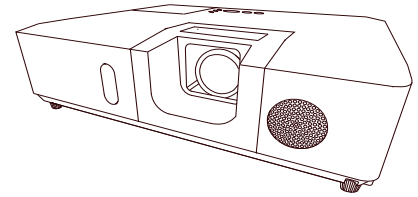**LCD Projector**

CP-EU4501WN

User's Manual (detailed)
Operating Guide

Thank you for purchasing this projector.

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

About this manual

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

⚠**WARNING**	This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
⚠**CAUTION**	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.
NOTICE	This entry notices of fear of causing trouble.
📖	Please refer to the pages written following this symbol.

NOTE • The information in this manual is subject to change without notice.
• The illustrations in this manual are for illustrative purposes. They may differ slightly from your projector.
• The manufacturer assumes no responsibility for any errors that may appear in this manual.
• The reproduction, transfer or copy of all or any part of this document is not permitted without express written consent.

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Contents

📖

Features

The projector provides you with the broad use by the following features.

✓ This projector has a variety of I/O ports that supposedly cover for any business scene. An HDMI™ port can support various image equipment which have digital interface to get clearer pictures on a screen. This model has two HDMI™ ports.

✓ If you insert a USB storage device, such as a USB memory, into the **USB TYPE A** port and select the port as the input source, you can view images stored in the device.

✓ This projector can be controlled and monitored via LAN connection. Furthermore, you can use the designated USB wireless adapter (optional) to establish wireless LAN connection.

✓ The built-in 16W speaker can deliver sufficient sound volume in a large space like a classroom without external speakers.

✓ Has an HDCR and an ACCENTUALIZER features which are original image stabilizer for a clearer image.

✓ Equipped with IMAGE OPTIMIZER which is original function to maintain visibility by automatic image correction in accordance with lamp deterioration.

Checking the contents of package

Please see the **Contents of package** section in the **User's Manual (concise)** which is a book. Your projector should come with the items shown there. Require of your dealer immediately if any items are missing.

⚠**WARNING** ►Keep small parts away from children and pets. Take care not to put in the mouth. If swallowed, consult a physician immediately for emergency treatment.

NOTE • Keep the original packing materials, for future reshipment. Be sure to use the original packing materials when moving the projector. Use special caution for the lens.
• The projector may make a rattling sound when tilted, moved or shaken, since a flap to control the air flow inside of the projector has moved. Be aware that this is not a failure or malfunction.

Part names

Projector

(1) Lamp cover (&88)
   The lamp unit is inside.
(2) Speaker (&22, *52*)
(3) Filter cover (&90)
   The air filter and intake vent are inside.
(4) Elevator feet (x2) (&24)
(5) Elevator button (&24)
(6) Remote sensor (&18)
(7) Lens (&93)
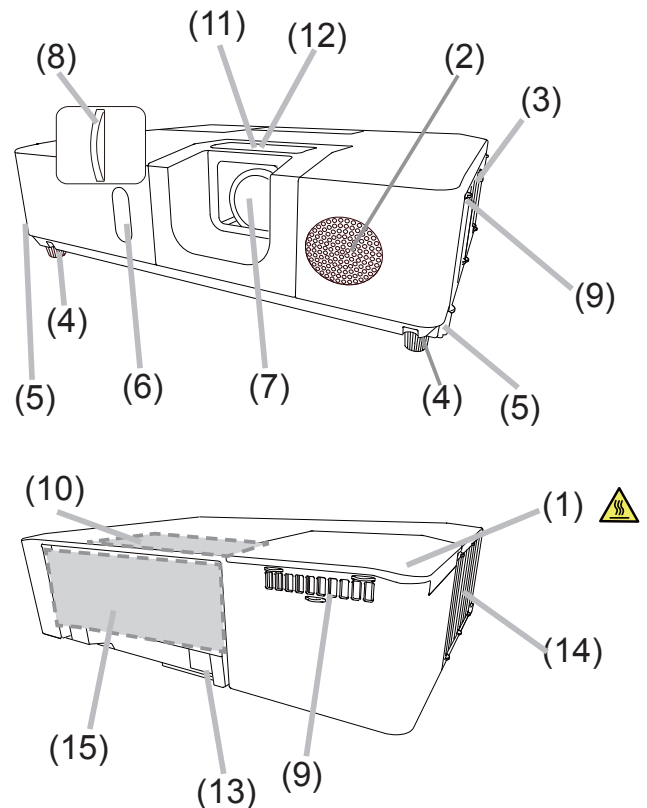(8) Lens cover
(9) Intake vents
(10) Control panel (&5)
(11) **FOCUS** ring (&24)
(12) **ZOOM** ring (&24)
(13) **AC** (AC inlet) (&15)
(14) Exhaust vent
(15) Ports (&5)

> **⚠ WARNING** ►Do not open or remove any portion of the product, unless the manuals direct it.
> ►Do not subject the projector to unstable conditions.
> ►Do not apply a shock or pressure to this product.
> ►Do not look into the lens and the openings on the projector while the lamp is on, since the projection ray may cause a trouble on your eyes.
> ►Keep any object away from concentrated projection light beam. Blocking the beam by something causes high temperature and could result in fire or smoke.
>
> **⚠ CAUTION** ►Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.
> ►Do not attach anything onto the lens because it could damage the lens, such as melting the lens.
> ►Do not attach anything onto the lens except the lens cover of this projector because it could damage the lens, such as melting the lens.

Part names (continued)

Control panel

(1) **STANDBY/ON** button (&20)
(2) **INPUT** button (&23)
(3) **MENU** button (&31)
(4) **LAMP** indicator (&96)
(5) **TEMP** indicator (&96)
(6) **POWER** indicator (&96)
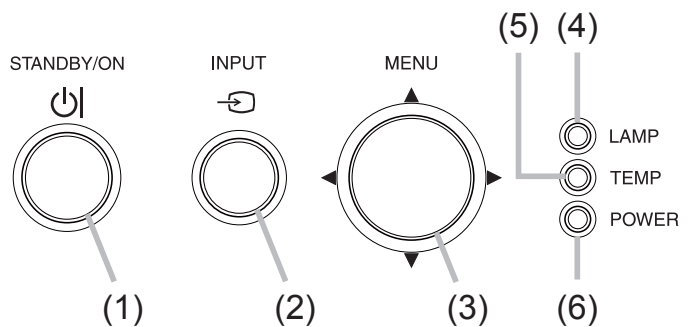
Ports(&10 ~ 14)

(1) **LAN** port
(2) **USB TYPE A** port (x2)
(3) **USB TYPE B** port
(4) **HDMI1** port
(5) **HDMI2/MHL** port
(6) **AUDIO IN1** port
(7) **AUDIO IN2** port
(8) **AUDIO IN3** (**R,L**) ports
(9) **AUDIO OUT** port
(10) **COMPUTER IN1** port

(11) **COMPUTER IN2 / MONITOR OUT** port
(12) **CONTROL** port
(13) **VIDEO** port
(14) Security slot (&16)
(15) Security bar (&16)

5
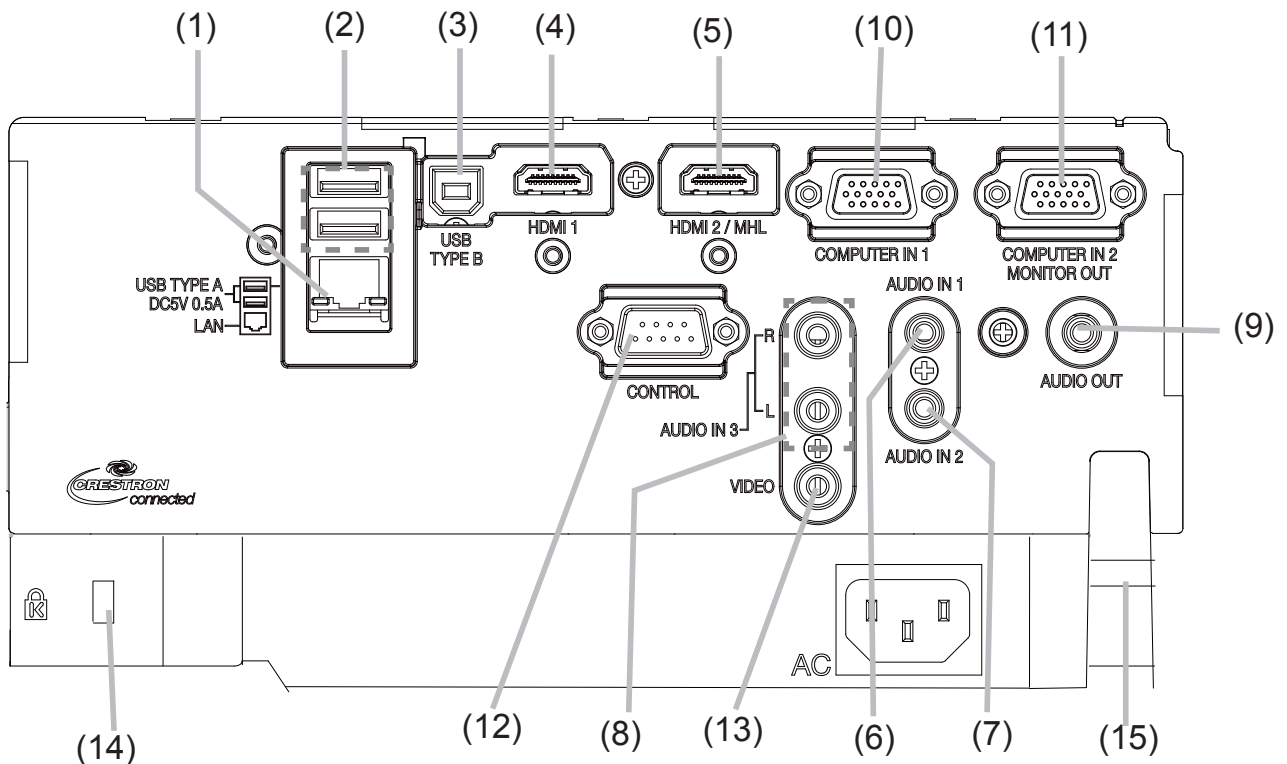
Part names (continued)

Remote control

(1) **INPUT** button (📖*23*)
(2) **MY BUTTON-1** button (📖*61, 62*)
(3) **MY BUTTON-2** button (📖*61, 62*)
(4) **STANDBY/ON** button (📖*20*)
(5) **ASPECT** button (📖*23*)
(6) **PbyP** button *
(7) **AUTO** button (📖*25*)
(8) **FREEZE** button (📖*30*)
(9) **MAGNIFY ON** button (📖*29*)
(10) **FOCUS +** button *
(11) **ZOOM +** button *
(12) **VOLUME +** button (📖*22*)
(13) **MAGNIFY OFF** button (📖*29*)
(14) **FOCUS -** button *
(15) **ZOOM -** button *
(16) **VOLUME -** button (📖*22*)
(17) **PAGE UP** button (📖*19*)
(18) **GEOMETRY** button (📖*26*)
(19) **PICTURE** button
(20) **MUTE** button (📖*22*)
(21) **PAGE DOWN** button (📖*19*)
(22) **INTERACTIVE** button *
(23) **NETWORK** button
(24) **BLANK** button (📖*30*)
(25) **ESC** button (📖*18*)
(26) **MENU** button (📖*31*)
(27) **ENTER** button (📖*31*)
(28) **OSD MSG** button
(29) **RESET** button (📖*31*)
(30) ▲/▼/◄/► cursor buttons (📖*31*)
(31) Battery cover (📖*17*)
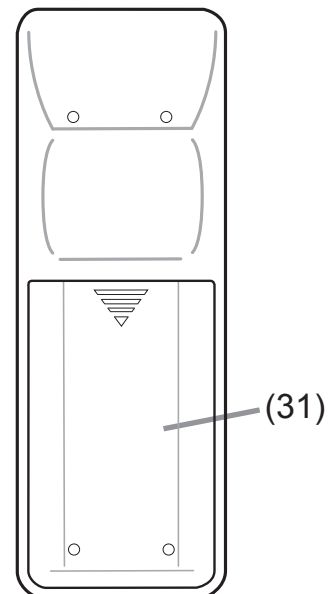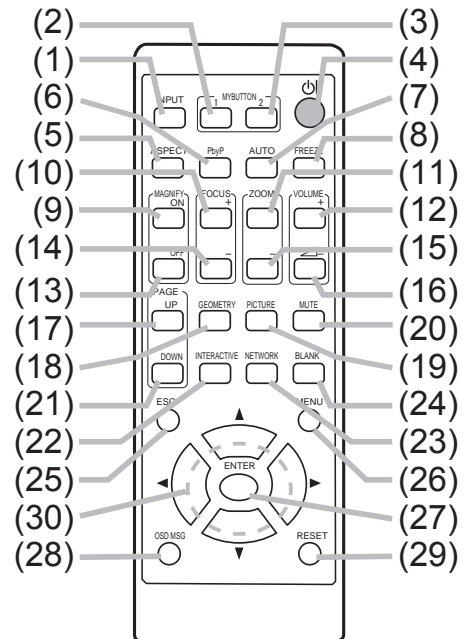
Back of
the remote control

NOTE • Any button marked with "*" is not supported on this projector (📖*95*).

6

Setting up

Install the projector according to the environment and manner the projector will be used in.

For the case of installation in a special state such as ceiling mount, the specified mounting accessories (📖**Specifications** in the **User's Manual (concise)**) and service may be required. Before installing the projector, consult your dealer about your installation.
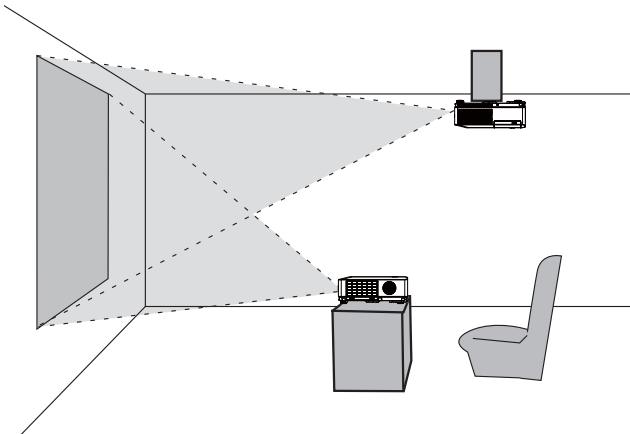
Arrangement

Refer to tables **T-1** to **T-3** and figures **F-1** and **F-2** at the end of User's Manual (concise) to determine the screen size and projection distance.
The values shown in the table are calculated for a full size screen.

(a) Screen size (diagonal)
(b) Projection distance (±10%, from the projector's end)
(c1), (c2) Screen height (±10%)

- If the projector is used at an altitude of about 1600 m (5250 feet) or higher, set ALTITUDE of the SERVICE item in the OPTION menu to HIGH (📖**67**). Otherwise, set it to NORMAL. If the projector is used with a wrong setting, it may cause damage to the projector itself or the parts inside.

NOTE • The screen position may shift after installation if the projector is suspended from the ceiling or other location due to the flexibility of the plastic projector body. If readjustment is necessary, consult with your dealer or service personnel.

(continued on next page)

Arrangement (continued)

⚠**WARNING** ►**Install the projector where you can access the power outlet easily.** If an abnormality should occur, unplug the projector urgently. Otherwise it could cause a fire or electric shock.
►**Do not subject the projector to unstable conditions.** If the projector falls or topples over, it could result in injury or damage to the projector and the surrounding things. Using a damaged projector could result in a fire and an electric shock.
• Do not place the projector in unstable places, such as an inclined surface, places subject to vibration, on top of a wobbly table or cart, or a surface that is smaller than the projector.
• Do not put the projector on its side, front or rear position.
• Do not attach nor place anything on the projector unless otherwise specified in the manual.
• Do not use any mounting accessories except the accessories specified by the manufacturer. Read and keep the manuals of the accessories used.
• For special installation such as ceiling mounting, be sure to consult your dealer beforehand.
►**Do not install the projector near thermally conductive or flammable things.** Such things when heated by the projector could result in a fire and burns.
• Do not place the projector on a metal stand.
►**Do not place the projector where any oils, such as cooking or machine oil, are used.** Oil may harm the product, resulting in malfunction, or falling from the mounted position. Do not use adhesive such as threadlocker, lubricant and so on.
►**Do not place the projector in a place where it may get wet.** Getting the projector wet or inserting liquid into the projector could cause a fire and an electric shock, and damage the projector.
• Do not place the projector near water, such as in a bathroom, kitchen, or poolside.
• Do not place the projector outdoors or by the window.
• Do not place anything containing liquid near the projector.

Arrangement (continued)

⚠**CAUTION** ►**Place the projector in a cool place with sufficient ventilation.** The projector may shutdown automatically or may malfunction if its internal temperature is too high.
Using a damaged projector could result in a fire and an electric shock.
• Do not place the projector in direct sunlight or near hot objects such as heaters.
• Do not place the projector where the air from an air conditioner or similar unit will blow on it directly.
• Keep a space of 30 cm or more between a side of the projector and other objects such as walls.
• Do not place the projector on carpet, cushions or bedding.
• Do not stop up, block nor cover the projector's vent holes. Do not place anything around the projector that could be sucked in or stuck to the projector's intake vents.
• Do not place the projector at places that are exposed to magnetic fields, doing so can cause the cooling fans inside the projector to malfunction.
►**Avoid placing the projector in smoky, humid or dusty place.** Placing the projector in such places could cause a fire, an electric shock and malfunction of the projector.
• Do not place the projector near humidifiers. Especially for an ultrasonic humidifier, chlorine and minerals contained in tap water are atomized and could be deposited in the projector causing image degradation or other problems.
NOTICE • Do not place the projector in a smoking area, kitchen, passageway or by the window.

• Position the projector to prevent light from directly hitting the projector's remote sensor.
• Positional deviation or distortion of a projected image, or shift of the focus may occur due to ambient conditions, and so on. They tend to occur until the operation becomes stable, especially within about 30 minutes after the lamp is turned on. Check and readjust them as necessary.
• Do not place the product in a place where radio interference may be caused.
• Check and correct the setting for ALTITUDE of SERVICE in the OPTION menu according to the usage environment (📖*67*). If the projector is used with a wrong setting, it may cause damage to the projector itself or the parts inside.
• Keep heat-sensitive things away from the projector. Otherwise, they may be damaged by the heat from the projector.

Connecting with your devices

Before connecting the projector to a device, consult the manual of the device to confirm that the device is suitable for connecting with this projector and prepare the required accessories, such as a cable in accord with the signal of the device. Consult your dealer when the required accessory did not come with the product or the accessory is damaged.

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

Before connecting the projector to a network system, be sure to read **Network Guide** too.

⚠**WARNING** ►**Use only the appropriate accessories.** Otherwise it could cause a fire or damage the projector and devices.
• Use only the accessories specified or recommended by the projector's manufacturer. It may be regulated under some standard.
• Neither disassemble nor modify the projector and the accessories.
• Do not use the damaged accessory. Be careful not to damage the accessories. Route a cable so that it is neither stepped on nor pinched out.

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

NOTE • Do not turn on or off the projector while connected to a device in operation, unless that is directed in the manual of the device. Otherwise it may cause malfunction in the device or projector.
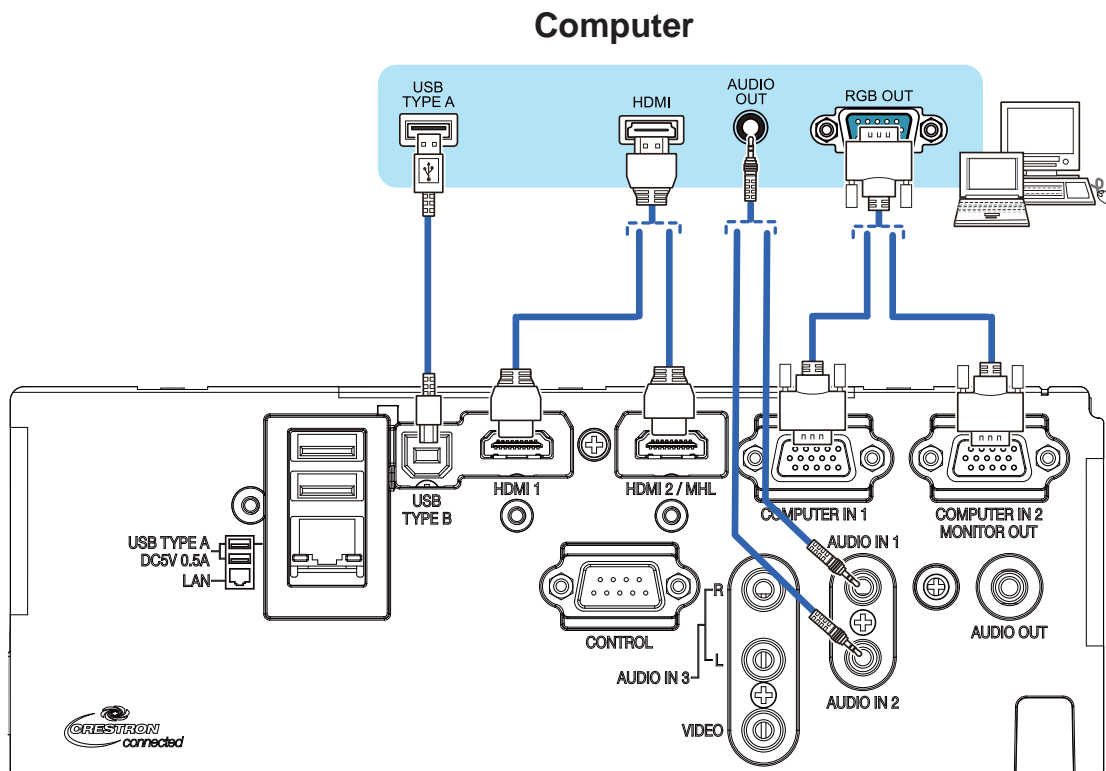• The function of some input ports can be selected according to your usage requirements. Check the reference page indicated beside each port in the following illustration. (📖*11 ~ 14*)
• Be careful not to mistakenly connect a connector to a wrong port. Otherwise it may cause malfunction in the device or projector.
- When connecting a connector to a port, make sure that the shape of the connector fits the port.
- Tighten the screws to connect a connector equipped with screws to a port.
- Use the cables with straight plugs, not L-shaped ones, as the input ports of the projector are recessed.

