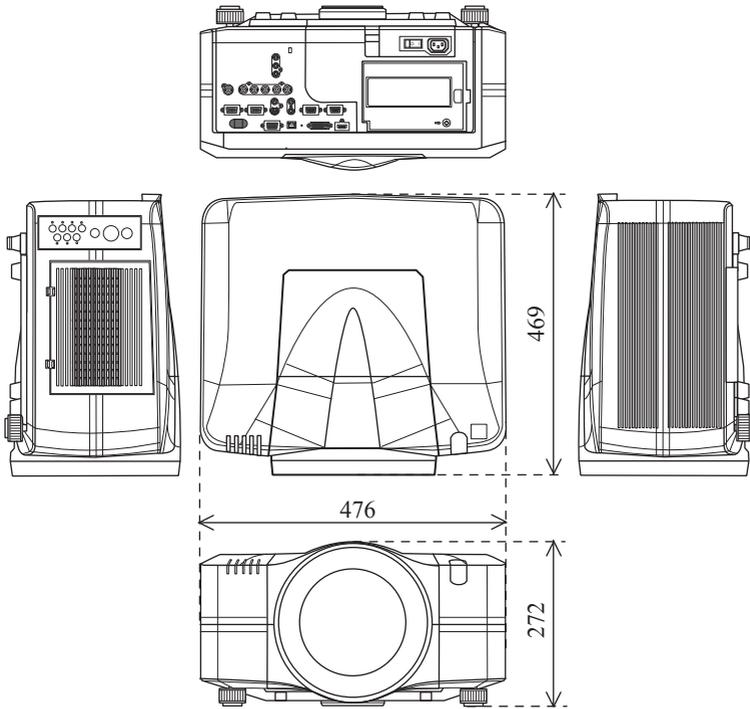
- Only use the CD in a computer’s CD drive. Never insert the CD into a CD drive of a non-computer device such as an audio device. Inserting the CD into an incompatible CD drive may produce a loud noise, which may result in damage to ears and speakers.
- While the CD is not used, put it into its envelope. Avoiding the CD from direct rays, a high temperature, and high humidity. Be careful not to scratch or press the CD.

## 12. Specifications

The general specifications of this product are shown below.

Item		Specifications
Product name		Liquid crystal projector
		TFT active matrix drive system
Liquid crystal panel	IN5542/ IN5542c	3.3 cm (1.3 type), 786,432 pixels (1024 horizontal x 768 vertical)
	IN5544/ IN5544c	3.1 cm (1.22type), 1,092,800 pixels (1366 horizontal x 800 vertical)
Lamp		350 W UHB
Power supply		AC 110-120V/6.0A, AC 220-240V/3.1A
Power consumption		540W
Temperature range		5 to 35°C (Operating)
Ports		<b>HDMI</b> ..... HDMI port x1 <b>DVI-D</b> ..... DVI-D port x1 <b>LAN</b> ..... RJ45 port x1 <b>MONITOR OUT</b> ..... D-sub 15 pin mini port x1 <b>CONTROL IN</b> ..... D-sub 9 pin plug x1 <b>CONTROL OUT</b> ..... D-sub 9 pin plug x1 <b>REMOTE CONTROL IN</b> ..... 3.5 stereo mini port x1 <b>REMOTE CONTROL OUT</b> ..... 3.5 stereo mini port x1 <b>S-VIDEO</b> ..... DIN 4 pin mini port x1 <b>VIDEO 1</b> ..... RCA port x1 <b>VIDEO 2</b> ..... BNC port x1 <b>COMPUTER IN1</b> ..... D-sub 15 pin mini port x1 <b>COMPUTER IN2</b> ..... D-sub 15 pin mini port x1 <b>BNC (R/Cr/Pr, G/Y, B/Cb/Pb, H, V)</b> ..... BNC port x5 <b>Component (Y, Cb/Pb, Cr/Pr)</b> ..... RCA port x3
Weight (mass)		13.1 kg approx.
Size		476 (W) x 272 (H) x 469 (D) mm approx. * See the drawing below.
Optional parts	Lens unit	LENS-067 (Ultra short throw lens) LENS-066 (Short throw lens) LENS-065 (Short throw lens) LENS-068 (Standard lens) LENS-062 (Standard lens) LENS-064 (Long throw lens) LENS-063 (Ultra long throw lens)
	Lamp unit	SP-LAMP-079
	Filter unit	SP-FILTER-01
	Cable cover	SP-COVER-01
	Lens adapter unit	SP-LENS-ADPT-01

12. Specifications (continued)



[unit: mm]

## 13. Troubleshooting – Warranty and after service

If an abnormality (ex. the projector smokes, smells strange, is broken or has liquid or an object inside) should occur with this product, stop using the projector immediately. After ensuring that there is no emergency, ask your dealer to check and repair the product.

If an abnormality has not occurred, please refer to the “Troubleshooting” section of the Operating Guide on the CD first. It may help you resolve the problem. If it does not resolve the problem, consult your dealer.

The dealer or the service company that is designated by your dealer will tell you if the product is under warranty.

The latest information for this product can be found on the website:

**[www.infocus.com/support](http://www.infocus.com/support)**

\*\*\*\*\*

### NOTE

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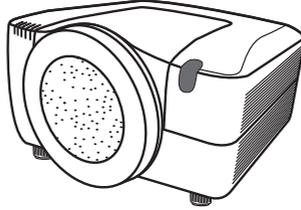
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# Projector

## IN5542/IN5542c/IN5544/IN5544c

### User's Manual (detailed) – Operating Guide



Thank you for purchasing this projector.

**⚠ WARNING** ▶ Before using this product, please read the "User's Manual (concise)" and related manuals to ensure the proper use of this product. 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 entry warns of a risk of serious personal injury or even death.

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

**NOTICE** This entry notices of fear of causing trouble.

 Please refer to the pages written following this symbol.

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## Introduction

### Projector features

This projector can project various picture signals onto a screen. This projector requires only a minimal installation space and can produce a large projected image from a very short distance. In addition, the projector has the following features to allow for many different installation applications.

- ✓ The **HDMI** port can support a variety of image equipment which has a digital interface to get clearer images on a screen.
- ✓ The super bright lamp and high quality optical system can fulfill the demands of professional uses.
- ✓ The selectable optional lens units and the super wide range of the lens shift feature will give you the ability to install the product wherever you want.
- ✓ The lens shutter can hide the interior of the projector and help your presentation.
- ✓ The wealth of I/O ports is believed to support any business application.
- ✓ This projector's network supports the PJLink™ standard.
- ✓ PJLink™ is a unified standard for operating and controlling data projectors. PJLink™ enables central control of projectors manufactured by different vendors and projectors can be operated by a controller. PJLink™ compliant equipment can be managed and controlled at any time and in any place, regardless of manufacturer.  
For the command of PJLink™, see  User's Manual (Technical)  
For specifications of PJLink™, see the website of the Japan Business Machine and Information System Industries Association.  
URL: <http://pjlink.jbmia.or.jp>
- ✓ The unique Electric Dust Catcher Air filter system is expected to prevent air dust from getting into the projector and reduces the frequency of maintenance events.

### Important safety instruction (for moving)

\*For details, see the  User's Manual (concise).

**⚠ WARNING** ▶ Always move the projector with two or more people. Place your hands in the indented handles on the bottom of the projector when carrying the projector.  
▶ Remove all the attachments including the power cord and cables, from the projector when carrying the projector.

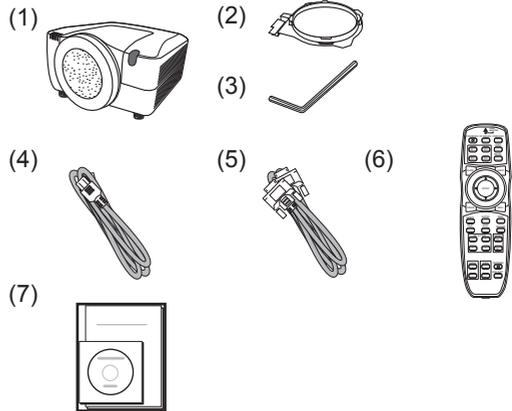


Indented handles

## Checking the contents of package

Soon after purchasing this product, verify that all the following items are included in the package. If any items are missing, contact your dealer immediately.

- (1) Projector
- (2) Lens adapter
- (3) Hexagon wrench (for installation of the optional lens unit)
- (4) Power cord
- (5) Computer cable
- (6) Remote control (batteries not included)
- (7) User's documentation



**NOTE** • This product is supplied without a lens unit so that you can choose from a range of lenses ([77](#)) that can meet your requirements. Ask your dealer for details, and purchase one or more lenses with this product.

- Some additional accessories or services may be required for your application. We recommend that you consult your dealer beforehand.

**CAUTION** ► Keep the original packing materials, and use them correctly when transporting or storing the product.

## Attaching the lens unit

Ask your dealer to help you with lens installation. Removing and attaching the lens unit should only be accomplished by authorized service personnel.

- WARNING** ► Only use the lens unit specified by the manufacturer.
- Removing and attaching the lens unit should only be accomplished by authorized service personnel.
  - Read and keep the user's manual of the lens unit.
  - Be extremely cautious and do not drop or hit the lens against anything.
  - Do not transport the projector with the lens attached.

**CAUTION** Keep the original packing materials for the lens unit, and use them correctly when transporting or storing the lens unit.

- NOTICE** ► Do not touch the lens surface directly.
- Keep the projector's dust protector, and use it when no lens is attached to the projector.

## Part names

## Projector

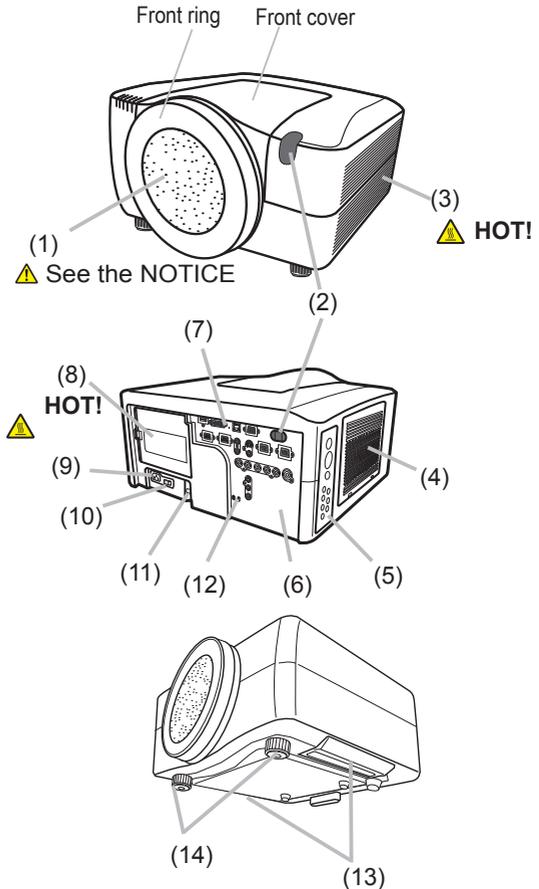
- (1) Dust protector
- (2) Remote sensors (x 2) (📖17)
- (3) Exhaust vents
- (4) Filter cover (📖69)

The filter unit and intake vent are inside.

- (5) Control panel (📖6)
- (6) Rear panel (📖6)
- (7) Reset switch (📖73)
- (8) Lamp cover (📖67)

The lamp unit is inside.

- (9) **AC IN** (AC inlet) (📖15)
- (10) Power switch (📖19,20)
- (11) Security bar (📖10)
- (12) Security slot (📖10)
- (13) Indented handles (x 2) (📖3)
- (14) Elevator feet (x 2) (📖20)



**⚠ WARNING ▶HOT!** : Do not touch around the lamp cover or the exhaust vents during use or just after use, since it is hot.

▶ Do not look into the lens or vents while the lamp is on, since the strong light is harmful to your eyes.

▶ Do not hold the projector by the front cover or front ring since the projector may drop.

▶ Do not handle the elevator feet without holding the projector, since the projector may drop down.

**⚠ CAUTION ▶** Maintain normal ventilation to prevent the projector from heating up. Do not cover, block or plug up the vents. Do not place anything by the intake vents which can stick to or be sucked into the vents. Clean the air filter periodically.

**NOTICE ▶** Do not touch the lens surface directly.

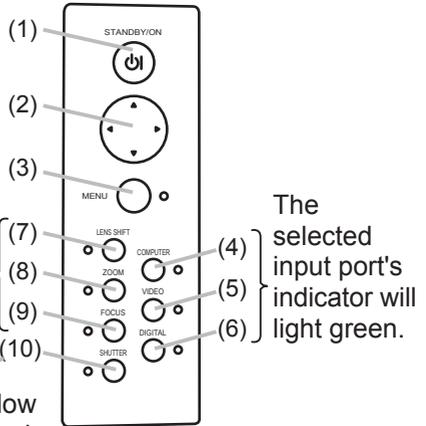
▶ Keep the dust protector of the projector, and use it when no lens unit is attached to the projector.

## Control panel

- (1) **STANDBY/ON** button (📖19,20)
- (2) **Cursor** buttons ( ▲/▼/◀/▶ ) (📖28)
- (3) **MENU** button (📖28)
- (4) **COMPUTER** button (📖22)
- (5) **VIDEO** button (📖22)
- (6) **DIGITAL** button (📖22)
- (7) **LENS SHIFT** button (📖21)
- (8) **ZOOM** button (📖21)
- (9) **FOCUS** button (📖21)
- (10) **SHUTTER** button (📖26)

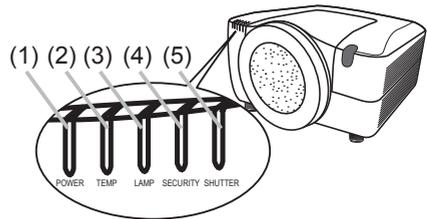
The indicator will light green when the OSD menu is displayed.

The indicator will blink in yellow when the lens shutter is closed.



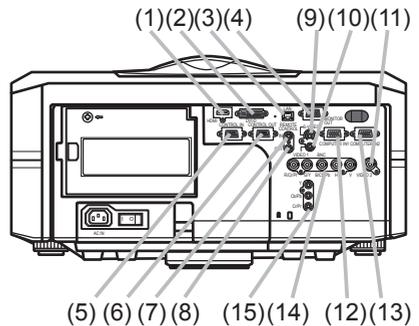
## Indicator lamp (📖72)

- (1) **POWER** indicator
- (2) **TEMP** indicator
- (3) **LAMP** indicator
- (4) **SECURITY** indicator
- (5) **SHUTTER** indicator



## Rear panel (📖10)

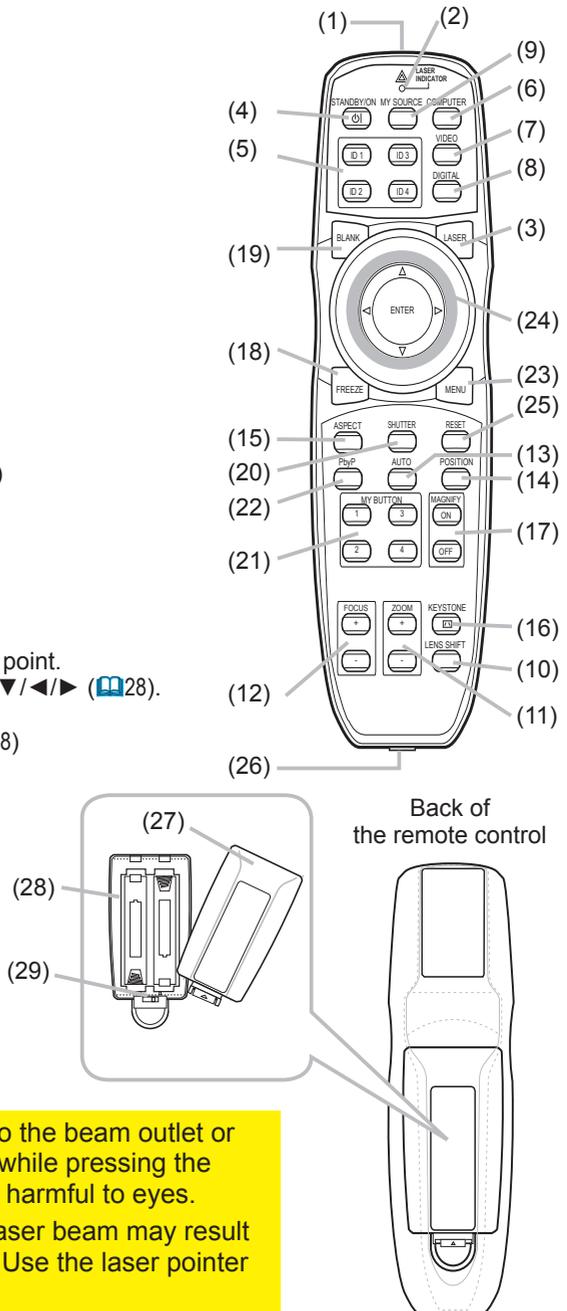
- (1) **HDMI** input
- (2) **DVI-D** input
- (3) **LAN** input
- (4) **MONITOR OUT** output
- (5) **CONTROL IN** input
- (6) **CONTROL OUT** output
- (7) **REMOTE CONTROL IN** input
- (8) **REMOTE CONTROL OUT** output
- (9) **S-VIDEO** input
- (10) **VIDEO 1** input
- (11) **VIDEO 2** input
- (12) **COMPUTER IN1** input
- (13) **COMPUTER IN2** input
- (14) **BNC (G/Y, B/Cb/Pb, R/Cr/Pr, H, V)** inputs
- (15) **Component (Y, Cb/Pb, Cr/Pr)** inputs



**⚠ CAUTION** ▶ Only use the reset switch when the projector will not turn off normally, since pushing this switch stops projector operations without cooling it down.

## Remote control

- (1) Laser pointer (📖18)  
It is a beam outlet.
- (2) **LASER INDICATOR** (📖18)
- (3) **LASER** button (📖18)
- (4) **STANDBY/ON** button (📖19,20)
- (5) **ID (1-4)** button (📖18)
- (6) **COMPUTER** button (📖22)
- (7) **VIDEO** button (📖22)
- (8) **DIGITAL** button (📖22)
- (9) **MY SOURCE** button (📖22)
- (10) **LENS SHIFT** button (📖21)
- (11) **ZOOM +/-** button (📖21)
- (12) **FOCUS +/-** button (📖21)
- (13) **AUTO** button (📖23)
- (14) **POSITION** button (📖24)
- (15) **ASPECT** button (📖23)
- (16) **KEYSTONE** button (📖24)
- (17) **MAGNIFY ON/OFF** button (📖25)
- (18) **FREEZE** button (📖25)
- (19) **BLANK** button (📖26)
- (20) **SHUTTER** button (📖26)
- (21) **MY BUTTON (1-4)** button (📖49)
- (22) **P by P** button (📖27)
- (23) **MENU** button (📖28)
- (24) **ENTER** button : press the center point.  
Cursor button: press the point ▲/▼/◀/▶ (📖28).
- (25) **RESET** button (📖28)
- (26) Wired remote control output (📖18)
- (27) Battery cover (📖16)
- (28) Battery holder (📖16)
- (29) Frequency switch (📖17)



**⚠ WARNING** ▶ Do not look into the beam outlet or point the beam at people or pets while pressing the **LASER** button, since the beam is harmful to eyes.

**⚠ CAUTION** ▶ Note that the laser beam may result in hazardous radiation exposure. Use the laser pointer only for pointing on the screen.

## Setting up

Read this chapter through first before installing the projector.

