Canon

MULTIMEDIA PROJECTOR WUX450 WX520 WUX400ST WX450ST

User's Manual



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Sales: 1300 88 11 79

System

www.Projectisle.com.au

ENG

How to Use This Manual

Thank you for purchasing a Canon projector.

The WUX450/WX520/WUX400ST/WX450ST Multimedia Projector (hereinafter referred to as "the projector") is a high-performance projector that is capable of projecting a high-resolution computer screen and high-quality digital image on a large screen.

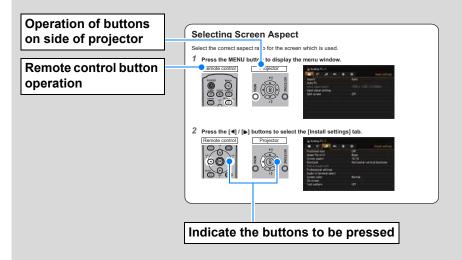
This Manual

This manual combines the user's manual for WUX450/WX520/WUX400ST/ WX450ST Multimedia Projectors. The "Operation" section (P49) describes how to use the projector. The "Installation and Maintenance" section (P123) describes initial setup and regular maintenance. For instructions on software for projection by multiple projectors linked in a local network, refer to the "Networked Multi-Projection (NMPJ)" section (P205). Read this manual thoroughly to make the most of your projector. Installation of the projector should be performed by a qualified technician, if possible. Contact the Canon Customer Support Center for further information. Unless otherwise noted, figures in this manual show the WUX450/WX520.

Symbols of Button Operations

The projector can be operated using the buttons on the remote control or on the side of the projector. The remote control allows you to operate all functions of the projector.

In this document, the button's operations are shown as below.



Symbols Used in This Manual

Meanings of the symbols used in this manual are as follows.

- A precaution about operation or restriction is given here.
- Indicates supplemental information to note in use.

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Projector Highlights

Minimal Space Needed for Installation

Compact body (337 x 134 x 370 mm / 13.3 x 5.3 x 14.6 in (W x H x D) (WUX450/WX520) or 337 x 134 x 415 mm / 13.3 x 5.3 x 16.3 in (W x H x D) (WUX400ST/WX450ST)) can be installed with minimal space requirements. (P298)

High-Resolution LCOS Projection

Projection at 1920x1200 (WUXGA) for the WUX450/WUX400ST or 1440x900 (WXGA+) for the WX520/WX450ST, thanks to high-resolution reflective liquid crystal (LCOS) panels.

Split-Screen Display

Side-by-side projection of two input images from devices connected to the projector. (P81)

Manual Lens Shift, Zoom, and Focus

Manually adjust image position (P58, P134) and focus (P59) as needed.

Zoom Adjustment to Match Screen Size

The size of the projected image can be adjusted using optical zoom (P57) on the WUX450/WX520 and electronic zoom (P149) on the WUX400ST/WX450ST.

Close-Range Projection on Large Screens (WUX400ST/WX450ST)

Close-range projection on wide screens is supported, such as projection on 100-inch screens from about 1.2 meters.

USB File Viewer

Project JPEG images stored on a USB flash. (P79)

Edge Blending

Blend the overlapping edges of images from multiple projectors to make the overall image more seamless. (P159)

Displaying Test Pattern

Project a range of test patterns, with no image input needed. (P158)

Networked Multi-Projection (NMPJ)

Project images from multiple computers via a network connection. (P205)

Quick Reference Guide

This Quick Reference Guide will help you find functions that make full use of the projector and are useful for producing an attractive presentation, etc.

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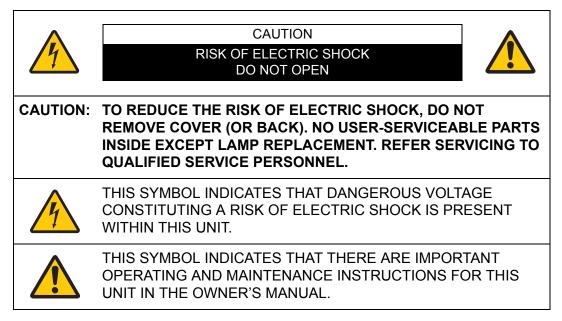
Safety Instructions

Before installing and operating the projector, read this manual thoroughly. This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintain it in good condition for many years to come.

Improper operation may result in not only shortening the product life, but also malfunctions, fire hazards, or other accidents.

If your projector does not seem to be operating properly, read this manual again, check operations and cable connections, and try the solutions in the

"Troubleshooting" section in the back of this manual. If the problem still persists, contact the Canon Customer Support Center.



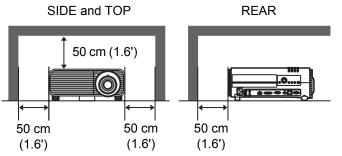
CAUTION

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer / Data Processing Equipment, ANSI / NFPA 75.

▲ Safety Precautions

WARNING:

- THIS APPARATUS MUST BE GROUNDED.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
- This projector produces intense light from the projection lens. Do not stare directly into the lens, otherwise eye damage could result. Be especially careful that children do not stare directly into the beam.
- Install the projector in a proper position. Otherwise it may result in a fire hazard.
- Allowing the proper amount of space on the top, sides, and rear of the projector cabinet is critical for proper air circulation and cooling of the unit. The diagrams shown here indicates the minimum space required. If the projector is to be built into a compartment or similarly enclosed, these minimum distances must be maintained.



- Do not cover the ventilation slots on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.
- If the projector is unused for an extended time, unplug the projector from the power outlet.
- Do not project the same image for a long time.

An afterimage may remain on the LCD panels due to the characteristics of the panels of the projector.

▲ CAUTION ON HANGING FROM THE CEILING

When hanging the projector from the ceiling, clean the air intake vents and top of the projector periodically with a vacuum cleaner. If you leave the projector unclean for a long time, the cooling fans can be clogged with dust, and it may cause a breakdown or a disaster.

DO NOT SET THE PROJECTOR IN GREASY, WET, OR SMOKY CONDITIONS SUCH AS IN A KITCHEN TO PREVENT A BREAKDOWN OR A DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

All the safety and operating instructions should be read before beginning to operate the product.

Read all of the instructions given here and retain them for later use. Unplug this projector from the AC power supply before cleaning. Do not use liquid or aerosol cleaners on the projector. Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection of the projector during a lightning storm, or when it is left unattended or unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power surges.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may result in hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should be carried out in accordance with the manufacturer's directions, and should use a mounting kit approved by the manufacturers.