About Plug-and-Play capability
• Plug-and-Play is a system composed of a computer, its operating system and peripheral equipment (i.e. display devices). This projector is VESA DDC 2B compatible. Plug-and-Play can be used by connecting this projector to a computer that is VESA DDC (display data channel) compatible.
- Take advantage of this feature by connecting a computer cable to the **COMPUTER IN 1** 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.

## *Connecting with your devices (continued)*

Computer

NOTE • Before connecting the projector to a computer, consult the computer's manual and check the compatibility of the signal level, the synchronization methods and the display resolution output to the projector.
- Some signal may need an adapter to input this projector.
- Some computers have multiple screen display modes that may include some signals which are not supported by this projector.
- Although the projector can display signals with a resolution up to UXGA (1600x1200) or up to W-UXGA (1920x1200), 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.
• If you connect this projector and a notebook computer, you need output the display to an external monitor, or output simultaneously to the internal display and an external monitor. Consult the computer's manual for the setting.
• Depending on the input signal, the automatic adjustment function of this projector may take some time and not function correctly.
- Note that a composite sync signal or sync-on-green signal may confuse the automatic adjustment function of this projector (&*25*).
- If the automatic adjustment function does not work correctly, you may not see the dialog to set the display resolution. In such a case, use an external display device. You may be able to see the dialog and set an appropriate display resolution.

(continued on next page)

Connecting with your devices (continued)

Computer

External device

Access point

USB wireless adapter (optional)

USB storage device
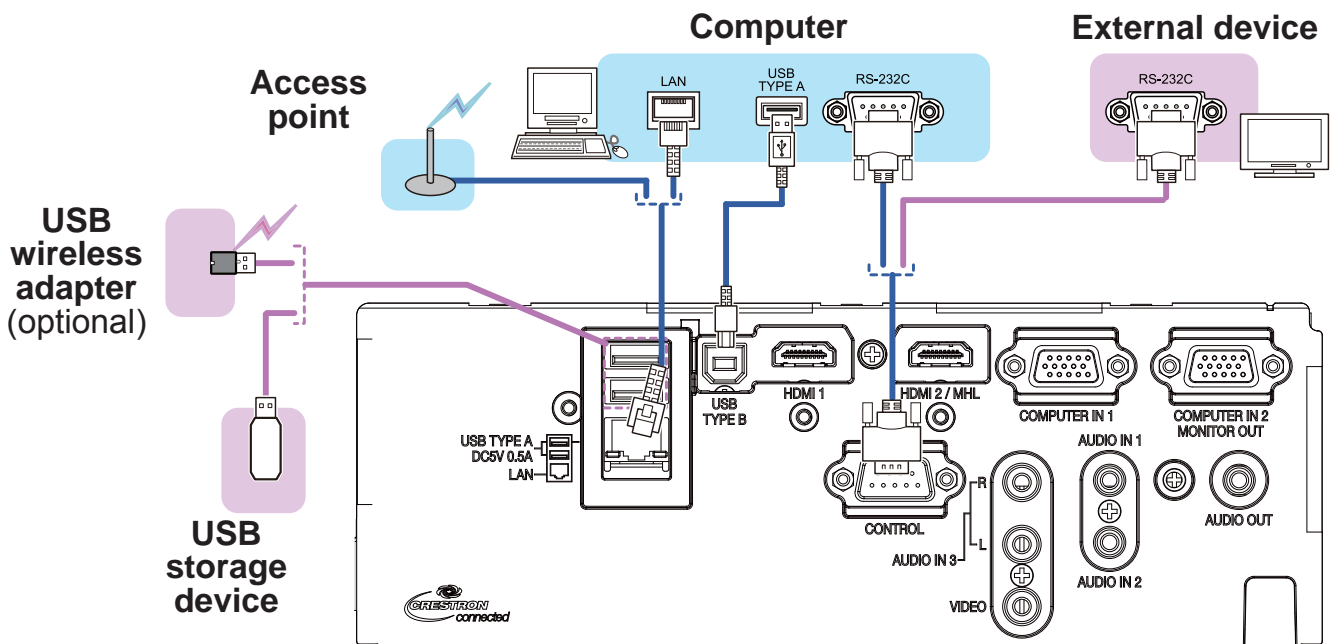
⚠**CAUTION** ► Before connecting the projector to a network system be sure to obtain the consent of the administrator of the network.

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

►The designated USB wireless adapter that is sold as an option is required to use the wireless network function of this projector.

►Before removing the USB storage device from the port of the projector, be sure to use the REMOVE USB function on the thumbnail screen to secure your data (&*82*).
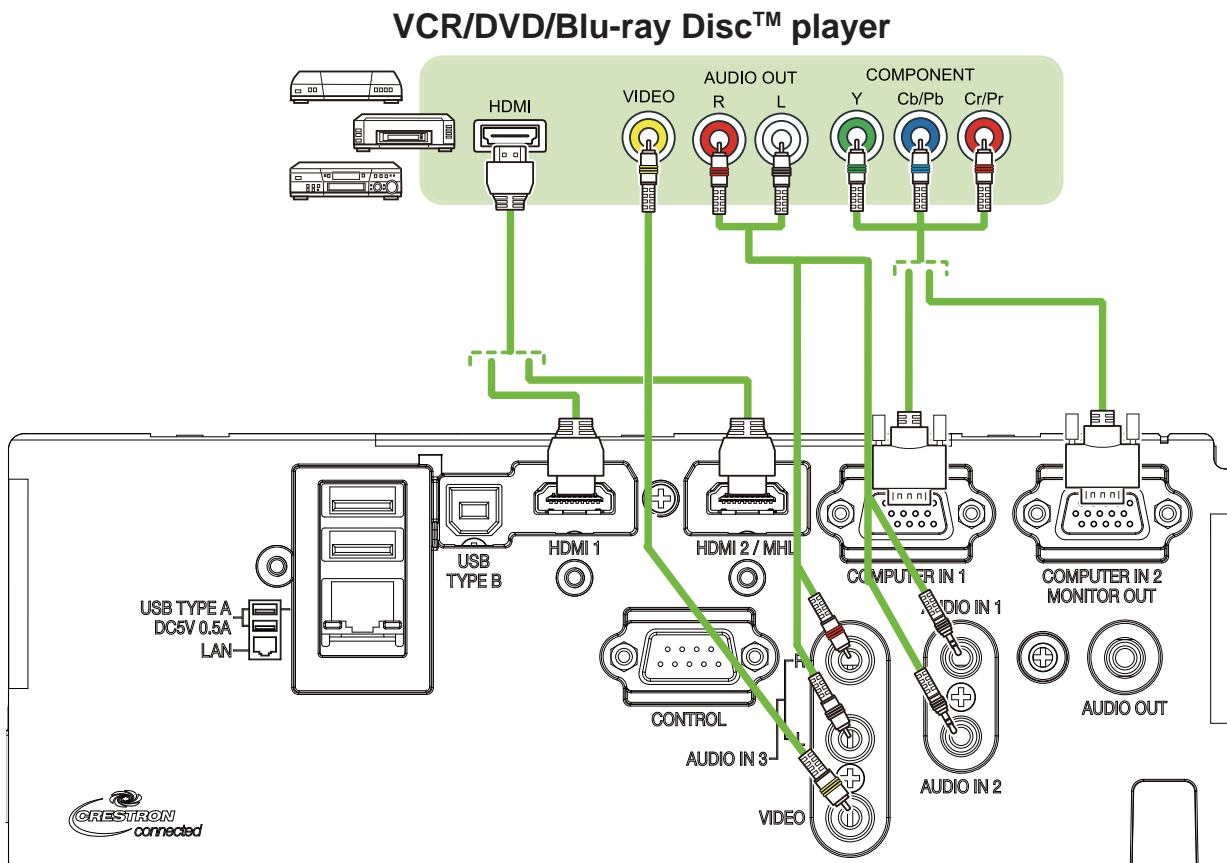
►Do not use any extension cable or device when connecting the adapter to the projector. Before you insert or pull out the USB wireless adapter from the projector, turn off the power of the projector and pull out the power cord's plug from the outlet. Do not touch the USB wireless adapter while the projector is receiving AC power.

►To connect both the LAN cable and USB device to the projector, use a LAN cable that is flat on the side where the plug's wire is visible. Otherwise, both of them cannot be connected correctly, or the wire may break (malfunction).

NOTE • If an oversized USB storage device blocks the **LAN** port, use a USB extension cable to connect the USB storage device.

Connecting with your devices (continued)

VCR/DVD/Blu-ray Disc^{TM} player

NOTE • The HDMI^{TM} port of this model is compatible with HDCP (High-bandwidth Digital Content Protection) and therefore capable of displaying a video signal from HDCP compatible DVD players or the like.
- The HDMI^{TM} port supports the following signals.
  Video signal : 480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60
  Audio signal : Format Linear PCM
         Sampling frequency 48kHz / 44.1kHz / 32kHz
- This projector can be connected with another equipment that has HDMI^{TM} connector, but with some equipment the projector may not work properly, something like no video.
- Be sure to use an HDMI^{TM} cable that has the HDMI^{TM} logo.
- Use a Category 2-certified HDMI^{TM} cable to input 1080p@50/60 signal to the projector.
- When the projector is connected with a device having DVI connector, use a DVI to HDMI^{TM} cable to connect with the HDMI^{TM} input.
- The MHL supports the following signals. For Video signals, refer to User's Manual (detailed) Operating Guide –Technical.
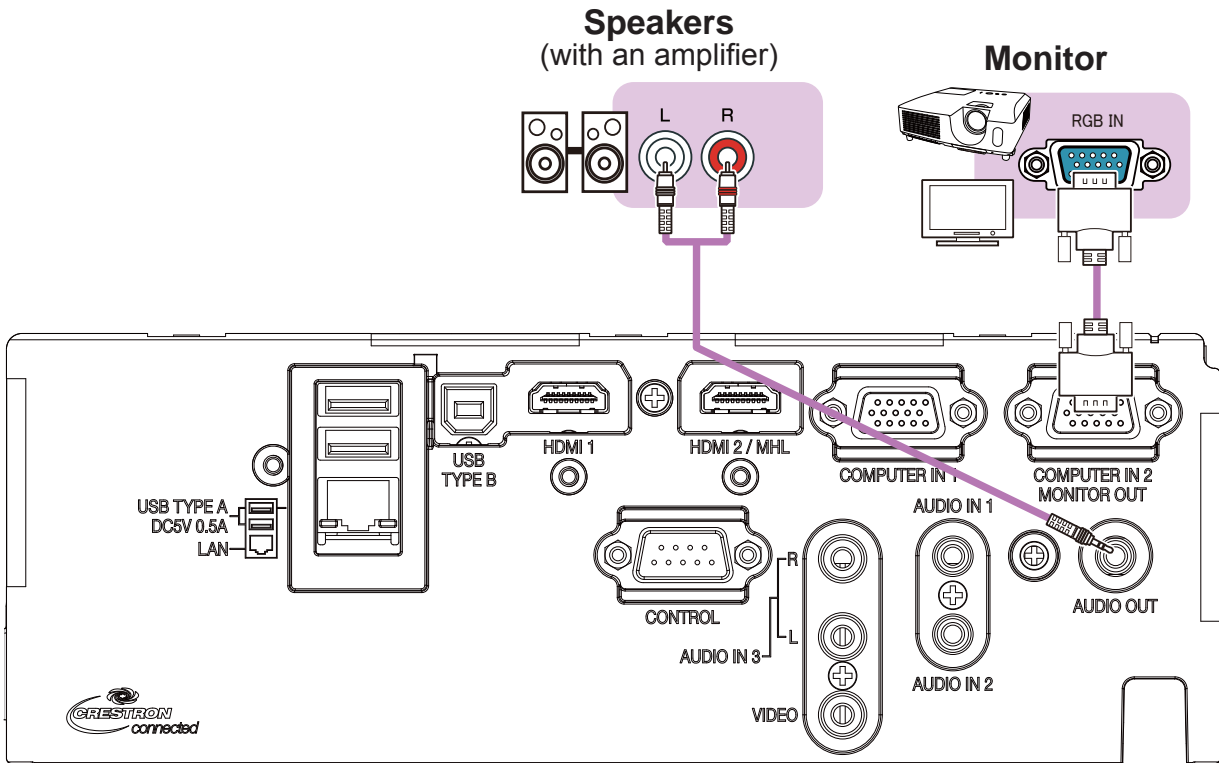 Audio signal : Format Linear PCM
         Sampling frequency 48kHz / 44.1kHz / 32kHz
- Be sure to use an MHL® cable that has the MHL logo.

Connecting with your devices (continued)

Speakers
(with an amplifier)

L   R

Monitor

RGB IN

USB
TYPE B

HDMI 1

HDMI 2 / MHL

COMPUTER IN 1

COMPUTER IN 2
MONITOR OUT

USB TYPE A
DC5V 0.5A
LAN

AUDIO IN 1

CONTROL

AUDIO OUT

R

AUDIO IN 3

L

AUDIO IN 2

VIDEO

CRESTRON
connected

Connecting to a power supply

1. Put the connector of the power cord into the **AC** (AC inlet) of the projector.

2. Firmly plug the power cord's plug into the outlet. In a couple of seconds after the power supply connection, the **POWER** indicator will light up in steady orange.
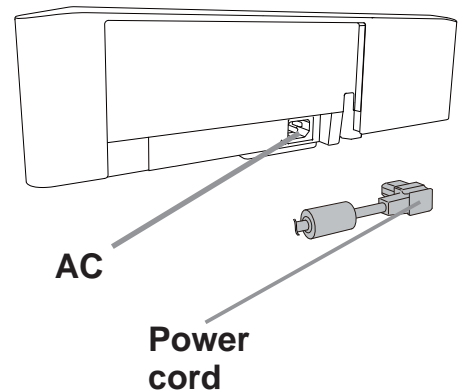
Please remember that when the DIRECT POWER ON function activated (📖*60*), the connection of the power supply make the projector turn on.

AC

Power cord

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

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

Fastening the cable

Use the supplied cable tie to fasten the cable.

Cable tie
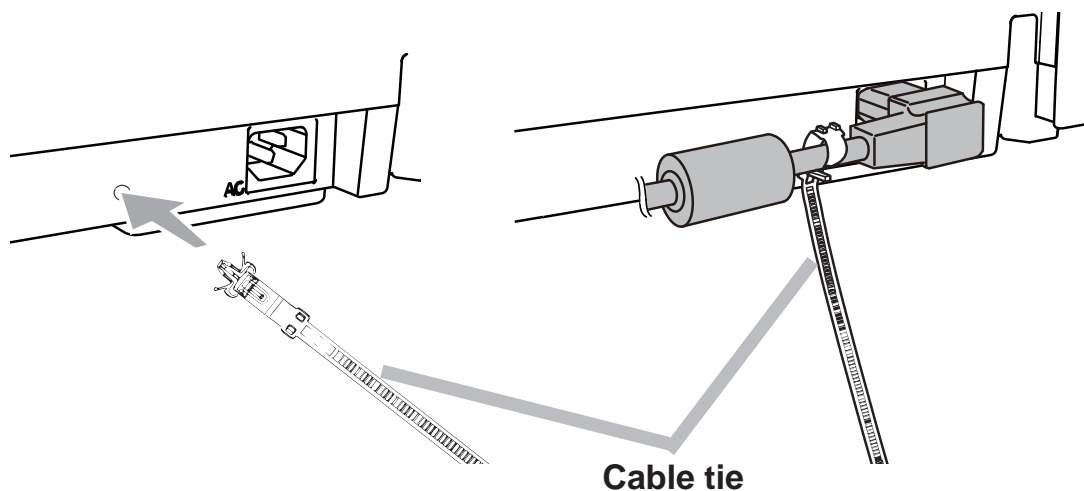
Fastening the adapter cover

Use the supplied adapter cover to prevent the USB wireless adapter from coming off easily.

1. Loosen the screw (marked with triangle) on the bottom left of the **USB TYPE A** port.

2. Insert the tab of the cover into the hole at the upper right of the **USB TYPE A** port in the direction of the arrow.

3. Align the screw holes on the projector and the cover. Then insert the screw removed from the projector into the hole and tighten the screw.

1

2

3

Tab
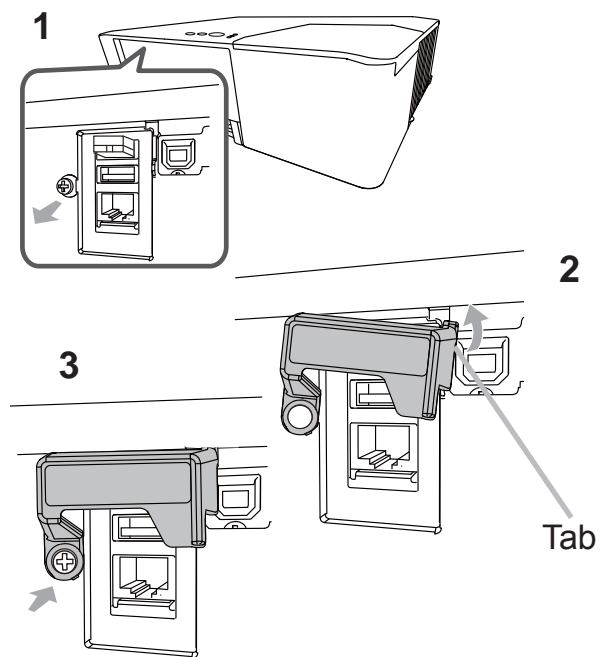
⚠**WARNING** ►Keep small parts away from children and pets. Take care not to put in the mouth. Heat may build up in the USB wireless adapter, to avoid possible burns disconnect the projector power cord for more than 10 minutes before touching it.

Using the security bar and slot

A commercially available anti-theft chain or wire can be attached to the security bar on the projector. Refer to the figure to choose an anti-theft chain or wire.
Also this product has the security slot for the Kensington lock.
For details, see the manual of the security tool.

Security slot

12.2mm

18.6mm

18.0mm

Anti-theft chain or wire
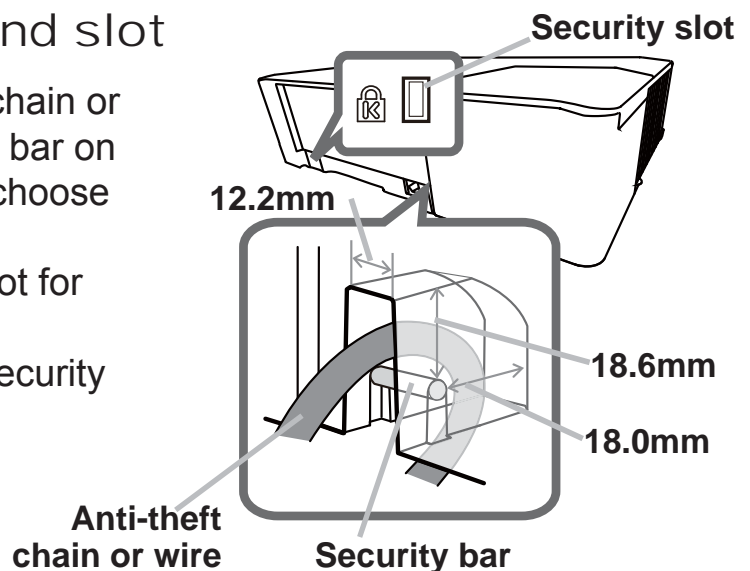
Security bar

⚠**WARNING** ►Do not use the security bar and slot to prevent the projector from falling down, since it is not designed for it.

⚠**CAUTION** ►Do not place anti-theft chain or wire near the exhaust vents. It may become too hot.

NOTE • The security bar and slot is not comprehensive theft prevention measures. It is intended to be used as supplemental theft prevention measure.

Remote control

Installing the batteries

Please insert the batteries into the remote control before using it. If the remote control starts to malfunction, try to replace the batteries. If you will not use the remote control for long period, remove the batteries from the remote control and store them in a safe place.

1. Remove the battery cover.

2. Align and insert the two AA batteries according to their plus and minus terminals as indicated in the remote control. (Use the appropriate AA carbon-zinc or alkaline batteries (non-rechargeable) in accordance with laws and regulations.)