### Installation environment

This product must be installed in a stable, cool and airy location. Check your installation environment in accordance with the following.

**⚠ WARNING** ▶ Do not place the product on an unstable surface such as an uneven, tilted, or vibrating location.

▶ Do not place the product near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement, near a swimming pool, beach; or outdoors.

**⚠ CAUTION** ▶ Do not place the product in a dusty, smoky, or humid place - for example, in a passageway, in a smoking space, in a kitchen, or outdoors.

▶ Do not place the product near heat sources - for example, radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

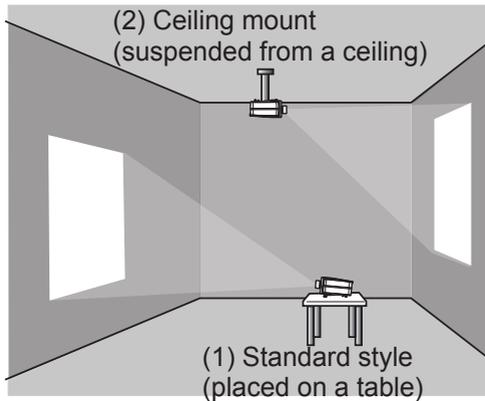
▶ Do not place this product in a magnetic field.

**NOTICE** ▶ Do not place the product in a place where radio interference may be caused.

▶ Do not place the projector in a place where any strong light can hit the remote sensors.

### Projection style

This projector can be used in the following projection styles. Choose the style suitable to your use.



**NOTE** • When mounting the projector in a ceiling mount or upward/downward projection style, specific mounting accessories (P77) and service are required to install the projector. Contact your dealer for more information. If a different projection style is needed, contact your dealer.

**⚠ WARNING** ▶ Consult your dealer about installation beforehand.

▶ Only use manufacturer approved mounting accessories, and use authorized service personnel to install your projector and mounting accessories

## Projection distance

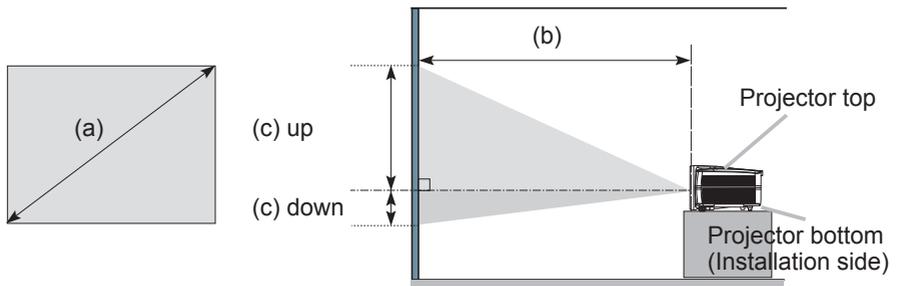
Refer to the following to arrange the projector and your screen. The values shown in the following table were calculated for the model IN5542/IN5542c with the standard lens unit LENS-068 that is adjusted to the center position. See the lens unit user's manual for your specific situation. The values differ for every combination of the projector and the lens unit.

\* The values shown in the table are calculated for a full size screen: 1024×768

(a) Screen size (diagonal)

(b) Projection distance (±10%)

(c) Screen height (±10%), when the vertical lens shift is set full upward.



(a) Screen size [inch (m)]	4 : 3 screen				16 : 9 screen			
	(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]		(b) Projection distance [m (inch)]		(c) Screen height [cm (inch)]	
	min.	max.	down	up	min.	max.	down	up
40 (1.0)	1.7 (66)	2.3 (89)	-23 (-9)	84 (33)	1.3 (53)	1.8 (72)	-33 (-13)	83 (33)
60 (1.5)	2.6 (103)	3.5 (136)	-34 (-13)	125 (49)	2.1 (83)	2.8 (110)	-49 (-19)	124 (49)
70 (1.8)	3.1 (121)	4.0 (159)	-40 (-16)	146 (58)	2.5 (98)	3.3 (129)	-58 (-23)	145 (57)
80 (2.0)	3.5 (139)	4.6 (183)	-45 (-18)	167 (66)	2.9 (112)	3.8 (148)	-66 (-26)	165 (65)
90 (2.3)	4.0 (157)	5.2 (206)	-51 (-20)	188 (74)	3.2 (127)	4.3 (168)	-74 (-29)	186 (73)
100 (2.5)	4.4 (175)	5.8 (230)	-56 (-22)	209 (82)	3.6 (142)	4.7 (187)	-82 (-32)	207 (81)
120 (3.0)	5.4 (211)	7.0 (277)	-68 (-27)	251 (99)	4.4 (172)	5.7 (225)	-99 (-39)	248 (98)
150 (3.8)	6.7 (266)	8.8 (347)	-85 (-33)	313 (123)	5.5 (216)	7.2 (283)	-123 (-49)	310 (122)
200 (5.1)	9.0 (356)	11.8 (464)	-113 (-44)	418 (164)	7.4 (290)	9.6 (379)	-164 (-65)	414 (163)
250 (6.4)	11.3 (447)	14.8 (582)	-141 (-56)	522 (206)	9.2 (364)	12.0 (474)	-206 (-81)	517 (204)
300 (7.6)	13.6 (537)	17.8 (699)	-169 (-67)	627 (247)	11.1 (438)	14.5 (570)	-247 (-97)	620 (244)
350 (8.9)	15.9 (628)	20.7 (816)	-198 (-78)	731 (288)	13.0 (512)	16.9 (666)	-288 (-113)	724 (285)
400 (10.2)	18.2 (718)	23.7 (934)	-226 (-89)	835 (329)	14.9 (586)	19.4 (762)	-329 (-130)	827 (326)
500 (12.7)	22.8 (899)	29.7 (1168)	-282 (-111)	1044 (411)	18.6 (734)	24.2 (954)	-411 (-162)	1034 (407)
600 (15.2)	27.4 (1081)	35.6 (1403)	-339 (-133)	1253 (493)	22.4 (882)	29.1 (1145)	-493 (-194)	1241 (488)
700 (17.8)	32.0 (1262)	41.6 (1638)	-395 (-156)	1462 (576)	26.2 (1030)	34.0 (1337)	-576 (-227)	1447 (570)

**NOTICE** ▶ Do not use a polarized screen, since it can cause a red image.

## Placement

When installing the projector according to the previous section "Projection distance" (19) heed the following information

- ⚠ **WARNING** ▶ Keep the projector away from anything that is easy to catch fire.
  - ▶ Do not block or cover the openings on the projector, and keep sufficient space for ventilation around the projector.
  - Do not use the projector on a cushioned surface such as a rug, a carpet or bedding.
  - Keep the projector away from light-weight materials such as a piece of paper that can stick to the intake holes.
  - ▶ Do not use the projector on an unstable surface such as a cart.
  - ▶ Place the projector so that nothing enters inside of the projector.
  - Keep the projector away from small items such as paperclips that can fall into the inside.
  - Keep the projector away from any liquids that can spill or leak into the product.
- ⚠ **CAUTION** ▶ Keep the projector away from anything that is heat conductive such as metal.
  - Do not use the projector on a metallic table.
  - ▶ Keep the projector away from anything that is susceptible to heat such as some types of plastics.
- NOTICE** ▶ Place the projector so that there is nothing that blocks the projection light to the screen.
  - ▶ Avoid exposing the remote sensor directly to strong light.

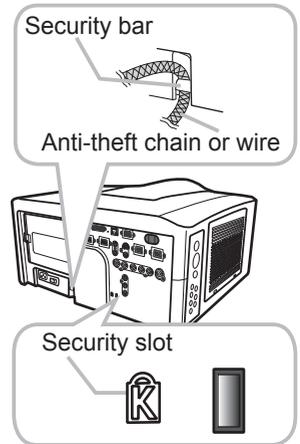
## Supplementary anti-theft means

This projector has a security bar for a commercial anti-theft chain or wire up to 10 mm in diameter, and also the security slot for the Kensington lock. For details, see your security tool manual.

**NOTE** • These will not prevent theft, but will help prevent against theft.

⚠ **WARNING** ▶ Do not use the security slot to prevent the projector from falling down, since it is not designed for this purpose.

⚠ **CAUTION** ▶ Do not place the anti-theft chain or wire near the projector's exhaust vents, since the chain or wire heated by the hot exhaust may cause burns.



## Connecting with your devices

Before connecting the projector to your devices, check the device manual to ensure that the device is compatible with this projector and to check what is required for the connection.

Consult your dealer when the required accessory did not come with the product or the accessory is damaged. It may be regulated by some standards.

After making sure that the projector and the devices are turned off, perform the connection, according to the following instructions. Refer to the illustrations on subsequent pages.

**NOTE** • For this product, the optional cable cover is available for purchase. To place an order for it, please contact your dealer with the part name (P77).

**⚠ WARNING** ▶ Use only the accessories specified or recommended by manufacturer. Do not modify the projector or its accessories.  
▶ Do not connect or disconnect the projector with devices while they are connected to a power supply except when directed by the device manuals.

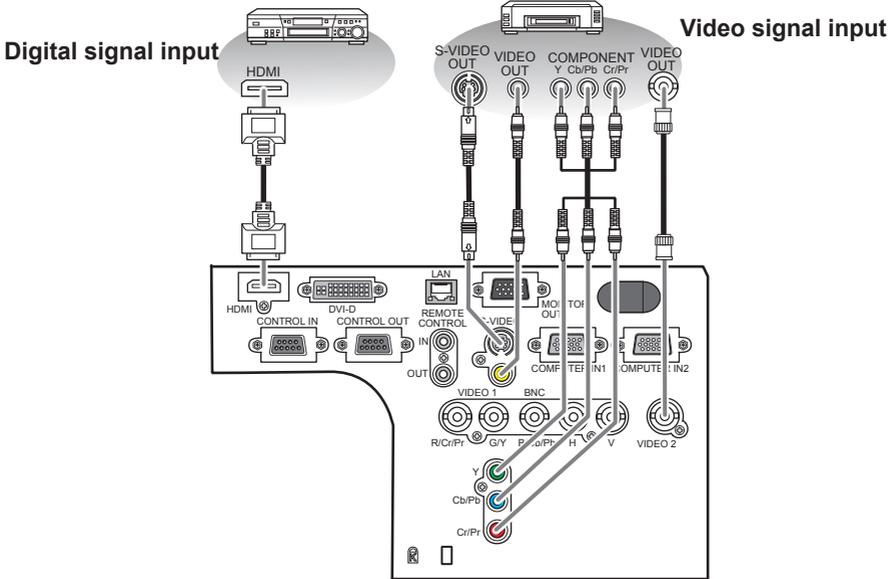
**⚠ CAUTION** ▶ Some cables may need to be specific lengths, or have a ferrite core at the end to connect to the projector, under the regulation of electromagnetic interference. When a ferrite core is attached to a specific cable only at one end, connect the end with the ferrite core to the projector.  
▶ Be careful not to put a connector into an incorrect wrong port or in the wrong way.  
▶ Be careful not to damage the cables. Route the cables so they will not be stepped on or pinched.

**NOTICE** ▶ Do not turn your device on prior to the projector, except when directed by the device manuals.

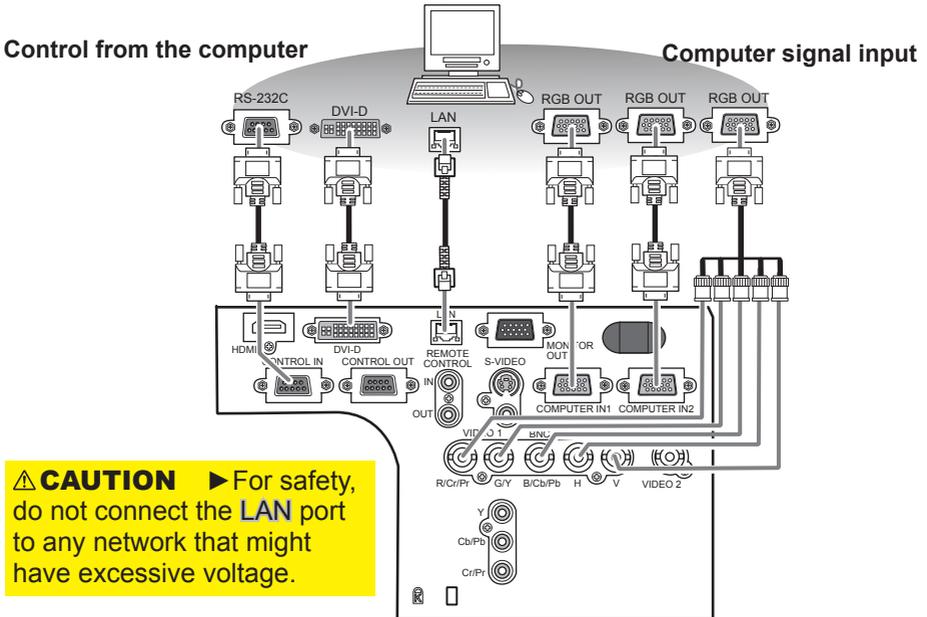
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## Connecting your devices (continued)

### Example of connecting to VCR or DVD players



### Example of connecting with computers

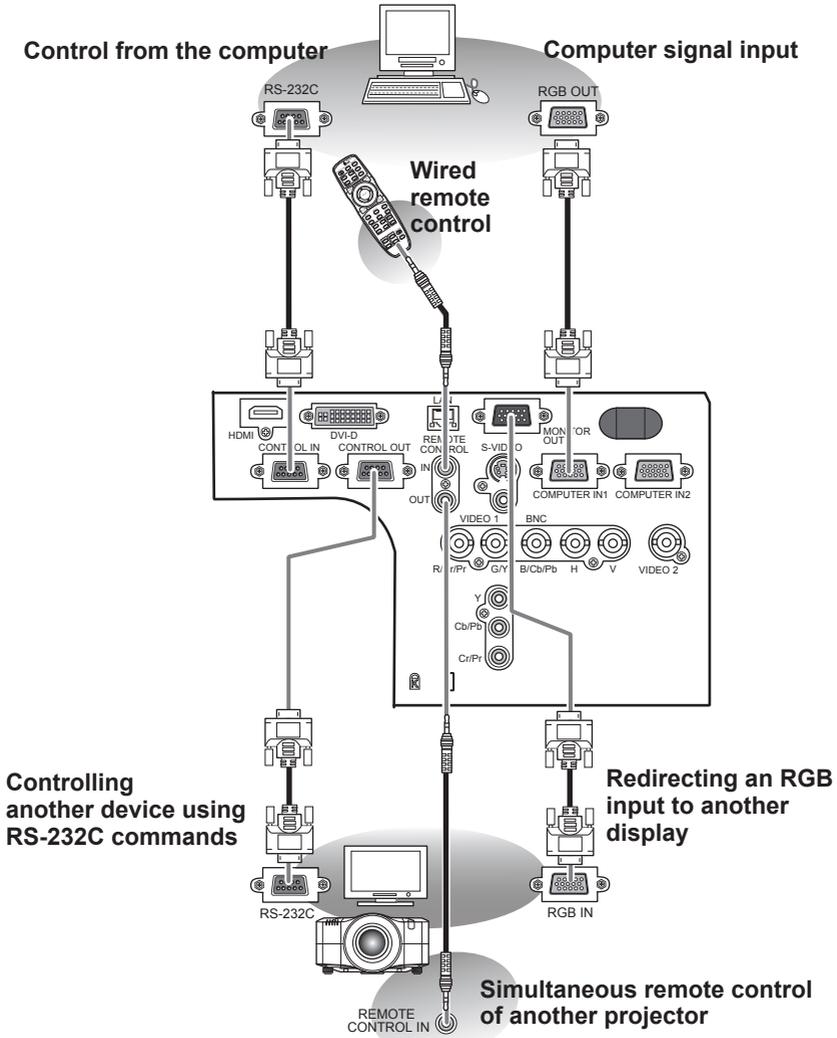


**⚠ CAUTION** ▶ For safety, do not connect the **LAN** port to any network that might have excessive voltage.

(continued on next page)

Connecting your devices (continued)

Example of connecting to another projector or display device



## Connecting your devices (continued)

- NOTE** • Be sure to read the device manuals before connecting them to the projector, and make sure that all the devices are suitable to be connected with this product.
- Before connecting to a PC, check the signal level, signal timing, and resolution.
  - Be sure to consult with the network administrator. Do not connect **LAN** port to any network that might have excessive voltage.
  - Some signals may require an adapter to be input into this projector.
  - Some PCs have multiple screen display modes which may include some that are not supported by this projector.
  - Although the projector can display signals with resolution up to UXGA (1600X1200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and the projector panel are identical.
  - When connecting, make sure that the shape of the cable's connector fits the port you are connecting to, and be sure to tighten the screws on connectors with screws.
  - When connecting a laptop PC to the projector, be sure to activate the PC's external RGB output. (Set the laptop PC to CRT display or to simultaneous LCD and CRT display.) For details on how this is done, please refer to the PC's instruction manual.
  - When the picture resolution changes on a computer depending on an input, the automatic adjustment feature may take some time and may not complete successfully. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use a different CRT or LCD monitor to change the resolution.
  - In some cases, this projector may not display a proper picture or display any picture on screen. For example, automatic adjustment may not function correctly with some input signals. Composite sync and sync on G input signals may confuse this projector, so the projector may not display the image properly.
  - The **HDMI** and **DVI-D** ports of this model are compatible with HDCP (High-bandwidth Digital Content Protection) and therefore are capable of displaying a video signal from HDCP compatible DVD players and the like.

### 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 an RGB cable to the **COMPUTER IN1** port (DDC 2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
- Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor.

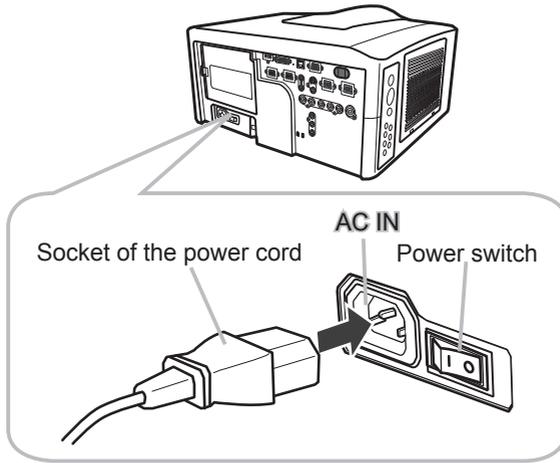
### NOTE for HDMI

- The **HDMI** supports the following signals.
  - Video signal : 480i@60,480p@60,576i@50, 576p@50,720p@50/60,1080i@50/60, 1080p@50/60
  - PC signals : See User's Manual (Technical)
- This projector can be connected to equipment which have HDMI or DVI connectors, but some equipment may not work with this projector such as not displaying an image.
- Be sure to use an HDMI cable that has the HDMI logo.
- When connecting the projector to a device with a DVI connector, use a DVI to HDMI cable to connect to the projector's **HDMI** port.

## Connecting power supply

In accordance with the warnings shown below, connect the AC inlet of the projector to the proper power outlet. The following walks you through the connection.

1. Make sure that the power switch of the projector is set to the off-position (marked with "O").
2. Insert the socket end of the power cord into the **AC IN** (AC inlet) of the projector.
3. Plug the other end of the power cord into the power outlet.



**⚠ WARNING** ▶ Do not connect the projector to a power supply when the lens unit is not attached.

▶ Use this projector from only the specified power supply in accordance with the label indication on the projector.

▶ Use a power outlet that is close to the projector and easily accessible.