An appliance and cart combination should be moved with care. Sudden stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Slots and openings in the rear and front of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind onto the projector.

Do not install the projector near the ventilation duct of air-conditioning equipment.

This projector should be operated using only the type of power source indicated on the marking label. If you are not sure of the type of power supplied, contact the Canon Customer Support Center or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by people walking on it.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. If the projector does not operate normally after following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operating condition.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. When the projector exhibits a distinct change in performance-this indicates a need for servicing.

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or injury.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

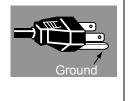
AC Power Cord Requirement

The AC Power Cord supplied with this projector meets the requirements for use in the country you purchased it.

AC Power Cord for the United States and Canada:

The AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

The AC Power Cord has a grounding-type AC line plug. This is a safety feature to ensure the plug fits into the power outlet. Do not try to tamper with this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.



For the U.S. and Canada, LAMP (S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, MUNICIPAL, STATE, PROVINCIAL, OR FEDERAL LAWS. For lamp recycling and disposal information please call 1-800-OK-CANON for the U.S. and Canada.



Only for European Union and EEA (Norway, Iceland and Liechtenstein)

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/ 19/EU), the Battery Directive (2006/66/EC) and/or national legislation implementing those Directives.



If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit www.canon-europe.com/weee, or www.canon-europe.com/battery.

Federal Communication Commission Notice

Multimedia Projector, Model: WUX450/WX520/WUX400ST/WX450ST This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

The cable with a ferrite core provided with the projector must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Use of a shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc.

One Canon Park, Melville, New York 11747, U.S.A. Tel No. (631) 330-5000

Safety Symbols in this Manual

This section describes the safety symbols used in this manual. Important projector safety information is identified by the following symbols. Always observe the safety information by these symbols.

Warning	Denotes the risk of death or serious injury from improper handling if the information is not observed. To ensure safe use, always observe this information.
Caution	Denotes the risk of injury from improper handling if the information is not observed. To ensure safe use, always observe this information.
Prohibition	Denotes prohibited actions.
Caution	Denotes required actions or information that must be observed.

Precautions for Use

As this section contains important safety-related information, be sure to read the following carefully beforehand in order to use your projector correctly and safely.



During installation, keep the projector plug easily accessible so that the projector can be unplugged immediately if necessary, or keep a circuit breaker within reach. If the following situations occur, turn the power off, remove the power plug from the power outlet and contact the Canon Customer Support Center. Failure to do so could cause a fire or result in an electric shock.

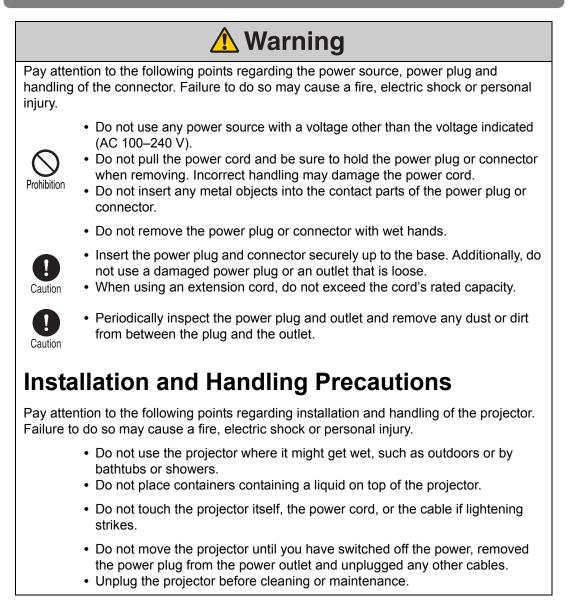
· If smoke is emitted

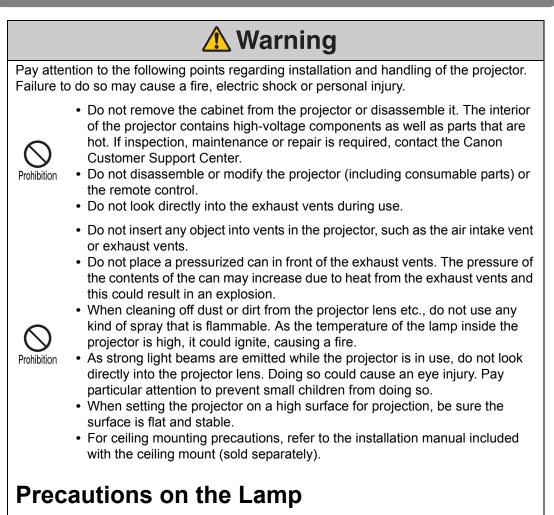
Prohibition

- If an unusual smell or noise is emitted
- If water or other liquid has entered the projector
- If metal or any other foreign material has entered the projector
- If the projector is knocked over or dropped and the cabinet is damaged

Pay attention to the following points for handling the power cord. Failure to do so may cause a fire, electric shock or personal injury.

- Do not place any objects on the power cord and do not allow it to become trapped under the projector.
- Do not cover the power cord with a carpet.
- Do not modify or excessively bend, twist, pull, wind, or bundle the power cord.
- Keep the power cord away from heaters and other sources of heat.
- Do not use a damaged power cord. If the power cord is damaged, purchase a replacement from your dealer.
- The power cord included with this projector is for use exclusively with this product. Do not use this cord for other products.
- Be sure to connect the ground wire of the power cord to ground.
- Be sure to connect the ground wire before connecting the power plug to the outlet. Also when you disconnect the ground wire, be sure to unplug the power plug from the outlet beforehand.

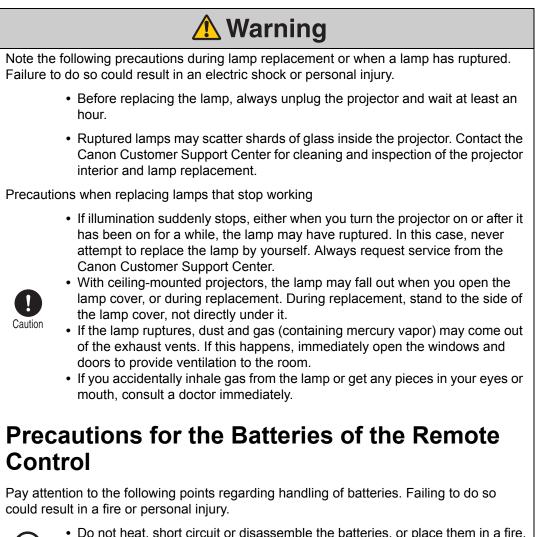




This projector uses a high-pressure mercury lamp, which must be handled carefully and correctly as described below.