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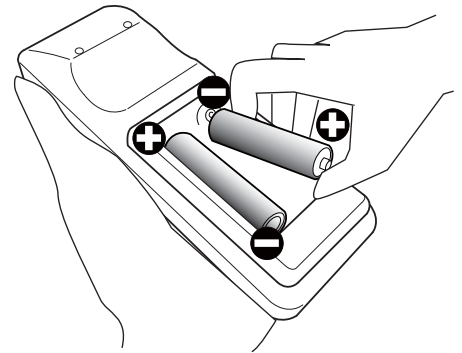
⚠**WARNING** ►Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
• Be sure to use only the batteries specified. Do not use batteries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

About the remote control signal

The remote control works with the projector's remote sensor. This projector has a remote sensor on the front. The sensor senses the signal within the following range when the sensor is active:

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

30° 30° 3m
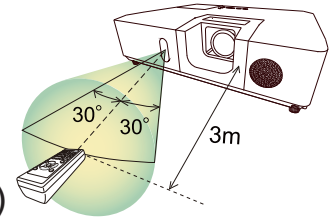
(approx.)

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

Changing the frequency of remote control signal

The accessory remote control has the two choices on signal frequency Mode 1:NORMAL and Mode 2:HIGH. If the remote control does not function properly, attempt to change the signal frequency.
In order to set the Mode, please keep pressing the combination of two buttons listed below simultaneously for about 3 seconds.

(1) Set to Mode 1:NORMAL
    VOLUME - and **RESET** buttons
(2) Set to Mode 2:HIGH
    MAGNIFY OFF and **ESC** buttons

(2)   (1)

MAGNIFY OFF button   **VOLUME -** button

ESC button   **RESET** button
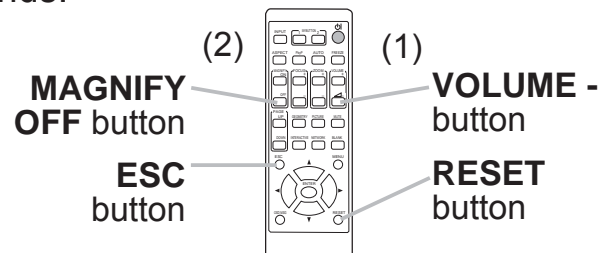
Please remember that the REMOTE FREQ. in the SERVICE item of the OPTION menu (📖**68**) of the projector to be controlled should be set to the same mode as the remote control.

18

Using as a simple PC mouse & keyboard

The accessory remote control works as a simple mouse and keyboard of the computer, when the projector's **USB TYPE B** port and the computer's type A USB port are connected.
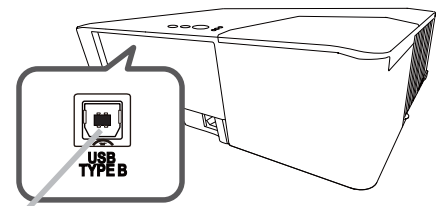
USB TYPE B port

(1) **PAGE UP key:** Press **PAGE UP** button.
(2) **PAGE DOWN key:** Press **PAGE DOWN** button.
(3) **Mouse left button:** Press **ENTER** button.
(4) **Move pointer:** Use the cursor buttons ▲, ▼, ◄ and ►.
(5) **ESC key:** Press **ESC** button.
(6) **Mouse right button:** Press **RESET** button.
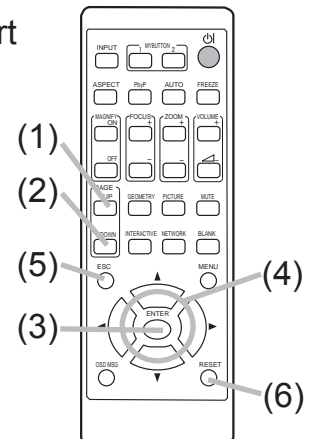
NOTICE ►Improper use of the simple mouse & keyboard function could damage your equipment. While using this function, please connect this product only to a computer. Be sure to check your computer's manuals before connecting this product to the computer.

NOTE When the simple mouse & keyboard function of this product does not work correctly, please check the following.
• When a USB cable connects this projector with a computer having a built-in pointing device (e.g. track ball) like a laptop computer, open BIOS setup menu, then select the external mouse and disable the built-in pointing device, because the built-in pointing device may have priority to this function.
• Windows Vista® or higher is required for this function. And also this function may not work depending on the computer's configurations and mouse drivers. This function can work with the computer which can operate general USB mouse or keyboard.
• You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).
• This function is activated only when the projector is working properly. This function is not available in any of the following cases:
- While the lamp is warming up. (The **POWER** indicator blinks in green.)
- When **USB TYPE A** port is selected.
- While displaying BLANK (📖*53*), TEMPLATE (📖*57*) or MY IMAGE screen.
- When any menu is displayed on the screen.
- While using the cursor buttons to operate the sound or screen functions such as adjusting the sound volume, correcting the keystone, correcting the picture position and magnifying the screen.

19

Power on/off

Turning on the power

STANDBY/ON button

POWER indicator

1. Make sure that the power cord is firmly and correctly connected to the projector and the outlet.

2. Make sure that the **POWER** indicator is lighted in steady orange (*96*). Then remove the lens cover.

3. Press the **STANDBY/ON** button on the projector or the remote control.
   The projection lamp will light up and **POWER** indicator will begin blinking in green. When the power is completely on, the indicator will stop blinking and light in steady green (*96*).
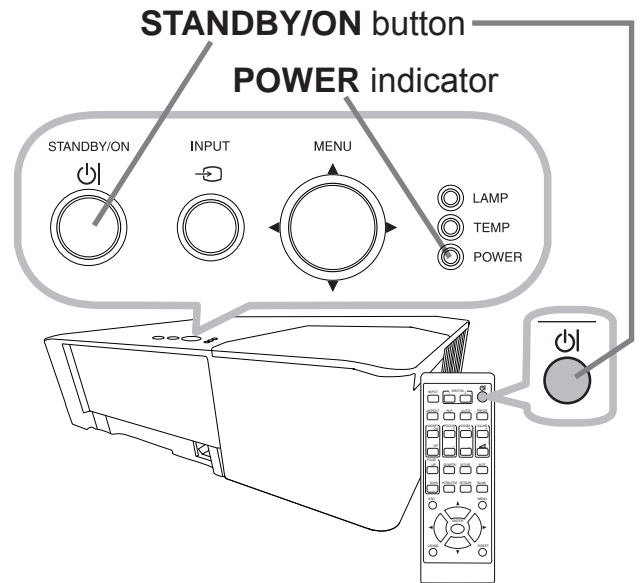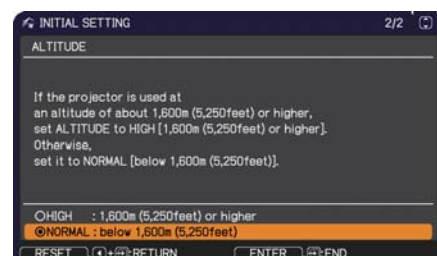
To display the picture, select an input signal according to the section **Selecting an input signal** (*23*).

The INITIAL SETTING Menu will be displayed by factory default upon startup. Once the INITIAL SETTING Menu is set, it will not appear until FACTORY RESET (*71*) is executed. If you wish to change the settings, refer to the LANGUAGE (*53*) and ALTITUDE (*67*) menu.

(1) LANGUAGE: Use the ▲/▼/◄/► buttons to select the desired language and press the **ENTER** button of the remote control or the **INPUT** button of the projector to execute.

(2) ALTITUDE: Use the ▲/▼ buttons to select NORMAL for altitude below 1600 m (5250 feet), otherwise select HIGH and press the **ENTER** button of the remote control or the **INPUT** button of the projector to execute.

Turning off the power

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 appears.
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 the lamp cooling is completed (&96).

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

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

⚠**WARNING** ►A strong light is emitted when the projector's power is on. Do not look into the lens of the projector or look inside of the projector through any of the projector's openings since the projection ray may cause a trouble on your eyes.
►Keep any object away from concentrated projection light beam. Blocking the beam by something causes high temperature and could result in fire or smoke.
►Do not touch around the lamp cover and the exhaust vents during use or just after use, since it is too hot.

NOTE • Turn the power on/off in right order. Please power on the projector prior to the connected devices.
• This projector has the function that can make the projector automatically turn on/off. Please refer to the DIRECT POWER ON (&60), AUTO POWER ON (&60) and AUTO POWER OFF (&60) items of the OPTION menu.

Operating

Adjusting the volume

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

VOLUME + / - buttons

NOTE • When ⌖ is selected for current picture input port, the volume
adjustment is disabled. Please see AUDIO SOURCE item of AUDIO menu (📖*52*).
• Even if the projector is in the standby mode, the volume is adjustable when
both of the following conditions are true:
  - An option other than ⌖ is selected for AUDIO OUT in the STANDBY
    OUTPUT item of the SETUP menu (📖*51*).
  - NORMAL is selected in the STANDBY MODE item of the SETUP menu (📖*49*).

Temporarily muting the sound

Press **MUTE** button on the remote control.
A dialog will appear on the screen indicating
that you have muted the sound.
To restore the sound, press the **MUTE**, **VOLUME +**
or **VOLUME -** button. Even if you do not do anything,
the dialog will automatically disappear after a few seconds.
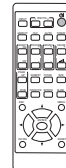
MUTE button

NOTE • When ⌖ is selected for current picture input port, the sound is always
muted.
Please see AUDIO SOURCE item of AUDIO menu (📖*52*).
• C.C. (Closed Caption) is automatically activated when sound is muted and an
input signal containing C.C. is received. This function is available only when the
signal is NTSC for **VIDEO** or 480i@60 for **COMPUTER IN1** or **COMPUTER IN2**,
and when AUTO is selected for DISPLAY in the C.C. menu under the SCREEN
menu (📖*58*).

Selecting an input signal

INPUT button

1. Press **INPUT** button on the projector or the remote control. Select a desirable input referring to the displayed input list.
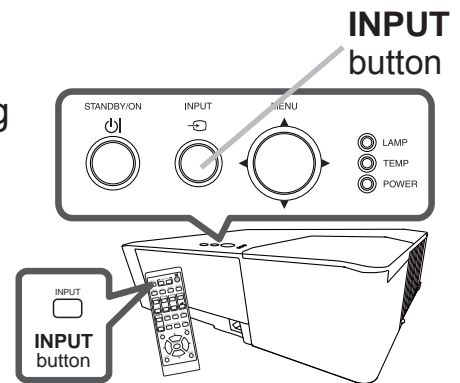
INPUT button

● While ON is selected for AUTO SEARCH item in OPTION menu (**59**), the projector will keep checking the ports in above order repeatedly till an input signal is detected.

Selecting an aspect ratio

Press **ASPECT** button on the remote control. Each time you press the button, the projector switches the mode for aspect ratio in turn.

ASPECT button

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

NOTE • **ASPECT** button does not work when no proper signal is input.
• NORMAL mode keeps the original aspect ratio setting.

Adjusting the projector's elevator

When the place to put the projector is slightly uneven to the left or right, use the elevator feet to place the projector horizontally. Using the feet can also tilt the projector in order to project at a suitable angle to the screen, elevating the front side of the projector within 11 degrees.

11°
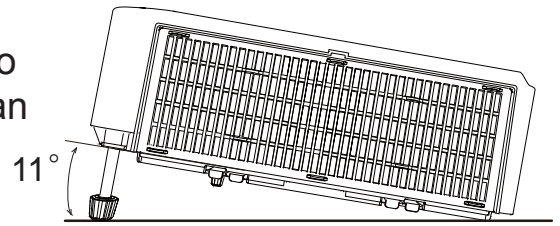
This projector has 2 elevator feet and 2 elevator buttons. An elevator foot is adjustable while pushing the elevator button on the same side as it.

1. Holding the projector, push the elevator buttons to loose the elevator feet.

2. Position the front side of the projector to the desired height.

3. Release the elevator buttons in order to lock the elevator feet.

4. After making sure that the elevator feet are locked, put the projector down gently.

5. If necessary, the elevator feet can be manually twisted to make more precise adjustments. Hold the projector when twisting the feet.
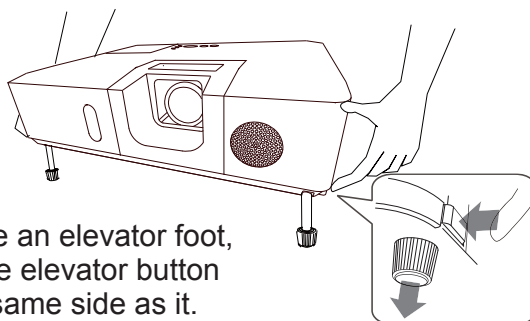
To loose an elevator foot, push the elevator button on the same side as it.
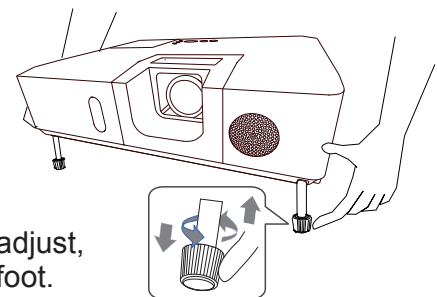
To finely adjust, twist the foot.

⚠**CAUTION** ►Do not handle the elevator buttons without holding the projector, since the projector may drop down.
►Do not tilt the projector other than elevating its front within 11 degrees using the adjuster feet. A tilt of the projector exceeding the restriction could cause malfunction or shortening the lifetime of consumables, or the projector itself.

Adjusting the zoom and focus
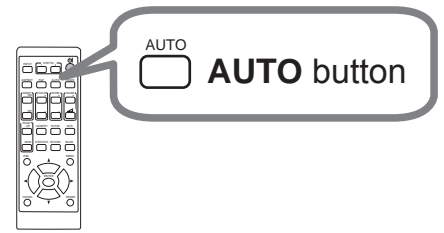
ZOOM ring
FOCUS ring

1. Use the **ZOOM** ring to adjust the screen size.

2. Use the **FOCUS** ring to focus the picture.
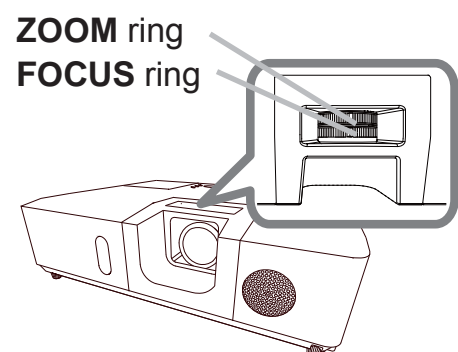
Using the automatic adjustment feature

Press **AUTO** button on the remote control.
Pressing this button performs the following.

AUTO

AUTO button

❍ **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 still be incorrectly adjusted. Use a bright picture when adjusting.

❍ **For a 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 (📖*42*). The vertical position and horizontal position will be automatically set to the default.

❍ **For a component video signal**
The vertical position and horizontal position will be automatically set to the default. The horizontal phase will be automatically adjusted.

NOTE • The automatic adjustment operation requires approx. 10 seconds. 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.
• When this function is performed for a computer signal, a black frame may be displayed on the edge of the screen, depending on the computer model.
• The items adjusted by this function may vary when the FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu (📖*67*).

Correcting the distortion

To correct the distortion of projected screen, you can select either KEYSTONE or PERFECT FIT. First press the **GEOMETRY** button to display the GEOMETRY CORRECTION menu, and point at one of the items with the ▲/▼ buttons.

KEYSTONE: allows you to adjust the vertical and horizontal keystone.

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

GEOMETRY **GEOMETRY** button
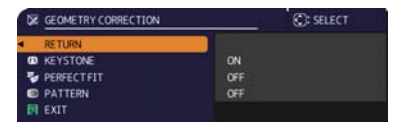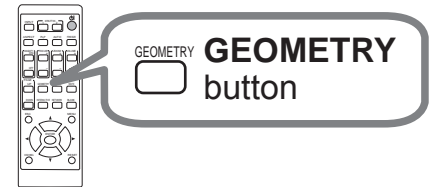
Use KEYSTONE / PERFECT FIT for adjustment. When one of them is selected, the other item is not available.

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

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

○ **KEYSTONE:**

When KEYSTONE is pointed at, pressing the ► or **ENTER** button displays the KEYSTONE dialog.

1. Select MANUAL with the ▲/▼ buttons and press the ► or **ENTER** button.
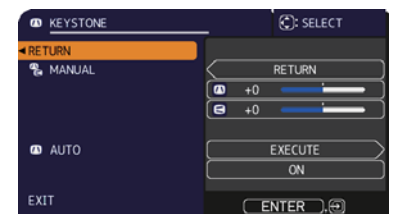
   Select the vertical or horizontal keystone (▢ / ▢) with the ▲/▼ buttons and adjust the keystone distortion with the ◄/► buttons.

(continued on next page)

Correcting the distortion (continued)

2. Select AUTO with the ▲/▼ buttons and press the ► or **ENTER** button.

2.1 Select EXECUTE with the ▲/▼ buttons and press the ► button for automatic keystone distortion correction. Projector automatically corrects vertical keystone distortion due to the (forward/backward) setup angle by itself.This function will be executed only once when selected in the menu. When the slant of the projector is changed, execute this function again.

2.2 Select ON/OFF with the ▲/▼ buttons and press the ► or **ENTER** button.

ON: Automatic keystone distortion correction will be executed whenever changing the slant of the projector.

OFF: This function is disabled. Please execute the AUTO (📖*27*) for automatic keystone distortion correction.

NOTE • The adjustable range of this function will vary among inputs. For some input,this function may not work well.
• When REAR / CEILING or FRONT / CEILING is selected for the INSTALLATION item in the SETUP menu, the automatic vertical keystone correction function may not work correctly if the projector screen is slanted or tilted downwards.
• 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 ±4°), the automatic keystone distortion correction may not work.
• When the projector is inclined to near ±30 degree or over, this function may not work well.
• This function will be unavailable when the TRANSITION DETECTOR is on (📖*76*).
• The display will be dark for a split second while switching the KEYSTONE, but this is not a malfunction.

○ **PERFECT FIT:**

When PERFECT FIT is pointed at, pressing the ► or **ENTER** button displays the PERFECT FIT dialog.
This projector is equipped with a test pattern for PERFECT FIT. Select PATTERN with the ▲/▼ buttons, then press the ◄/► buttons to select pattern.

(continued on next page)

Correcting the distortion (continued)

1. Select SETUP with the ▲/▼ buttons and press the ► or **ENTER** button.
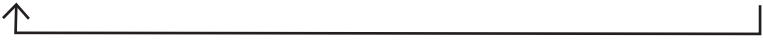
2. Select one of the corners or sides to be adjusted with the ▲/▼/◄/► buttons and press the **ENTER** or ⊖ button.

3. Adjust the selected part as below.

   ● For adjusting a corner, use the ▲/▼/◄/► buttons to adjust the position of the corner.
   ● For adjusting the upper or lower side, use the ▲/▼ buttons to adjust the distortion of the side.
   ● For adjusting the left or right side, use the ◄/► buttons to adjust the distortion of the side.
   ● To adjust another corner or side, press the **ENTER** or ⊖ button and follow the procedure from step 2.

4. This projector is equipped with a memory feature for PERFECT FIT adjustment. Up to 3 sets of adjustments can be stored.
   ● **SAVE:**
   To store the current PERFECT FIT adjustment, select one of the "SAVE" options numbered 1 to 3 (number of the memory) with the ▲/▼ buttons and press the ►, **ENTER** or ⊖ button.
   Remember that the current data being stored of a memory will be lost by saving new data into the memory.
   ● **LOAD:**
   To recall stored adjustments, select one of the "LOAD" options numbered 1 to 3 (number of the memory) with the ▲/▼ buttons and press the ►, **ENTER** or ⊖ button.
   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.

NOTE • The LOAD functions whose linked memory has no data are skipped.
• There may be some noise and the screen may flicker for a moment when loading data. This is not malfunction.

Using the magnify feature

1. Press the **MAGNIFY ON** button on the remote control.
The picture will be magnified, and the MAGNIFY dialog will appear on the screen. When the **MAGNIFY ON** button is pressed for the first time after the projector is turned on, the picture will be zoomed by 1.5 times. On the dialog, triangle marks to show each direction will be displayed.

MAGNIFY ON/OFF button

2. The display magnification of the projector switches in order with every press of the **MAGNIFY ON** button.

1.5 times → 2 times → 3 times → 4 times → 1 time

3. While the triangles are displayed on the dialog, use the ▲/▼/◄/► cursor buttons to shift the magnifying area.

4. Press the **MAGNIFY OFF** button on the remote control to exit magnification.
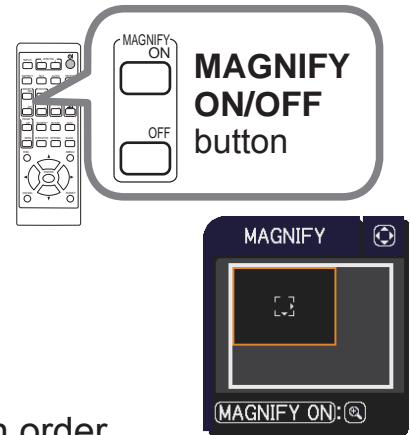
NOTE • The MAGNIFY dialog will automatically disappear in several seconds with no operation. The dialog will appear again if the **MAGNIFY ON** button is pressed when the dialog has automatically disappeared.
• The magnification is automatically disabled when the displaying signal or its display condition is changed.
• While the magnification is active, the keystone distortion condition may vary. It will be restored when the magnification is disabled.
• Some horizontal stripes might be visible on the image while magnification is active.
• This function is not available in the following cases:
  - A sync signal in the range not supported is input.
  - There is no input signal.