▶ Do not overload the outlet, since overloading can result in a fire or an electric shock.

▶ Use only the power cord that came with this product and is suitable for your power supply. If the suitable power cord did not come with this product, consult your dealer.

▶ Do not use a damaged power cord. If the power cord you need is damaged, ask your dealer for a new power cord of the same type.

▶ Do not handle the power cord with wet hands.

▶ Do not repair or modify the power cord.

▶ Be careful not to damage the power cord. Route the power cord so that it will not be walked on or pinched by items placed upon or against them.

▶ Firmly connect the power cord to avoid loose connections. Do not use a loose or unsound power outlet.

## Remote control

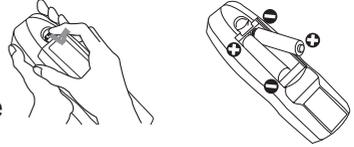
**Putting batteries**

The remote control needs two batteries of the following type.

Hitachi Maxell or Hitachi Maxell Energy part number **AA Alkaline (LR6 or R6P)**  
*Batteries not included.*

The following walks you through loading batteries into the remote control.

1. Remove the battery cover in the back of the remote control. Push lightly the knob of the battery cover while pulling it up.
2. Put the batteries into the battery holder, according to the polarity markings "+" and "-" inside the holder.
3. Put the battery cover back into place until it clicks.

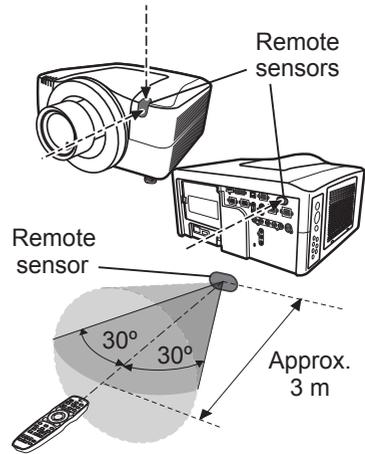


**NOTE** • If the remote control malfunctions, try replacing the batteries with fresh ones.

- ⚠ WARNING** ▶ Be careful not to press the **LASER** button when loading the batteries. It is dangerous if a laser beam is unintentionally turned on. Please refer to the section "Laser pointer" (18).
- ▶ Be careful when handling batteries, since a battery can explode, crack or leak possibly causing a fire, injury, or environmental pollution.
- Use only the specified batteries. Do not use batteries of different types.
  - When replacing, replace both of the batteries with new batteries of the same type. Do not use a new battery with a used battery.
  - Do not use a battery with damage, such as scratches, dents, rust or leakage.
  - Make sure the plus and minus terminals are correctly aligned when loading a battery.
  - Do not work on a battery; for example recharging or soldering.
  - If the remote control is not used for a long period of time, remove the batteries.
  - Keep batteries in a dark, cool and dry place. Never expose a battery to a fire or water.
  - Keep batteries away from children and pets.
  - When a battery leaks, wipe the leakage out well with a waste cloth. If the leakage adheres to your body, immediately rinse it well with water. When a battery leaks in the battery holder, replace the batteries after wiping the leakage out.
  - Obey the local laws when disposing a battery.

## Transmitting condition

The remote control works with the remote sensors on the projector using infrared light (Class 1 LED). The remote sensor senses the remote control signals within the range of (to right and left) and about 3 meters from the sensor.



**NOTE** • You can inactivate one or two of the three sensors using the item REMOTE RECEIVE in the SERVICE menu under the OPTION menu.  
 • When you want to use two or more projectors of this type simultaneously and the same place, use the REMOTE ID function. The buttons of **ID 1**, **ID 2**, **ID 3** and **ID 4** on the remote control can name the projector given the same ID number as the button by the item REMOTE ID of the SERVICE menu under the OPTION menu.

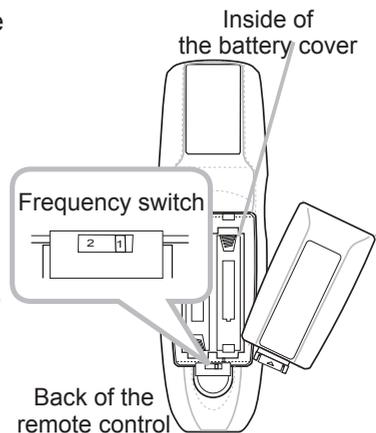
**NOTICE** ▶ Avoid exposing the remote sensor directly to strong light.  
 ▶ Do not put anything between the remote control and the remote sensor on the projector, since it may interfere with transmission of the remote control signals.

## Changing the frequency of remote control signal

The accessory remote control can be set to mode 1 or mode 2 signal frequencies. If the remote control does not function properly, try changing the signal frequency.

Please remember to set the “REMOTE FREQ.” in SERVICE item of OPTION menu (p.51) of the projector to match the remote control mode.

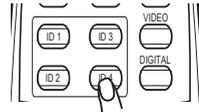
To set the remote control mode, slide the frequency switch knob inside the battery cover into the position indicated by the mode number to choose.



## Using the REMOTE ID function

This function defines which projector is controlled by the remote control. Utilize this function when you use multiple projectors of the same type simultaneously.

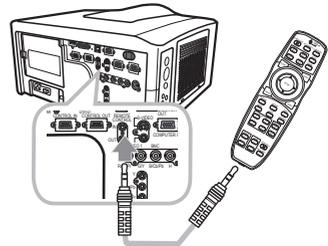
1. Set the ID number to the projector beforehand, referring to the item "REMOTE ID" item (p.52).
2. Press a ID button on the remote control. The ID button selected will light for 3 seconds.



**NOTE** • Each time you press any button (except ID buttons), the ID button of current selected ID number will light.  
 • To confirm the projector's current ID, press any ID button for 3 seconds. Its number will be shown on each screen regardless of set ID of projector.

## Using as a wired remote control

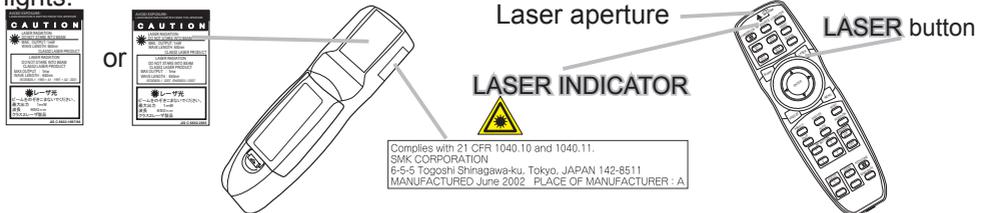
The accessory remote control works as a wired remote control, when the wired control port at the bottom of the remote control is connected to the **REMOTE CONTROL** port on the back of the projector via a 3.5mm stereo audio cable. This function is useful when a wireless remote signal may not reliably reach the projector.



**NOTE** • To connect the remote control with the projector, use an audio cable with 3.5 diameter stereo mini plugs.

## Laser pointer

Instead of using a finger or pointer, the remote control's laser pointer can be used. When the **LASER** button is pressed, the laser beam and the **LASER INDICATOR** lights.



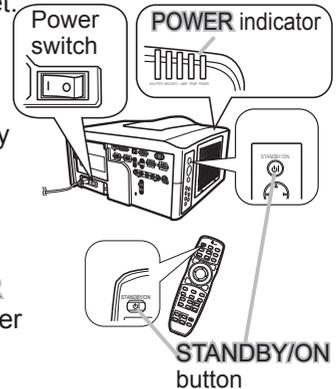
**⚠ WARNING** ▶ Only use the remote control's laser beam to point at the screen. Do not point the laser beam at anything except the screen.  
 • Never hit eyes with the laser beam since the laser beam can injure eyes.  
 • Do not point the laser beam at anything except the screen.

## Operating

### Turning on

The following walks you through the steps to turn the projector on. For other devices, follow the manual of each.

1. Make sure that the power cord is firmly and correctly connected to the projector and the outlet.
2. Press down the side marked "I" on the power switch.  
The **POWER** indicator will light solid orange. Then wait for the buttons to become ready. It may take several seconds.



3. Press the **STANDBY/ON** button (on the projector or 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 light solid green.

To display the picture, select an input signal according to the section "Displaying and switching the image" (22).

**NOTE** • When the item DIRECT ON of the OPTION menu is set to ON and the projector is turned off using a power switch instead of the **STANDBY/ON** button, switching the power switch on turns the projector on immediately (unlike the procedure described above).

**⚠ WARNING** ► Do not look directly into the lens or the openings on the projector while the lamp is on.

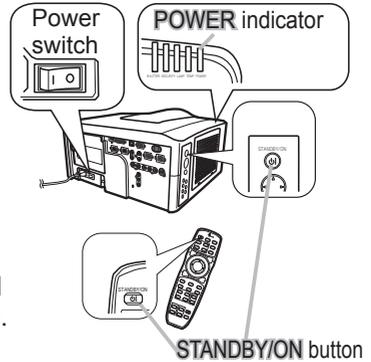
► Do not approach the lamp cover and the exhaust vents, while the projection lamp is on.

**NOTICE** ► Do not turn your device on prior to the projector, except when directed by the device manuals.

## Turning off

The following walks you through the steps to turn the projector off.

1. Press the **STANDBY/ON** button on the projector or the remote control.  
The message "Power off?" will appear on the screen for about 5 seconds.
2. Press the **STANDBY/ON** button again while the message is shown.  
The projector lamp will go off, and the **POWER** indicator will begin blinking orange.  
Then the **POWER** indicator will stop blinking and light solid orange when lamp cooling is complete.
3. After making sure that the **POWER** indicator lights solid orange, and press down the side marked "O" on the power switch.  
The **POWER** indicator will go off.



For other devices, follow the device's manual.

**NOTE** • Use the reset switch only when the projector cannot be turned off by normal procedure.

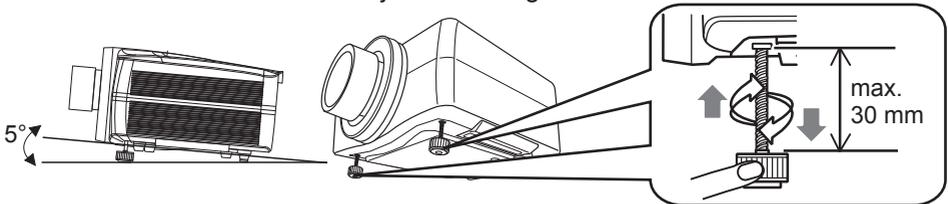
**⚠ WARNING** ► Do not approach the lamp cover and the exhaust vents for a while after the lamp goes out, since they may be hot and could cause burns.

**NOTICE** ► Turn your device off prior to the projector, except when directed by the device manuals.

## Using the elevator feet

Lengthening or shortening the length of the elevator feet shifts the projection position and the projection angle.

Turn the elevator feet each to adjust their length



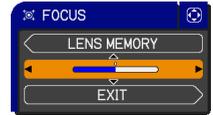
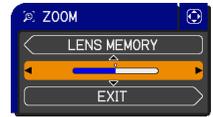
**⚠ WARNING** ► Do not lengthen the elevator feet more than 30 mm. Lengthening the foot beyond this can cause the foot to come off and drop the projector down possibly resulting in an injury or damaging the projector.

**⚠ CAUTION** ► Do not place the projector with an inclination of 5 degrees or more. If the projector is inclined more than this, the projector could malfunction and shorten the life of the projector.

## Using the functions for the lens

### ZOOM / FOCUS

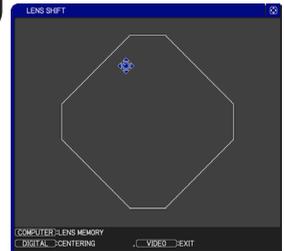
Press the **ZOOM / FOCUS** button. The ZOOM / FOCUS dialog will appear. Adjust the zoom / focus using the ◀/▶ button while the dialog is displayed. Press the ▼ button to select "EXIT" on the dialog. It closes the OSD menu.



**NOTE** • The adjustable range of ZOOM and FOCUS varies depending on the lens unit mounted on the projector to maintain picture quality. Therefore ZOOM or FOCUS adjustments may not reach the end of the bar indicators in the dialog. This is not a defect.

### LENS SHIFT

Press the **LENS SHIFT** button. The LENS SHIFT dialog will appear. Using the ▲/▼/◀/▶ buttons, while the dialog is displayed, shifts the lens.



### CENTERING

- **In the LENS SHIFT dialog:**  
Press the **DIGITAL** button.
- **In the standby mode:**  
Press the **LENS SHIFT** and the **DIGITAL** buttons for 3 seconds simultaneously.
- While the lens is shifting, the menu will disappear and an hourglass icon will appear on screen. Lens shifting may take up to one minute.
- The LENS SHIFT indicator lights up or blinks green while the lens is shifting. Then the indicator will stop blinking and light for 3 seconds in a solid green after lens is centered.
- When the lens is located in the center already, pressing the **DIGITAL** button in the LENS SHIFT dialog causes the LENS SHIFT indicator to be solid green for 3 seconds.

### LENS MEMORY SAVE / LOAD / CLEAR

This projector is equipped with memory functions for the lens adjustments (zoom, focus and shift).

To display the LENS MEMORY dialog, select the LENS MEMORY on the ZOOM, FOCUS or LENS SHIFT dialog. Then the LENS MEMORY dialog will appear.

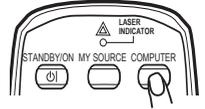
- **SAVE:** To save the current lens adjustment, select SAVE-(1-3) and press ▶ or **ENTER** button.
- **LOAD:** To load a saved adjustment, select the LOAD-(1-3) and press ▶ or **ENTER** button. When the **MY BUTTON** button is allocated to the LOAD-(1-3) the memory can be loaded without the LENS MEMORY dialog.
- **CLEAR:** Selecting the CLEAR LENS MEMORY in the LENS MEMORY dialog displays the CLEAR LENS MEMORY dialog. Select the number to be cleared using ▲/▼ buttons and press the ▶ button. A confirmation dialog will display. Then press the ▶ button again in the dialog.

LENS MEMORY					
	ZOOM	FOCUS	LENS SHIFT		LENS TYPE
			V	H	
CURRENT	64	64	+80	-22	3
SAVE-1	128	0	-128	0	2
SAVE-2	100	55	+127	0	5
SAVE-3					
LOAD-1					
LOAD-2					
LOAD-3					
CLEAR LENS MEMORY					
◀:RETURN    ▶:OK					

## Displaying and switching the image

1. Press the **COMPUTER** button to select an input port for the RGB signal.

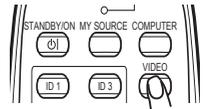
Each time you press the button, the projector switches between the RGB input ports as per below.



→ COMPUTER IN1 → COMPUTER IN2 → BNC

- 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 (47). If the **COMPUTER** button is pushed when **VIDEO 1**, **VIDEO 2**, **S-VIDEO**, Component, **HDMI** or **DVI-D** port is selected, the projector will check the **COMPUTER IN1** port first.

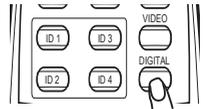
1. Press the **VIDEO** button to select an input for video signal. Each time you press the button, the projector switches its video input port as per below.



COMPONENT (Y, Cb/Pb, Cr/Pr) → S-VIDEO → VIDEO 1 → VIDEO 2

- 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 (47). If the **VIDEO** button is pushed when the **COMPUTER IN1** or **COMPUTER IN2** port is selected, the projector will check the Component port first.

1. Press the **DIGITAL** button to select an input for the digital signal. Each time you press the button, the projector switches its digital input port as per below.



HDMI ↔ DVI-D

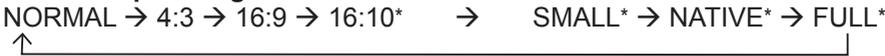
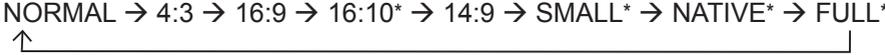
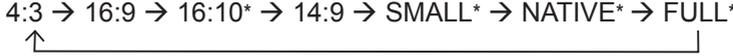
- While ON is selected for AUTO SEARCH item in OPTION menu, the projector will keep checking every port sequentially until an input signal is detected (47). If the **DIGITAL** button is pushed when Component, **S-VIDEO**, **VIDEO 1** or **VIDEO 2** port is selected, the projector will check **HDMI** port first.

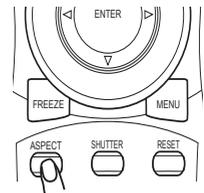
1. Press the **MY SOURCE** button on the remote control. The input signal will change to the signal specified in MY SOURCE(49).



- This function can also be used for a document camera. Select the input port that connected the document camera.

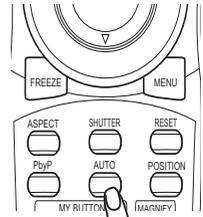
## Selecting an aspect ratio

1. Press the **ASPECT** button on the remote control.
  - Each time you press the button, the projector switches the mode for aspect ratio as per below.
    - **For a computer signal**  
 NORMAL → 4:3 → 16:9 → 16:10\* → SMALL\* → NATIVE\* → FULL\*  

    - **For an HDMI or DVI-D signal**  
 NORMAL → 4:3 → 16:9 → 16:10\* → 14:9 → SMALL\* → NATIVE\* → FULL\*  

    - **For a video signal, S-video signal or component video signal**  
 4:3 → 16:9 → 16:10\* → 14:9 → SMALL\* → NATIVE\* → FULL\*  

    - **For no signal**  
 4:3 (fixed, except IN5544/IN5544c) / FULL (fixed, IN5544/IN5544c)
  - \*16:10 / FULL: IN5544/IN5544c only. NATIVE: Except IN5542/IN5542c. SMALL: Except IN5544/IN5544c.
  - The NORMAL mode maintains the signal's native aspect ratio.



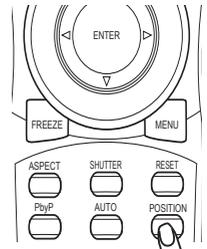
## Using the automatic adjustment feature

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 that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may be incorrectly adjusted. 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 available only when the AUTO is selected for the VIDEO FORMAT item in the INPUT menu (437). The vertical position and horizontal position will be automatically set to the default.
    - **For a component video signal**  
 The vertical position, horizontal position and horizontal phase will be automatically set to the default.
  - The automatic adjustment operation requires approx. 10 seconds. Also please note that it may not function correctly with some input. When this function is performed for a video signal, extra items such as a line may appear outside a picture.
  - 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 (450).



## Adjusting the position

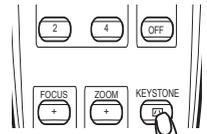
1. Press the **POSITION** button on the remote control when no menu is indicated.  
The “POSITION” indication will appear on the screen.
2. Use the ▲/▼/◀/▶ cursor buttons to adjust the picture position.  
When you want to reset the operation, press the **RESET** button on the remote control during the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



- When this function is performed on a video signal, S-video signal or component video signal, some items such as an extra-line may appear at outside of the picture.
- When this function is performed on a Video, S-Video, or component signal of 480i/60hz or 576i/50hz, the adjustment range depends on the OVER SCAN settings in the IMAGE menu (📖34). Adjustments cannot be made when OVER SCAN is set to 10.

## Correcting the keystone distortion

1. Press the **KEYSTONE** button on the remote control. A dialog will appear on the screen to aid you in correcting the distortion.
2. Use the ▲/▼ cursor buttons to select AUTO or MANUAL operation, and press the ▶ button to perform the following.
  - 1) AUTO executes automatic vertical keystone correction.
  - 2) MANUAL displays a dialog for keystone correction.  
Use the ▲/▼ cursor buttons to select the direction to correct (☐ or ☐) then use the ◀/▶ buttons for adjustment.