The mercury lamp has the following characteristics.

- The lamp will gradually become darker over time.
- Impact, abrasion, or use of worn-out lamps may cause lamps to rupture (accompanied by a loud noise) or burn out.
- Lamps are more likely to rupture after the lamp replacement message is displayed (see "Replacing the Lamp" (P201)). Replace the lamp with a new one as soon as possible.
- Useful life of lamps varies widely from lamp to lamp and depending on the environment of use. Some lamps may fail or rupture soon after they are first used.
- Be prepared by keeping a spare lamp.



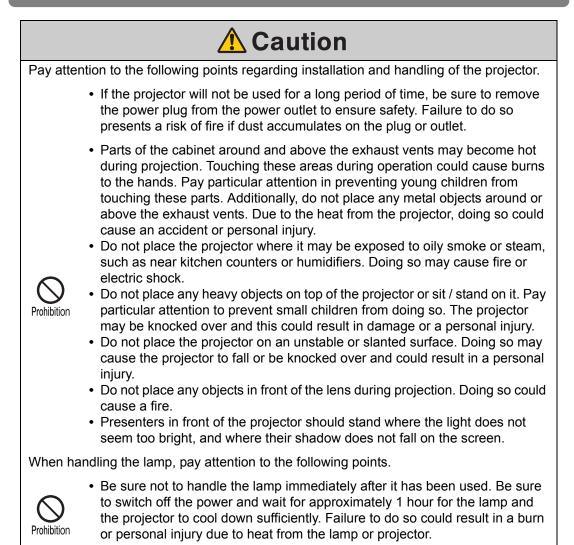


- Do not heat, short circuit or disassemble the batteries, or place them in a fire.
- Do not attempt to recharge the batteries that are included with the remote control.
- · Remove the batteries when they are flat or when the remote control will not be used for a long period of time.

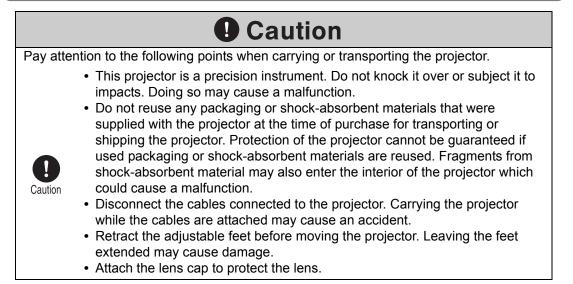


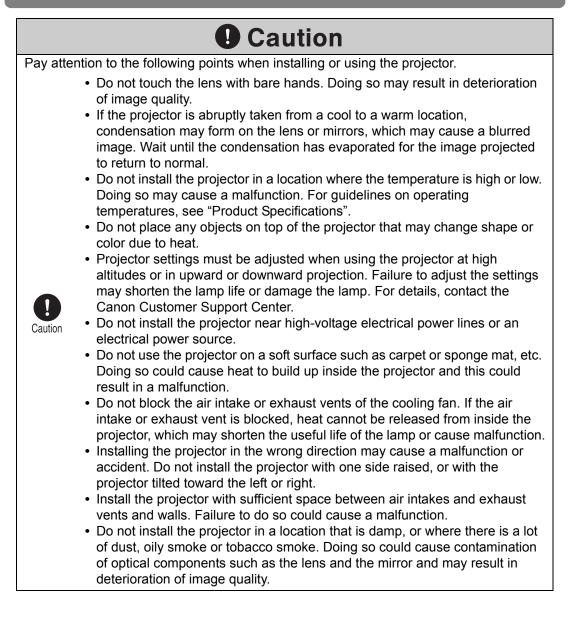
- When replacing the batteries, replace both at the same time. Also, do not use two batteries of a different type at the same time.
- Insert the batteries with the + and terminals in the correct directions.
- If any liquid from inside the batteries leaks out and contacts your skin, be sure to wash the liquid off thoroughly.

Safety Instructions



For Safe Use





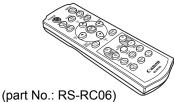
	Safety Instructions
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	Functions in All Modes
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Before Use

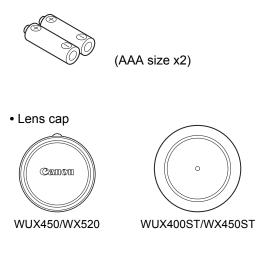
Supplied Accessories

Check that the following accessories have been supplied with the projector.

Remote control



Optional remote controls are also available (RS-RC04, RS-RC05). However, some buttons are not supported with this projector. The RS-RC05 can also be used as a wired remote. (P36) Batteries for the remote control

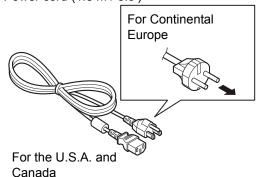


- Power cord (1.8 m / 5.9')
- Computer cable (1.8 m / 5.9') (mini D-sub 15-pin / mini D-sub 15-pin)



• User's Manual (CD-ROM)





- Warranty Card
- Important Information

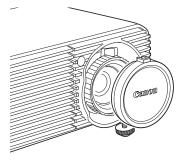
Attaching the Lens Cap

When using the WUX450/WX520, align the lens cap notch with the optical zoom adjustment lever as shown and attach the cap.

There is no need to align the lens cap when using the WUX400ST/WX450ST.



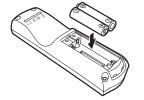
Always remove the cap before projection. Accidentally leaving the cap on during projection may distort the cap and damage the projector.



Preparing the Remote Control

Installing Remote Control Batteries

- 1 Open the battery compartment lid. Slide the lid while pressing it down.
- 2 Insert batteries. Insert 2 new AAA batteries in the compartment with the + and – poles positioned correctly.



3 Close the compartment lid. Slide the lid until you

hear a click to securely close it.



- If buttons on the remote control are inoperative when you attempt to operate the projector, replace the batteries with new ones.
 - Do not drop the remote control or subject it to impact.
 - Do not spill any liquids on the remote control. Doing so could damage it.



Pay attention to the following points when handling the batteries. Failing to do so could result in a fire or personal injury.



- Do not heat, short circuit or disassemble the batteries, or place them in a fire.
- Do not attempt to recharge the batteries that are included with the remote control.
- Remove the batteries when they are flat or when the remote control will not be used for a long period of time.