Temporarily freezing the screen

Press the **FREEZE** button on the remote control.
The "FREEZE" indication will appear on the screen
(however, the indication will not appear when
SILENT is selected for the OSD MESSAGE item
in the SETUP (📖*51*)), 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.

FREEZE
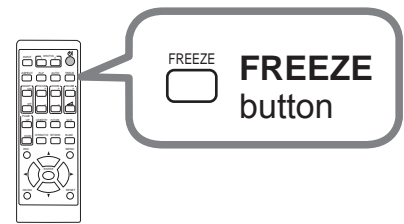
FREEZE
button

> **NOTE** • The projector automatically exits from the FREEZE mode when some
> control buttons are pressed.
> • If the projector continues projecting a still image for a long time, the LCD
> panel might possibly be burned in. Do not leave the projector in the FREEZE
> mode for too long.
> • Images might appear degraded when this function is operated, but it is not a
> malfunction.

Temporarily blanking the screen

Press **BLANK** button on the remote control.
The BLANK screen will be displayed instead of
the screen of input signal. Please refer to BLANK
item in SCREEN menu (📖*53*).
To exit from the BLANK screen and return to the
input signal screen, press **BLANK** button again.
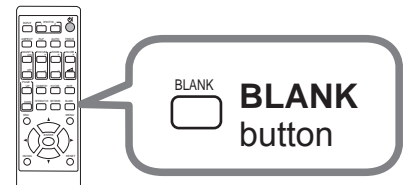
BLANK

BLANK
button

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

⚠**CAUTION**   ►If you wish to have a blank screen while the projector's lamp
is on, use the BLANK function above.
Taking any other action may cause the damage on the projector.

> **NOTE** • The sound is not connected with the BLANK screen function. If
> necessary, set the volume or mute first.

Using the menu function

This projector has the following menus:
PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION, NETWORK, SECURITY and EASY MENU. EASY MENU consists of functions often used, and the other menus are classified into each purpose and brought together as the ADVANCED MENU.
Each of these menus is operated using the same methods. While the projector is displaying any menu, the **MENU** button on the projector works as the cursor buttons. The basic operations of these menus are as follows.

MENU button

INPUT button

Cursor buttons

ENTER button   **RESET** button
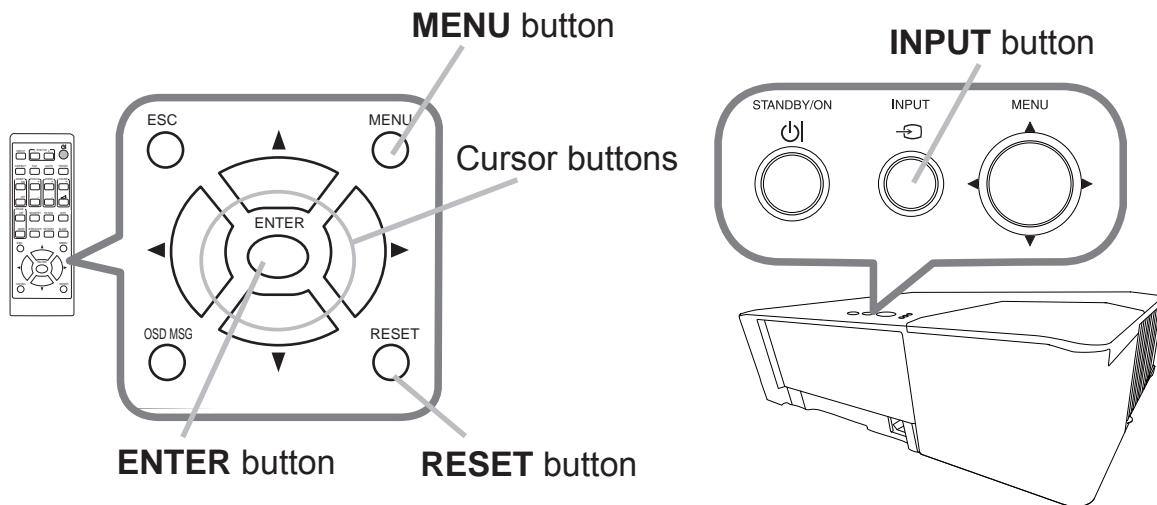
1. To start the MENU, press the **MENU** button. The MENU you last used (EASY or ADVANCED) will appear. EASY MENU has priority to appear just after powered on.

2. **In the EASY MENU**

   (1) Use the ▲/▼ cursor buttons to select an item to operate. If you want to change it to the ADVANCED MENU, select the ADVANCED MENU.
   (2) Use the ◄/► cursor buttons to operate the item.

   In the ADVANCED MENU

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

Using the menu function (continued)

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

NOTE • 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 **RESET** button on the remote control during the operation. Note that some items (ex. LANGUAGE, VOLUME) cannot be reset.
• In the ADVANCED MENU, when you want to return to the previous display, press the ◄ cursor button on the remote control.

Indication in OSD (On Screen Display)
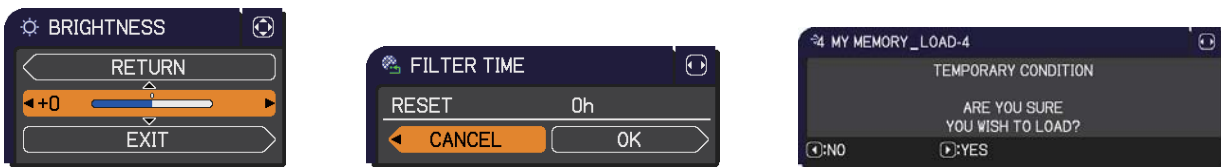
The meanings of the general words on the OSD are as follows.

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

Using the menu function (continued)
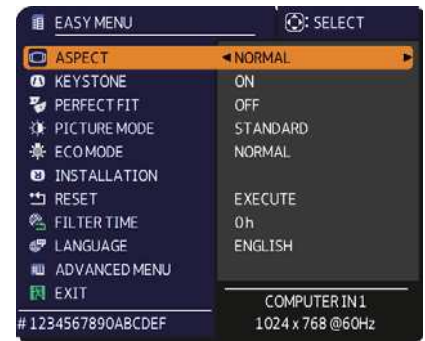
Containing items of each menu

The items contained in the menus are as below;

Menu	Items
EASY MENU (📖*34*)	ASPECT, KEYSTONE, PERFECT FIT, PICTURE MODE, ECO MODE, INSTALLATION, RESET, FILTER TIME, LANGUAGE, ADVANCED MENU, EXIT
PICTURE(📖*36*)	BRIGHTNESS, CONTRAST, COLOR, TINT, SHARPNESS, ACTIVE IRIS, PICTURE QUALITY, MY MEMORY
IMAGE (📖*40*)	ASPECT, OVER SCAN, V POSITION, H POSITION, H PHASE, H SIZE, AUTO ADJUST EXECUTE
INPUT (📖*42*)	PROGRESSIVE, VIDEO NR, COLOR SPACE, VIDEO FORMAT, DIGITAL RANGE,COMPUTER IN, FRAME LOCK, RESOLUTION,MHL STANDBY PWR.
SETUP (📖*46*)	GEOMETRY CORRECTION, LAMP & FILTER, IMAGE OPTIMIZER, INSTALLATION, STANDBY MODE,OSD MESSAGE, STANDBY OUTPUT
AUDIO (📖*52*)	VOLUME, SPEAKER, AUDIO SOURCE
SCREEN(📖*53*)	LANGUAGE, MENU POSITION, BLANK, AUTO BLANK, START UP, MyScreen, MyScreen Lock, SOURCE NAME, TEMPLATE, C.C.
OPTION (📖*59*)	SEARCH SKIP, AUTO SEARCH, DIRECT POWER ON, AUTO POWER ON, AUTO POWER OFF, MY BUTTON, SCHEDULE, SERVICE
NETWORK (📖*72*)	NETWORK INFORMATION, WIRELESS NETWORK, NETWORK SETUP, MY IMAGE, EXTERNAL CONTROL, OTHER OPERATION
SECURITY (📖*73*)	ENTER PASSWORD, SECURITY PASSWORD CHANGE, MyScreen PASSWORD, PIN LOCK, TRANSITION DETECTOR, MY TEXT PASSWORD, MY TEXT DISPLAY, MY TEXT WRITING,

EASY MENU

From the EASY MENU, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons. Then perform it according to the following table.

Item	Description
ASPECT	Using the ◄/► buttons switches the mode for aspect ratio. See the ASPECT item in IMAGE menu (📖*40*).
KEYSTONE	Pressing the ► button displays the KEYSTONE dialog. See the KEYSTONE item in SETUP menu (📖*46*).
PERFECT FIT	Pressing the ► button displays the PERFECT FIT dialog. See the PERFECT FIT item in SETUP menu (📖*46*).
PICTURE MODE	Using the ◄/► buttons switches the picture mode. The picture modes are combinations of GAMMA and COLOR TEMP settings. Choose a suitable mode according to the projected source. STANDARD ⇔ NATURAL ⇔ CINEMA ⇔ DYNAMIC ⇕ ⇕ USER-3 BOARD(BLACK) ⇕ ⇕ USER-2 BOARD(GREEN) ⇕ ⇕ USER-1 ⇔ DICOM SIM. ⇔ DAYTIME ⇔ WHITEBOARD • Lines or other noise might appear on the screen when this function is operated, but it is not a malfunction. • DICOM SIM. is the projector's DICOM® ("Digital Imaging and Communication in Medicine") simulation mode. This mode simulates the DICOM standard, which is a standard applicable to digital communications in medicine, and can be useful for displaying medical images, such as X-rays photos. This projector is not a medical device and is not compliant to the DICOM standard, and neither the projector nor the DICOM SIM. mode should be used for medical diagnosis.

(continued on next page)

Item	Description
ECO MODE	Using the ◄/► buttons turns off/on the Eco mode. See the ECO MODE item in SETUP menu (📖*47*).
INSTALLATION	Pressing the ► button displays the INSTALLATION dialog. See the INSTALLATION item in SETUP menu (📖*49*).
RESET	Performing this item resets all of the EASY MENU items except the FILTER TIME and LANGUAGE. A dialog is displayed for confirmation. Selecting the OK using the ► button performs resetting.
FILTER TIME	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 dialog is displayed for confirmation. Selecting the OK using the ► button performs resetting. See the FILTER TIME item in SETUP menu (📖*48*).
LANGUAGE	Using the ◄/► buttons changes the display language. See the LANGUAGE item in SCREEN menu (📖*53*).
ADVANCED MENU	Press the ► or **ENTER** button to use the menu of PICTURE, IMAGE, INPUT, SETUP, AUDIO, SCREEN, OPTION, NETWORK or SECURITY.
EXIT	Press the ◄ or **ENTER** button to finish the OSD menu.

PICTURE menu

From the PICTURE menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
BRIGHTNESS	Using the ◄/► buttons adjusts the brightness. Dark ⇔ Light
CONTRAST	Using the ◄/► buttons adjusts the contrast. Weak ⇔ Strong
COLOR	Using the ◄/► buttons adjusts the strength of whole color. Weak ⇔ Strong
TINT	Using the ◄/► buttons adjusts the tint. Reddish ⇔ Greenish
SHARPNESS	Using the ◄/► buttons adjusts the sharpness. Weak ⇔ Strong • There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction.

Item	Description
ACTIVE IRIS	Using the ▲/▼ cursor buttons changes the active iris control mode. 　ON　⇔　OFF 　<u>ON</u> : The active iris displays the best presentation image for both bright and dark scenes. 　<u>OFF</u> : The active iris is always open. • The screen may flicker when the the ON mode is selected. If this occurs select OFF.
PICTURE QUALITY	Selecting this item displays the PICTURE QUALITY menu. Select an item using the ▲/▼ buttons, and press the ► button or the **ENTER** button on the remote control to execute the item.

	PICTURE MODE 　STANDARD　⇔　NATURAL　⇔　CINEMA　⇔　DYNAMIC 　　　⇕　　　　　　　　　　　　　　　　　　⇕ 　　USER-3　　　　　　　　　　　　　BOARD(BLACK) 　　　⇕　　　　　　　　　　　　　　　　　⇕ 　　USER-2　　　　　　　　　　　　BOARD(GREEN) 　　　⇕　　　　　　　　　　　　　　　　　⇕ 　　USER-1　⇔　DICOM SIM.　⇔　DAYTIME　⇔　WHITEBOARD After selecting USER-1 / USER-2 / USER-3, the following features are adjustable. Gamma, Color Temp
	GAMMA This feature is only available when USER-1 / USER-2 / USER-3 is selected. Using the ▲/▼ buttons switches the gamma mode. 　DEFAULT-1 ⇔ CUSTOM-1 ⇔ DEFAULT-2 ⇔ CUSTOM-2 　　　⇕　　　　　　　　　　　　　　　　⇕ 　CUSTOM-8　　　　　　　　　　　　DEFAULT-3 　　　⇕　　　　　　　　　　　　　　　　⇕ 　DEFAULT-8　　　　　　　　　　　　CUSTOM-3 　　　⇕　　　　　　　　　　　　　　　　⇕ 　CUSTOM-7　　　　　　　　　　　　DEFAULT-4 　　　⇕　　　　　　　　　　　　　　　　⇕ 　DEFAULT-7　　　　　　　　　　　　CUSTOM-4 　　　⇕　　　　　　　　　　　　　　　　⇕ 　CUSTOM-6 ⇔ DEFAULT-6 ⇔ CUSTOM-5 ⇔ DEFAULT-5

Item	Description
PICTURE QUALITY (continued)	**GAMMA (continued)** Selecting a mode whose name includes CUSTOM and then pressing the ► button or the **ENTER** button displays a dialog to aid you in adjusting the mode. This function is useful when you want to change the brightness of particular tones. Choose an item using the ◄/► buttons, and adjust the level using the ▲/▼ buttons. • Lines or other noise might appear on the screen when this function is operated, but it is not a malfunction.
	COLOR TEMP This feature is only available when USER-1 / USER-2 / USER-3 is selected. Using the ▲/▼ buttons switches the color temperature mode. HIGH ⇔ CUSTOM-1 ⇔ MID-1 ⇔ CUSTOM-2 ⇕ ⇕ CUSTOM-7 MID-2 ⇕ ⇕ Hi-BRIGHT-3 CUSTOM-3 ⇕ ⇕ CUSTOM-6 LOW ⇕ ⇕ Hi-BRIGHT-2 ⇔ CUSTOM-5 ⇔ Hi-BRIGHT-1 ⇔ CUSTOM-4 Selecting a mode whose name includes CUSTOM and then pressing the ► button or the **ENTER** button displays a dialog to aid you in adjusting the OFFSET and GAIN of the selected mode. OFFSET adjustments change the color intensity on the whole tones. GAIN adjustments mainly affect color intensity on the brighter tones. Choose an item using the ◄/► buttons, and adjust the level using the ▲/▼ buttons. • Lines or other noise might appear on the screen when this function is operated, but it is not a malfunction.

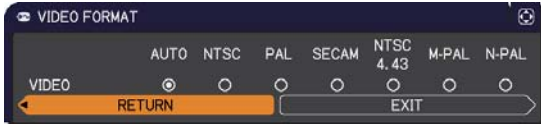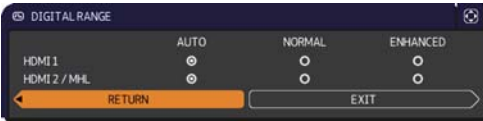| Item	Description
PICTURE QUALITY (continued)	**ACCENTUALIZER** ACCENTUALIZER is a function to improve the legibility. Using the ◄/► buttons adjusts the sharpness. 　Weak ⇔ Strong • There may be some noise and/or the screen may flicker for a moment when an adjustment is made. This is not a malfunction. • This function may not work properly when IMAGE OPTIMIZER is enabled.
	HDCR A function to show a clear picture in a bright room. Using the◄/► buttons adjusts the contrast. • This function may not work properly when IMAGE OPTIMIZER is enabled.
MY MEMORY	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. 　　LOAD-1 ⇔ LOAD-2 ⇔ LOAD-3 ⇔ LOAD-4 　　SAVE-4 ⇔ SAVE-3 ⇔ SAVE-2 ⇔ SAVE-1 LOAD-1, LOAD-2, LOAD-3, LOAD-4 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. • The LOAD functions whose linked memory has no data are skipped. • 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. • There may be some noise and the screen may flicker for a moment when loading data. This is not malfunction. • You can perform the LOAD function using **MY BUTTON**. Please see MY BUTTON item in OPTION menu (*61*). SAVE-1, SAVE-2, SAVE-3, SAVE-4 Performing a SAVE function saves the current adjustment data into the memory linked in the number included in the function's name. • Remember that the current data being stored of a memory will be lost by saving new data into the memory.

IMAGE menu

From the IMAGE menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table for selected port.

Item	Description
ASPECT	Using the ▲/▼ buttons switches the mode for aspect ratio. NORMAL ⇔ 4:3 ⇔ 16:9 ⇔ 16:10 ⇔ 14:9 ⇔ ZOOM ⇔ NATIVE • The NORMAL mode keeps the original aspect ratio of the signal.
OVER SCAN	Using the ◄/► buttons adjusts the over-scan ratio. Small (It magnifies picture) ⇔ Large (It reduces picture)
V POSITION	Using the ◄/► buttons adjusts the vertical position. Down ⇔ Up • Over-adjusting the vertical position may cause noise to appear on the screen. If this occurs, please reset the vertical position to the default setting. Pressing the **RESET** button when the V POSITION is selected will reset the V POSITION to the default setting. • When this function is performed on a video signal, the range of this adjustment depends on OVER SCAN (📖*above*) setting. It is not possible to adjust when OVER SCAN is set to 10.
H POSITION	Using the ◄/► buttons adjusts the horizontal position. Right ⇔ Left • Over-adjusting the horizontal position may cause noise to appear on the screen. If this occurs, please reset the horizontal position to the default setting. Pressing the **RESET** button when the H POSITION is selected will reset the H POSITION to the default setting. • When this function is performed on a video signal, the range of this adjustment depends on OVER SCAN (📖*above*) setting. It is not possible to adjust when OVER SCAN is set to 10.

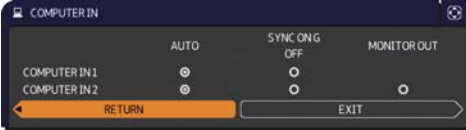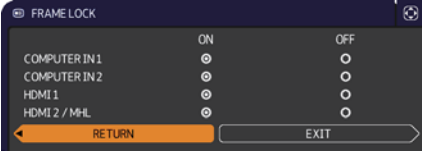| Item	Description
H PHASE	Using the ◄/► buttons adjusts the horizontal phase to eliminate flicker. Right ⇔ Left
H SIZE	Using the ◄/► buttons adjusts the horizontal size. Small ⇔ Large • When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment by pressing the **RESET** button on the remote control during this operation. • Images might appear degraded when this function is operated, but it is not a malfunction.
AUTO ADJUST EXECUTE	Selecting this item performs the automatic adjustment feature. **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 still be incorrectly adjusted. Use a bright picture when adjusting. **For a 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 (📖*42*). The vertical position and horizontal position 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, a certain extra such as a line may appear outside a picture. • When this function is performed for a computer signal, a black frame may be displayed on the edge of the screen, depending on the computer model. • The items adjusted by this function may vary when the FINE or DISABLE is selected for the AUTO ADJUST item of the SERVICE item in the OPTION menu (📖*67*).

INPUT menu

From the INPUT menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.
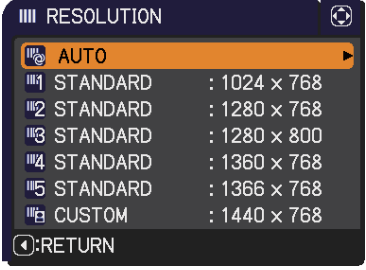
Item	Description
PROGRESSIVE	Using the ▲/▼ buttons switches the progress mode. TV ⇔ FILM ⇔ OFF • When TV or FILM is selected, the screen image will be sharp. FILM adapts to the 2-3 Pull-Down conversion system. But these may cause a certain defect (for example, jagged line) of the picture for a quick moving object. In such a case, please select OFF, even though the screen image may lose sharpness.
VIDEO NR	Using the ▲/▼ buttons switches the noise reduction mode. HIGH ⇔ MID ⇔ LOW
COLOR SPACE	Using the ▲/▼ buttons switches the mode for color space. AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601 • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well at some signals. In such a case, it might be good to select a suitable mode except AUTO.
VIDEO FORMAT	The video format for **VIDEO** port can be set. Using the ◄/► buttons switches the mode for video format. AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM N-PAL ⇔ M-PAL ⇔ NTSC4.43 • This item is performed only for a video signal from the **VIDEO** port. • The AUTO mode automatically selects the optimum mode. • The AUTO operation may not work well for some signals. If the picture becomes unstable (e.g. an irregular picture, lack of color), please select the mode according to the input signal.