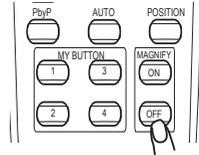


To close the dialog and complete this operation, press the **KEYSTONE** button again. Even if you don't do anything, the dialog will automatically disappear after a few seconds.

- The adjustable range of this function will vary among inputs. For some inputs, this function may not work well.
- When V:INVERT or H&V:INVERT is selected to the MIRROR item in the SETUP menu and the projector screen is inclined or angled downward, this function may not work correctly.
- 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 projector is placed on the level (about  $\pm 3^\circ$ ), this function may not work.
- When the vertical lens shift is not set fully upward (not set fully downward for the optional lens type LENS-067 only (📖51)), 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 will be unavailable when Transition Detector is on (📖64).

## Using the magnify feature

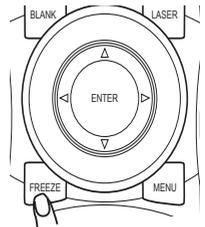
1. Press the **ON** button of **MAGNIFY** on the remote control.
  - The “MAGNIFY” indication will appear on the screen and the projector will go into the MAGNIFY mode. In the Magnify mode, the picture will be zoomed. The indication will disappear in several seconds with no operation.
2. Use the **▲/▼** cursor buttons to adjust the zoom level. To move the zoom area, press the **POSITION** button in the MAGNIFY mode, then use the **▲/▼/◀/▶** cursor buttons to move the area. And to finalize the zoom area, press the **POSITION** button again.
  - To exit from the MAGNIFY mode and restore the screen to normal, press the **OFF** button of **MAGNIFY** on the remote control.
  - The projector automatically exits from the MAGNIFY mode when the input signal is changed or when the display condition is changed.
  - In the MAGNIFY mode, the keystone distortion condition may vary, it will be restored when the projector exits from the MAGNIFY mode.



**NOTE** • The zoom level can be finely adjusted. Watch the screen closely to find the level you want.

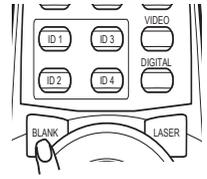
## Temporarily freezing the screen

1. Press the **FREEZE** button on the remote control.
  - The “FREEZE” indication will appear on the screen (however, the indication will not appear when OFF is selected for the MESSAGE item in the SCREEN menu (45)), and the projector will go into the FREEZE mode, which the picture is frozen.
  - To exit the FREEZE mode and restore the screen to normal, press the **FREEZE** button again.
  - The projector automatically exits from the FREEZE mode when some control buttons are pressed.
  - If the projector projects a still image for a long time, the LCD panel might burn in. Do not leave the projector in the FREEZE mode for too long.



## Temporarily blanking the screen

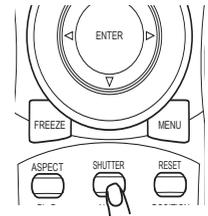
1. Press the **BLANK** button on the remote control.
  - The blank screen will be displayed instead of the screen of input signal. Please refer to the BLANK item in SCREEN menu (442).
  - To exit from the blank screen and return to the input signal screen, press the **BLANK** button again.



- The projector automatically exits from the BLANK mode when some control buttons are pressed.

## Temporarily shutting the image

1. Pressing the **SHUTTER** button closes or opens the mechanical lens shutter.
  - The closed shutter blocks the projection light, so that it can black out the screen.
  - The **SHUTTER** indicator on the projector blinks while the shutter is closed.
  - The projector will turn off automatically when the time set up by the SHUTTER TIMER passes (448).
  - When turning the power off with the **STANDBY/ON** button (420), the lens shutter closed opens automatically. If the power supply is stopped while opening or closing the lens shutter, the moving of the lens shutter is stopped too. However, when turning the projector on, the lens shutter closed or incompletely opened opens automatically.

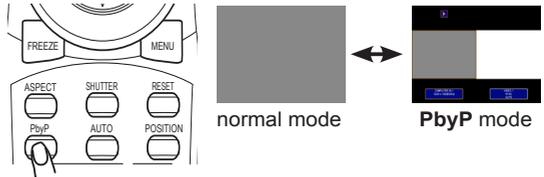


## PbyP (Picture by Picture)

The **PbyP** is a function to display two different picture signals on a screen that is split in two areas for each signal. Some of functions can be used with the same operation as it for the normal mode (not in the **PbyP** mode). There are some operations available only in the **PbyP** mode.

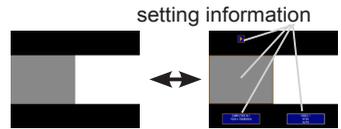
### Starting the PbyP

Press the **PbyP** button on the remote control to start the **PbyP** function. To quit the **PbyP** mode, press the button again.



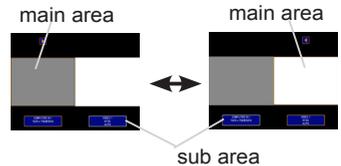
### Showing the setting information

The setting information is displayed for several seconds when the **PbyP** function is started. It shows the input signal information for each area. There also will be a yellow frame on the area where most of operations are effective. The information can be displayed using the cursor buttons **▲/▼/◀/▶** when the setting information is not on the screen.



### Changing the main area

Most of operations are effective for the main area only. Also the audio input signal paired with the picture input signal for the main area is assigned as the audio output signal. The main area can be changed using the cursor buttons **◀/▶** when the setting information is on the screen.



### Changing the picture input signal

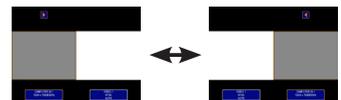
Press the **COMPUTER**, **VIDEO** or **DIGITAL** button while in the **PbyP** mode, the menu to select the input signal will be appeared. Choose a signal using the cursor buttons **▲/▼**. If you want to change the signal in the sub area, switch the main area using the cursor buttons **◀/▶** first. Displaying the same signal on the areas is not allowed. For other combinations of the input signal, refer to the right table. Any combinations marked with X can not be selected.

<signal combination>

	Sub	COMPUTER IN2	COMPUTER IN1	BNC	HDMI	DVI-D	Component	Scart RGB	S-Video	Video 1	Video 2
Main											
COMPUTER IN2	0	0	0	0	0	0	0	0	0	0	0
COMPUTER IN1	0	0	0	0	0	0	0	0	0	0	0
BNC	0	0	0	0	0	0	0	0	0	0	0
HDMI	0	0	0	0	0	0	X	X	X	X	X
DVI-D	0	0	0	0	X	0	X	X	X	X	X
Component	0	0	0	0	0	0	0	0	0	0	0
Scart RGB	0	0	0	0	X	X	0	0	X	X	X
S-Video	0	0	0	0	X	X	0	0	X	X	X
Video 1	0	0	0	0	X	X	0	0	X	X	X
Video 2	0	0	0	0	X	X	0	0	X	X	X

### Using the PbyP SWAP function

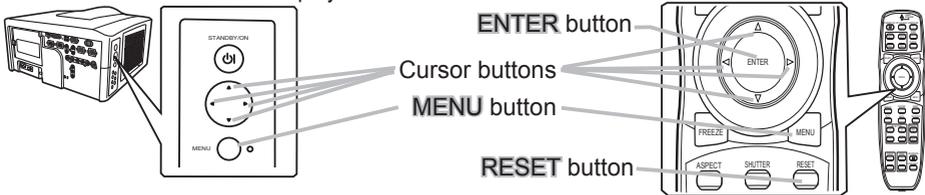
Press the **MY BUTTON** assigned the **PbyP SWAP** (49). The position of the area is exchanged without any setting change.



**NOTE** •For some signals, it may not be displayed correctly in the **PbyP** mode, even if it can be displayed properly in the normal mode.

## Using the menu functions

This projector has the following menus: PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION, NETWORK, SECURITY and EASY MENU. The EASY MENU consists of functions often used, and the other menus are classified into each purpose and brought together in the ADVANCED MENU. Each of these menus is operated using the same methods with the ▲/▼/◀/▶, ENTER and RESET buttons. The remote control and projector buttons which share the same name function the same.



### Start / finish the menu

To start the MENU, press the **MENU** button. The MENU you last used (EASY or ADVANCED) will appear, however EASY MENU will appear if the projector was just powered on. To close the MENU, press the **MENU** button again.



If you want to between the EASY and ADVANCED MENU, select the EASY/ADVANCED MENU on the menu.

### Indication in OSD (On Screen Display)



The meanings of the general words on the OSD are as follows.

Indication	Meaning
EXIT	Closes the OSD menu, exactly like pressing the <b>MENU</b> button.
RETURN	Returns the menu to the previous menu.
CANCEL or NO	Cancels the operation in the present menu and returns to the previous menu.
OK or YES	Executes the prepared function or shifts the menu to the next menu.

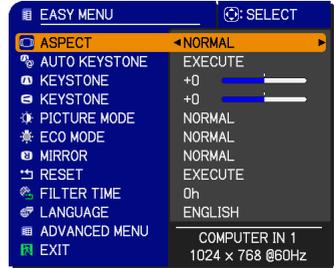
**NOTE** ● If you want to move the menu position, use the ▲/▼/◀/▶ buttons after pressing the **POSITION** button.

- Some functions cannot be performed when a certain input port is selected, or when a certain input signal is displayed.
- When you want to reset the operation, press the **RESET** button on the remote control during the operation. Note that items whose functions are performed simultaneously with operation (ex. LANGUAGE, H PHASE etc.) cannot be reset.
- Even if you do not do anything, the dialog will automatically disappear after about 30 seconds.

## EASY MENU

From the EASY MENU, items shown in the table below can be performed.

Select an item using the ▲/▼ cursor buttons on the projector or remote control. Follow the instructions below.



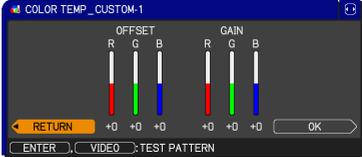
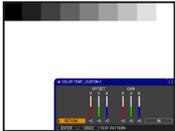
Item	Description																							
<b>ASPECT</b>	Using the ◀/▶ buttons switches the aspect ratio mode. See the ASPECT item in IMAGE menu (📖34).																							
<b>AUTO KEYSTONE</b>	Using the ▶ button executes the auto keystone function. See the AUTO KEYSTONE item in SETUP menu (📖40).																							
 <b>KEYSTONE</b>	Using the ◀/▶ buttons corrects the vertical keystone distortion. See the  KEYSTONE item in SETUP menu (📖40).																							
 <b>KEYSTONE</b>	Using the ◀/▶ buttons corrects the horizontal keystone distortion. See the  KEYSTONE item in SETUP menu (📖41).																							
<b>PICTURE MODE</b>	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.																							
	<p> </p> <table border="1"> <thead> <tr> <th></th> <th>COLOR TEMP</th> <th>GAMMA</th> </tr> </thead> <tbody> <tr> <td>NORMAL</td> <td>2 MID</td> <td>1 DEFAULT</td> </tr> <tr> <td>CINEMA</td> <td>3 LOW</td> <td>2 DEFAULT</td> </tr> <tr> <td>DYNAMIC</td> <td>1 HIGH</td> <td>3 DEFAULT</td> </tr> <tr> <td>BOARD(BLACK)</td> <td>4 Hi-BRIGHT-1</td> <td>4 DEFAULT</td> </tr> <tr> <td>BOARD(GREEN)</td> <td>5 Hi-BRIGHT-2</td> <td>4 DEFAULT</td> </tr> <tr> <td>WHITEBOARD</td> <td>2 MID</td> <td>5 DEFAULT</td> </tr> <tr> <td>DAYTIME</td> <td>6 Hi-BRIGHT-3</td> <td>6 DEFAULT</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• When the combination of GAMMA and COLOR TEMP differs from pre-assigned modes above, the display on the menu for the PICTURE MODE is "CUSTOM". Please refer to the GAMMA and COLOR TEMP (📖31, 32) items in PICTURE menu.</li> <li>• When this function is performed, lines or other distortions may appear.</li> </ul>		COLOR TEMP	GAMMA	NORMAL	2 MID	1 DEFAULT	CINEMA	3 LOW	2 DEFAULT	DYNAMIC	1 HIGH	3 DEFAULT	BOARD(BLACK)	4 Hi-BRIGHT-1	4 DEFAULT	BOARD(GREEN)	5 Hi-BRIGHT-2	4 DEFAULT	WHITEBOARD	2 MID	5 DEFAULT	DAYTIME	6 Hi-BRIGHT-3
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BOARD(GREEN)	5 Hi-BRIGHT-2	4 DEFAULT																						
WHITEBOARD	2 MID	5 DEFAULT																						
DAYTIME	6 Hi-BRIGHT-3	6 DEFAULT																						

(continued on next page)

**EASY MENU**

Item	Description
<b>ECO MODE</b>	Using the ◀/▶ buttons turns off/on the eco mode. See the ECO MODE item in SETUP menu (41).
<b>MIRROR</b>	Using the ◀/▶ buttons switches the mode for mirror status. See the MIRROR item in SETUP menu (41).
<b>RESET</b>	Resets all of the EASY MENU items except the FILTER TIME and LANGUAGE to factory default settings. A confirmation dialog is displayed. Selecting OK using the ▶ button performs resetting.
<b>FILTER TIME</b>	The usage time of the air filter is shown in the menu. Performing this item resets the filter time which counts usage time of the air filter. A confirmation dialog is displayed. Selecting the OK using the ▶ button performs resetting. See the FILTER TIME item in OPTION menu (48).
<b>LANGUAGE</b>	Using the ◀/▶ buttons changes the display language. See the LANGUAGE item in SCREEN menu (42).
<b>ADVANCED MENU</b>	Press the ▶ or <b>ENTER</b> button to use the menu of PICTURE, IMAGE, INPUT, SETUP, SCREEN, OPTION, NETWORK or SECURITY.
<b>EXIT</b>	Press the ◀ or <b>ENTER</b> button to finish the OSD menu.



Item	Description
<p><b>COLOR TEMP</b></p>	<p>Using the ▲/▼ buttons switches the color temperature mode.</p> <p style="text-align: center;">             1 HIGH ⇔ 1 CUSTOM ⇔ 2 MID ⇔ 2 CUSTOM              ⇕              6 CUSTOM <span style="float: right;">3 LOW</span>              ⇕              6 HI-BRIGHT-3 <span style="float: right;">3 CUSTOM</span>              ⇕              5 CUSTOM ⇔ 5 HI-BRIGHT-2 ⇔ 4 CUSTOM ⇔ 4 HI-BRIGHT-1         </p> <p style="text-align: center;"><b>To adjust CUSTOM</b></p> <p>Selecting a mode whose name includes CUSTOM and then pressing the ► button or the <b>ENTER</b> 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 for checking the effect of your adjustment by pressing the <b>ENTER</b> or <b>VIDEO</b> button.</p> <p>Each time you press the <b>ENTER</b> or <b>VIDEO</b> 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"> <li>• When this function is performed, lines or other distortion may appear.</li> </ul> 
<p><b>COLOR</b></p>	<p>Using the ◀/▶ buttons adjusts the strength of whole color.              Weak ⇨ Strong</p> <ul style="list-style-type: none"> <li>• This item can be selected not only for a video, S-video and component signal but also HDMI and DVI-D signal when the VIDEO is selected on the DIGITAL FORMAT item (Ⓜ37).</li> </ul>
<p><b>TINT</b></p>	<p>Using the ◀/▶ buttons adjusts the tint.              Reddish ⇨ Greenish</p> <ul style="list-style-type: none"> <li>• This item can be selected not only for a video, S-video and component signal but also HDMI and DVI-D signal when the VIDEO is selected on the DIGITAL FORMAT item (Ⓜ37).</li> </ul>
<p><b>SHARPNESS</b></p>	<p>Using the ◀/▶ buttons adjusts the sharpness.              Weak ⇨ Strong</p> <ul style="list-style-type: none"> <li>• There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.</li> </ul>

(continued on next page)

Item	Description								
<p><b>ACTIVE IRIS</b></p>	<p>Using the ▲/▼ cursor buttons changes the active iris control mode.            PRESENTATION ↔ THEATER ↔ MANUAL</p>  <table border="1" data-bbox="318 300 1014 488"> <thead> <tr> <th></th> <th>Feature</th> </tr> </thead> <tbody> <tr> <td>PRESENTATION</td> <td>Displays the best presentation image for both bright and dark applications.</td> </tr> <tr> <td>THEATER</td> <td>Displays the best theater image for both bright and dark applications.</td> </tr> <tr> <td>MANUAL</td> <td>The active iris can be set to a fixed brightness (0:dark - 7:bright)</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• The screen may flicker when the PRESENTATION or THEATER modes are selected. If this occurs select MANUAL.</li> </ul>		Feature	PRESENTATION	Displays the best presentation image for both bright and dark applications.	THEATER	Displays the best theater image for both bright and dark applications.	MANUAL	The active iris can be set to a fixed brightness (0:dark - 7:bright)
	Feature								
PRESENTATION	Displays the best presentation image for both bright and dark applications.								
THEATER	Displays the best theater image for both bright and dark applications.								
MANUAL	The active iris can be set to a fixed brightness (0:dark - 7:bright)								
<p><b>MY MEMORY</b></p>	<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>  <ul style="list-style-type: none"> <li>• This item can be selected for a video, S-video, component, HDMI and DVI-D signal when VIDEO is selected on the DIGITAL FORMAT item.</li> </ul> <p><b><u>SAVE-1, SAVE-2, SAVE-3, SAVE-4</u></b></p> <p>Performing a SAVE function saves the current adjustment data into the memory linked in the number included in the function's name.</p> <ul style="list-style-type: none"> <li>• Remember that the current data being stored of a memory will be lost by saving new data into the memory.</li> </ul> <p><b><u>LOAD-1, LOAD-2, LOAD-3, LOAD-4</u></b></p> <p>Performing a LOAD function loads the data from the memory linked in the number included in the function's name, and adjusts the picture automatically depending on the data.</p> <ul style="list-style-type: none"> <li>• The LOAD functions whose linked memory has no data are skipped.</li> <li>• Remember that the current adjusted condition will be lost by loading data. If you want to keep the current adjustment, please save it before performing a LOAD function.</li> <li>• There may be some noise and the screen may flicker for a moment when loading data. This is not malfunction.</li> <li>• The LOAD functions can be also performed by the MY MEMORY button which can be set by the MY BUTTON item in OPTION menu (49).</li> </ul>								



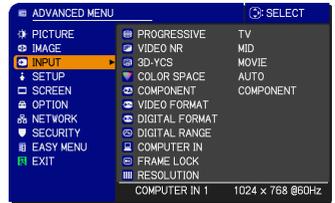
Item	Description
<b>H PHASE</b>	<p>Using the ◀/▶ buttons adjusts the horizontal phase to eliminate flicker. Right ⇔ Left</p> <ul style="list-style-type: none"> <li>• This item can be selected only for a computer signal or a component video signal. (except 480i@60, 576i@50, SCART RGB input. )</li> </ul>
<b>H SIZE</b>	<p>Using the ◀/▶ buttons adjusts the horizontal size. Small ⇔ Large</p> <ul style="list-style-type: none"> <li>• This item can be selected only for a computer signal.</li> <li>• When this adjustment is excessive, the picture may not be displayed correctly. In this case, please reset the adjustment by pressing the <b>RESET</b> button on the remote control during this operation.</li> </ul>
<b>AUTO ADJUST EXECUTE</b>	<p>Selecting this item performs the automatic adjustment feature.</p> <p><b>For a computer signal</b> The vertical position, the horizontal position and the horizontal phase will be automatically adjusted. Make sure that the application window is set to its maximum size prior to attempting to use this feature. A dark picture may still be incorrectly adjusted. Use a bright picture when adjusting.</p> <p><b>For a video signal and S-video signal</b> The video format best suited for the respective input signal will be selected automatically. This function is available only when the AUTO is selected for the VIDEO FORMAT item in the INPUT menu (📺37). The vertical position and horizontal position will be automatically set to the default.</p> <p><b>For a component video signal</b> The vertical position, horizontal position and horizontal phase will be automatically set to the default.</p> <ul style="list-style-type: none"> <li>• The automatic adjustment operation requires approx. 10 seconds. Also please note that it may not function correctly with some input. When this function is performed for a video signal, a certain extra such as a line may appear outside a picture.</li> <li>• 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 (📺50).</li> </ul>

## INPUT menu

From the INPUT menu, items shown in the table below can be performed.