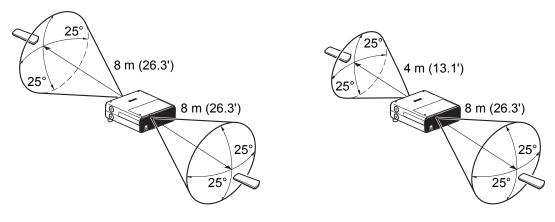
- When replacing the batteries, replace both at the same time. Also, do not use two batteries of a different type at the same time.
- Insert the batteries with the + and terminals in the correct directions.
- If any liquid from inside the batteries leaks out and contacts your skin, be sure to wash the liquid off thoroughly.

Remote Control Operating Range

The remote control is an infrared type. Point it at the infrared remote receiver on the front or rear of the projector to operate it.

WUX450/WX520

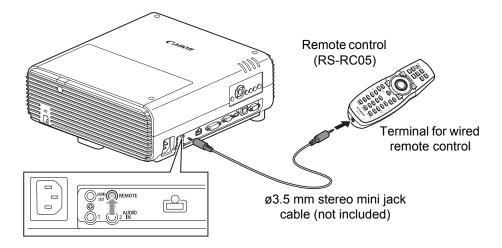
WUX400ST/WX450ST



- Use the remote control within an angle of 25° in any direction from directly in front of the infrared remote receiver.
 - The remote control may be inoperative if there is an obstacle between the remote control and the projector or the infrared remote receiver on the projector is exposed to direct sunlight or strong light of lighting equipment.
 - When you use 2 or more projectors at the same time, you can change the channel settings to prevent the 2 remote controls from interfering with each other. (P113)

■ Using an Optional Wired Remote (RS-RC05)

To use a wired remote control with the projector, use the RS-RC05, sold separately. Use a cable with a Ø3.5 mm stereo mini jack (not included).

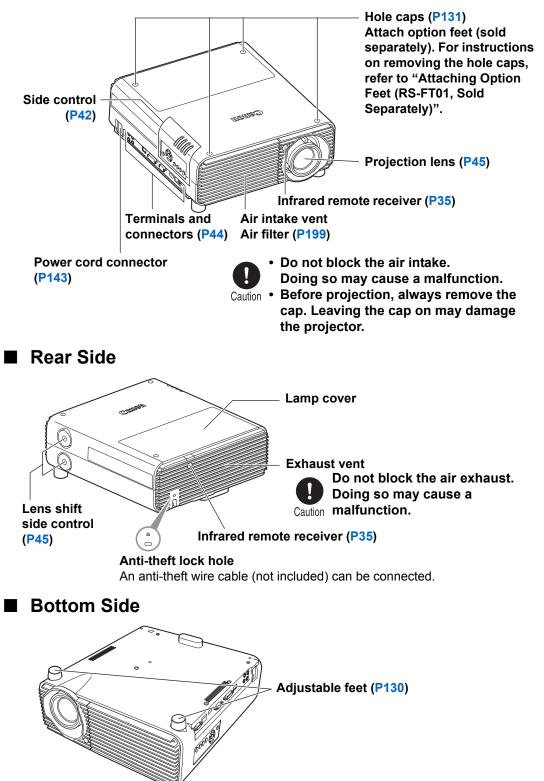


- Infrared operations cannot be performed if a cable is connected to the projector or the remote control.
 - Use a cable with a ø3.5 mm stereo mini jack (not included) with a length of 30 m (98.4') or less.

Part Names

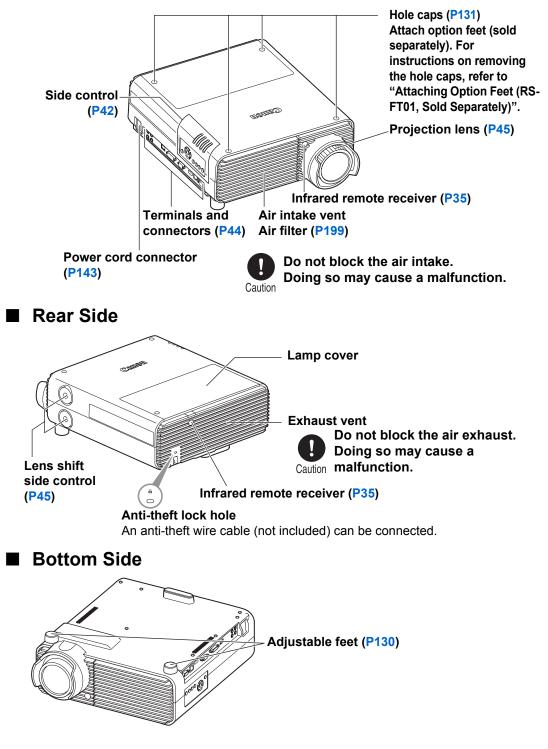
Projector (WUX450/WX520)

Front Side



Projector (WUX400ST/WX450ST)

■ Front Side



Mounting the Projector on the Ceiling

You can mount the projector on the ceiling.

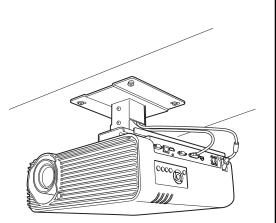
The ceiling attachment (part No.: RS-CL12 (WUX450/WX520), RS-CL13 (WUX400ST/WX450ST)) is required in order to mount the projector on the ceiling. Depending on the installation environment, an extension pipe (part No.: RS-CL08 or RS-CL09) may also be required. Contact the Canon Customer Support Center for more detailed information.



· Make sure to use the optional ceiling attachment.

Caution • You should never install the ceiling attachment by yourself.

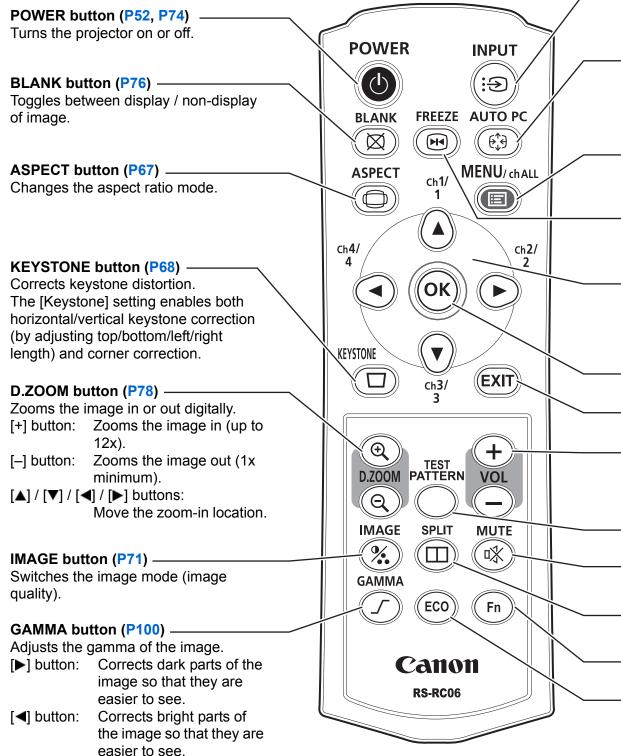
If you mount the projector on the 7 ceiling, you have to invert the projected image by selecting [Image flip H/V] from the menu. (P146)



Remote control

The projector can be operated using buttons on the remote control or the side control on the projector.