Item	Description
DIGITAL RANGE	The digital range of HDMI™/MHL input signals from the **HDMI 1** and **HDMI 2** /**MHL** ports can be set. (1) Use the ▲/▼ buttons to select the port to be set. (2) Use the ◄/►buttons to select the digital range. 　　AUTO ⇔ NORMAL ⇔ ENHANCED 　　　⇧_____⇧ 　AUTO: automatically sets the optimum mode. 　NORMAL: sets the suitable mode for DVD signals. (16-235) 　ENHANCED: sets the suitable mode for computer signals. (0-255) • If the contrast of the screen image is too strong or too weak, try finding a more suitable mode.
COMPUTER IN	The computer input signal type for **COMPUTER IN1** and **IN2** ports can be set. (1) Use the ▲/▼ buttons to select the **COMPUTER IN** port to be set. (2) Use the ◄/► buttons to select the computer input signal type. 　(COMPUTER IN1) 　　AUTO ⇔ SYNC ON G OFF 　(COMPUTER IN2) 　　AUTO ⇔ SYNC ON G OFF ⇔ MONITOR OUT • Selecting the AUTO mode allows you to input a sync on G signal or component video signal from the port. • In the AUTO mode, the picture may be distorted with certain input signals. In such a case, remove the signal connector so that no signal is received and select the SYNC ON G OFF, and then reconnect the signal.
FRAME LOCK	Set the frame lock function on/off for each port. (1) Use the ▲/▼ buttons to select the input ports. (2) Use the ◄/► buttons to turn the frame lock function on/off . 　　ON ⇔ OFF • This item can be performed only on a signal with a vertical frequency of 49 to 51Hz, 59 to 61 Hz. • When ON is selected, moving pictures are displayed more smoothly.

Item	Description
RESOLUTION	The resolution for the **COMPUTER IN1** and **COMPUTER IN2** input signal can be set on this projector. (1) In the INPUT menu select the RESOLUTION using the ▲/▼ buttons and press the ► button. The RESOLUTION menu will be displayed. (2) In the RESOLUTION menu select the resolution you wish to display using the ▲/▼ buttons. Selecting AUTO will set a resolution appropriate to the input signal. (3) Pressing the ► or **ENTER** button when selecting a STANDARD resolution will automatically adjust the horizontal and vertical positions, clock phase and horizontal size. The INPUT_INFORMATION dialog will be displayed. (4) To set a custom resolution use the ▲/▼ buttons to select the CUSTOM and the RESOLUTION_CUSTOM box will be displayed. Set the (HORZ) and (VERT) resolutions using the ▲/▼/◄/► buttons. This function may not support all resolutions. (5) Move the cursor to OK on screen and press the ► or **ENTER** button. The message "ARE YOU SURE YOU WISH TO CHANGE RESOLUTION?" appears. To save the setting, press the ► button. The horizontal and vertical positions, clock phase and horizontal size will be automatically adjusted. The INPUT_INFORMATION dialog will be displayed. (6) To revert back to the previous resolution without saving changes, move the cursor to CANCEL on screen and press the ◄ or **ENTER** button. The screen will then return to the RESOLUTION menu displaying the previous resolution. • For some pictures, this function may not work well.

Item	Description
MHL STANDBY PWR.	Using the ▲/▼ buttons switches the MHL STANDBY PWR. ON/ OFF. ON ⇔ OFF • When the MHL STANDBY PWR. is set to OFF, MHL power feeding is unavailable with standby mode. • When the MHL STANDBY PWR. is set to OFF, MHL audio is unavailable. • When the STANDBY MODE is set to SAVING/NETWORK(WOL), the MHL STANDBY PWR. menu cannot be operated and MHL power feeding is unavailable with standby mode (📖*49*). • When the MHL STANDBY PWR. is set to ON, there may be some noise with standby mode. This is not malfunction.

SETUP menu

From the SETUP menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
GEOMETRY CORRECTION	**KEYSTONE** Selecting this item displays the KEYSTONE dialog. For details, see KEYSTONE in **Correcting the distortion**(📖*26*). • The adjustable range of this function will vary among inputs. For some inputs, this function may not work well. • When the zoom adjustment is set to 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. • This function is unavailable when TRANSITION DETECTOR (📖*76*) is ON or the screen is adjusted by PERFECT FIT (📖*27*).
	PERFECT FIT Selecting this item displays the PERFECT FIT dialog. For details, see PERFECT FIT in **Correcting the distortion** (📖*27*). • This function is unavailable when TRANSITION DETECTOR (📖*76*) is ON or the screen is adjusted by KEYSTONE (📖*26*).

(continued on next page)

Item	Description
GEOMETRY CORRECTION (continued)	**PATTERN** Select PATTERN with ▲/▼ buttons. Displayed pattern [Off/1/2/3/4/5/6] can be switched with ◄/► buttons. PATTERN 1: Frame PATTERN 2: Red Grid PATTERN 3: Green Grid PATTERN 4: Blue Grid PATTERN 5: Vertical 9 steps PATTERN 6: Horizontal 9 steps OFF: Displays the input signal.
LAMP & FILTER	Selecting this item displays the LAMP & FILTER menu. Select an item using the ▲/▼ buttons, and press the ► button or the **ENTER** button on the remote control to execute the item. LAMP & FILTER ECO MODE NORMAL LAMP TIME 0h FILTER TIME 0h FILTER MESSAGE 10000h ◄:RETURN
	ECO MODE Using the ▲/▼ buttons switches the Eco mode. NORMAL ⇔ ECO • When the ECO is selected, acoustic noise and screen brightness are reduced.
	LAMP TIME The lamp time is the usage time of the lamp, counted after the last resetting. It is shown in the LAMP & FILTER menu. Pressing the **RESET** button on the remote control or the ► button of the projector displays a dialog. To reset the lamp time, select the OK using the ► button. CANCEL ⇨ OK • For the lamp replacement, see the section **Replacing the lamp** (📖*88*). • The IMAGE OPTIMIZER function does not work properly unless LAMP TIME is initialized when replacing a lamp.

Item	Description
LAMP & FILTER (continued)	**FILTER TIME** The filter time is the usage time of the air filter, counted after the last resetting. It is shown in the **LAMP & FILTER** menu. Pressing the **RESET** button on the remote control or the ► button of the projector displays a dialog. To reset the filter time, select the OK using the ► button. 　CANCEL ⇨ OK • Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter. • For the air filter cleaning, see the section Cleaning and replacing the air filter (📖*90*).
	FILTER MESSAGE Use the ▲/▼ button to set the timer for notifying by the message when to replace the filter unit 　　1000h ⇔·········⇔ 30000h ⇔ OFF After choosing an item except OFF, the message "REMINDER *** HRS PASSED ...." will appear after the timer reaches the interval time set by this feature. 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. • 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. • Please be careful with the operating environment of the projector and the condition of the filter unit.
IMAGE OPTIMIZER	When this function is enabled, automatic image correction is performed to maintain visibility in accordance with lamp deterioration. • This function may not work properly when HDCR/ACCENTUALIZER is set to other than 0. • This function does not work properly unless LAMP TIME is initialized when replacing a lamp.

Item	Description
INSTALLATION	Pressing the ►button displays the dialog for changing the INSTALLATION setting. Abc — FRONT / DESKTOP ⇐ ⇕ ɔdA — REAR / DESKTOP ⇕ ∀pc — REAR / CEILING ⇕ Abc — FRONT / CEILING ⇐ Use the ▲/▼ buttons to select the desired setting on the INSTALLATION dialog, and press the **ENTER** button of the remote control or the **INPUT** button of the projector to execute. This function is unavailable when TRANSITION DETECTOR (📖*76*) is ON.
STANDBY MODE	Using ▲/▼ buttons switches the standby mode setting. <u>NORMAL</u> : For using communication functions in the standby mode. NETWORK(WOL) : For using Wake on LAN (WOL) function on wired network while reducing power consumption. <u>SAVING</u> : Reduces power consumption minimally. • When NETWORK (WOL) or SAVING is selected, the following restrictions apply. - The RS-232C communication control except to turn the projector on are disabled while the projector is in the standby mode. If the COMMUNICATION TYPE in the COMMUNICATION menu is set to NETWORK BRIDGE, all of the RS-232C commands are disabled(📖*69*). - STANDBY OUTPUT is invalid. - The Projector control via HDMI function is disabled while the projector is in the standby mode. - SCHEDULE function (Ex. POWER-ON) in the standby mode will not be operated. - The MHL STANDBY PWR. menu cannot be operated and MHL power feeding is unavailable with standby mode(📖*45*). - It takes a while until the projector is available after starting up. - The USB connection is disabled while the projector is in standby mode. • When NETWORK (WOL) is selected, only Wake on LAN (WOL) on wired LAN is accepted while the projector is in the standby mode.

Wake-On LAN (WOL) function

If you select NETWORK(WOL) in SETUP menu > STANDBY MODE, you can use the Wake-On LAN(WOL) function of wired network while saving power consumption in standby state.

Operation
Various communication functions can be used after the projector goes into NORMAL standby mode by receiving WOL Magic packet in standby state. However, the projector automatically goes back to NETWORK(WOL) standby mode with less power consumption if 10 minutes have passed after the projector goes into NORMAL standby mode by WOL Magic packet.
It takes about 1 minute on a wired network or about 2 minutes on a wireless network until communication functions are available after WOL Magic packet has been received.

WOL Magic packet

Item	Specifications
Network	Wired network only
Protocol	UDP
Destination address	Broadcast address
Destination port number	Arbitrary
WOL Magic packet	A packet using MAC address of wired LAN of the projector (FF:FF:FF:FF:FF:FF(6 bytes)) followed by 102-byte data with MAC Address(6 bytes) repeated 16 times

(Example) WOL Magic packet for MAC Address: 01:02:03:04:05:06
FF:FF:FF:FF:FF:FF: 01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06:
01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06:
01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06:
01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06: 01:02:03:04:05:06:
01:02:03:04:05:06:

NOTICE
Supported WOL Magic packet is a packet to be sent to broadcast address. General routers may not forward a packet of broadcast address to a device with a different network address by default.
If you use a router like this, WOL function cannot be used for the projector that is not in the same network address.
Consult with your network administrator about router settings.
This function is available only in wired network and is not supported in wireless network.

Item	Description
OSD MESSAGE	Using the ▲/▼ buttons turns on/off the message function. • To change this function, follow the steps below. 1. Press the **OSD MSG** button on the remote control for 3 sec. 2. The INHIBIT OSD will be displayed. While this OSD is displayed, press the **OSD MSG** button again on the remote control. 3. Toggle and change the function. NORMAL ⇔ SILENT ⇔ INHIBIT ■SILENT : The following message functions do not work. "AUTO IN PROGRESS" while automatically adjusting. "NO INPUT IS DETECTED" "SYNC IS OUT OF RANGE" "INVALID SCAN FREQ." "NOT AVAILABLE" "Searching…." while searching for the input. "Detecting…." while an input signal is detected. The indication of the input signal displayed by changing. The indication of the aspect ratio displayed by changing. The indication of the PICTURE MODE displayed by changing. The indication of the ACTIVE IRIS displayed by changing. The indication of the MY MEMORY displayed by changing. The indication of "FREEZE" and "II" while freezing the screen by pressing the **FREEZE** button. The indication of the TEMPLATE displayed by changing. The indication of the ECO MODE displayed by changing. ■INHIBIT : All message functions do not work. The only buttons will function are as below. STANDBY, ON
STANDBY OUTPUT	<u>AUDIO OUT</u> To select the sound output in the standby mode. • When the STANDBY MODE is set to NETWORK(WOL) or SAVING, the STANDBY OUTPUT menu cannot be operated. • When the MHL STANDBY PWR. (📖*45*) is set to OFF, MHL audio is unavailable in the standby mode.

AUDIO menu

From the AUDIO menu, items shown in the table below can be performed. Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or the **ENTER** button to execute the item. Then perform it according to the following table.
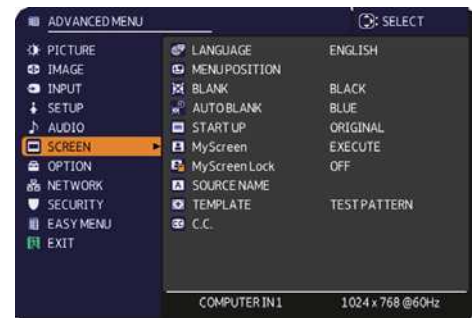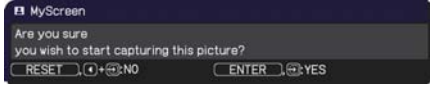
Item	Description
VOLUME	Using the ◄/► buttons adjusts the volume of the audio output. Low ⇔ High
SPEAKER	Using the ▲/▼ buttons turns on/off the built-in speaker. ON ⇔ OFF When OFF is selected, the built-in speaker does not work.

AUDIO SOURCE	While the image signal from the input port chosen in step (1) is projected, the audio signal from the input port selected in step (2) is output to both the **AUDIO OUT** port and built-in speaker of this projector. However, the built-in speaker does not work when SPEAKER is set to OFF.
	
	(1) Choose a picture input port using the ▲/▼ buttons.
	(2) Select an audio input port or the mute icon using the ◄/► buttons.
	  The icons indicate the following;
	
	  No.1: **AUDIO IN1** port No.2: **AUDIO IN2** port
	  No.3: **AUDIO IN3** port No.4: **HDMI 1** port
	  No.5: **HDMI 2 / MHL** port No.6: **LAN** port
	    ⚞ : mutes the sound
	
	• C.C. (Closed Caption) is automatically activated when ⚞ is selected and an input signal containing C.C. is received. This function is available only when the signal is NTSC for **VIDEO** or 480i@60 for **COMPUTER IN 1** or **COMPUTER IN 2,** and when AUTO is selected for DISPLAY in the C.C. menu under the SCREEN menu (*58*).
	• For the setting of AUDIO OUT, refer to AUDIO OUT of STANDBY OUTPUT in the SETUP menu.

SCREEN menu

From the SCREEN menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
LANGUAGE	Using the ▲/▼/◄/► buttons switches the OSD (On Screen Display) language. ENGLISH ⇔ FRANÇAIS ⇔ DEUTSCH ⇔ ESPAÑOL ⬑ ······ (shown in the LANGUAGE dialog) ······ ⬏ Press the **ENTER** or ⊖ button to save the language setting.
MENU POSITION	Using the ▲/▼/◄/► buttons adjusts the menu position. To quit the operation, press the **MENU** button on the remote control or keep no operation for about 10 seconds.
BLANK	Using the ▲/▼ buttons switches the mode for the blank screen. The blank screen is a screen for the temporarily blanking feature (📖*30*). It is displayed by pressing the **BLANK** button on the remote control. MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK ⬑————————————————————⬏ MyScreen : Screen can be registered by the MyScreen item (📖*55*). ORIGINAL : Screen preset as the standard screen. BLUE, WHITE, BLACK : Plain screens in each color. • To avoid remaining as an afterimage, the MyScreen or ORIGINAL screen will change to the AUTO BLANK screen after several minutes.

Item	Description

AUTO BLANK	Using the ▲/▼ buttons switches the mode for the AUTO BLANK screen.
	
	    BLUE ⇔ WHITE ⇔ BLACK
	    ⬑_____⬑
	
	• To avoid remaining as an afterimage, displayed image will change to the designated blank color screen by AUTO BLANK after several minutes at the following conditions.
	- When MyScreen or ORIGINAL is displayed as BLANK screen.
	- When start-up screen is displayed.

START UP	Using the ▲/▼ buttons switches the mode for the start-up screen. The start-up screen is a screen displayed when no signal or an unsuitable signal is detected.
	
	    MyScreen ⇔ ORIGINAL ⇔ OFF
	    ⬑_____⬑
	
	MyScreen : Screen can be registered by the MyScreen item (📖*55*).
	ORIGINAL : Screen preset as the standard screen.
	OFF : Plain black screen.
	• To avoid remaining as an afterimage, the START UP screen will change to the AUTO BLANK screen after several minutes.
	• When the ON is selected to the MyScreen PASSWORD item in the SECURITY menu (📖 *74*), the START UP is fixed to MyScreen.

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Item	Description

MyScreen	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 executing the following procedure.
	
	Selecting this item displays a dialog titled "MyScreen". It will ask you if you start capturing an image from the current screen. Please wait for the target image to be displayed, and press the **ENTER** or **INPUT** button to start registration.
	
	To restore the screen and return to the previous dialog, press the **RESET** button on the remote control. Registration may take several minutes. When the registration is completed, the registered screen and the following message is displayed for several seconds:
	
	   "MyScreen registration is finished."
	  If the registration failed, the following message is displayed:
	   "A capturing error has occurred. Please try again."
	
	• This function cannot be selected when the ON is selected to the MyScreen Lock item (📖*56*).
	• This function cannot be selected when the ON is selected to the MyScreen PASSWORD item in SECURITY menu (📖*74*).
	• This function is unavailable for a signal from the **LAN, USB TYPE A**, **HDMI1** or **HDMI2/MHL** port.

(continued on next page)

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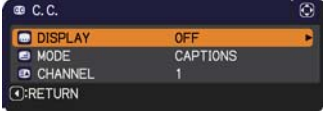
Item	Description
MyScreen Lock	Using the ▲/▼ buttons turns on/off the MyScreen lock function. ON ⇔ OFF When the ON is selected, the item MyScreen is locked. Use this function for protecting the current MyScreen. • This function cannot be selected when the ON is selected to the MyScreen PASSWORD item in SECURITY menu (&*74*).
SOURCE NAME	Each input port for this projector can have a name applied to it. (1) Use the ▲/▼ buttons on the SCREEN menu to select SOURCE NAME and press the ► or **ENTER** button. The SOURCE NAME menu will be displayed. (2) Use the ▲/▼ buttons on the SOURCE NAME menu to select the port to be named and press the ► button. The SOURCE NAME dialog will be displayed. Right side of the menu is blank until a name is specified. (3) Select an icon you would like to assign to the port in the SOURCE NAME dialog. The name assigned to the port will also be automatically switched according to your icon selection. Press the **ENTER** or ◄ button to determine your icon selection. (4) Select a number you would like to assign to the port along with the icon. You can select the number either from blank (no number assigned), 1, 2, 3, or 4. Then press the **ENTER** or ◄ button. (5) If you would like to modify the name assigned to the port, select CUSTOM NAME and press the **ENTER** or ◄ button.

(continued on next page)

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Item	Description
SOURCE NAME (**continued**)	(6) The current name will be displayed on the first line. Use the ▲/▼/◄/► buttons and the **ENTER** or ⊕ button to select and enter characters. To erase 1 character at one time, press the **RESET** button or press the ◄ and ⊕ button at the same time. Also if you move the cursor to DELETE or CLEAR ALL on screen and press the **ENTER** or ⊕ button, 1 character or all characters will be erased. The name can be a maximum of 16 characters. (7) 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 ⊕ button, the character is selected. Then, follow the same procedure as described at the item (6) above. (8) To finish entering text, move the cursor to the OK on screen and press the ►, **ENTER** or ⊕ button. To revert to the previous name without saving changes, move the cursor to the CANCEL on screen and press the ◄, **ENTER** or ⊕ button.
TEMPLATE	Using the ▲/▼ cursor buttons switches the mode for the template screen. Press the ► cursor (or the **ENTER**) button to display the selected template, and press the ◄ cursor button to close the displayed screen. The last selected template is displayed when the **MY BUTTON** allocated to the TEMPLATE function is pressed (📖*62*). TEST PATTERN ⇔ DOT-LINE1 ⇔ DOT-LINE2 ⇕ ⇕ DOT-LINE4 ⇔ DOT-LINE3

Item	Description
C.C. **(Closed Caption)**	The 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. It is required to have NTSC format video or 480i@60 format component video source supporting C.C. feature to utilize this function. It may not work properly, depending on equipment or signal source. In this case, please turn off the Closed Caption.
	DISPLAY Select Closed Caption DISPLAY setting from following options using ▲/▼ buttons. 　AUTO ⇔ ON ⇔ OFF AUTO : Closed Caption automatically appears when the input signal (C.C. compatible) from the port with the mute icon set at AUDIO SOURCE is selected. ON : Closed Caption is on. OFF : Closed Caption is off. • The caption is not displayed when the OSD menu is active. • The Closed Caption is the function to display the dialogue, narration, and / or sound effects of a television program or other video sources. The Closed Caption availability is depending upon broadcaster and/or content.
	MODE Select Closed Caption MODE setting from following options using ▲/▼ buttons. 　CAPTIONS ⇔ TEXT 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.
	CHANNEL Select Closed Caption CHANNEL from following options using ▲/▼ buttons. 　1 ⇔ 2 ⇔ 3 ⇔ 4 1: Channel 1, primary channel / language 2: Channel 2 3: Channel 3 4: Channel 4 The channel data may vary, depending on the content. Some channel might be used for secondary language or empty.

OPTION menu

From the OPTION menu, items shown in the table below can be performed.
Select an item using the ▲/▼ cursor buttons, and press the ► cursor button or **ENTER** button to execute the item. Then perform it according to the following table.