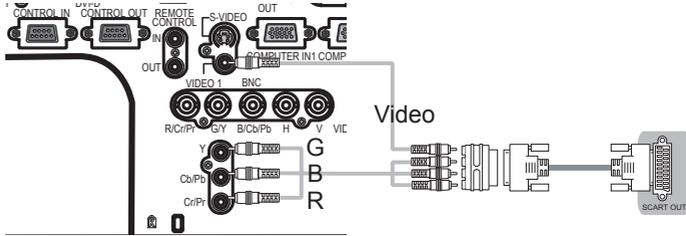
Select an item using the ▲/▼ cursor buttons on the projector or remote control, and press the ► cursor button on the projector or remote control, or ENTER button on the remote control to execute the item.

Follow the instructions below.



Item	Description
<b>PROGRESSIVE</b>	<p>Using the ▲/▼ buttons switches the progress mode.                      TV ⇄ FILM ⇄ OFF                      ↑—————↑</p> <ul style="list-style-type: none"> <li>This function is performed only for an interlaced signal at the <b>VIDEO 1</b>, <b>VIDEO 2</b> or <b>S-VIDEO</b> input, and for 480i@60, 576i@50 or 1080i@50/60 signal at the Component, <b>HDMI</b> or <b>DVI-D</b> input.</li> <li>When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In this case, please select OFF, even though the screen image may lose sharpness.</li> </ul>
<b>VIDEO NR</b>	<p>Using the ▲/▼ buttons switches the noise reduction mode.                      HIGH ⇄ MID ⇄ LOW                      ↑—————↑</p> <ul style="list-style-type: none"> <li>This function is performed only for the <b>VIDEO 1</b>, <b>VIDEO 2</b> or <b>S-VIDEO</b> input, and for 480i@60, 576i@50 or 1080i@50/60 signal at the Component, <b>HDMI</b> or <b>DVI-D</b> input.</li> <li>When this function is excessive, it may cause a certain degradation of the picture.</li> </ul>
<b>3D-YCS</b>	<p>Using the ▲/▼ buttons switches the 3D-YCS mode.                      Still ⇄ MOVIE ⇄ OFF                      ↑—————↑</p> <ul style="list-style-type: none"> <li>This function performs only at a <b>VIDEO 1</b> or <b>VIDEO 2</b> input of NTSC, and PAL.</li> <li>MOVIE is the mode for images with a lot of motions like movies, and still is the mode for images with few motions or completely still ones like slides.</li> </ul>
<b>COLOR SPACE</b>	<p>Using the ▲/▼ buttons switches the mode for color space.                      AUTO ⇄ RGB ⇄ SMPTE240 ⇄ REC709 ⇄ REC601                      ↑—————↑</p> <ul style="list-style-type: none"> <li>This item can be selected only for an RGB signal or a component video signal (except 480i@60, 576i@50 and SCART RGB).</li> <li>The AUTO mode automatically selects the optimum mode.</li> <li>The AUTO operation may not work well at some signals. In this case, it might be good to select a suitable mode except AUTO.</li> </ul>

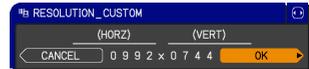
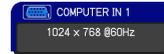
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Item	Description								
<p><b>COMPONENT</b></p>	<p>Using the ▲/▼ buttons switches the function of the Component (Y, Cb/Pb, Cr/Pr) port.</p> <p>COMPONENT ⇔ SCART RGB</p> <p>When the SCART RGB is selected, the Component (Y, Cb/Pb, Cr/Pr) and VIDEO 1 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> 								
<p><b>VIDEO FORMAT</b></p>	<p>Set the video format for the S-VIDEO, VIDEO 1 port and VIDEO 2 port.</p> <p>(1) Use the ▲/▼ buttons to select the input port.</p> <p>(2) Using the ◀/▶ buttons switches the mode for video format.</p> <p>AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM          ↕ N-PAL ⇔ M-PAL ⇔ NTSC4.43 ↕</p>  <ul style="list-style-type: none"> <li>• This item is performed only for a video signal from the VIDEO 1, VIDEO 2 port or the S-VIDEO port.</li> <li>• The AUTO mode automatically selects the optimum mode.</li> <li>• The AUTO operation may not work well for some signals. If the picture becomes unstable surface (e.g. an irregular picture, lack of color), please select the mode according to the input signal.</li> </ul>								
<p><b>DIGITAL FORMAT</b></p>	<p>Set the video format for the HDMI port and DVI-D port.</p> <p>(1) Use the ▲/▼ buttons to select the input port.</p> <p>(2) Using the ◀/▶ buttons switches the format of digital format.</p> <p>AUTO ⇔ VIDEO ⇔ COMPUTER</p> <table border="1" data-bbox="319 1295 1013 1412"> <thead> <tr> <th></th> <th>Feature</th> </tr> </thead> <tbody> <tr> <td>AUTO</td> <td>Selecting the optimum mode automatically.</td> </tr> <tr> <td>VIDEO</td> <td>Suitable for DVD signals</td> </tr> <tr> <td>COMPUTER</td> <td>Suitable for computer signals</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• If the COMPUTER is selected, COLOR, TINT, OVERSCAN can not be selected.</li> </ul>		Feature	AUTO	Selecting the optimum mode automatically.	VIDEO	Suitable for DVD signals	COMPUTER	Suitable for computer signals
	Feature								
AUTO	Selecting the optimum mode automatically.								
VIDEO	Suitable for DVD signals								
COMPUTER	Suitable for computer signals								

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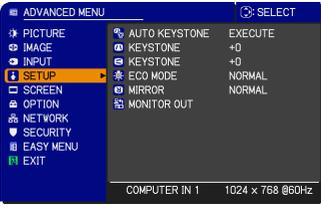
Item	Description
<p><b>RESOLUTION</b></p>	<p>The resolution for the <b>COMPUTER IN1</b>, <b>COMPUTER IN2</b> and <b>BNC</b> input signals can be set on this projector.</p> <p>In the <b>RESOLUTION</b> menu select the resolution you wish to display using the <b>▲/▼</b> buttons.</p> <p>■<b>AUTO</b> Selecting <b>AUTO</b> will set a resolution appropriate to the input signal.</p> <p>■<b>STANDARD</b> Pressing the <b>▶</b> or <b>ENTER</b> button when selecting a <b>STANDARD</b> resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size.</p> <p>The <b>INPUT-INFORMATION-</b> dialog (  55 ) will be displayed.</p> <p>■<b>CUSTOM</b> (1) To set a custom resolution use the <b>▲/▼</b> buttons to select the <b>CUSTOM</b> and the <b>CUSTOM RESOLUTION BOX</b> will be displayed. Set the horizontal (<b>HORZ</b>) and vertical (<b>VERT</b>) resolutions using the <b>▲/▼/◀/▶</b> buttons. This function may not support all resolutions.</p> <p>(2) To save the setting place the cursor on the right-most digit and press the <b>▶</b> button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted. After the <b>INPUT-INFORMATION-</b> dialog (  55 ) has displayed for about 3 seconds the screen will return to the <b>RESOLUTION</b> menu displaying the changed resolution.</p> <p>To revert back to the previous resolution without saving changes place the cursor on the left-most digit and press the <b>◀</b> button. The screen will then return to the <b>RESOLUTION</b> menu displaying the previous resolution.</p> <ul style="list-style-type: none"> <li>• For some images, this function may not work well.</li> </ul>



## SETUP menu

From the SETUP menu, items shown in the table below can be performed.

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 execute the item. Follow the instructions below.



Item	Description
<p style="text-align: center;"><b>AUTO KEYSTONE</b></p>	<p>Selecting this item performs automatic keystone distortion correction. Projector automatically corrects vertical keystone distortion due to the (forward/backward) setup angle by itself.</p> <p>This function will be executed only once when selected in the menu. When the slant of the projector is changed, execute this function again.</p> <ul style="list-style-type: none"> <li>• The adjustable range of this function will vary among inputs. For some inputs, this function may not work well.</li> <li>• When V:INVERT or H&amp;V:INVERT is selected to the MIRROR item in the SETUP menu, if the projector screen is inclined or angled downward, this function may not work correctly.</li> <li>• 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.</li> <li>• When the projector is placed on the level (about ±3°), this function may not work.</li> <li>• When the vertical lens shift is not set fully upward (not set fully downward for the optional lens type LENS-067 only (M51), this function may not work well.</li> <li>• When the horizontal lens shift is not set to the center, this function may not work well.</li> <li>• This function will be unavailable when the Transition Detector is on (M64).</li> </ul>
<p> <b>KEYSTONE</b></p>	<p>Using the ◀/▶ buttons corrects the vertical keystone distortion.</p> <p style="text-align: center;">Shrink the bottom of the image ⇔ Shrink the top of the image</p> <ul style="list-style-type: none"> <li>• The adjustable range of this function will vary among inputs. For some inputs, this function may not work well.</li> <li>• When the horizontal lens shift is not set to the center, this function may not work well.</li> <li>• This function will be unavailable when the Transition Detector is on (M64).</li> </ul>

(continued on next page)

Item	Description
<p> <b>KEYSTONE</b></p>	<p>Using the ◀/▶ buttons corrects the horizontal keystone distortion.            Shrink the left of the image ⇔ Shrink the right of the image</p> <ul style="list-style-type: none"> <li>• The adjustable range of this function will vary among inputs. For some inputs, this function may not work well.</li> <li>• 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.</li> <li>• When the vertical lens shift is not set fully upward (not set fully downward for the optional lens typeLENS-067 only (p.51), this function may not work well.</li> <li>• This function will be unavailable when the Transition Detector is on (p.64).</li> </ul>
<p><b>ECO MODE</b></p>	<p>Using the ▲/▼ buttons turns off/on the eco mode.            NORMAL ⇔ ECO</p> <ul style="list-style-type: none"> <li>• When the ECO is selected, acoustic noise and screen brightness are reduced.</li> </ul>
<p><b>MIRROR</b></p>	<p>Using the ▲/▼ buttons switches the mode for mirror status.</p> <div style="text-align: center;">  <p>NORMAL ⇔ H:INVERT ⇔ V:INVERT ⇔ H&amp;V:INVERT</p> <p>↑ _____ ↑</p> </div> <p>If the Transition Detector is on and MIRROR status is changed, Transition Detector alarm (p.64) will be displayed when projector is restarted after the power switch is turned off.</p> <ul style="list-style-type: none"> <li>• When V:INVERT or H&amp;V:INVERT is selected, functions of ▲/▼ cursor buttons on the projector are reversed after the dialog menu disappears.</li> </ul>
<p><b>MONITOR OUT</b></p>	<p>The combination of a picture shown on screen and output from the <b>MONITOR OUT</b> port can be arranged in the menu.            The picture coming into the port selected in the (2) is output to the <b>MONITOR OUT</b> port while an image from the port chosen in the (1) is on screen.</p> <p>(1) Choose a picture input port using ▲/▼ buttons.            • Choose <b>STANDBY</b>, to select the output signal from the <b>MONITOR OUT</b> port in the standby mode.</p> <p>(2) Select one of the <b>COPUTER IN</b> or <b>BNC</b> ports using ◀/▶ buttons.            COMPUTER IN1 ⇔ COMPUTER IN2            ⇔ OFF ⇔ BNC ⇔</p> <ul style="list-style-type: none"> <li>• OFF disables the <b>MONITOR OUT</b> port.</li> </ul> <div style="text-align: right;">  </div>



Item	Description		
<b>START UP</b>	<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 incorrect signal is detected.</p> <p style="text-align: center;">MyScreen ⇄ ORIGINAL ⇄ OFF</p> <p style="text-align: center;">↑—————↑</p>		
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;">Feature</td> </tr> </table>		Feature
		Feature	
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">MyScreen</td> <td style="width: 50%;">Screen can be registered by the MyScreen item (📖44).</td> </tr> </table>	MyScreen	Screen can be registered by the MyScreen item (📖44).
	MyScreen	Screen can be registered by the MyScreen item (📖44).	
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">ORIGINAL</td> <td style="width: 50%;">Screen preset as the standard screen.</td> </tr> </table>	ORIGINAL	Screen preset as the standard screen.	
ORIGINAL	Screen preset as the standard screen.		
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">OFF</td> <td style="width: 50%;">Plain black screen.</td> </tr> </table>	OFF	Plain black screen.	
OFF	Plain black screen.		
<ul style="list-style-type: none"> <li>• To avoid screen burn-in, the MyScreen or ORIGINAL screen will change to the BLANK screen (📖26) after several minutes. If the BLANK screen is the MyScreen or ORIGINAL, a solid black screen will display instead.</li> <li>• When the ON is selected to the MyScreen PASSWORD item in the SECURITY menu (📖62), the START UP is set to MyScreen.</li> </ul>			

(continued on next page)

Item	Description
<p><b>MyScreen</b></p>	<p>This item allows you to capture an image for use as a MyScreen image which can be used as the BLANK screen and START UP screen. Display the image you want to capture before accomplishing the following.</p> <ol style="list-style-type: none"> <li>1. Selecting this item displays a dialog titled “MyScreen”. It will ask you if you want to start capturing an image from the current screen.            <p>Please wait for the target image to be displayed, and press the <b>ENTER</b> or <b>VIDEO</b> button when the image is displayed. The image will freeze and the frame for capturing will appear.</p> <p>To stop performing, press the <b>RESET</b> or <b>COMPUTER</b> button on the remote control.</p> </li> <li>2. Using the <b>▲/▼/◀/▶</b> buttons adjusts the frame position.            <p>Please move the frame to the position of the image which you want to use. The frame may not be able to be moved for some input signals.</p> <p>To start registration, press the <b>ENTER</b> or <b>VIDEO</b> button on the remote control.</p>  <p>To restore the screen and return to the previous dialog, press the <b>RESET</b> or <b>COMPUTER</b> button on the remote control. Registration takes several minutes.</p> <p>When the registration is completed, the registered screen and the following message is displayed for several seconds:</p> <p><b>“MyScreen registration is finished.”</b></p> <p>If the registration failed, the following message is displayed:</p> <p><b>“A capturing error has occurred. Please try again.”</b></p> <ul style="list-style-type: none"> <li>• This item cannot be selected for an HDMI or a DVI-D signal.</li> <li>• This function cannot be selected when the ON is selected to the MyScreen Lock item ( <a href="#">62</a> below).</li> <li>• This function cannot be selected when the ON is selected to the MyScreen PASSWORD item in SECURITY menu ( <a href="#">62</a>).</li> </ul> </li> </ol>
<p><b>MyScreen Lock</b></p>	<p>Using the <b>▲/▼</b> buttons turns on/off the MyScreen lock function.</p> <p>ON ⇔ OFF</p> <p>When the ON is selected, the item MyScreen is locked. Use this function for protecting the current MyScreen.</p> <ul style="list-style-type: none"> <li>• This function cannot be selected when the ON is selected to the MyScreen PASSWORD item in SECURITY menu ( <a href="#">62</a>).</li> </ul>

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Item	Description
MESSAGE	<p>Using the ▲/▼ buttons turns on/off the message function. ON ⇔ OFF</p> <p>When the ON is selected, the following message function works. “AUTO IN PROGRESS” while automatically adjusting “NO INPUT IS DETECTED” “SYNC IS OUT OF RANGE” “INVALID SCAN FREQ” “Searching....” while searching for the input “Detecting....” while an input signal is detected The input signal which was just selected The aspect ratio which was just selected The PICTURE MODE which was just selected The ACTIVE IRIS mode which was just selected The MY MEMORY mode which was just selected The “FREEZE” and “II” when the FREEZE button has been pressed.</p> <ul style="list-style-type: none"> <li>• When the OFF is selected, please remember if the picture is frozen. Do not mistake freezing for a malfunction (105).</li> </ul>
SOURCE NAME	<p>Each input port for this projector can have a name applied to it.</p> <p>(1) Use the ▲/▼ buttons on the SCREEN menu to select SOURCE NAME and press the ► button. The SOURCE NAME menu will be displayed.</p> <p>(2) Use the ▲/▼ buttons on the SOURCE NAME menu to select the port to be named and press the ► button. Right side of the menu is blank until a name is specified. The SOURCE NAME dialog will be displayed.</p> <p>(3) The current name will be displayed on the first line. Use the ▲/▼/◀/▶ buttons and the ENTER or VIDEO button to select and enter characters. The RESET button can be used to erase 1 character at a time. Also if you move the cursor to DELETE or ALL CLEAR on screen and push the ENTER or VIDEO button, 1 character or all characters will be erased. The name can be a maximum of 16 characters.</p> <p>(4) To change an already inserted character, press the ▲ button to move the cursor to the first line, and use the ◀/▶ buttons to move the cursor on the character to be changed. After pressing the ENTER or VIDEO button, the character is selected. Then, follow the same procedure as described at the item (3) above.</p> <p>(5) To finish entering text, move the cursor to the OK on screen and press the ENTER or VIDEO button. To revert to the previous name without saving changes, move the cursor to the CANCEL on screen and press the ENTER or VIDEO button.</p>



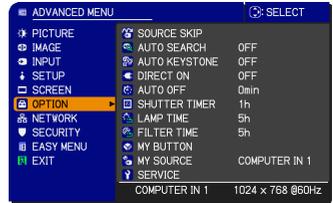
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Item	Description
<p><b>TEMPLATE</b></p>	<p>Using the ▲/▼ buttons switches the mode for the template screen.                      Press the ► button to display the selected template, and press the ◀ button to close the displayed screen.                      The last selected template is displayed when the <b>MY BUTTON</b> allocated to the TEMPLATE function is pressed (149).                      ↵ TEST PATTERN ⇔ DOT-LINE1 ⇐                      DOT-LINE4 ⇔ DOT-LINE3 ⇔ DOT-LINE2</p> 
<p><b>C.C. (Closed Caption)</b></p>	<p>C.C. is the function that displays a transcript or dialog of the audio portion of a video, files or other presentation or other relevant sounds. An NTSC format video or 480i@60 format component video source which supports closed captioning is required to use this function. Depending on the equipment or signal source, this feature may not work correctly. In this case, please turn off C.C.</p> <p><b>DISPLAY</b>                      Select Closed Caption DISPLAY setting from following options using ▲/▼ buttons.</p> <p>OFF ⇔ ON</p> <p>OFF: Closed Caption is off                      ON: Closed Caption is on</p> <ul style="list-style-type: none"> <li>• The caption is not displayed when the OSD menu is active.</li> <li>• Closed Caption displays the dialog, narration, and/or sound effects of a television program or other video sources. The Closed Caption availability is depending upon broadcaster and/or content.</li> </ul> <p><b>MODE</b>                      Select Closed Caption MODE setting from the following options using ▲/▼ buttons.</p> <p>CAPTIONS ⇔ TEXT</p> <p>CAPTIONS: Display Closed Caption                      TEXT: 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><b>CHANNEL</b>                      Select Closed Caption CHANNEL from the following options using ▲/▼ buttons.</p> <p>1 ⇔ 2 ⇔ 3 ⇔ 4</p> <p>↑ _____ ↑</p> <p>1: Channel 1, primary channel / language                      2: Channel 2                      3: Channel 3                      4: Channel 4</p> <p>The channel data may vary, depending on the content. Some channel might be used for secondary language or empty.</p>   

## OPTION menu

From the OPTION menu, items shown in the table below can be performed.