The remote control allows you to operate all functions of the projector.



• **INPUT button (P54)** Switches the input signal.

AUTO PC button (P57)

Adjusts tracking etc. automatically in accordance with the signal from a computer when the analog PC input is selected.

MENU button (P84)

Displays a menu on the screen. Also used to assign a channel to the remote control. (P113)

FREEZE button (P76)

Freezes the projected image.

Pointer buttons (P85)

Selects the upper, lower, left or right item in the menu. Also used to assign a channel to the remote control. (P113)

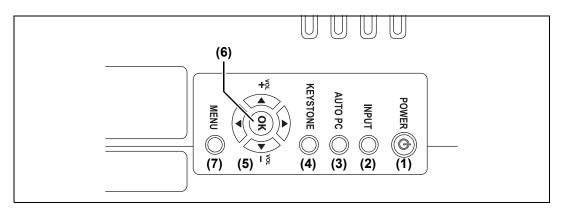
OK button (P85)

Determines the item selected from the menu.

tions such as menu t pattern during operation o the image display.
RN button (P158) test pattern.
ו (P81) split screen function.
ed on this product.

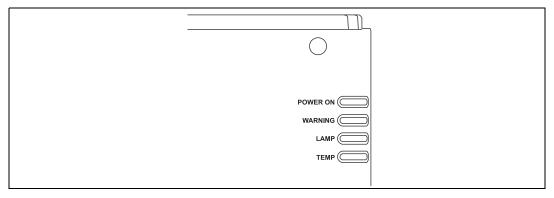
Part Names

Side Control



- (1) **POWER button (P52, P74)** Turns the projector on or off.
- (2) INPUT button (P54) Switches the input signal.
- (3) AUTO PC button (P57) Adjusts tracking etc. automatically in accordance with the signal from a computer when the analog PC input is selected.
- (4) **KEYSTONE button (P68)** Corrects keystone distortion.
- (5) Pointer / VOL buttons (P77, P85) Adjust the sound volume.
 [▲] VOL+ button: Increases the volume.
 [▼] VOL- button: Decreases the volume. Selects the upper, lower, left or right item in the menu.
- (6) OK button (P85) Determines the item selected from the menu.
- (7) MENU button (P84) Displays a menu on the screen.

LED indicators



The projector status is shown by the LED indicators (off / lit / flashing). For indicator status, refer to "LED Indicator Displays" (P43).

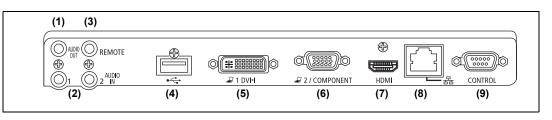
- POWER ON (green) : Lights up or flashes under normal conditions when the power is on.
- WARNING (red) : Lights up or flashes when an error occurs.
- LAMP (orange) : Flashes when the time for replacing the lamp is near. When a lamp cover error occurs, the [WARNING] indicator will also flash. When a lamp error occurs, it will illuminate at the same time as the [WARNING] indicator.
- TEMP (red) : When the temperature inside the projector is high, it will flash. If the temperature inside the projector increases further and a temperature error occurs, it will illuminate at the same time that the [WARNING] indicator illuminates.

LED Indicator Displays

The LED indicators flash or illuminate to indicate the operating status of the projector.

: Off :	Lit 📑 Elas	-		
LED indicator				
POWER ON (green)	WARNING (red)	LAMP (orange)	TEMP (red)	Operating status
				A projector is not plugged in.
				Power is on.
				A projector is in standby mode (blinks slowly: every 4 seconds).
				Waking from or entering standby mode (blinks: every second).
I				The time for replacing the lamp is near. (In standby mode.)
		, I .		The time for replacing the lamp is near. (During projection)
				Internal temperature is high.
				A lamp error has occurred.
				Power was turned off due to high internal temperature.
				The lamp cover is open.
	-			Another error has occurred.

Input Terminal



(1) AUDIO OUT terminal (AUDIO OUT) (P139, P142) Outputs the audio to external AV equipment. This outputs the audio signal that corresponds to the projected image signal.

- (2) AUDIO IN terminal (AUDIO IN) (P137, P138, P141) Receives the audio signal input for 2 kinds of image input other than HDMI. The internal speaker outputs the audio for the selected image signal.
- (3) Terminal for wired remote control (REMOTE) (P36) This terminal is used to connect the remote control using a cable.

(4) USB port (P79)

Connects a USB flash drive. Used for projection of images on a USB flash drive, or for firmware updates.

- (5) DVI-I input terminal (1 DVI-I) (P138) Connects the external monitor output from a computer. Receives analog and digital PC signals (Analog PC-1 and Digital PC, respectively).
- (6) ANALOG PC / COMPONENT input terminal (2 / COMPONENT) (P137, P141)

Receives the analog PC signal (Analog PC-2). A component cable can be used to receive the component image signal (Component).

(7) HDMI input terminal (HDMI) (P139)

Receives digital video signals (HDMI). Carries both video and audio signals across a single cable.

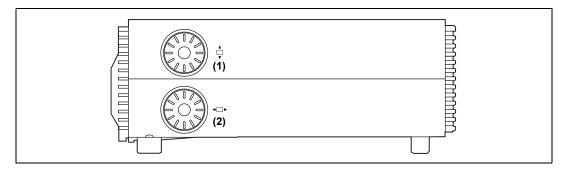
(8) LAN port (P168)

Connects the LAN cable (shielded twisted pair). Used to connect the projector to a network.

(9) Service port (CONTROL)

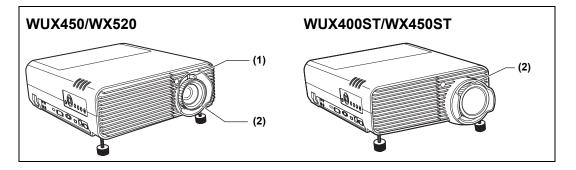
It is not used during ordinary use.