Item	Description
SEARCH SKIP	The ports can be set to be ignored in searching by the AUTO SEARCH function. (📖*below*) (1) Choose a picture input port using the ▲/▼ buttons. (2) Using the ◄/► buttons turns on/off the SEARCH SKIP function. NORMAL ⇔ SKIP The port that is set to SKIP will be ignored. • It is not possible to set SKIP to all ports at the same time.
AUTO SEARCH	Using the ▲/▼ buttons turns on/off the automatic signal search function. ON ⇔ OFF 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. LAN ⇨ USB TYPE A ⇨ COMPUTER IN1 ⇧ ⇩ VIDEO ⇐ HDMI 2 / MHL ⇐ HDMI 1 ⇐ COMPUTER IN2

(continued on next page)

Item	Description
DIRECT POWER ON	Using the ▲/▼ buttons turns on/off the DIRECT POWER ON function. ON ⇔ OFF When set to the ON, the lamp in projector will be automatically turned on without the usual procedure (📖*20*), only when the projector is supplied with the power after the power was cut while the lamp was on. • This function does not work as long as the power has been supplied to the projector while the lamp is off. • After turning the lamp on by the DIRECT POWER ON function, if neither input nor operation is detected for about 30 minutes, the projector is turned off, even though the AUTO POWER OFF function (📖*below*) is disabled.
AUTO POWER ON	When the projector is in the standby mode and detects the video signal input from external device, this function starts up the projector to display the image automatically on the screen.This function can be enabled by selecting an input referring to the displayed list. • This function is unavailable when STANDBY MODE is set to NETWORK(WOL) or SAVING. • This function may work unintentionally by connected external device.
AUTO POWER OFF	Using the ▲/▼ buttons adjusts the time to count down to automatically turn the projector off. Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE) 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 unsuitable signal reaches at the set time, the projector lamp will be turned off. 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 **CONTROL** port during the corresponding time, projector will not be turned off. Please refer to the section **Turning off the power** (📖*21*).

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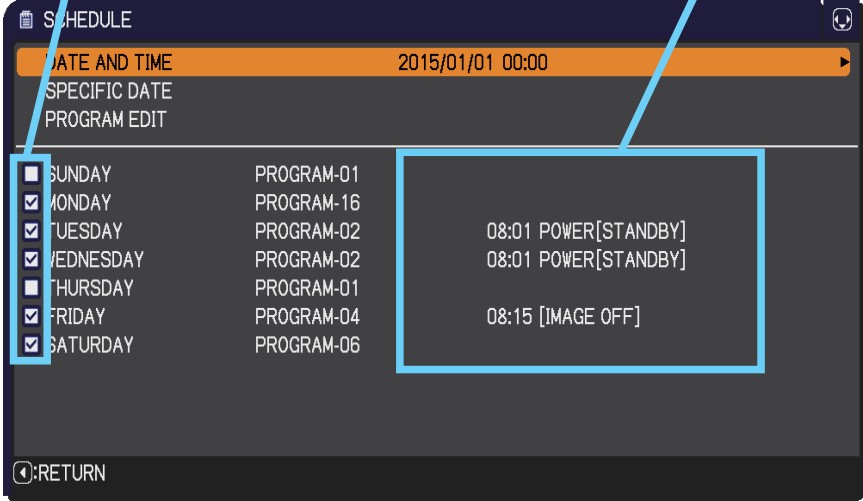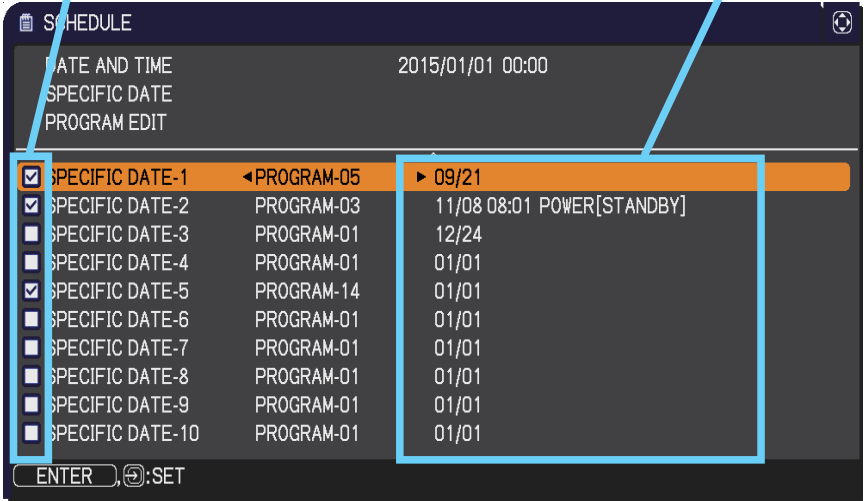| Item	Description
MY BUTTON	This item is to assign one of the following functions to **MY BUTTON 1/2** on the remote control (📖*6*). (1) Use the ▲/▼ buttons on the MY BUTTON menu to select a MY BUTTON - (1/2). (2) Then using the ◄/► buttons sets one of the following functions to the chosen button. • COMPUTER IN1: Selects the input from **COMPUTER IN1** port. • COMPUTER IN2: Selects the input from **COMPUTER IN2** port. • LAN: Selects input from **LAN** port. • USB TYPE A: Selects input from **USB TYPE A** port. • HDMI1: Selects input from **HDMI1** port. • HDMI2/MHL: Selects input from **HDMI2/MHL** port. • VIDEO: Selects the input from **VIDEO** port. • SLIDESHOW: Selects the input from **USB TYPE A,** and starts a Slideshow. • MY IMAGE: Displays the MY IMAGE menu. • MESSENGER: Turns the messenger text displayed on the screen on/off (**Messenger Function** in the **Network Guide**). When there is no transferred text data to display, the message "NO MESSENGER DATA" appears. • INFORMATION: Displays SYSTEM_INFORMATION, INPUT_INFORMATION (📖*71*), WIRELESS INFORMATION, WIRED INFORMATION or nothing. • AUTO KEYSTONE : Performs automatic keystone distortion correction (📖*27*). • MY MEMORY: Loads one of adjustment data stored (📖*39*). When more than one data are saved, the adjustment changes every time the **MY BUTTON** is pressed. When no data is saved in memory, the dialog "No saved data" appears. When the current adjustment is not saved to memory, the dialog as shown in the right appears. ⇨ No saved data Temporary condition MY BUTTON (MY MEMORY) ;Recall saved parameters ► ;Exit If you want to keep the current adjustment, please press the ► button to exit. Otherwise loading a data will overwrite the current adjusted condition. (continued on next page)

Item	Description
MY BUTTON (**Continued**)	• ACTIVE IRIS: Changes the active iris mode. • PICTURE MODE: Changes the PICTURE MODE (📖*34*). • FILTER RESET: Displays the filter time reset confirmation dialogue (📖*48*). • TEMPLATE: Makes the template pattern selected to the TEMPLATE item (📖*57*) appear or disappear. • AV MUTE: Turns the picture and audio on/off. • RESOLUTION: Turns on/off the RESOLUTION dialog (📖*44*). • ECO MODE: Changes the ECO MODE (📖*47*). • HDCR:Turns on/off the HDCR dialog (📖*39*). • ACCENTUALIZER:Turn on/off the ACCENTUALIZER dialog (📖*39*). • MY BUTTON:Turn on/off the MY BUTTON dialog (📖*61*).

Item	Description
SCHEDULE	■ **How to setup the item** 1. Use the ▲/▼/◄/► cursor buttons to select or adjust. 2 Select OK to finish the settings. NOTE •Please refer to the actual on-screen display(OSD) for appropriate operation. <table><tr><th>Item</th><th>Description</th></tr><tr><td>DATE AND TIME</td><td>Inputs the current date (year/month/day) and the time (24-hour clock) to set a reference time in the projector.</td></tr><tr><td>SPECIFIC DATE</td><td>Specifies the date (month/day) if you execute only one specific day. You can set 10 different schedules from SPECIFIC DATE-1 to SPECIFIC DATE-10.</td></tr><tr><td>PROGRAM EDIT</td><td>Sets what event to execute at what time of the day. One program can be set in one day, and up to 16 programs can be set. Up to 20 events can be set in one program.</td></tr></table> ■ Setting procedure ① Determine the current date/time as reference in DATE AND TIME. ② Make a schedule of what event to execute at what time of the day in PROGRAM EDIT. ③ Select the date (one specific day: SPECIFIC DATE or the days of the week: every week) to be scheduled, then select a program. Switch the screen of the days of the week and SPECIFIC DATE by vertical scroll. (Page 1 of 2: Days of the week, Page 2 of 2: SPECIFIC DATE)

Item	Description
SCHEDULE (**Continued**)	**■ How to activate (DATE AND TIME / SPECIFIC DATE)** Place a check mark in the box. Check mark in the box Date and first setup info could be seen with the check mark. 1/2 page (Set the DATE(Year/Month/Date) and Time(24-hour scale).) Check mark in the box Date and first setup info could be seen with the check mark. 2/2 page (Set specific date from 1 to 10.) Press the ▼ cursor button to move from 1/2 page to 2/2 page with the state of selecting "SATURDAY".

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Item	Description
SCHEDULE (**Continued**)	■ **PROGRAM EDIT** The TIME and EVENT for Program 1 to 16 can be editted. • **RETURN** Select this to go back to the top menu of the SCHEDULE. • **SELECT** Select from PROGRAM-01 to 16 to edit. Up to 20 events can be set in each program. • **COPY TO** The selected program (with the settings of TIME and EVENT) can be copied to other program. • **APPLY** Select this to apply and save all adjustments and settings.

(continued on next page)

Item	Description

SCHEDULE (continued)	■ **How to edit the selected PROGRAM**
	
	1. Select from 1 to 20 events.
	   Use the ▲/▼ cursor buttons to select.
	   Press ► cursor button to set the TIME and EVENT.
	
	2. Use the ◄/► cursor buttons to select.
	
	3. Use the ▲/▼ cursor buttons to adjust.
	
	EVENT can be selected as listed below.
	  ◦ POWER − ON, STANDBY
	  ◦ INPUT SOURCE − "input source" channel
	  ◦ MY IMAGE − IMAGE-1 to 4, IMAGE OFF
	  ◦ MESSENGER − TEXT-1 to 12, TEXT OFF
	  ◦ ECO MODE − NORMAL, ECO
	  ◦ BLANK − ON, OFF
	  ◦ SLIDESHOW - START, STOP
	
	4. Press ► cursor button to finish the settings.
	
	5. Select APPLY to save the settings.
	
	NOTE • Please refer to the actual on-screen display(OSD) for appropriate operation.
	• When the STANDBY MODE is set to NETWORK(WOL) or SAVING, SCHEDULE function (Ex:POWER-ON) in the standby mode will not be operated.

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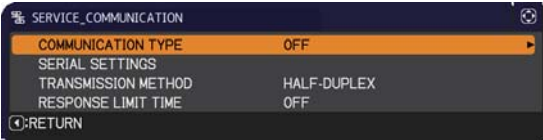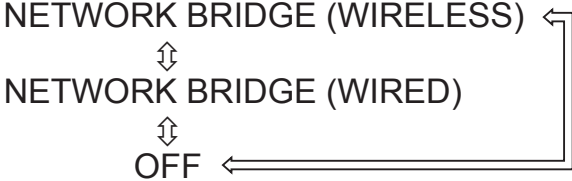
Item	Description
SERVICE	Selecting this item displays the SERVICE menu. Select an item using the ▲/▼ buttons, and press the ► button or the **ENTER** button on the remote control to execute the item.
	ALTITUDE Using the ▲/▼ buttons switches the rotation speed of the cooling fans. If the projector is used at an altitude of about 1600 m or higher, select HIGH. Otherwise, select NORMAL. Note that the projector is noisier when the HIGH is selected. 　HIGH ⇔ NORMAL
	AUTO ADJUST Using the ▲/▼ buttons to select one of the mode. When the DISABLE is selected, the automatic adjustment feature is disabled. 　FINE ⇔ FAST ⇔ DISABLE FINE: Finer tuning including H.SIZE adjustment. FAST: Faster tuning, setting H.SIZE to prearranged data for the input signal. • 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 such a case, please choose DISABLE to disable the automatic adjustment, and make adjustment manually.
	GHOST Adjust the settings using the ▲/▼ buttons to eliminate ghosting.

(continued on next page)

Item	Description

SERVICE
(continued)
	KEY LOCK
	(1) Use the ▲/▼ buttons to choose the operations control.
	    CONTROL PANEL ⇔ REMOTE CONTROL
	
	(2) Use the ◄/► buttons to select ON or OFF.
	    ON ⇔ OFF
	
	Selecting ON in Step 2 locks the buttons except **STANDBY/ON** on the operations control selected in Step 1.
	 Selecting OFF releases the locked buttons on the operations control selected in Step 1.
	• Please use this function to prevent tampering or accidental operation.
	• It's not possible to disable both options at the same time.

	REMOTE FREQ.
	(1) Use the ▲/▼ button to change the projector's remote sensor frequency setting (📖*4, 18*).
	    1:NORMAL ⇔ 2:HIGH
	(2) Use the ◄/► button to change the projector's remote sensor on or off.
	    ON ⇔ OFF
	
	If the remote control does not function correctly, disable either of them.
	• It's not possible to disable both options at the same time.
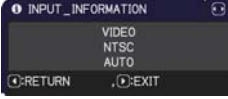
Item		Description
SERVICE (continued)	**COMMUNICATION**	Selecting this item displays COMMUNICATION menu. In this menu, you can configure the serial communication settings of the projector using the **CONTROL** port. ![SERVICE_COMMUNICATION menu showing COMMUNICATION TYPE OFF, SERIAL SETTINGS, TRANSMISSION METHOD HALF-DUPLEX, RESPONSE LIMIT TIME OFF] • 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. • When COMMUNICATION TYPE (*below*) is set to OFF, the other items in COMMUNICATION menu are invalid. • For the function of serial communication, refer to the **Network Guide**.
		COMMUNICATION TYPE Select the communication type for transmission via the **CONTROL** port. NETWORK BRIDGE (WIRELESS) ⇐ ⇕ NETWORK BRIDGE (WIRED) ⇕ OFF ⇐ NETWORK BRIDGE: Select this type, if it is required to control an external device as a network terminal, via this projector from the computer. Select WIRELESS or WIRED as your network connection mode. The **CONTROL** port does not accept RS-232C commands (**7. Network Bridge Function** in the **Network Guide**). OFF: Select this mode to receive RS-232C commands using the **CONTROL** port. • OFF is selected as the default setting. • When you select the NETWORK BRIDGE, check the item, TRANSMISSION METHOD (*70*).

(continued on next page)

Item	Description	
SERVICE **(continued)**	**COMMUNICATION** **(continued)**	**SERIAL SETTINGS** Select the serial communication condition for the **CONTROL** port. Select settings of BAUD RATE and PARITY depending on your environment.
		TRANSMISSION METHOD Select the transmission method for communication by the NETWORK BRIDGE from the **CONTROL** port. HALF-DUPLEX ⇔ FULL-DUPLEX HALF-DUPLEX: This method lets the projector make two way communication, but only one direction, either transmitting or receiving data, is allowed at a time. FULL-DUPLEX: This method lets the projector make two way communication, transmitting and receiving data at the same time. • HALF-DUPLEX is selected as the default setting. • If you select HALF-DUPLEX, check the setting of the item RESPONSE LIMIT TIME (*below*).
		RESPONSE LIMIT TIME Select the time period to wait for receiving response data from other device communicating by the NETWORK BRIDGE and the HALF-DUPLEX through the **CONTROL** 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 **CONTROL** port. • 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 (*above*). • OFF is selected as the default setting.

Item	Description
SERVICE (continued)	**INFORMATION** Selecting this item displays a dialog titled "INPUT_INFORMATION". It shows the information about the current input. • The "FRAME LOCK" message on the dialog means the frame lock function is working. • This item cannot be selected for no signal and sync out. • When the MY TEXT DISPLAY is set to ON, the MY TEXT is displayed together with the input information in the INPUT_INFORMATION box (📖*78*).
	FACTORY RESET 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, AUTO BLANK, FILTER MESSAGE, STANDBY MODE, COMMUNICATION, NETWORK and SECURITY settings are not reset. CANCEL ⇨ OK Be sure to set ALTITUDE after resetting all the settings (📖*67*).

NETWORK menu

See the **Network Guide** for details of NETWORK operation.
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.

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 to the SECURITY menu

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

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

  • 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.
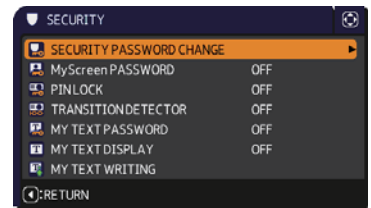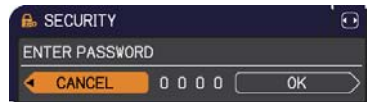
If you have forgotten your password

 (1) While the ENTER PASSWORD box is displayed, press and hold the **RESET** button on the remote control for about 3 seconds or press and hold the **INPUT** button for 3 seconds while pressing the ► button on the projector.
 (2) 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.
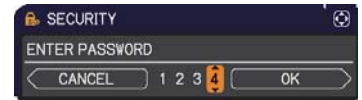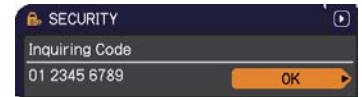
 • If there is no key input for about 55 seconds while the Inquiring Code is displayed, the menu will close. If necessary, repeat the process from (1).
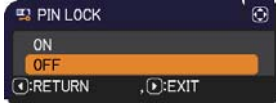
Item	Description
SECURITY PASSWORD CHANGE	(1) Use the ▲/▼ buttons on the SECURITY menu to select SECURITY PASSWORD CHANGE and press the ► button to display the ENTER NEW PASSWORD box. (2) Use the ▲/▼/◄/► buttons to enter the new password. (3) Move the cursor to the right side of the ENTER NEW PASSWORD box and press the ► button to display the NEW PASSWORD AGAIN box, enter the same password again. (4) Move the cursor to the right side of the NEW PASSWORD AGAIN box and press the ► button and the NOTE NEW PASSWORD box will be displayed for about 30 seconds, please make note of the password during this time. Pressing the **ENTER** button on the remote control or ► button on the projector will close the NOTE NEW PASSWORD box. • Please do not forget your password.
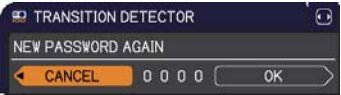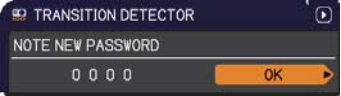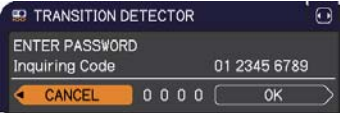
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Item	Description
MyScreen PASSWORD	The MyScreen PASSWORD function can be used to prohibit access to the MyScreen function and prevent the currently registered MyScreen image from being overwritten.

1 Turning on the MyScreen PASSWORD

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.

1-2 Use the ▲/▼ buttons on the MyScreen PASSWORD on/off menu to select ON. The ENTER NEW PASSWORD box (small) will be displayed.

ENTER NEW PASSWORD box (small)

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.

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 30 seconds, please make note of the password during this time.

 Pressing the **ENTER** button on the remote control or ► button on the projector will return to MyScreen PASSWORD on/off menu.

When a password is set for MyScreen:

• The MyScreen registration function (and menu) will be unavailable.

• The MyScreen Lock menu will be unavailable.

• The START UP setting will be locked on MyScreen (and the menu will be unavailable).

Turning the MyScreen PASSWORD off will allow normal operation of these functions.

• Please do not forget your MyScreen PASSWORD.

2 Turning off the MyScreen PASSWORD

2-1 Follow the procedure in 1-1 to display the MyScreen PASSWORD on/off menu.

2-2 Select OFF to display the ENTER PASSWORD box (large). Enter the registered password and the screen will return to the MyScreen PASSWORD on/off menu.

ENTER PASSWORD box (large)

If an incorrect PASSWORD is input, the menu will close. If necessary, repeat the process from 2-1.

3 If you have forgotten your password

3-1 Follow the procedure in 1-1 to display the MyScreen PASSWORD on/off menu.

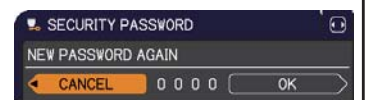3-2 Select OFF to display the ENTER PASSWORD box (large). The 10 digit Inquiring Code will be displayed inside the box.

3-3 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.
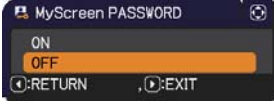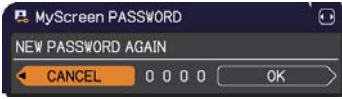
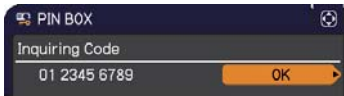| Item	Description
PIN LOCK	PIN LOCK is a function which prevents the projector from being used unless a registered Code is input. **1 Turning on the PIN LOCK** 1-1 Use the ▲/▼ buttons on the SECURITY menu to select PIN LOCK and press the ► button or the **ENTER** button to display the PIN LOCK on/off menu. 1-2 Use the ▲/▼ buttons on the PIN LOCK on/off menu to select ON and the Enter PIN Code box will be displayed. 1-3 Input a 4 part PIN code using the ▲/▼/◄/► or **INPUT** button. The PIN Code again box will appear. Reenter the same PIN code. This will complete the PIN code registration. • 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. Afterwards, anytime the projector is restarted after AC power 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. 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 AC power is turned off. • Please do not forget your PIN code. **2 Turning off the PIN LOCK** 2-1 Follow the procedure in 1-1 to display the PIN LOCK on/off menu. 2-2 Use the ▲/▼ buttons to select OFF and the Enter PIN Code box will be displayed. Enter the registered PIN code to turn the PIN LOCK function off. If an incorrect PIN code is input 3 times, the projector will turn off. **3 If you have forgotten your PIN code** 3-1 While the Enter PIN code box is displayed, press and hold the **RESET** button for three seconds or press and hold the **INPUT** button for 3 seconds while pressing the ► button on the projector. The 10 digit Inquiring Code will be displayed. • If there is no key input for about 5 minutes while the Inquiring Code is displayed, the projector will turn off. 3-2 Contact your dealer with the 10 digit Inquiring Code. Your PIN code will be sent after your user registration information is confirmed.