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 ENTER button on the remote control to execute the item, except for the items LAMP TIME and FILTER TIME. Follow the instructions below.



Item	Description
<b>SOURCE SKIP</b>	<p>The port that is set to the "SKIP" is ignored during a source search by the AUTO SEARCH function (see below) or the buttons of COMPUTER, VIDEO, or DIGITAL (see 22).</p> <p>(1) Choose a picture input port using ▲/▼ buttons.                      (2) Using the ◀/▶ buttons turns on/off the SOURCE SKIP function.                      NORMAL ⇄ SKIP</p> <ul style="list-style-type: none"> <li>• "SKIP" is not available when specifying one certain input port by MY SOURCE button etc.</li> </ul>
<b>AUTO SEARCH</b>	<p>Using the ▲/▼ buttons turns on/off the automatic signal search function.                      ON ⇄ OFF</p> <p>When the ON is selected, detecting no signal automatically cycles through input ports in the following order. The search is started from the current port. Then when an input is found, the projector will stop searching and display the image.</p> <p>COMPUTER IN1 ⇄ COMPUTER IN2 ⇄ BNC ⇄ HDMI ⇄ DVI-D ⇄ VIDEO 2 ⇄ VIDEO 1 ⇄ S-VIDEO ⇄ COMPONENT</p> <ul style="list-style-type: none"> <li>• The port that is set to the "SKIP" is ignored in searching by the AUTO SEARCH function (see above).</li> </ul>
<b>AUTO KEYSTONE</b>	<p>Using the ▲/▼ buttons turns on/off the automatic keystone function.                      ON ⇄ OFF</p> <p>ON : Automatic keystone distortion correction will be executed whenever changing the slant of the projector.                      OFF : This function is disabled. Please execute the AUTO KEYSTONE in the SETUP menu for automatic keystone distortion correction.</p> <ul style="list-style-type: none"> <li>• When the projector is suspended from the ceiling this feature will not function properly so select the OFF.</li> <li>• This function will be unavailable when the Transition Detector is on (see 22).</li> </ul>

(continued on next page)

Item	Description
<p><b>DIRECT ON</b></p>	<p>Using the ▲/▼ buttons turns on/off the DIRECT ON function. ON ⇔ OFF</p> <p>When set to the ON, the lamp in projector will be automatically turned on without the usual procedure (19), only when the projector is supplied with the power after the power was cut while the lamp was on.</p> <ul style="list-style-type: none"> <li>• This function does not work as long as the power has been supplied to the projector while the lamp is off.</li> <li>• After turning the lamp on by the DIRECT ON function, if neither input nor operation is detected for about 30 minutes, the projector is turned off, even though the AUTO OFF function (18 below) is disabled.</li> </ul>
<p><b>AUTO OFF</b></p>	<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;">   </div> <p>When the time is set to 0, the projector is not turned off automatically. When the time is set to 1 to 99, and when the passed time with no-signal or an incorrect signal reaches at the set time, the projector lamp will be turned off.</p> <p>If one of the projector's buttons or the remote control buttons is pressed or one of the commands (except get commands) is transmitted to the <b>CONTROL</b> port during the corresponding time, projector will not be turned off.</p> <p>Please refer to the section "Turning off" (20).</p>
<p><b>SHUTTER TIMER</b></p>	<p>Using the ▲/▼ buttons adjusts the time with shutter closed to count down to automatically turn the projector off. 1h ⇔ 3h ⇔ 6h</p>  <ul style="list-style-type: none"> <li>• The shutter will open automatically when turning the projector on again.</li> </ul>
<p><b>LAMP TIME</b></p>	<p>The lamp time is the usage time of the lamp, counted after the last resetting. It is shown in the OPTION menu.</p> <p>Pressing the <b>RESET</b> button on the remote control or the ► button of the projector displays a dialog.</p> <p>To reset the lamp time, select the OK using the ► button. CANCEL ⇔ OK</p> <ul style="list-style-type: none"> <li>• Please reset the lamp time after you have replaced the lamp, for a suitable indication about the lamp.</li> <li>• For the lamp replacement, see the section "Lamp unit" (67, 68).</li> </ul>
<p><b>FILTER TIME</b></p>	<p>The filter time is the usage time of the air filter, counted after the last resetting. It is shown in the OPTION menu.</p> <p>Pressing the <b>RESET</b> button on the remote control or the ► button of the projector displays a dialog.</p> <p>To reset the filter time, select the OK using the ► button. CANCEL ⇔ OK</p> <ul style="list-style-type: none"> <li>• Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.</li> <li>• For the air filter cleaning, see the section "Filter unit" (69).</li> </ul>

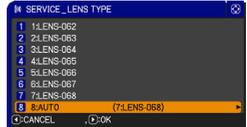
Item	Description
<p><b>MY BUTTON</b></p>	<p>This item is to assign one of the following functions to <b>MY BUTTON</b> -(1 to 4) on the remote control (☞7).</p> <p>(1) Use the ▲/▼ buttons on the MY BUTTON menu to select a MY BUTTON - (1 to 4) and press the ► button to display the MY BUTTON setup dialog.</p> <p>(2) Then using the ▲/▼/◀/▶ buttons sets one of the following functions to the chosen button.</p> <ul style="list-style-type: none"> <li>• COMPUTER IN1: Sets port to <b>COMPUTER IN1</b>.</li> <li>• COMPUTER IN2: Sets port to <b>COMPUTER IN2</b>.</li> <li>• BNC: Sets port to <b>BNC</b>.</li> <li>• HDMI: Sets port to <b>HDMI</b>.</li> <li>• DVI-D: Sets port to <b>DVI-D</b>.</li> <li>• COMPONENT: Sets port to Component (<b>Y, Cb/Pb, Cr/Pr</b>).</li> <li>• S-VIDEO: Sets port to <b>S-VIDEO</b>.</li> <li>• VIDEO 1: Sets port to <b>VIDEO 1</b>.</li> <li>• VIDEO 2: Sets port to <b>VIDEO 2</b>.</li> <li>• INFORMATION: Displays the INPUT -INFORMATION- (☞55) or the NETWORK -INFORMATION- (☞55) or nothing.</li> <li>• AUTO KEYSTONE : Performs automatic keystone distortion correction (☞47).</li> <li>• MY MEMORY: Loads one of adjustment data stored (☞33).</li> </ul> <p>When more than one data are saved, the adjustment changes every time the <b>MY BUTTON</b> is pushed.</p> <p>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 as shown in the right appears.</p> <p>If you want to keep the current adjustment, please press the ► button to exit. Otherwise loading a data will overwrite the current adjusted condition.</p> <ul style="list-style-type: none"> <li>• ACTIVE IRIS: Changes the active iris mode.</li> <li>• PICTURE MODE: Changes the PICTURE MODE (☞29).</li> <li>• FILTER RESET: Displays the filter time reset confirmation dialog (☞48).</li> <li>• TEMPLATE: Makes the template pattern selected to the TEMPLATE item (☞46) appear or disappear.</li> <li>• P by P SWAP: Swaps the picture of right side with left side in the P by P mode.(☞27)</li> <li>• LENS MEMORY-1: Loads the LENSMEMORY-1</li> <li>• LENS MEMORY-2: Loads the LENSMEMORY-2</li> <li>• LENS MEMORY-3: Loads the LENSMEMORY-3</li> </ul> <p>It shifts the lens position in accordance with the memory saved for the type of the present lens unit.</p> <p>When there is no memory for the lens type, this function is ignored.</p> <ul style="list-style-type: none"> <li>• MY IMAGE: Displays the MY IMAGE menu (☞59).</li> </ul>
<p><b>MY SOURCE</b></p>	<p>This item is to assign an input signals to <b>MY SOURCE</b> button on the remote control (☞22). Using the ▲/▼ buttons sets one of the input signal.</p> 

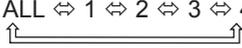
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Item	Description
<p><b>SERVICE</b></p>	<p>Selecting this item displays the SERVICE menu. Select an item using the ▲/▼ buttons, and press the ► button or the ENTER button on the remote control to execute the item.</p> <p><b>FAN SPEED</b> Using the ▲/▼ buttons switches the rotation speed of the cooling fans. The HIGH is the mode for use at highlands etc. Note that the projector is noisier when the HIGH is selected. HIGH ⇔ NORMAL</p> <p><b>AUTO ADJUST</b> Using the ▲/▼ buttons to select one of the mode. When the DISABLE is selected, the automatic adjustment feature is disabled. FINE ⇔ FAST ⇔ DISABLE</p> <p style="text-align: center;">↑—————↑</p> <p>FINE: Finer tuning including H.SIZE adjustment. FAST: Faster tuning, setting H.SIZE to prearranged data for the input signal.</p> <ul style="list-style-type: none"> <li>Depending on conditions, such as input image, signal cable to the projector, environment around the projector, etc., the automatic adjustment may not work correctly. In this case, please choose DISABLE to disable the automatic adjustment, and make adjustment manually.</li> </ul> <p><b>GHOST</b> 1. Select a color element of ghost using the ◀/▶ buttons. 2. Adjust the selected element using the ▲/▼ buttons to disappear ghost.</p> <p><b>FILTER MESSAGE</b> Use the ▲/▼ button to set the timer for notifying by the message when to replace the filter unit 2000h ⇔ 5000h ⇔ 10000h ⇔ OFF</p> <p>After choosing an item except OFF, the message “REMINDER *** HRS PASSED AFTER THE LAST FILTER CHANGE” will appear after the timer reaches the interval time set by this feature (1171). When the OFF is chosen, the message will not appear. Utilize this feature to keep the air filter clean, setting the suitable time according to your environment of this projector. Refer to the following criterion. 2000h: recommended for use in an indoor environment in a so dusty area, such as a desert or an area in which yellow sands float. 5000h: recommended for use in an indoor environment, such as a place by a window, near a passage. 10000h: recommended for use in a general indoor environment.</p> <ul style="list-style-type: none"> <li>Please take care of the filter unit periodically, even if there is no message. If the air filter becomes to be blocked by dust or other matter, the internal temperature will rise, which could cause malfunction, or reduce the lifetime of the projector.</li> <li>Please be careful with the operating environment of the projector and the condition of the filter unit.</li> </ul>
	
	
	
	

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Item	Description
<p><b>SERVICE</b> (continued)</p>	<p><b>LENS TYPE</b> Select the lens type currently used using the ▲/▼ buttons. 1:LENS-062 ⇔ 2:LENS-063 ⇔ 3:LENS-064 ⇔ 4:LENS-065 ⤴ 8:AUTO ⇔ 7:LENS-068 ⇔ 6:LENS-067 ⇔ 5:LENS-066 ⤵ Please select one of them referring to the following. 1: for a standard lens (LENS-062) 2: for an ultra long throw lens (LENS-063) 3: for a long throw lens (LENS-064) 4: for a short throw lens (LENS-065) 5: for a short throw lens (LENS-066) 6: for an ultra short throw lens (LENS-067) 7: for a standard lens (LENS-068) 8: AUTO</p> <ul style="list-style-type: none"> <li>• Selecting the lens type will shift the lens to center. While the lens is shifting, the menu will disappears and an hourglass icon will appears on screen. Shifting may takes some time.</li> <li>• This setting has an influence on the keystone distortion etc.</li> <li>• About the optional lens, ask your dealer.</li> </ul>
	<p><b>LENS LOCK</b> Using the ▲/▼ buttons turns on/off the key lock feature. When ON is selected, the buttons (<b>ZOOM, FOCUS, LENS SHIFT, LENS MEMORY (MY BUTTON)</b>) are locked. ON ⇔ OFF</p>
	<p><b>KEY LOCK</b> Using the ▲/▼ buttons turns on/off the lens lock feature. When ON is selected, the buttons on the projector except the <b>STANDBY/ON</b> button are locked. ON ⇔ OFF</p> <ul style="list-style-type: none"> <li>• Please use this function to prevent tampering or accidental operation. This function does not have any effect on the remote control.</li> </ul>
	<p><b>REMOTE RECEIV.</b> (1) Select a remote sensor using the ◀/▶ button. 1:FRONT ⇔ 2:TOP ⇔ 3:REAR ↑</p> <p>(2) Switch it using the ◀/▶ button. ON ⇔ OFF</p> <ul style="list-style-type: none"> <li>• A sensor cannot be turned off when the other two are off. Always at least one sensor is on.</li> </ul> <p><b>REMOTE FREQ.</b> (1) Use the ▲/▼ button to change the projector's remote sensor frequency setting (17). 1:NORMAL ⇔ 2:HIGH (2) Use the ◀/▶ button to change the projector's remote sensor on or off. ON ⇔ OFF</p> <p>The factory default setting is for both 1:NORMAL and 2:HIGH to be on. If the remote control does not function correctly, set the this to either only 1 or only 2 as described in Remote Control Settings (17). Neither can be turned off simultaneously.</p>



Item	Description
<p><b>SERVICE</b> (continued)</p>	<p><b>REMOTE ID</b> Use the ▲/▼ buttons on the REMOTE ID menu to select ID and press the ► button. ALL ⇔ 1 ⇔ 2 ⇔ 3 ⇔ 4 </p> <p>The projector is controlled by the remote control whose ID button is set the same number as this number. When the ALL is selected, the projector is controlled by a remote control irrespective of the ID setting.</p>
	<p>COMMUNICATION</p> <p>Selecting this item displays COMMUNICATION menu. In this menu, you can configure the communication settings of the <b>CONTROL IN</b> and the <b>CONTROL OUT</b> ports.</p>  <p>COMMUNICATION TYPE ⇔ SERIAL IN SETTING ⇕ COMMUNICATION ID                      SERIAL OUT SETTING ⇕ COMMUNICATION GROUP              TRANSMISSION METHOD ⇕ BYTES INTERVAL TIMEOUT ⇔ RESPONSE LIMIT TIME</p> <ul style="list-style-type: none"> <li>• Select an item using the cursor buttons ▲/▼. Then pressing the ► button opens the submenu for the setting item you selected. Or, pressing the ◀ button instead of the ► button makes the menu back to the previous one without changing the setup. Each submenu can be operated as described above.</li> </ul> <div style="border: 1px solid black; border-radius: 15px; padding: 10px;"> <p><b>NOTE</b> • The selectable items on the COMMUNICATION menu are varied according to the setup of the COMMUNICATION TYPE.</p> <ul style="list-style-type: none"> <li>• For the function of serial communication, refer to the Network Guide ( Network Guide - 3.7, 3.8).</li> </ul> </div> <p><b>COMMUNICATION TYPE</b> In this menu, you can select the communication type for transmission from the <b>CONTROL OUT</b> port.</p>  <p>NETWORK BRIDGE ⇔ DAISY CHAIN ⇔ OFF </p> <p><b>NETWORK BRIDGE:</b> Select this type, if it is required to control an external device as a network terminal, via this projector from the computer. ( Network Guide - 3.7 Controlling the external equipment via the projector (using the NETWORK BRIDGE function))</p>



Item	Description
<p><b>SERVICE (continued)</b></p>	<p><b>COMMUNICATION (continued)</b></p> <p><b>RESPONSE LIMIT TIME</b>            This menu is available only when the NETWORK BRIDGE is selected for the COMMUNICATION TYPE and the HALF-DUPLEX is selected for the TRANSMISSION METHOD.            Select the time period to wait for receiving response data from other device communicating by the NETWORK BRIDGE and the HALF-DUPLEX through the <b>CONTROL OUT</b> port.            OFF ⇔ 1s ⇔ 2s ⇔ 3s              OFF: Select this mode if it is not required to check the responses from the device that the projector sends data to. In this mode, the projector can send out data from the computer continuously.            1s/2s/3s: Select the time period to keep the projector waiting for response from the device that the projector sends data to. While waiting the response, the projector does not send out any data from the <b>CONTROL OUT</b> port.</p> <p><b>NOTE</b> • OFF is selected as the default setting.</p> <p><b>BYTES INTERVAL TIMEOUT</b>            This menu is available only when NETWORK BRIDGE is selected for the COMMUNICATION TYPE and HALF-DUPLEX is selected for the TRANSMISSION METHOD.            Select the blank time length to judge that the response data has finished in the communicating in the condition of the NETWORK BRIDGE and the HALF-DUPLEX through the <b>CONTROL OUT</b> port.            50ms ⇔ 100ms ⇔ 150ms ⇔ 200ms  </p> <p><b>NOTE</b> • 50ms is selected as the default setting.</p>

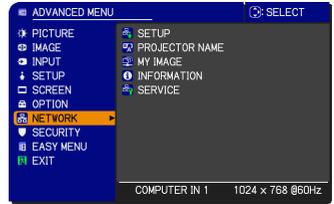
Item	Description
<p>COMMUNICATION (continued)</p>	<p><b>COMMUNICATION GROUP / COMMUNICATION ID</b>            This menu is available only when DAISY CHAIN is selected for the COMMUNICATION TYPE.            In simultaneous control of multiple projectors by a daisy chain, you can give the projectors the communication group identification and the ID number to identify projectors connected in the same bus.</p> <p>COMMUNICATION GROUP:            A ⇄ B ⇄ C ... O ⇄ P  </p> <p>COMMUNICATION ID:            1 ⇄ 2 ⇄ 3 ... 63 ⇄ 64  </p>   <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>NOTE</b> • The A is selected for the COMMUNICATION GROUP, and 1 is selected for the COMMUNICATION ID as the default settings.</p> </div>
<p>SERVICE (continued)</p>	<p><b>INFORMATION</b>            Selecting this item displays a dialog titled “INPUT-INFORMATION-”. It shows the information about the current input.</p>  <ul style="list-style-type: none"> <li>• The “FRAME LOCK” message on the dialog means the frame lock function is working.</li> <li>• The “SCART RGB” message means the Component port is working as a SCART RGB input port. Please refer to the COMPONENT item in INPUT menu (p.37).</li> <li>• This item can't be selected for no signal and sync out.</li> <li>• When the MY TEXT DISPLAY is set to ON, the MY TEXT is displayed together with the input information in the INPUT-INFORMATION- box (p.66).</li> </ul> <p><b>FACTORY RESET</b>            Selecting OK using ► the button performs this function. By this function, all the items in all of menus will collectively return to the initial setting. Note that the items LAMP TIME, FILTER TIME, LANGUAGE, SECURITY and NETWORK settings are not reset.            CANCEL ⇄ OK</p>

NETWORK menu

Remember that incorrect network settings on this projector may cause trouble on the network. Be sure to consult with your network administrator before connecting to an existing access point on your network.

Select "NETWORK" from the main menu to access the following functions.

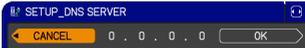
Select an item using the ▲/▼ cursor buttons on the projector or remote control, and press the ► cursor button on the projector or remote control, or ENTER button on the remote control to execute the item. Follow the instructions below. See the User's Manual - Network Guide for details of NETWORK operation.