Lens Shift Control



- (1) Vertical lens shift dial Slides the lens up or down for vertical image adjustment.
- (2) Horizontal lens shift dial Slides the lens left or right for horizontal image adjustment. For details on lens shift, refer to "Lens Shift Function" (P134).

Projection Lens



- (1) Optical zoom adjustment (WUX450/WX520) Move the lever to resize the image. (P57)
- (2) Focus adjustment Turn the focus ring to adjust image focus. (P59)

Open Source Software

The product contains Open Source Software modules. For details, see "ThirdPartySoftware.pdf" (Third-Party Software License) in the OpenSourceSoftware folder in the LICENSE folder on the Setup CD-ROM. Each module's license conditions are also available in the same folder.

■ Software under the GPL and LGPL

The product includes modules licensed under the GPL and LGPL. Source code can be examined in the GPL and LGPL folders on the supplied Setup CD-ROM.

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MULTIMEDIA PROJECTOR WUX450 WX520 WUX400ST WX450ST Operation



Projecting an Image

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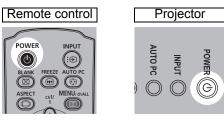
Step 1 Turn the Projector On

1 Check the connection between the projector and the computer or AV equipment. (P137 - P140)

For instructions on connecting the power cord, refer to "Plugging the Projector In" (P143).

2 Press the POWER button.

The [POWER ON] indicator initially flashes green, after which it remains lit.



The countdown window is displayed for approximately 20 seconds, and then the projection is started. Press the **OK** or **EXIT** button to make the countdown window disappear.

- Network functions are not available for the first 40 seconds after startup.
- Network functions are not available for the first time. You can select a
 A window appears when the projector is turned on for the first time. You can select a language to be used by the projector for displaying menus and messages in the window. Select the desired language with the pointer buttons and press the **OK** button. (P144)

You can change the language from the menu at a later time. (P115)

• If the language selection screen is out of focus, adjust the focus. (P59)

3 Turn on the computer or AV equipment power.

Changing Operations When Projector is Turned On

You can change operations when the projector is turned on as follows.

- You can turn on the projector by connecting the power cord, without pressing the **POWER** button. (P111)
- You can change the countdown window. (P110)
- You can skip the countdown window. (P110)

When the Projector Is Left Idle

If no signal is received, the projector automatically turns off after a certain period of inactivity (by default, 15 minutes). (P110)

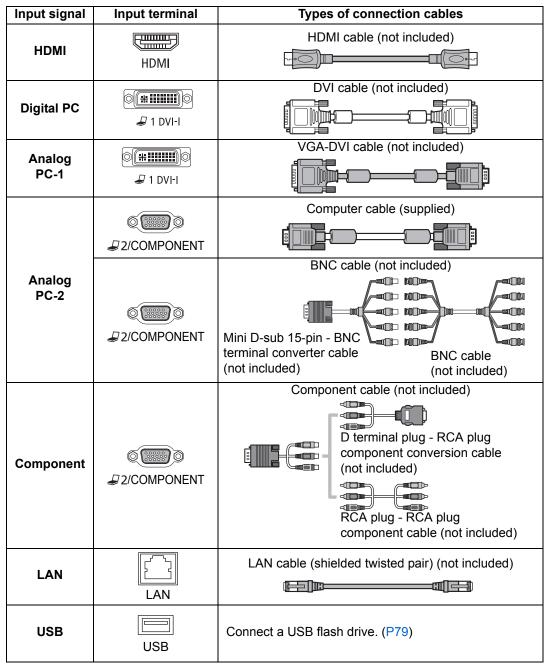
Step 2 Select an Input Signal

Select the input signal in the [Input] menu when you want to project a digital PC or AV equipment signal, or to switch between inputs when multiple computers or multiple sets of AV equipment are connected.

Skip this step if you have not changed the input signal since the last projection.

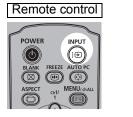
Types of Input Signals

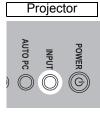
The table below shows the relationship among input signals supported by the projector, input terminals and connection cables.



Selecting an Input Signal

1 Press the INPUT button to display the window shown below.





In	put	
	📼 HDMI	
	足 Digital PC	
	🗩 🖅 Analog PC-1	
	😂 Analog PC-2	
	🚥 Component	
	몲LAN	
	ण्डः USB	

The currently active input signal is marked with a green circle and enclosed by a orange border.

An input signal that is ready for projection is displayed in white. When no signal is received, it is displayed in gray. However, [Digital PC] or [Analog PC-1] may be displayed in gray even if these signals are ready for projection.

- **2** You can switch the available input signal types by pressing the INPUT button.
 - You can select the target input signal with [▲] / [▼].

3 Press the OK button to confirm the input signal type.

- Screens of computers connected to the projector over a network can be projected
 - when you have selected [LAN] as the input signal. For details, refer to Networked Multi-Projection (NMPJ).
 - Images on USB flash drives can be projected when you have selected [USB] as the input signal. For details, refer to "Projecting Images on a USB Flash Drive" (P79).
 - In split-screen mode, the side without control rights is identified by a white circle.

Setting the Display Resolution of the Computer

Based on the maximum resolution of the projector, set the display resolution of the computer to the resolution closest to the output signal resolution of the projector. (P292)

Maximum resolution

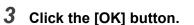
WUX450/WUX400ST : 1920 X 1200 dots WX520/WX450ST : 1440 X 900 dots

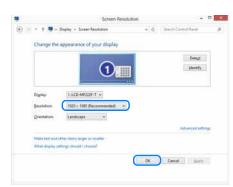
Windows 8

- 1 Move the cursor toward the upper or lower right corner to access the menu.
- 2 Click [Settings], and then click [Control Panel].
- **3** From [Control Panel Home] -[Appearance and Personalization], select [Adjust screen resolution].
- **4** Select the resolution closest to the maximum output signal resolution of the projector from the [Resolution] list.
- **5** Click the [OK] button.

Windows 7

- 1 Open the [Control Panel] from the start menu, then select [Appearance and Personalization] - [Adjust screen resolution] in the [Control Panel Home].
- 2 Click the [Resolution] tab, and move the slider to select the resolution closest to the maximum output signal resolution of the projector.





	Change the	appearance of your display	
		0	Dengt
	Dates	1.0414.4175/P	
(Busideen .	1300 × 3028 (response) dial (
	Questation	Livilicage T	
			Advector articip
		ffer fere lege at pulle. Englishedd (const	
			OK Cannol Annual

Windows Vista

- Open the [Control Panel] from the start menu, then select [Appearance and Personalization] - [Adjust screen resolution] in the [Control Panel Home].
- 2 Under [Resolution], use the slider to select the resolution closest to the projector's maximum resolution.
- **3** Click the [OK] button.