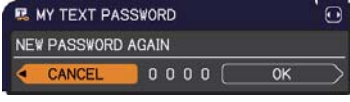| Item	Description
TRANSITION DETECTOR	If this function is set to ON and the vertical angle of the projector or the INSTALLATION setting is different from the previous recorded setting, the TRANSITION DETECTOR ON alarm will be displayed and the input signal will not be displayed. • To display the signal again, set this function OFF. • After about 5 minutes of displaying the TRANSITION DETECTOR ON alarm, the lamp will turn off. **1 Turning on the TRANSITION DETECTOR** 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. 1-2 Use the ▲/▼ buttons on the TRANSITION DETECTOR on/off menu to select ON. Selecting ON will save the setting of the current angle and the INSTALLATION setting. The ENTER NEW PASSWORD box (small) will be displayed. 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. 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 30 seconds, please make note of the password during this time. Pressing the **ENTER** button on the remote control or the ► button on the projector will return to the TRANSITION DETECTOR on/off menu. • Please do not forget your TRANSITION DETECTOR password. • This function will activate only when the projector is started after turning off the AC power. • This feature may not function properly if the projector is not in a stable position when ON is selected. **2 Turning off the TRANSITION DETECTOR** 2-1 Follow the procedure in 1-1 to display the TRANSITION DETECTOR on/off menu. 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. If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1. **3 If you have forgotten your password** 3-1 Follow the procedure in 1-1 to display the TRANSITION DETECTOR on/off menu. 3-2 Select OFF to display the ENTER PASSWORD box (large). The 10 digit Inquiring Code will be displayed inside the box. 3-3 Contact your dealer with the 10 digit Inquiring Code. Your password will be sent after your user registration information is confirmed.

ENTER NEW PASSWORD box (small)

ENTER PASSWORD box (large)

(continued on next page)

| Item	Description
MY TEXT PASSWORD	The MY TEXT PASSWORD function can prevent the MY TEXT from being overwritten. When the password is set for the MY TEXT; • The MY TEXT DISPLAY menu will be unavailable, which can prohibit changing the DISPLAY setting. • The MY TEXT WRITING menu will be unavailable, which can prevent the MY TEXT from being overwritten. **1 Turning on the MY TEXT PASSWORD** 1-1 Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT PASSWORD and press the ► button to display the MY TEXT PASSWORD on/off menu. 1-2 Use the ▲/▼ buttons on the MY TEXT PASSWORD on/off menu to select ON. The ENTER NEW PASSWORD box (small) will be displayed. 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. 1-4 Move the cursor to the right side of the NEW PASSWORD AGAIN box and press ► button to display the NOTE NEW PASSWORD box for about 30 seconds, then please make note of the password during this time. Pressing the **ENTER** button on the remote control or ► button on the projector will return to the MY TEXT PASSWORD on/off menu. **2 Turning off the MY TEXT PASSWORD** 2-1 Follow the procedure in 1-1 to display the MY TEXT PASSWORD on/off menu. 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. If an incorrect password is input, the menu will close. If necessary, repeat the process from 2-1 **3 If you have forgotten your password** 3-1 Follow the procedure in 1-1 to display the MY TEXT PASSWORD on/off menu. 3-2 Select OFF to display the ENTER PASSWORD box (large). The 10 digit inquiring code will be displayed inside the box. 3-3 Contact your dealer with the 10 digit inquiring code. Your password will be sent after your user registration information is confirmed.

ENTER NEW PASSWORD box (small)

ENTER PASSWORD box (large)

(continued on next page)

Item	Description
MY TEXT DISPLAY	(1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT DISPLAY and press the ► or **ENTER** button to display the MY TEXT DISPLAY on/off menu. (2) 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. • This function is available only when the MY TEXT PASSWORD function is set to the OFF.
MY TEXT WRITING	(1) Use the ▲/▼ buttons on the SECURITY menu to select the MY TEXT WRITING and press the ► button. The MY TEXT WRITING dialog will be displayed. (2) 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 **ENTER** or ⏎ button to select and enter characters. To erase 1 character at one time, press the **RESET** button or press the ◄ and ⏎ button at the same time. Also if you move the cursor to DELETE or CLEAR ALL on screen and press the **ENTER** or ⏎ button, 1 character or all characters will be erased. The MY TEXT can be input up to 26 characters on each line. (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 **ENTER** or ⏎ button, the character is selected. Then, follow the same procedure as described at the item (2) above. (4) To finish entering text, move the cursor to the OK on screen and press the ►, **ENTER** or ⏎ button. To revert to the previous MY TEXT without saving changes, move the cursor to the CANCEL on screen and press the ◄, **ENTER** or ⏎ button. • The MY TEXT WRITING function is available only when the MY TEXT PASSWORD function is set to OFF.

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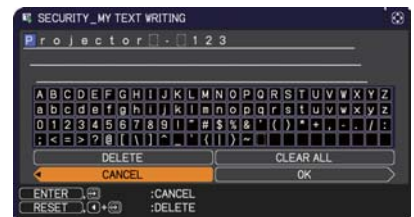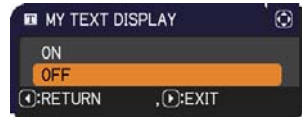
Presentation tools

The projector has the following convenient tools that enable on-screen presentations easily and quickly:
- PC-LESS Presentation (📖*below*)
- Drawing function
   Drawing function enables you to draw on the projector's screen with USB mouse or tablets connected to the **USB TYPE A** ports. For details, refer to the manual for peripheral equipment.

PC-LESS Presentation

The PC-LESS Presentation reads image and audio data from the storage media inserted into the **USB TYPE A** port and displays the image in the following modes. The PC-LESS Presentation can be started by selecting the **USB TYPE A** port as the input source.
This feature allows you to make your presentations without using your computer.

- Thumbnail mode (📖*80*)
- Full Screen mode (📖*84*)
- Slideshow mode (📖*85*)

[Supported storage media]

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

NOTE • USB readers (adapters) that have more than one USB slot may not work (if the adapter is acknowledged as multiple devices connected).
• USB devices with security software may not work.
• Be careful when inserting or removing a USB device. (📖*12, 82*)

[Supported format]

• FAT12, FAT16 and FAT32

NOTE • NTFS is not supported.

PC-LESS Presentation (continued)

[Supported file format and its extension]

- JPEG (.jpeg, .jpg)
- Bitmap (.bmp)   * 16bit mode and compressed bitmap is not supported.
- PNG (.png)   * Interlace PNG is not supported.
- GIF (.gif)

NOTE • Files with a resolution larger than the following are not supported.
  CP-EU4501WN: 1920 x 1200 (Still)
  (* Some computers may not support 1280 x 800.)
• Files with a resolution smaller than 36 x 36 are not supported.
• Files with a resolution smaller than 100 x 100 may not be displayed.
• Some supported files may not be displayed.
• Only a frame appears when the content of image data cannot be displayed in the Thumbnail mode.
• Even with the file format combinations described above, playback of some files may fail.

Thumbnail mode

The Thumbnail mode displays the images stored in a USB storage device on the Thumbnail screen. Maximum 20 images are displayed in a screen.
If you wish, you can jump into the Full Screen mode or Slideshow mode, after you select some images in the Thumbnail mode.
The Thumbnail mode will be started as the primary function of the PC-LESS Presentation after selecting the **USB TYPE A** port as the input source.

Selected image

Thumbnail images

Thumbnail menu

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PC-LESS Presentation (continued)

Operating by buttons or keys

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

Button operation			Functions
The remote control	Control panel	Web Remote Control	
▲/▼/◄/►	▲/▼/◄/►	[▲]/[▼]/[◄]/[►]	Move cursor
PAGE UP **PAGE DOWN**	-	[**PAGE UP**] [**PAGE DOWN**]	Switches pages
ENTER	**INPUT**	[**ENTER**]	• Displays the selected image on the Full Screen mode when a cursor is on a thumbnail image. • Displays the SETUP menu (📖*below*) for the selected image when a cursor is on a thumbnail image number.

The SETUP menu for the selected image

Item		Functions
SETUP		Use the ◄/► cursor buttons to switch each setting or use the ► cursor button to execute the functions as follows.
	RETURN	Press the ► cursor button or **ENTER** to return to the Thumbnail screen.
	START	Switch to ON to set the selected image as the first image in the Slideshow. This setting information will be saved in the "playlist.txt" file (📖*87*).
	STOP	Switch to ON to set the selected image as the last image in the Slideshow. This setting information will be saved in the "playlist.txt" file (📖*87*).
	SKIP	Switch to ON to skip the selected image in the Slideshow. This setting information will be saved in the "playlist.txt" file (📖*87*).
	DELETE	Press the ► cursor or **ENTER** button to delete selected image. After executing delete, renew the image number displayed Thumbnail menu. If first or end image in the Slideshow is deleted, renew the setting of start/stop.

PC-LESS Presentation (continued)

Operating by the menu on the Thumbnail screen

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

Item		Functions
⬆🗀		Moves to an upper folder.
SORT		Allows you to sort files and folders as following.
	RETURN	Press the ► cursor button or **ENTER** to return to the Thumbnail screen.
	NAME UP	Sorts in ascending order by file name.
	NAME DOWN	Sorts in descending order by file name.
	DATE UP	Sorts in ascending order by file date.
	DATE DOWN	Sorts in descending order.by file date.
▲/▼		Go to previous / next page.
SLIDESHOW		Configures and starts the Slideshow (📖*85*).
	RETURN	Press the ► cursor button or **ENTER** to return to the Thumbnail screen.
	PLAY	Press the ► cursor button or **ENTER** to start the Slideshow.
	START	Sets the beginning number of the Slideshow.
	STOP	Sets the end number of the Slideshow.
	INTERVAL	Sets the interval time for displaying still images during the Slideshow.
	PLAY MODE	Selects the Slideshow mode.
INPUT		Switches the input port.
MENU		Displays the menu.
REMOVE USB		Be sure to use this function before removing USB storage device from the projector. After that, the projector will not recognize a USB storage device until you insert it again into the **USB TYPE A** input port.

PC-LESS Presentation (continued)

NOTE • These operations are not accessible while the projector OSD is displayed.
• The Thumbnail mode is able to display up to 20 files in one page.
• It is not possible to change the input port by using the **INPUT** button when the Thumbnail screen, Slideshow, or Full Screen is displayed.
• Some error icons will be displayed in the Thumbnail.

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

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

PC-LESS Presentation (continued)

Full Screen Mode

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

> Full screen display

Operations for still images

The following operations are enabled in the Full Screen mode while a still image is displayed.

Button operation			Functions
The remote control	Control panel	Web Remote Control	
▼ ► or **PAGE DOWN**	▼ or ►	[▼] [►] or [**PAGE DOWN**]	Shows the next file.
▲ ◄ or **PAGE UP**	▲ or ◄	[▲] [◄] or [**PAGE UP**]	Shows the previous file.
ENTER	**INPUT**	[**ENTER**]	Displays Thumbnail.

PC-LESS Presentation (continued)

Slideshow mode

The Slideshow mode displays images in full screen and switches the images at intervals set in INTERVAL on the Thumbnail screen menu (📖*82*).
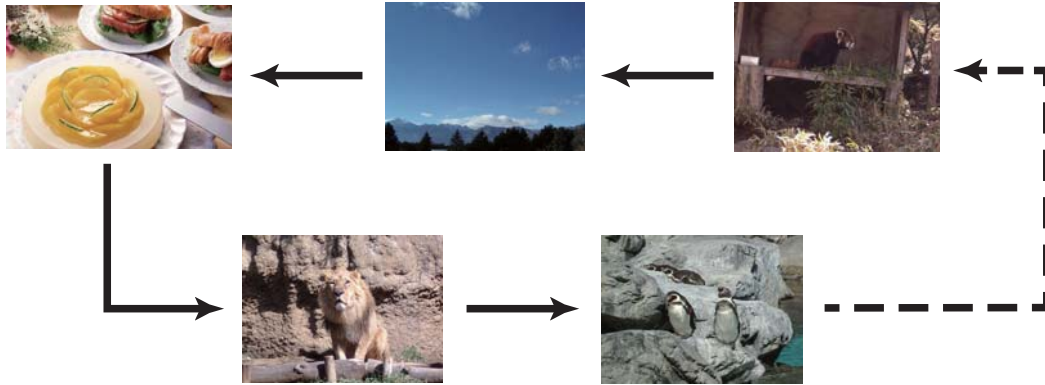
You can start this function from the Slideshow menu. To display the Slideshow menu, select the SLIDESHOW button in the Thumbnail mode and press the **ENTER** button on the remote control, **INPUT** button on the control panel, or click **[ENTER]** on the Web Remote Control.

While the Slideshow is displayed, the following button operations are enabled when still images are displayed, and the same button operations in the Full Screen mode are enabled when movies are displayed.

Button operation			Functions
The remote control	Control panel	Web Remote Control	
ENTER	**INPUT**	[**ENTER**]	Displays thumbnail

NOTE • These operations are not accessible while the projector OSD is displayed.
• It is not possible to change the input port by using the **INPUT** button when the Thumbnail screen, Slideshow, or Full Screen is displayed.
• When the Slideshow mode is set to ONE TIME and the last file is a still image, the last slide of the presentation will remain displayed until the **ENTER** button on the remote control or Web Remote Control, or the **INPUT** button on the control panel is pressed.

PC-LESS Presentation (continued)

You can play the Slideshow at your desired configuration.
Configure the Slideshow items in the Thumbnail.

SLIDESHOW	⟨⟩: SELECT
RETURN	EXECUTE
PLAY	EXECUTE
START	#1
STOP	#10
INTERVAL	5s
PLAY MODE	ONE TIME

1) RETURN   : Returns to the thumbnail mode.
2) PLAY   : Play the Slideshow.
3) START   : Set the beginning number of the
                   Slideshow.
4) STOP   : Set the end number of the Slideshow.
5) INTERVAL   : Sets the interval time for displaying still
                   images during the Slideshow.
                   It is not recommend to set the interval
                   time very short something like several
                   seconds, because it may take more than
                   several seconds to read and display an
                   image file if it is stored in very deep layer
                   directory or if so many files are stored in
                   the same directory.
6) PLAY MODE : Select the Slideshow mode.
                   ONE TIME : Play the Slideshow one time.
                   ENDLESS : Play the Slideshow endless.
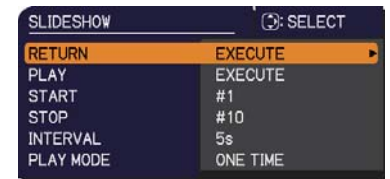
NOTE • The settings of the Slideshow are saved to the **"playlist.txt"** file
that is stored in the storage media. If the file is not existed, it is generated
automatically.
• The settings for the START, STOP, INTERVAL, and PLAY MODE are saved to
the Playlist.
• If the storage media is under the write protection or the **"playlist.txt"** is the
read only type file, it is impossible to change the settings of the Slideshow.

PC-LESS Presentation (continued)

Playlist

The Playlist is a DOS format text file, which decides the order of displayed still image files in the Thumbnail or Slideshow.
The playlist file name is "playlist.txt" and it can be edited on a computer.
It is created in the folder that contains the selected image files when the PC-LESS Presentation is started or the Slideshow is configured.

[Example of "playlist.txt" files]
START setting : STOP setting : INTERVAL setting : PLAY MODE setting :
img001.jpg: : : :
img002.jpg:600: : :
img003.jpg:700:rot1: :
img004.jpg: : :SKIP:
img005.jpg:1000:rot2:SKIP:

The "playlist.txt" file contains the following information.
Each piece of information requires to be separated by ":", and ":" at the end of each line.
1st line: START, STOP, INTERVAL and PLAY MODE settings (📖*86*).
2nd line and after: file name, interval time, rotation setting and skip setting.

> interval time: It can be set from 0 to 999900 (ms) with an increment of 100 (ms).
> rotation setting: "rot1" means a rotation at 90 degrees clockwise; "rot2" and "rot3" increase another 90 degrees in order.
> skip setting: "SKIP" means that the image will not be displayed in the Slideshow.

> **NOTE** • The maximum length in a line on the "playlist.txt" file is 255 characters including linefeed. If any line exceeds the limit, the "playlist.txt" file becomes invalid.
> • Up to 999 files can be registered to the Playlist. However, if some folders exist in the same directory the limit number is decreased by the number of folders.
> Any files over the limit will not be shown in the Slideshow.
> • If the storage device is protected or does not have sufficient space, the "playlist.txt" file cannot be created.
> • For the Slideshow settings, refer to the section **Slideshow mode** (📖*85*).

Maintenance

Replacing the lamp

A lamp has finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. Preparation of a new lamp and early replacement are recommended. To prepare a new lamp, make contact with your dealer and tell the lamp type number.

Type number : DT02061

Replacing the lamp

Lamp cover **3**

1. Turn the projector off, and unplug the power cord. Allow the projector to cool for at least 45 minutes.

2. Prepare a new lamp. If the projector is mounted on a ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.
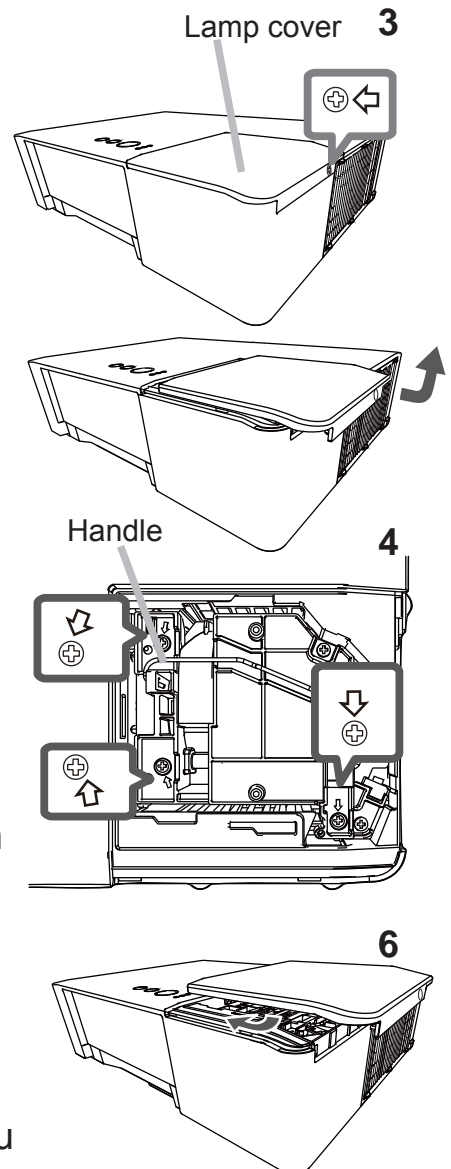
In case of replacement by yourself, follow the following procedure.

3. Loosen the screw (marked by arrow) of the lamp cover and then slide and lift the lamp cover to the side to remove it.

4. Loosen the 3 screws (marked by arrow) of the lamp, and slowly pick up the lamp by the handle. <u>Never loosen any other screws.</u>

Handle **4**

5. Insert the new lamp, and retighten firmly the 3 screws of the lamp that are loosened in the previous process to lock it in place.

6. While putting the interlocking parts of the lamp cover and the projector together, slide the lamp cover back in place. Then firmly fasten the screw of the lamp cover.

7. Turn the projector on and reset the lamp time using the LAMP TIME item in the SETUP menu.

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  (1) Press the **MENU** button to display a menu.
  (2) Point at the ADVANCED MENU in the menu using the ▼/▲ button, then press the ► button.
  (3) Point at the SETUP in the left column of the menu using the ▼/▲ button, then press the ► button.

  (4) Point at the LAMP & FILTER using the ▼/▲ button, then press the ► button.
  (5) Point at the LAMP TIME using the ▼/▲ button, then press the ► button. A dialog will appear.
  (6) Press the ► button to select "OK" on the dialog. It performs resetting the lamp time.

⚠**CAUTION** ►Do not touch any inner space of the projector, while the lamp is taken out.

NOTE • Please reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp.

Replacing the lamp (continued)

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, if the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury and dust containing fine particles of glass to escape from the projector's vent holes.

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

• For lamp recycling, go to www.lamprecycle.org (in the US).

• For product disposal, consult your local government agency
 or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.

Disconnect the plug from the power outlet	• If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself. • If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to inhale the gas or fine particles that come out from the projector's vent holes, and not to get them into your eyes or mouth. • Before replacing the lamp, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as 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. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
❗	• Use only the lamp of the specified type. Use of a lamp that does not meet the lamp specifications for this model could cause a fire, damage or shorten the life of this product. • If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, consult your local dealer or 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 dark, 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.

Cleaning and replacing the air filter

Please check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, comply with it as soon as possible.
In addition, the extra air filter is attached to inner side of the filter cover. If one of the filters is damaged or heavily soiled, replace whole filter set with a new one.
Request for a filter set with the following type number from your dealer when purchasing a new one.

  Type number : UX41161

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.