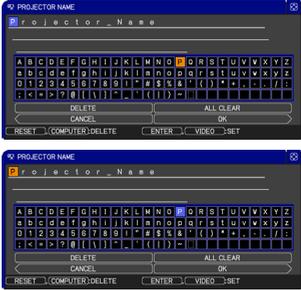
**NOTE** • If you are not using SNTP (📅Date/Time Settings of the User's Manual - Network Guide), then you must set the DATE AND TIME during the initial installation.

Item	Description	
<p><b>SETUP</b></p>	<p>Selecting this item displays the SETUP Menu for the network. Use the ▲/▼ buttons to select an item, and the ► or ENTER button on the remote control to perform the item.</p> 	
	<p><b>DHCP</b> (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.</p> <ul style="list-style-type: none"> <li>• When the "DHCP" setting changes to "ON", it takes a little time to obtain IP address from DHCP server.</li> <li>• 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".</li> </ul> 

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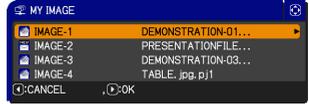
Item	Description
<b>SETUP</b> (continued)	<p data-bbox="437 185 725 261">Use the ▲/▼/◀/▶ buttons to enter the IP ADDRESS.</p>  <p data-bbox="437 272 994 323">This function can only be used when DHCP is set to OFF.</p> <ul data-bbox="437 333 1023 437" style="list-style-type: none"> <li>• The IP ADDRESS is the number that identifies this projector on the network. You cannot have two devices with the same IP ADDRESS on the same network.</li> <li>• The IP ADDRESS "0.0.0.0" is prohibited.</li> </ul>
	<p data-bbox="437 451 714 560">Use the ▲/▼/◀/▶ buttons to enter the same SUBNET MASK used by your PC.</p>  <p data-bbox="437 568 994 619">This function can only be used when DHCP is set to OFF.</p> <ul data-bbox="437 628 913 655" style="list-style-type: none"> <li>• The SUBNET MASK "0.0.0.0" is prohibited.</li> </ul>
	<p data-bbox="437 668 673 745">Use the ▲/▼/◀/▶ buttons to enter the DEFAULT GATEWAY</p>  <p data-bbox="437 751 964 802">(a node on a computer network that serves as an access point to another network) address.</p> <p data-bbox="437 804 994 855">This function can only be used when DHCP is set to OFF.</p>
	<p data-bbox="437 869 703 946">Use the ▲/▼/◀/▶ buttons to input the DNS server address.</p>  <p data-bbox="437 954 1011 1005">The DNS server is a system to control domain names and IP addresses on the Network.</p>
	<p data-bbox="437 1023 753 1074">Use the ▲/▼ buttons to enter the TIME DIFFERENCE.</p> <p data-bbox="437 1075 714 1184">Set the same TIME DIFFERENCE as the one set on your PC. If unsure, consult your IT manager.</p> <p data-bbox="437 1185 736 1262">Use the ▶ button to return to the menu after setting the TIME DIFFERENCE.</p> 
	<p data-bbox="437 1278 673 1329">Use the ▲/▼/◀/▶ buttons to enter the</p>  <p data-bbox="437 1331 768 1382">Year (last two digits), Month, Date, Hour and Minute.</p> <ul data-bbox="437 1390 1031 1493" style="list-style-type: none"> <li>• The projector will override this setting and retrieve DATE AND TIME information from the Time server when SNTP is enabled. (📘 <a href="#">Date/Time Settings of the User's Manual - Network Guide</a>)</li> </ul>

(continued on next page)

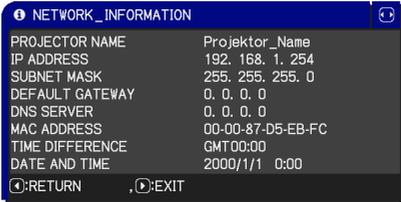
Item	Description
<p><b>PROJECTOR NAME</b></p>	<p>(1) Use the ▲/▼ buttons on the NETWORK menu to select the PROJECTOR NAME menu and press the ► button. The PROJECTOR NAME dialog will be displayed.</p> 
	<p>(2) The current PROJECTOR NAME will be displayed on the first 3 lines. If not yet written, the lines will be blank. Use the ▲/▼/◀/► buttons and the <b>ENTER</b> or <b>VIDEO</b> button to select and enter characters. The <b>RESET</b> or <b>COMPUTER</b> button can be used to erase 1 character at a time. Also if you move the cursor to <b>DELETE</b> or <b>ALL CLEAR</b> on screen and push the <b>ENTER</b> or <b>VIDEO</b> button, 1 character or all characters will be erased. The PROJECTOR NAME can be input up to 64 characters.</p> <p>(3) To change an already inserted character, press the ▲/▼ button to move the cursor to one of the first 3 lines, and use the ◀/► buttons to move the cursor on the character to be changed. After pressing the <b>ENTER</b> or <b>VIDEO</b> button, the character is selected. Then, follow the same procedure as described at the item (2) above.</p> 
	<p>(4) To finish entering text, move the cursor to the OK on screen and press the ►, <b>ENTER</b> or <b>VIDEO</b> button. To revert to the previous PROJECTOR NAME without saving changes, move the cursor to the CANCEL on screen and press the ◀, <b>ENTER</b> or <b>VIDEO</b> button.</p>

(continued on next page)

Item	Description
<p><b>MY IMAGE</b></p>	<p>Selecting this item displays the MY IMAGE menu.</p> <p>The application software “PImage” is required to store image(s) into the projector.</p> <p>Use the ▲/▼ buttons to select an item which is a still image by the MY IMAGE (<b>MY IMAGE (Still Image Transfer) Display of the User’s Manual - Network Guide</b>) and the ► or ENTER button to display the image.</p> <ul style="list-style-type: none"> <li>• The item without image stored cannot be selected.</li> <li>• The image names are each displayed in 16 characters or less.</li> </ul> <p><b>To switch the image displayed</b></p> <p>Use the ▲/▼ buttons.</p> <p><b>To return to the menu</b></p> <p>Press the ◀ button on the remote control.</p> <p><b>To erase the image displayed and its source file in the projector.</b></p> <p>(1) Press the RESET button on the remote control while displaying an image to display the MY IMAGE DELETE menu.</p> <p>(2) Press the ► button to perform to erase. To stop erasing, press the ◀ button.</p>



(continued on next page)

Item	Description
<p><b>INFORMATION</b></p>	<p>Selecting this item displays the NETWORK -INFORMATION- dialog for confirming the network settings.</p>  <ul style="list-style-type: none"> <li>• Only the first 16 characters of the projector name are displayed.</li> <li>• Nothing (blank) is shown in the “PROJECTOR NAME” field until you setup the item (158).</li> <li>• When the voltage level of the battery for the built in clock decreases, the set time may become incorrect even though accurate date and time are input. Replace the battery suitably (170).</li> <li>• IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY indicate “0.0.0.0” when DHCP is ON and the projector has not gotten address from DHCP server.</li> </ul>
<p><b>SERVICE</b></p>	<p>Executing this item restarts and initializes the network functions. Choose the RESTART EXECUTE using the button ►.</p>  <p>Then use the button ► to execute.</p>  <p>Network will be once cut off when choose restart. If DHCP is selected on, IP address may be changed. After selecting RESTART EXECUTE, NETWORK menu may not be controlled approx. 30 seconds.</p>

# SECURITY menu

This projector is equipped with security functions. From the SECURITY menu, items shown in the table below can be performed.

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



## Enter the SECURITY menu

1. Use the ▲/▼ buttons on the SECURITY menu to select ENTER PASSWORD and press the ► button. The ENTER PASSWORD box will be displayed.

### 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 **COMPUTER** button for 3 seconds while pressing the ► button on the projector.
2. The 10 digit Inquiring Code will be displayed. Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.



- If there is no key input for about 55 seconds while the Inquiring Code is displayed, the menu will close. If necessary, repeat the process from 1.

2. Use the ▲/▼/◀/▶ buttons to enter the registered password. The factory default password is **2033 (IN5542/IN5542c); 0433 (IN5544/IN5544c)**. This password can be changed (📖 SECURITY PASSWORD CHANGE). Move the cursor to the right side of the ENTER PASSWORD box and press the ► button to display the SECURITY menu.



- It is strongly recommended the factory default password to be changed as soon as possible.
- If an incorrect password is input, the ENTER PASSWORD box will be displayed again. If incorrect password is input 3 times, the projector will turn off. Afterwards the projector will turn off every time an incorrect password is input.



3. Items shown in the table below can be performed.

Item	Description
<p><b>SECURITY PASSWORD CHANGE</b></p>	<ol style="list-style-type: none"> <li>1 Use the ▲/▼ buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► button to display the ENTER NEW PASSWORD box.</li> <li>2 Use the ▲/▼/◀/▶ buttons to enter the new password.</li> <li>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.</li> <li>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 20 seconds, please make note of the password during this time.                             <ul style="list-style-type: none"> <li>• Pressing the <b>ENTER</b> button on the remote control or ► button on the projector will close the NOTE NEW PASSWORD box.</li> <li>• Please do not forget your password.</li> </ul> </li> </ol>



Item	Description
<p><b>MyScreen PASSWORD</b></p>	<p>The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the currently registered MyScreen image from being overwritten.</p> <p><b>1 Turning on the MyScreen PASSWORD</b></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 for about 20 seconds, please make note of the password during this time.</p> <ul style="list-style-type: none"> <li>Pressing the <b>ENTER</b> button on the remote control or ► button on the projector will return to MyScreen PASSWORD on/off menu.</li> </ul> <p>When a password is set for MyScreen:</p> <ul style="list-style-type: none"> <li>The MyScreen registration function (and menu) will be unavailable.</li> <li>The MyScreen Lock menu will be unavailable.</li> <li>The START UP setting will be locked on MyScreen (and the menu will be unavailable).</li> </ul> <p>Turning the MyScreen PASSWORD off will allow normal operation of these functions.</p> <ul style="list-style-type: none"> <li>Please do not forget your MyScreen PASSWORD.</li> </ul> <p><b>2 Turning off the MyScreen PASSWORD</b></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 registered password and the screen will return to the MyScreen on/off menu.</p> <p>If an incorrect PASSWORD is input, the menu will close. If necessary, repeat the process from 2-1.</p> <p><b>3 If you have forgotten your password</b></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). The 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 after your user registration information is confirmed.</p>



ENTER NEW PASSWORD box (small)



ENTER PASSWORD box (large)

(continued on next page)

Item	Description
<p><b>PIN LOCK</b></p>	<p>PIN LOCK is a function which prevents the projector from being used unless a registered Code is input.</p> <p><b>1 Turning on the PIN LOCK</b></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 part PIN code using the ▲/▼/◀/▶, COMPUTER button.</p> <p>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"> <li>• If there is no key input for about 55 seconds while the Enter PIN Code box or the PIN Code again box is displayed, the menu will close. If necessary, repeat the process from 1-1.</li> </ul> <p>Afterwards, anytime the projector is restarted after the power switch is turned off the Enter PIN Code box will be displayed. Enter the registered PIN code. The projector can be used after entering the registered PIN code. If an incorrect PIN code is input, the Enter PIN code box will be displayed again.</p> <p>If an incorrect PIN Code is input 3 times, the projector will turn off. Afterwards the projector will turn off every time an incorrect PIN code is input. The projector will also turn off if there is no key input for about 5 minutes while the Enter PIN Code box is displayed. This function will activate only when the projector is started after the power switch was turned off.</p> <ul style="list-style-type: none"> <li>• Please do not forget your PIN code.</li> </ul> <p><b>2 Turning off the PIN LOCK</b></p> <p>2-1 Follow the procedure in 1-1 to display the PIN LOCK on/off menu. 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 password is input 3 times, the menu will close.</p> <p><b>3 If you have forgotten your PIN Code</b></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 COMPUTER button for 3 seconds while pressing the ► button on the projector.</p> <p>The 10 digit Inquiring Code will be displayed.</p> <ul style="list-style-type: none"> <li>• If there is no key input for about 5 minutes while the Inquiring Code is displayed, the projector will turn off.</li> </ul> <p>3-2 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.</p>



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Item	Description
<p><b>TRANSITION DETECTOR</b></p>	<p>If this function is set to ON when the vertical angle of the projector or mirror setting at which the projector is turned on is different than the previously recorded, the TRANSITION DETECTOR ON alarm will be displayed and the projector will not display the input signal.</p> <ul style="list-style-type: none"> <li>To display the signal again, set this function OFF.</li> <li>After about 5 minutes of displaying the TRANSITION DETECTOR ON alarm, the lamp will turn off.</li> <li>Keystone adjustment feature has been prohibited as long as the Transition Detector function is on.</li> </ul> <p><b>1 Turning on the TRANSITION DETECTOR</b></p> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select TRANSITION DETECTOR and press the ► or the 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. Select ON and the current angle and mirror setting will be recorded. 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 for about 20 seconds, please make note of the password during this time.</p> <ul style="list-style-type: none"> <li>Pressing the ENTER button on the remote control or the ► button on the projector will return to the TRANSITION DETECTOR on/off menu.</li> <li>Please do not forget your TRANSITION DETECTOR password.</li> </ul> <ul style="list-style-type: none"> <li>This function will activate only when the projector is started after the power switch was turned off.</li> <li>This feature may not function properly if the projector is not in a stable position when ON is selected.</li> </ul> <p><b>2 Turning off the TRANSITION DETECTOR</b></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 registered password and the screen will return to the TRANSITION DETECTOR on/off menu.</p> <p>If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1.</p> <p><b>3 If you have forgotten your password</b></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). The 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 after your user registration information is confirmed.</p>
	<div data-bbox="840 183 1030 311" style="border: 1px solid red; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; color: red;">-&lt;&lt;TRANSITION DETECTOR ON&gt;&gt;-</p> <p style="text-align: center; color: red; font-size: small;">The projector has been transferred from previously installed position.</p> <p style="text-align: center; color: red; font-size: x-small;">If you wish to have a square image on screen again, disable Transition Detector on Menu.</p> </div> <div style="display: flex; justify-content: space-between;"> <div data-bbox="308 422 823 1077" style="width: 80%;"> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select TRANSITION DETECTOR and press the ► or the 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. Select ON and the current angle and mirror setting will be recorded. 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 for about 20 seconds, please make note of the password during this time.</p> <ul style="list-style-type: none"> <li>Pressing the ENTER button on the remote control or the ► button on the projector will return to the TRANSITION DETECTOR on/off menu.</li> <li>Please do not forget your TRANSITION DETECTOR password.</li> </ul> <ul style="list-style-type: none"> <li>This function will activate only when the projector is started after the power switch was turned off.</li> <li>This feature may not function properly if the projector is not in a stable position when ON is selected.</li> </ul> <p><b>2 Turning off the TRANSITION DETECTOR</b></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 registered password and the screen will return to the TRANSITION DETECTOR on/off menu.</p> <p>If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1.</p> <p><b>3 If you have forgotten your password</b></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). The 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 after your user registration information is confirmed.</p> </div> <div data-bbox="840 438 1036 901" style="width: 15%;">      </div> </div> <div data-bbox="795 1324 1036 1412" style="margin-top: 20px;">  </div>

Item	Description
<p><b>MY TEXT PASSWORD</b></p>	<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"> <li>• The MY TEXT DISPLAY menu will be unavailable, which can prohibit changing the DISPLAY setting.</li> <li>• The MY TEXT WRITING menu will be unavailable, which can prevent the MY TEXT from being overwritten.</li> </ul> <p><b>1 Turning on the MY TEXT PASSWORD</b></p> <p>1-1 Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT PASSWORD menu 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 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 PASSWORD box for about 20 seconds, then please make note of the password during this time.</p> <ul style="list-style-type: none"> <li>• Pressing the <b>ENTER</b> button on the remote control or ► button on the projector will return to the MY TEXT PASSWORD on/off menu.</li> </ul> <p><b>2 Turning off the MY TEXT PASSWORD</b></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 registered password and the screen will return to the MY TEXT PASSWORD on/off menu.</p> <p>If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1</p> <p><b>3 If you have forgotten your password</b></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). The 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 after your user registration information is confirmed.</p>
	   <p>ENTER NEW PASSWORD BOX (small)</p>    <p>ENTER PASSWORD BOX (large)</p>

(continued on next page)

Item	Description
<p><b>MY TEXT DISPLAY</b></p>	<ol style="list-style-type: none"> <li>Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT DISPLAY menu and press the ► button to display the MY TEXT DISPLAY on/off menu.</li> <li>Use the ▲/▼ buttons on the MY TEXT DISPLAY on/off menu to select on or off. ON ⇔ OFF When it is set ON, the MY TEXT will be displayed on the START UP screen and the INPUT- INFORMATION- when the INFORMATION on the SERVICE menu is chosen. <ul style="list-style-type: none"> <li>This function is available only when the MY TEXT PASSWORD function is set to the OFF.</li> </ul> </li> </ol>
<p><b>MY TEXT WRITING</b></p>	<ol style="list-style-type: none"> <li>Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT WRITING menu and press the ► button. The MY TEXT WRITING dialog will be displayed.</li> <li>The current MY TEXT will be displayed on the first 3 lines. If not yet written, the lines will be blank. Use the ▲/▼/◀/▶ buttons and the <b>ENTER</b> or <b>VIDEO</b> button to select and enter characters. The <b>RESET</b> button can be used to erase 1 character at a time. Also if you move the cursor to <b>DELETE</b> or <b>ALL CLEAR</b> on screen and push the <b>ENTER</b> or <b>VIDEO</b> button, 1 character or all characters will be erased. The MY TEXT can be input up to 24 characters on each line.</li> <li>To change an already inserted character, press the ▲/▼ button to move the cursor to one of the first 3 lines, and use the ◀/▶ buttons to move the cursor on the character to be changed. After pressing the <b>ENTER</b> or <b>VIDEO</b> button, the character is selected. Then, follow the same procedure as described at the item 2 above.</li> <li>To finish entering text, move the cursor to the <b>OK</b> on screen and press the <b>ENTER</b> or <b>VIDEO</b> button. To revert to the previous MY TEXT without saving changes, move the cursor to the <b>CANCEL</b> on screen and press the <b>ENTER</b> or <b>VIDEO</b> button. <ul style="list-style-type: none"> <li>The MY TEXT WRITING function is available only when the MY TEXT PASSWORD function is set to OFF.</li> </ul> </li> </ol>



## Maintenance

### Lamp unit

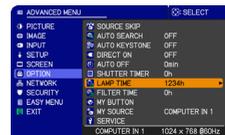
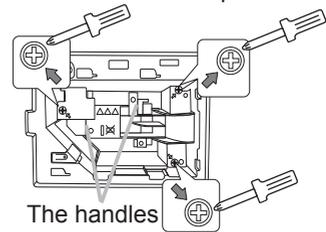
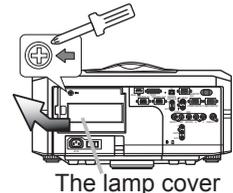
A worn out lamp bulb could burn or burst. It is recommended to keep a spare lamp unit on hand and to replace the lamp unit when the projected image darkens or color reproduction becomes poor.

To purchase a spare, contact your dealer and tell the following type number.

**Optional lamp part number: SP-LAMP-079**

If the projector is installed in a special state such as ceiling mount, or if the lamp bulb has broken, also ask the dealer to replace the lamp unit. Otherwise, follow the procedure shown below to replace the lamp.