Windows XP

- **1** Right-click on the desktop background and select [Properties] to open the [Display Properties].
- 2 Click the [Settings] tab, and under [Screen resolution], use the slider to select the resolution closest to the projector's maximum resolution.
- **3** Click the [OK] button.





- **1** Open the Apple Menu and select [System Preferences].
- 2 In the [System Preferences] window, click the [Displays] icon to display the Display window.
- **3** Select the [Display] tab and select the resolution closest to the maximum output signal resolution of the projector from the [Resolutions] list.
- **4** Close the [System Preferences] window.



Auto PC Adjustment

If the image display is shifted or there is flickering of the screen when [Analog PC-1] or [Analog PC-2] is selected, press the **AUTO PC** button to adjust the projector to the optimal condition.

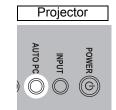
The adjustment results will be stored. If the projector is used again with the same computer, when the input signal is selected the image will be projected automatically under the same conditions that were previously adjusted.

Performing the Auto PC Function

Press the AUTO PC button to perform projector adjustment.

Remote control

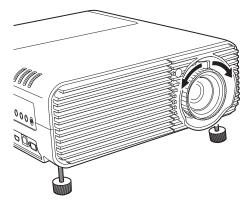




- If the Auto PC adjustment is insufficient, perform the following operations.
 - Select the input signal that matches the resolution of the computer from [Input signal select]. (P88)
 - If adjustment is insufficient even when using the above operation, adjust [Total dots], [Tracking], [Horizontal position], [Vertical position], [Horizontal pixels] and [Vertical pixels] in [Input signal settings]. (P89 - P91)
 - For the signal types supported by the projector, see the table on page 292.

Adjusting the Image Size (WUX450/WX520)

To adjust the image size, turn the lever on the projection lens. Change the projector installation position (P130) if your desired image is too large or too small to adjust it with the zoom function.

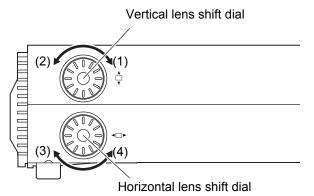


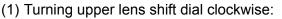
Adjusting the Image Position

Turn the lens shift dials to adjust the projected image vertically or horizontally. Called "lens shift," this adjusts the projected image into position by moving the lens up, down, left, or right.

- Instead of adjusting where the image is projected, you can also move the image itself. For details, refer to "Specifying Digital Image Shift" (P150).
 - You can fine-tune the image position by turning the upper part of the upper lens shift dial or the lower part of the lower lens shift dial.

WUX450/WX520

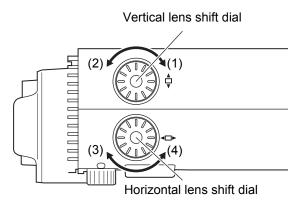




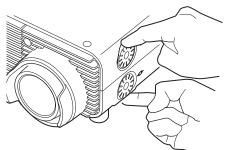
- (2) Turning upper lens shift dial counterclockwise:
- (3) Turning lower lens shift dial clockwise:

Moves the image **down**. Moves the image **up**. Moves the image **left**. Moves the image **right**.

- (4) Turning lower lens shift dial counterclockwise: Moves the For details on lens shift, refer to "Lens Shift Function" (P134).
- WUX400ST/WX450ST



- (1) Turning upper lens shift dial clockwise:
- (2) Turning upper lens shift dial counterclockwise:
- (3) Turning lower lens shift dial clockwise:
- (4) Turning lower lens shift dial counterclockwise: M
- For details on lens shift, refer to "Lens Shift Function" (P134).

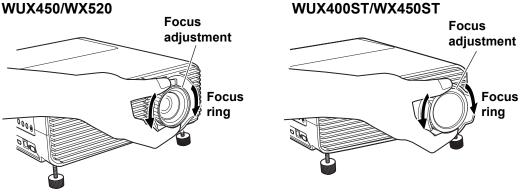


Moves the image **up**. Moves the image **down**. Moves the image **right**. Moves the image **left**. " (P134)

Adjusting the Focus

To adjust the focus, turn the focus ring.

WUX450/WX520



On the WUX400ST/WX450ST, images will waver as you turn the focus ring. Hold the 0 focus ring on top and bottom and turn it slowly as you adjust the focus.

Step 4 Select an Aspect Ratio (Screen Aspect) Matching the Screen

Select an optimum aspect ratio of the projected image (screen aspect) or an optimum screen mode (aspect) according to the aspect ratio of the screen, type of input image signal and so on for the projection to make best use of the screen size.

[Screen aspect]	Select the same screen aspect ratio as the screen you are using.
••	

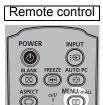
[Aspect] In general, select [Auto].

You may need to change the setting depending on the resolution of the computer or other AV equipment connected. If the image is not projected with the desired aspect ratio, refer to "Relationship between Aspect and Screen Aspect" on page 287.

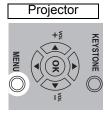
Selecting Screen Aspect

Select the correct aspect ratio for the screen which is used.

Press the MENU button to display the menu window.



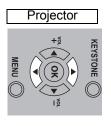
1



🕁 Analog PC-1		
	Input setti	ngs
Aspect	Auto	
Auto PC		
Input signal select	1900 x 1200 123,456Hz	
Input signal settings		
Split screen	Off	

2 Press the **[4]** / **[▶]** buttons to select the [Install settings] tab.

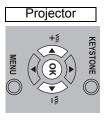




🕁 Analog PC-1	
🔳 🔟 🛃 🕶 🤅	🕒 🕕 Install settin
Positional lock	Off
Image flip H/V	None
Screen aspect	16:10
Keystone	Horizontal-vertical keystone
Digital Image shift	
Professional settings	
Audio in terminal select	
Screen color	Normal
On screen	
Test pattern	Off

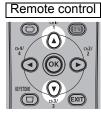
3 Select [Screen aspect] with the [▲] / [▼] buttons, and then press the OK button.