2. Use a vacuum cleaner on and around the filter cover.

3. Pick and pull up the filter cover knobs to take it off.

4. Press up slightly the bottom side knobs to unlock the bottom side of the filter unit. Pull the center knob to take the filter unit off.

5. Use a vacuum cleaner for the filter vent of the projector and the outer side of the filter unit.

6. Use a vacuum cleaner for the inner side of each part of the filter unit to clean them up. If the filters are damaged or heavily soiled, replace them with the new ones.

7. Put the filter unit back in an upright state into the projector.

8. Put the filter cover back into the place.

2

3

Filter cover

Filter cover knobs

4, 5

Filter unit

Filter unit knobs

6   **7**
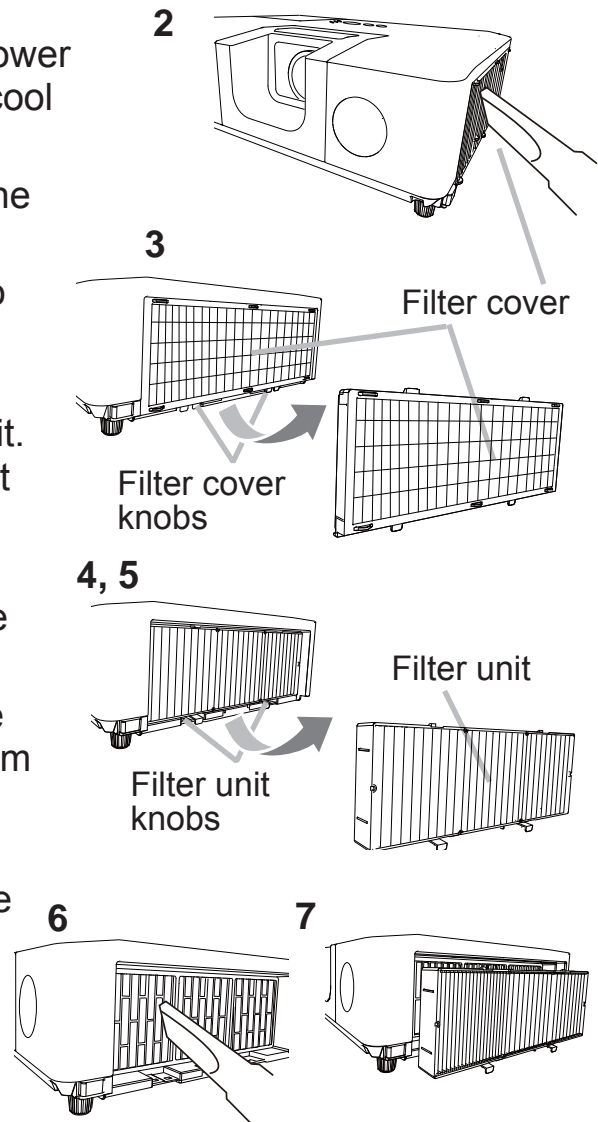
(continued on next page)

Cleaning and replacing the air filter (continued)

9. Turn the projector on and reset the filter time using the FILTER TIME item in the EASY MENU.

(1) Press the **MENU** button to display a menu.
(2) Point at the FILTER TIME using the ▼/▲ button, then press the ► button. A dialog will appear.
(3) Press the ► button to select "OK" on the dialog. It performs resetting the filter time.

⚠ **WARNING** ►Before taking care of the air filter, make sure the power cord is not plugged in, then allow the projector to cool sufficiently. Taking care of the air filter in a high temperature state of the projector could cause an electric shock, a burn or malfunction to the projector.
►Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.
►Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

NOTE • Please replace the air filter when it is damaged or heavily soiled.
• When you replace the projection lamp, please replace the air filter. An air filter of specified type will come together with a replacement lamp for this projector.
• Please reset the filter time only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.
• The projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.

Replacing the internal clock battery

Installing the battery is required in some cases. (📖Event Scheduling in the User's Manual - Network Guide) A battery is not contained at the time of factory shipment. Please replace a battery according to the following procedure.

Battery Cover

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.

2. After making sure that the projector has cooled adequately, slowly turn over the projector, so that the bottom is facing.

3. Turn the battery cover fully in the direction indicated "**OPEN**" using a coin or the like, and pick the cover up to remove it.

4. Pry up the battery using a flathead screwdriver or the like to take it out. Do not use any metal tools.
While prying it up, put a finger lightly on the battery since it may pop out of the holder.

5. Replace the battery with a new MAXELL, Part No.**CR2032** or **CR2032H**.
Slide the battery in under the plastic claw, and push it into the holder until it clicks.

6. Replace the battery cover in place, then turn it in the direction indicated "**CLOSE**" using such as coins, to fix.
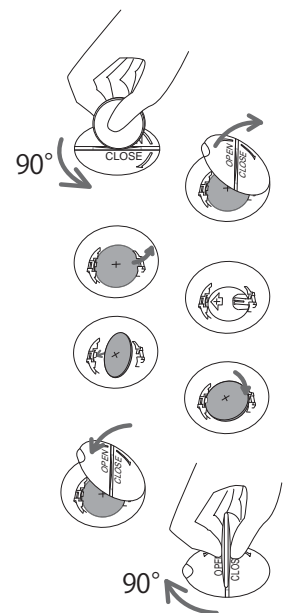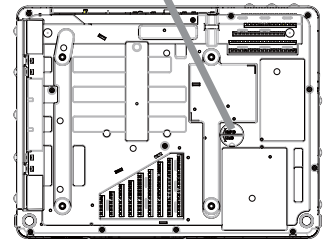
⚠**WARNING** ►Always handle the batteries with care and use them only as directed. Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.
And also improper use may result in cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
・Be sure to use only the batteries specified.
・Make sure the plus and minus terminals are correctly aligned when loading a battery.
・Keep a battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
・Do not short circuit or solder a battery.
・Do not allow a battery in a fire or water. Keep batteries in a dark, cool and dry place.
・If you observe battery leakage, wipe out the leakage and then replace a battery. If the leakage adheres to your body or clothes, rinse well with water immediately.
・Obey the local laws on disposing a battery.

Other care

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.

Caring for the lens

If the lens is flawed, soiled or fogged, it could cause deterioration of display quality. Please take care of the lens, being cautious of handling.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.

2. After making sure that the projector is cool adequately, lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

Caring for the cabinet and remote control

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.

2. After making sure that the projector is cool adequately, lightly wipe with gauze or a soft cloth.
   If the projector is extremely dirty, dip soft cloth in water or a neutral cleaner diluted in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

⚠**WARNING** ►Before caring, make sure the power cord is not plugged in, and then allow the projector to cool sufficiently. The care in a high temperature state of the projector could cause a burn and/or malfunction to the projector.
►Never try to care for the inside of the projector personally. Doing is so dangerous.
►Avoid wetting the projector or inserting liquids in the projector. It could result in a fire, an electric shock, and/or malfunction to the projector.
• Do not put anything containing water, cleaners or chemicals near the projector.
• Do not use aerosols or sprays.

⚠**CAUTION** ►Please take right care of the projector according to the following. Incorrect care could cause not only an injury but adverse influence such as discoloration, peeling paint, etc.
►Do not use cleaners or chemicals other than those specified in this manual.
►Do not polish or wipe with hard objects.

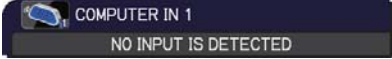**NOTICE** ►Do not directly touch the lens surface with hands.

Troubleshooting
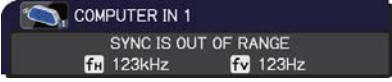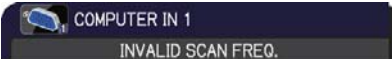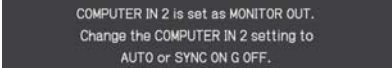
If an abnormal operation should occur, stop using the projector immediately.

⚠ **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 such cases, immediately disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact to your dealer or service company.

Otherwise if a problem occurs with the projector, the following checks and measures are recommended before requesting repair.
If this does not resolve the problem, please contact your dealer or service company. They will tell you what warranty condition is applied.

Related messages

When some message appears, check and cope with it according to the following table. Although these messages will be automatically disappeared around several minutes, it will be reappeared every time the power is turned on.

Message	Description
COMPUTER IN 1 NO INPUT IS DETECTED	**There is no input signal.** Please confirm the signal input connection, and the status of the signal source.

Waiting for connection
 	
Waiting for connection
< SIMPLE ACCESS POINT >
  SSID   : SimpleAccessPoint
  IP ADDRESS   : 192. 168. 10. 1
< PASSCODE >
  WIRELESS   : N93D-D114-SBCJ
  WIRED   : 2BN1-1111-ZFM5
< PROJECTOR NAME >
  Projector_Name
	Projector is waiting for an image file.
	Check the hardware connection, settings on the projector and network-related settings.
	The computer-Projector network connection might be disconnected. Please re-connect them.

COMPUTER IN 1 SYNC IS OUT OF RANGE fH 123kHz fV 123Hz	**The horizontal or vertical frequency of the input signal is not within the specified range.** Please confirm the specs for your projector or the signal source specs.
COMPUTER IN 1 INVALID SCAN FREQ.	**An improper signal is input.** Please confirm the specs for your projector or the signal source specs.
COMPUTER IN 2 is set as MONITOR OUT. Change the COMPUTER IN 2 setting to AUTO or SYNC ON G OFF.	**The COMPUTER IN2/MONITOR OUT port is selected as the picture input source even if MONITOR OUT is selected for COMPUTER IN2(📖43).** Select AUTO or SYNC ON G OFF in the dialog to project the picture input to the **COMPUTER IN2/MONITOR OUT** port. In this case, you cannot use the MONITOR OUT function. Otherwise select other port for picture input.

Related messages (continued)

Message	Description
CHECK THE AIR FLOW	**The internal temperature is rising. The projector is operating in low power.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again. • Is there blockage of the air passage aperture? • Is the air filter dirty? If so, please clean or replace the air filter (*90, 91*). • Does the peripheral temperature exceed 35°C? • If the projector is used at an altitude of about 1600 m (5250 feet) or higher, set ALTITUDE of the SERVICE item in the OPTION menu to HIGH (*67*). If the projector is used with a wrong setting, it may cause damage to the projector itself or the parts inside.
REMINDER 5000 HRS PASSED AFTER THE LAST FILTER CHECK. FILTER MAINTENANCE IS ESSENTIAL. TO REMOVE WARNING MESSAGE, RESET FILTER TIME. SEE MANUAL FOR FURTHER INFO.	**A note of precaution when cleaning the air filter.** Please immediately turn the power off, and clean or change the air filter referring to the **Cleaning and replacing the air filter** section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer (*48, 91*).
NOT AVAILABLE	**The button operation is not available.** Check the button you are going to use (*6*).

Regarding the indicator lamps

When operation of the **LAMP**, **TEMP** and **POWER** indicators differs from usual, check and cope with it according to the following table.

POWER indicator	LAMP indicator	TEMP indicator	Description
Lighting In **Orange**	Turned **off**	Turned **off**	**The projector is in a standby state.** Please refer to the section "Power on/off".
Blinking In Green	Turned **off**	Turned **off**	**The projector is warming up.** Please wait.
Lighting In **Green**	Turned **off**	Turned **off**	**The projector is in an on state.** Ordinary operations may be performed.
Blinking In Orange	Turned **off**	Turned **off**	**The projector is cooling down.** Please wait.
Blinking In Red	(discretionary)	(discretionary)	**The projector is cooling down. A certain error has been detected.** Please wait until **POWER** indicator finishes blinking, and then perform the proper measure using the item descriptions below.
Blinking In Red or Lighting In **Red**	Lighting In **Red**	Turned **off**	**The lamp does not light, and there is a possibility that interior portion has become heated.** 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 confirmation of the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? Otherwise, remove the lamp unit once, and then put back into place, referring to the **Replacing the lamp**. If the same indication is displayed after the remedy, please change the lamp referring to the section **Replacing the lamp**.
Blinking In Red or Lighting In **Red**	*Blinking In Red*	Turned **off**	**The lamp cover has not been properly fixed.** 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 confirmation of the attachment state of the lamp cover. After performing any needed maintenance, turn the power on again. If the same indication is displayed after the remedy, please contact your dealer or service company.

(continued on next page)

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Regarding the indicator lamps (continued)

POWER indicator	LAMP indicator	TEMP indicator	Description
Blinking In **Red** *or* Lighting In **Red**	Turned **off**	*Blinking In* **Red**	**The cooling fan is not operating.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation that no foreign matter has become caught in the fan, etc., and then turn the power on again. If the same indication is displayed after the remedy, please contact your dealer or service company.
Blinking In **Red** *or* Lighting In **Red**	Turned **off**	Lighting In **Red**	**There is a possibility that the interior portion has become heated.** Please turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C? • If the projector is used at an altitude of about 1600 m (5250 feet) or higher, set ALTITUDE of the SERVICE item in the OPTION menu to HIGH (**67**). If the projector is used with a wrong setting, it may cause damage to the projector itself or the parts inside.
Lighting In **Green**	Simultaneous *blinking in* **Red**		**It is time to clean the air filter.** Please immediately turn the power off, and clean or change the air filter referring to the section **Cleaning and replacing the air filter**. After cleaning or changing the air filter, please be sure to reset the filter timer. After the remedy, reset the power to ON.
Lighting In **Green**	Alternative *blinking in* **Red**		**There is a possibility that the interior portion has become overcooled.** Please use the unit within the usage temperature parameters (5°C to 35°C). After the treatment, reset the power to ON.
Blinking In **Green** for approx. 3 seconds.	Turned **off**	Turned **off**	**At least 1 Power ON schedule is saved to the projector.** Please refer to Schedule Settings in the Network Guide.

Regarding the indicator lamps (continued)

NOTE • When the interior portion has become overheated, for safety purposes, the projector is automatically shut down, and the indicator lamps may also be turned off. In such a case, disconnect the power cord, and wait at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again. If the projector is used at an altitude of about 1600 m (5250 feet) or higher, set ALTITUDE of the SERVICE item in the OPTION menu to HIGH (*67*). Otherwise, set it to NORMAL.

Resetting all settings

When it is hard to correct some wrong settings, the FACTORY RESET function of SERVICE item in OPTION menu (*71*) can reset all settings (except settings such as LANGUAGE, AUTO BLANK, LAMP TIME, FILTER TIME, FILTER MESSAGE, STANDBY MODE, COMMUNICATION, SECURITY and NETWORK) to the factory default.

Phenomena that may be easy to be mistaken for machine defects

About the phenomenon confused with a machine defect, check and cope with it according to the following table.

Phenomenon	Cases not involving a machine defect	Reference page
Power does not come on.	**The electrical power cord is not plugged in.** Correctly connect the power cord.	15
	The main power source has been interrupted during operation such as by a power outage (blackout), etc. 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.	15
	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed. Please turn the power off and disconnect the power plug from the power outlet, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	88
Neither sounds nor pictures are output.	**The signal cables are not correctly connected.** Correctly connect the connection cables.	10 ~ 14
	Signal source does not correctly work. Correctly set up the signal source device by referring to the manual of the source device.	–
	The input changeover settings are mismatched. Select the input signal, and correct the settings.	23
	The BLANK function for pictures and the MUTE function for sounds are working. AV MUTE may be active. Refer to the item "Sound does not come out" and "No pictures are displayed" on the next page to turn off the MUTE and BLANK functions.	22

Phenomena that may be easy to be mistaken for machine defects (continued)

Phenomenon	Cases not involving a machine defect	Reference page
Sound does not come out.	**The signal cables are not correctly connected.** Correctly connect the audio cables.	10 ~ 14
	The MUTE function is working. Restore the sound pressing **MUTE** or **VOLUME +/-** button on the remote control.	22
	The volume is adjusted to an extremely low level. Adjust the volume to a higher level using the menu function or the remote control.	22, 52
	The AUDIO SOURCE/SPEAKER setting is not correct. Correctly set the AUDIO SOURCE/SPEAKER in AUDIO menu.	52
	The Sound button (♪) or checkbox is disabled. If you have selected **LAN**, put a check mark on the Sound checkbox in the Option menu of "LiveViewer".	–
No pictures are displayed.	**The lens cover is attached.** Remove the lens cover.	4
	The signal cables are not correctly connected. Correctly connect the connection cables.	10 ~ 14
	The brightness is adjusted to an extremely low level. Adjust BRIGHTNESS to a higher level using the menu function.	36
	The computer cannot detect the projector as a Plug-and-Play monitor. Make sure that the computer can detect a Plug-and-Play monitor using another Plug-and-Play monitor.	10
	The BLANK screen is displayed. Press **BLANK** button on the remote control.	30
	COMPUTER IN2 is set to MONITOR OUT. Set COMPUTER IN2 to AUTO or SYNC ON G OFF.	43

Phenomena that may be easy to be mistaken for machine defects (continued)

Phenomenon	Cases not involving a machine defect	Reference page
No pictures are displayed. (continued)	**The projector does not recognize the USB storage device inserted into USB TYPE A port.** Before removing the USB storage device, be sure to use the REMOVE USB function on the thumbnail screen, which appears when the **USB TYPE A** port is selected as the input source.	12, 82
Video screen display freezes.	**The FREEZE function is working.** Press **FREEZE** button to restore the screen to normal.	30
Colors have a faded- out appearance, or Color tone is poor.	**Color settings are not correctly adjusted.** Perform picture adjustments by changing the COLOR TEMP, COLOR, TINT and/or COLOR SPACE settings, using the menu functions.	36, 38, 42
	COLOR SPACE setting is not suitable. Change the COLOR SPACE setting to AUTO, RGB, SMPTE240, REC709 or REC601.	42
Pictures appear dark.	**The brightness and/or contrast are adjusted to an extremely low level.** Adjust BRIGHTNESS and/or CONTRAST settings to a higher level using the menu function.	36
	The projector is operating in ECO MODE. Set ECO MODE in the LAMP & FILTER menu to NORMAL.	47
	The lamp is approaching the end of its product lifetime. Replace the lamp.	88, 89
Pictures appear blurry.	**Either the focus and/or horizontal phase settings are not properly adjusted.** Adjust the focus using the focus ring, and/or H PHASE using the menu function.	24, 41
	The lens is dirty or misty. Clean the lens referring to the section **Caring for the lens**.	93

Phenomena that may be easy to be mistaken for machine defects (continued)

Phenomenon	Cases not involving a machine defect	Reference page
Some kind of image degradation such as flickering or stripes appear on screen.	**When the projector is operating in ECO MODE, flickering may appear on screen.** Set ECO MODE in the LAMP & FILTER menu to NORMAL.	47
	The OVER SCAN ratio is too big. Adjust OVER SCAN in the IMAGE menu smaller.	40
	Excessive VIDEO NR. Change the setting of VIDEO NR in the INPUT menu.	42
	The FRAME LOCK function cannot work on the current input signal. Set FRAME LOCK in the INPUT menu to OFF.	43
The sound or image is unstable or is output intermittently.	**When LAN or USB TYPE A port is selected, some ports of the output may be missing due to signal processing delay.** Change the signal or use another port.	23, 52
The computer connected to the **USB TYPE B** port of the projector does not start up.	**The computer cannot start up in the current hardware configuration.** Disconnect the USB cable from the computer, then reconnect it after starting up the computer.	12
RS-232C does not work.	**The SAVING/NETWORK(WOL) function is working.** Select NORMAL for STANDBY MODE item in the SETUP menu.	49
	The COMMUNICATION TYPE for the CONTROL port is set to NETWORK BRIDGE. Select OFF for COMMUNICATION TYPE item in the OPTION - SERVICE - COMMUNICATION menu.	69
NETWORK BRIDGE function does not work.	**The NETWORK BRIDGE function is turned off.** Select NETWORK BRIDGE for COMMUNICATION TYPE item in the OPTION - SERVICE - COMMUNICATION menu.	69
Network does not work.	**The SAVING/NETWORK(WOL) function is working.** Select NORMAL for STANDBY MODE item in the SETUP menu.	49
	The same network address is set for both wireless and wired LAN. Change the network address setting for wireless or wired LAN.	–

Phenomena that may be easy to be mistaken for machine defects (continued)

Phenomenon	Cases not involving a machine defect	Reference page
Schedule function does not work.	**The SAVING/NETWORK(WOL) function is working.** Select NORMAL for STANDBY MODE item in the SETUP menu.	49
	The internal clock has been reset. Once you turn off the projector in the SAVING mode or the AC power, the current date and time setting is reset. Check the DATE AND TIME setting for SCHEDULE menu.	–
When the projector is connected to wired LAN, it powers off and on as described below. Powers off ← ↓ **POWER** indicator blinks in orange a few times ↓ Goes into standby mode	**Disconnect the LAN cable and check that the projector is working properly.** If this phenomenon occurs after connecting to the network, there may be a loop between two Ethernet switching hubs within the network, as explained below. - There are two or more Ethernet switching hubs in a network. - Two of the hubs are doubly connected by LAN cables. - This double connection forms a loop between the two hubs. Such a loop may have an adverse effect on the projector as well as the other network devices. Check the network connection and remove the loop by disconnecting the LAN cables such that there is only one connecting cable between two hubs.	–

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.

Specifications

Please see the **Specifications** in the **User's Manual (concise)** which is a book.

End User License Agreement for the Projector Software

• Software in the projector consists of the plural number of independent software modules and there exist our copyright and/or third party copyrights for each of such software modules.

• Be sure to read "End User License Agreement for the Projector Software" which is separated document.