1. Make sure that the projector is unplugged and cooled down.
2. Loosen the screw (marked by arrow) of the lamp cover. Then slide and take it off.
3. Loosen the 3 screws (marked by arrow) of the lamp unit. Then picking the handles of the unit, gently take it from the projector.
4. Gently set the new lamp unit into place. Then retighten the screws of the lamp unit.
5. Put the lamp cover back into place, and retighten the screw of the lamp cover.
6. Reset the LAMP TIME value.
  - (1) Turn the projector on.
  - (2) To display the **ADVANCED MENU**, press the **MENU** button (on the control panel or the remote control). On the **EASY MENU**, select the “**ADVANCED MENU**” using the ▲/▼ cursor buttons, then press the ► cursor button.
  - (3) To select the **OPTION** menu, select the “**OPTION**” using the ▲/▼ cursor buttons in the left column, then press the ► cursor button.
  - (4) To display the **LAMP TIME** dialog, select the “**LAMP TIME**” using the ▲/▼ cursor buttons in the right column, then press the ► cursor button.
  - (5) Use the ► cursor button according to the dialog, Selecting “**OK**” resets the **LAMP TIME** value.



**NOTE** •The value shown on the OPTION menu as the LAMP TIME is the amount of usage which has occurred since the last time the LAMP TIME was reset. Refer to the value for proper maintenance.

**NOTICE** ► Be sure to reset the LAMP TIME after you have replaced the lamp unit.

## Lamp warning

 HIGH VOLTAGE     HIGH TEMPERATURE     HIGH PRESSURE

**⚠ WARNING** ▶ The projector uses a high-pressure mercury glass lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury 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](http://www.lamprecycle.org) (in the US).
- For product disposal, contact your local government agency or [www.eiae.org](http://www.eiae.org) (in the US) or [www.epsc.ca](http://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 inside of the projector, 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 breathe the gas that comes out of the projector vents, or get it in 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 damaging the lamp.



- Never unscrew except the appointed (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. When replacing the lamp, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.



- Use only the specified lamp type.
- 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, contact your local dealer or a service representative.
- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- Using the lamp for long periods of time, could cause it to darken, not to light up or to burst. When the images 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.

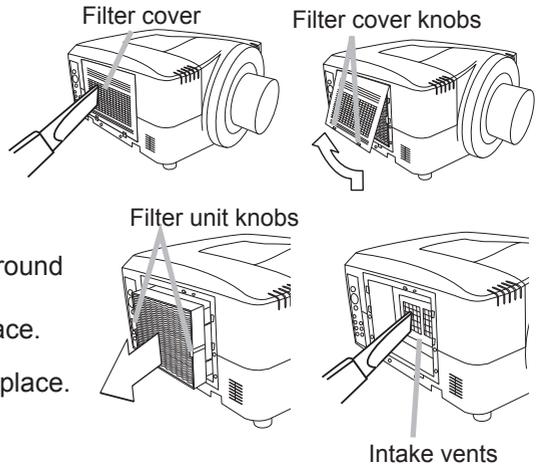
## Filter unit

To keep the interior venting properly, keep a spare and replace the filter unit periodically, although frequent replacement is not needed for this product. To purchase a spare, contact your dealer and tell the following type number.

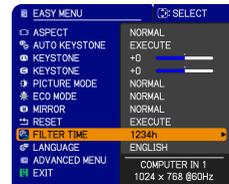
**Optional filter part number: SP-FILTER-01**

The following walks you through the steps to replace the filter unit.

1. Make sure that the projector is unplugged and cooled 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. Pinch and pull out the filter unit knob to take it off.
5. Use a vacuum cleaner on and around the intake vents of the projector.
6. Set the new filter unit into the place.
7. Put the filter cover back into the place.
8. Reset the FILTER TIME value.



- (1) Turn the projector on.
- (2) To display the EASY MENU, press the MENU button (on the control panel or the remote control). On the ADVANCED MENU, select the “EASY MENU” using the ▲/▼ cursor buttons in the left column, then press the ► cursor button.
- (3) To display the FILTER TIME dialog, select the “FILTER TIME” using the ▲/▼ cursor buttons, then press the ► cursor button.
- (4) Use the ► cursor button according to the dialog. Selecting “OK” resets the FILTER TIME value.



**NOTE** • The value shown on the EASY menu as the FILTER TIME is the amount of usage which has occurred since the last time the FILTER TIME was reset. Refer to the value for proper maintenance.  
• You can use the message function, which is set up by the item FILTER TIME of the OPTION menu, to notify you when to replace the lamp.

**⚠ WARNING** ► Before checking or replacing the filter unit, turn off, unplug, and cool down the projector.

► To keep the interior venting properly, check and replace the filter unit periodically.

**NOTICE** ► Use only the manufacturer specified type of the filter unit.

► Be sure to reset the FILTER TIME after you have replaced the filter unit.

## Internal clock battery

This projector can be loaded with a battery for the internal clock that the network function needs. When the clock does not work correctly, ask your dealer to check the battery and to replace if needed. For replacement, prepare a new battery of the following type. You can buy it at the store or order it from your dealer.

Hitachi Maxell or Hitachi Maxell Energy part number CR2032 or CR2032H  
(Battery not included)

- ⚠ WARNING** ▶ Be careful handling the battery, since a battery can explode, crack or leak and cause a fire, injury, and environment pollution.
- Use only the specified battery.
  - When replacing the battery, replace it with a new battery.
  - Do not use a damaged battery that is scratched, dented, rusted or showing leakage.
  - Do not work on a battery; for example recharging or soldering.
  - Keep the battery in a dark, cool and dry place. Never expose a battery to fire or water.
  - Keep the battery away from children and pets. Do not allow them to swallow the battery.
  - When a battery leaks, wipe the leakage out well with a waste cloth. If the leakage adheres to your body, immediately rinse it well with water. When a battery leaks in the battery holder, replace the batteries after wiping the leakage out.
  - Obey local laws when disposing a battery.

## Others

### For the lens

Be careful not to scratch, crack, dirty, or fog the lens surface, since it affects the image quality. When the lens surface is fogged or dirty, gently wipe it only with the commercial cloth or paper lens cleaner.

### For the inside of the projector

In order to ensure the safe use of your projector, please have it cleaned and inspected by your dealer about once every year.

### For the cabinet of the projector and remote control

For the dirty cabinet of the projector or remote control, use a soft cloth. Dip a soft cloth in water or a neutral cleaner diluted in water, and wipe the cabinet lightly after wringing it well. Then, wipe again lightly with a soft and dry cloth.

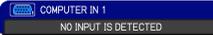
- ⚠ WARNING** ▶ Before checking or cleaning the lens, turn off, unplug, and cool down the projector.
- ▶ Do not scratch the projector or hit it against anything. Be particularly careful of the lens surface.
  - ▶ Do not get the product wet. Do not let any liquids enter the inside of the projector. Do not use anything that sprays.
- NOTICE** ▶ Do not touch the lens surface directly with your hands.
- ▶ Do not use cleaners or chemicals other than those specified in this manual.

Troubleshooting

**Related messages**

When the unit is powered on, messages such as those shown below may be displayed. When any of these messages are displayed, please follow the instructions described below. If the same message is displayed after following the suggestions listed here, or if a message other than the following appears, please contact your dealer or service company.

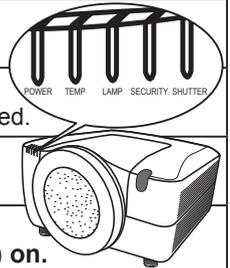
Although these messages will automatically disappear after several minutes, they will be displayed again when the power is turned on.

Message	Description
	<p><b>There is no input signal.</b> Please confirm the signal input connection, and the status of the signal source.</p>
	<p><b>The horizontal or vertical frequency of the input signal is not within the specified range.</b> Please review the signal source and projector specifications.</p>
	<p><b>An improper signal is input.</b> Please review the signal source and projector specifications.</p>
	<p><b>The internal temperature is overheating.</b> Turn the projector off (ⓘ20) immediately, and allow it to cool down for 20 minutes or more. After cooling, perform the following: - Are there any obstacles to ventilation around the projector? - Does the temperature around the projector exceed the limit specified? (ⓘ77) If there are no obstacles blocking the ventilation, replace the filter unit according to the instructions for "Filter unit" in the "Maintenance" chapter (ⓘ69). Remember to reset the FILTER TIME after replacing the filter unit.</p>
	<p><b>The filter unit must be replaced.</b> The FILTER TIME timer limit has been reached as per the FILTER MESSAGE settings in the SERVICE menu under the OPTION menu (ⓘ50). Replace the filter unit according to the instructions for "Filter unit" in the "Maintenance" chapter (ⓘ69). Remember to reset the FILTER TIME after replacing the filter unit.</p>
	<p><b>The control panel buttons are not available during the following conditions.</b> - When the lens is moving, button operation from the control panel or the remote control might be ignored. Wait for the LENS SHIFT indicator stopping blinking. - Pressing one of the signal input buttons may be ignored, if the associated input port has been set to "SKIP" in the SOURCE SKIP feature of the OPTION menu.</p>

## Regarding the indicator lights

The **POWER**, **TEMP**, **LAMP**, **SECURITY**, and **SHUTTER** indicators have meanings based on the solid and flashing patterns described in the table below. Please follow the instructions within the table. If the indicators are still showing the same pattern afterwards, or if an indication other than the following is displayed, please contact your dealer or service company.

POWER	TEMP	LAMP	SECURITY	SHUTTER	Description
Lighting In Orange	Turned off	Turned off	Turned off	Turned off	<b>The projector is in a standby state.</b> Please refer to the section "Turning on/off".
Blinking In Green	Turned off	Turned off	Turned off	Turned off	<b>The projector is warming up.</b> Please wait.
Lighting In Green	Turned off	Turned off	Turned off	Turned off	<b>The projector is in an on state.</b> Ordinary operations may be performed.
Blinking In Orange	Turned off	Turned off	Turned off	Turned off	<b>The projector is cooling down.</b> Please wait.
Turned off	Turned off	Turned off	Blinking In Red	Turned off	<b>The PIN Lock or (and) TRANSITION DETECTOR is (are) on.</b> Please refer to the description (63,64).
Turned off	Turned off	Turned off	Turned off	Blinking In Yellow	<b>The SHUTTER is closed.</b> Please refer to the description (26).
Blinking In Red	(discretionary)	(discretionary)	Turned off	Turned off	<b>The projector is cooling down. A certain error has been detected.</b> Please wait until the <b>POWER</b> indicator finishes blinking, and then perform the proper measure using the item descriptions below.
Blinking In Red or Lighting In Red	Turned off	Lighting In Red	Turned off	Turned off	<b>The lamp does not light, and the projector interior may have become overheated.</b> Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please confirm the following items, and then turn the power on again. <ul style="list-style-type: none"> <li>• Is there blockage of the air passage aperture?</li> <li>• Is the air filter dirty?</li> <li>• Does the peripheral temperature exceed 35°C?</li> </ul> If the indicators are still showing the same pattern afterwards, please change the lamp referring to the section "Lamp unit".
Blinking In Red or Lighting In Red	Turned off	Blinking In Red	Turned off	Turned off	<b>The lamp cover has not been properly attached.</b> Please turn the power off, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please confirm that the lamp cover is properly attached. After performing any needed maintenance, turn the power on again. If the indicators are still showing the same pattern afterwards, please contact your dealer or service company.



POWER	TEMP	LAMP	SECURITY	SHUTTER	Description
Blinking In Red or Lighting In Red	Blinking In Red	Turned off	Turned off	Turned off	<p><b>The cooling fan is not operating.</b> Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please confirm that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the indicators are still showing the same pattern afterwards, please contact your dealer or service company.</p>
Blinking In Red or Lighting In Red	Lighting In Red	Turned off	Turned off	Turned off	<p><b>The internal temperature is rising too much.</b> Turn the projector off (ⓘ20) soon, and allow it to cool down for 20 minutes or more. After cooling, perform the following check. - Are there any obstacles to ventilation around the projector? - Does the temperature around the projector exceed the limit specified? (ⓘ77) When this message is displayed without the obstacles mentioned above, replacement of the filter unit is required. Replace the filter unit soon according to the procedure directed in the paragraph "Filter unit" in the chapter "Maintenance" (ⓘ69). Remember resetting the FILTER TIME is needed soon after replacement of the filter unit.</p>
Lighting In Green	Simultaneous blinking Red		Turned off	Turned off	<p><b>Replacement of the filter unit is required.</b> The value of the timer of the FILTER TIME reached the preset value of the FILTER MESSAGE on the SERVICE menu under the OPTION menu (ⓘ50). Replace the filter unit soon according to the procedure directed in the paragraph "Filter unit" in the chapter "Maintenance" (ⓘ69). Remember resetting the FILTER TIME is needed soon after replacement of the filter unit.</p>
Lighting In Green	Alternative blinking Red		Turned off	Turned off	<p><b>The projector interior may have become overcooled.</b> Please use the projector between 5°C and 35°C. After the temperature has been adjusted, reset the power to on.</p>
Blinking in Green for approx. 3 seconds	Turned off	Turned off	Turned off	Turned off	<p><b>At least 1 "Power ON" schedule is saved to the projector.</b> (Please refer to the ⓘUser's Manual - Network Guide: Schedule Settings for more information.)</p>

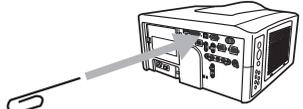
**NOTE** • When the interior portion has overheated, for safety purposes, the power source is automatically turned off, and the indicator lights may also turn off. In this case, press the "O" (off) side of the power switch, and wait at least 45 minutes. After the projector has sufficiently cooled down, please confirm the lamp and lamp cover are properly attached and then turn the power on again.

## Situations which can easily be mistaken for machine defects

**⚠ WARNING** ▶ Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur. In this case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer or service company.

Before requesting repair, please review the following chart. These suggestions may resolve your problem.

If the situation cannot be corrected;



- The projector's microprocessor may need to be reset. Please push the Reset switch by using a pin or similar and the projector will turn off immediately. Before turning it on again, wait at least 10 minutes to make sure the projector cools down enough.
- Some settings may be wrong. Please use the FACTORY RESET function of the SERVICE item in the OPTION menu (p.55) to reset all settings to factory default. Then, if the problem is not removed after the remedy, please contact your dealer or service company.

Symptom	Situations not related to machine defects	Reference page
Power does not come on.	<b>The electrical power cord is not plugged in.</b> Correctly connect the power cord.	15
	<b>The power switch is not set to the on position.</b> Set the power switch to [ ] (on).	19
	<b>The main power source has been interrupted during operation such as by a power outage (blackout), etc.</b> Please 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.	19, 20
	<b>Either there is no lamp and/or lamp cover, or either of these has not been properly fixed.</b> Please turn the power off, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirm the lamp and lamp cover are correctly installed, and then turn the power on again.	67

(Continued on next page)

Symptom	Situations not related to machine defects	Reference page
No picture is displayed.	<b>The signal cables are not correctly connected.</b> Correctly connect the connection cables.	11
	<b>The brightness is adjusted to an extremely low level.</b> Adjust BRIGHTNESS to a higher level using the menu feature or the remote control.	31
	<b>The computer cannot detect the projector as a plug and play monitor.</b> Make sure that the computer can detect a plug and play monitor using another plug and play monitor.	14
	<b>The BLANK screen is displayed.</b> Press the <b>BLANK</b> button on the remote control.	26
	<b>The shutter is closed.</b> Press the <b>SHUTTER</b> button.	26
No images or disturbed images are displayed on <b>HDMI</b> input.	<b>The HDMI cable is not correctly connected.</b> Correctly connect the HDMI cable.	11
	<b>Your HDMI equipment is not compatible with the projector</b> This projector can be connected with another equipment that has HDMI or DVI connector, but with some equipment the projector may not work properly.	14
	<b>Your HDMI equipment and the projector are not harmonized.</b> Turn off the equipment, and turn them on again	–
	<b>The signal format on the HDMI is not supported.</b> Check the video setting on your HDMI equipment.	14

(Continued on next page)

Symptom	Situations not related to machine defects	Reference page
Video screen display freezes.	<b>The FREEZE function is working.</b> Press the <b>FREEZE</b> button to restore the screen to normal.	25
Colors have a faded- out appearance, or Color tone is poor.	<b>Color settings are not correctly adjusted.</b> Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	32, 36
	<b>COLOR SPACE setting is not suitable.</b> Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	36
Pictures appear dark.	<b>The brightness and/or contrast are adjusted to an extremely low level.</b> Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	31
	<b>The ECO MODE function is working.</b> Select NORMAL for the ECO MODE item in the SETUP menu.	30, 41
	<b>The lamp is approaching the end of its product lifetime.</b> Replace the lamp.	67, 68
Pictures appear blurry.	<b>Either the focus and/or horizontal phase settings are not properly adjusted.</b> Adjust the focus using the <b>FOCUS</b> button, and/or H PHASE using the menu function.	21
	<b>The lens is dirty or misty.</b> Clean the lens referring to the section "For the lens" in "Others".	70
Pictures are trembling.	<b>The exhaust ventilation holes at front is blocked by some objects.</b> Remove any objects from front side of the projector.	10

**NOTE** • Although bright spots 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.

**Warranty and after-service**

If a problem occurs with the equipment, first refer to the “Troubleshooting” section and follow the suggestions. If this does not resolve the problem, please contact your dealer or service company. They will tell you what warranty condition is applied.

**Specifications**

Item	Specifications	
Product name	Liquid crystal projector	
Liquid Crystal Panel	IN5542/IN5542c: 1024 horizontal x 768 vertical IN5544/IN5544c: 1366 horizontal x 800 vertical	
Lens	* See the manual of the optional lens.	
Lamp	350W UHB	
Power supply	AC 110-120V/6.0A, AC220-240V/3.1A	
Power consumption	540W	
Temperature range	5 to 35°C (Operating)	
Weight (mass)	13.1kg (approx.)	
Ports	<b>HDMI</b> ..... HDMI port x 1 <b>DVI-D</b> ..... DVI-D port x 1 <b>LAN</b> ..... RJ45 port x 1 <b>MONITOR OUT</b> ..... D-sub 15 pin mini port x 1 <b>CONTROL IN</b> ..... D-sub 9 pin pulg x 1 <b>CONTROL OUT</b> ..... D-sub 9 pin pulg x 1 <b>REMOTE CONTROL IN</b> ..... 3.5 stereo mini port x 1 <b>REMOTE CONTROL OUT</b> ..... 3.5 stereo mini port x 1 <b>S-VIDEO</b> ..... DIN 4 pin mini port x 1 <b>VIDEO 1</b> ..... RCA port x 1 <b>VIDEO 2</b> ..... BNC port x 1 <b>COMPUTER IN1</b> ..... D-sub 15 pin mini port x 1 <b>COMPUTER IN2</b> ..... D-sub 15 pin mini port x 1 <b>BNC (G/Y, B/Cb/Pb, R/Cr/Pr, H, V)</b> ..... BNC port x 5 <b>Component (Y, Cb/Pb, Cr/Pr)</b> ..... RCA port x 3	
Optional parts	<b>Lens unit:</b> <b>LENS-062(Standard lens)</b> <b>LENS-063 (Ultra long throw lens)</b> <b>LENS-064 (Long throw lens)</b> <b>LENS-065 (Short throw lens)</b> <b>LENS-066 (Short throw lens)</b> <b>LENS-067 (Ultra short throw lens)</b> <b>LENS-068(Standard lens)</b>	<b>Lamp:</b> SP-LAMP-079 <b>Filter unit:</b> SP-FILTER-01 <b>Cable cover:</b> SP-COVER-01 <b>Lens adapter unit:</b> SP-LENS-ADPT-01  * For further information, check our website (see below), or ask your dealer.

**NOTE** • These specifications are subject to change without notice. The latest information is in website as per below.

[www.infocus.com/support](http://www.infocus.com/support)

Specifications (continued)