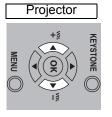




	Install setting
Positional lock	Off
Image flip H/V	None
Screen aspect	16:10
Keystone	Horizontal-vertical keystone
Digital image shift	
Professional settings	
Audio in terminal select	
Screen color	Normal
On screen	
Test pattern	Off

4 Use the $[\blacktriangle] / [\nabla]$ buttons to select the desired contents.





	🛛 🕕 🛛 Install setting
Positional lock	Off
Image flip H/V	
Screen aspect	▶ 16:10
Keystone	16:9
Digital image shift	4:3
Professional settings	16:9 D. image shift
Audio in terminal select	4:3 D. image shift
Screen color	Normal
On screen	
Test pattern	Off

16:10

Select this when you use a screen with an aspect ratio of 16:10. Also select this screen aspect when projecting on a wall.

You can correct keystone distortion with this mode. (P68)

16:9

Select this when you use a screen with an aspect ratio of 16:9.

You can correct keystone distortion with this mode. (P68)

4:3

Select this when you use a screen with an aspect ratio of 4:3.

You can correct keystone distortion with this mode. (P68)



16:10 screen



16:9 screen



4:3 screen

16:9 D. image shift

Select this when you use a screen with an aspect ratio of 16:9. Keystone correction cannot be performed in this mode. However, it is possible to move the image up / down when projecting level. For details about how to move the image, refer to page 63.

4:3 D. image shift

Select this when you use a screen with an aspect ratio of 4:3.

Keystone correction cannot be performed in this mode. However, it is possible to move the image left / right when projecting level.

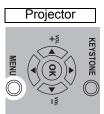
For details about how to move the image, refer to page 64.

5 Press the OK button to accept your setting and then press the MENU button.

Moving Image with 16:9 D. Image Shift

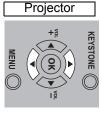
This option applies image processing to reposition the image. For this reason, it is called digital image shift.

1 When the screen aspect is [16:9 D. image shift], press the MENU button to display the menu.



2 Press the [**4**] / [**b**] buttons to select the [Install settings] tab.

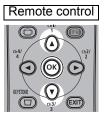


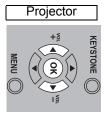


		-	10	€	0	Install setting
Positi	onal lo	ick			Off	
Image flip H/V					None	
					16:9	D. image shift
Keystone					Horizontal-vertical keystone	
Digita	l imag	e shift				
Profe	ssional	setting	gs			
Audic	in ter	minal s	elect			
Screen color					Norm	al
On sc	reen					
Test	batterr	2			Off	

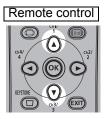
3 Use the [▲] / [▼] buttons to select [Digital image shift], then press the OK button.

Analog PC-1

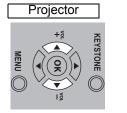




	•	0	Install settings
Positional lock		Off	
Image flip H/V		None	
Screen aspect		16:9 D. im	age shift
			-vertical keystone
Digital image shift			
Professional settings			
Audio in terminal selec			
Screen color		Normal	
On screen			
Test pattern		Off	



4 Use the $[\mathbf{\nabla}] / [\mathbf{A}]$ buttons to move the image up or down.



[▲] button Moves the image up.



[▼] button Moves the image down.

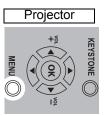


Screen

5 When the image fits the screen, press the OK button.

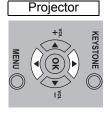
Moving Image with 4:3 D. Image Shift

1 When the screen aspect is [4:3 D. image shift], press the MENU button to display the menu.



2 Press the [**4**] / [**b**] buttons to select the [Install settings] tab.

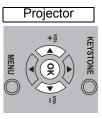




	Install setting
Positional lock	Off
Image flip H/V	None
Screen aspect	4:3 D. image shift
Keystone	Horizontal-vertical keystone
Digital image shift	
Professional settings	
Audio in terminal select	
Screen color	Normal
On screen	
Test pattern	Off

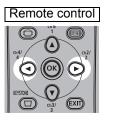
3 Use the [A] / [V] buttons to select [Digital image shift], then press the OK button.



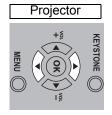


II 🗹 🛃 🛤 🖷	Install setting	
Positional lock	Off	
Image flip H/V	None	
Screen aspect	4:3 D. image shift	
	Horizontal-vertical keystone	
Digital image shift		
Professional settings		
Audio in terminal select		
Screen color	Normal	
On screen		
Test pattern	Off	

4 Use the $[\blacktriangleleft] / [\blacktriangleright]$ buttons to move the image.



[▶] button Moves the image right.





[] button Moves the image left.



5 When the image fits the screen, press the OK button.

Resetting the Image Shift

Perform the following steps to reset the image shift adjustment. Access the [D. image shift adjustment] window and press the KEYSTONE button to display the [D. image shift reset] window.

Next, select [OK] with the [] button, and then press the **OK** button.

Selecting the Aspect

Select [Aspect] based on the input signal type, aspect ratio of the screen and resolution.

For more details about aspect ratios, refer to "Relationship between Aspect and Screen Aspect" on page 287.

Types of Aspect Ratios

Auto

An image is projected at the aspect ratio of the input signal. Select this mode for normal image projection.

16:10

The image is projected using an input signal aspect ratio of 16:10. Select this if an image of 16:10 aspect ratio cannot be correctly projected in [Auto] mode.

16:9

The image is projected using an input signal aspect ratio of 16:9. Select this if an image of 16:9 aspect ratio cannot be correctly projected in [Auto] mode.

4:3

The image is projected using an input signal aspect ratio of 4:3. Select this if an image of 4:3 aspect ratio cannot be correctly projected in [Auto] mode.

Zoom

This cuts the upper/lower or left/right part of the screen according to the screen aspect and zooms in or out of the center of the image. Select this if a letter box is displayed (black lines at the top/bottom of the screen) when watching video.



There may be some cases when this cannot be selected, depending on the input signal and/or resolution.

True size

The image is projected with the original resolution of the input signal. Select this option for clear projection of computer screens at up to maximum resolution.

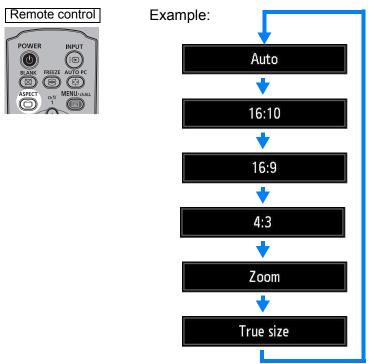


There may be some cases when this cannot be selected, depending on the input signal and/or resolution.

Selecting an Aspect Ratio

Press the **ASPECT** button on the remote control and select an appropriate aspect ratio. Press the **ASPECT** button to change the aspect ratio type.

For more details about aspect ratios, refer to "Relationship between Aspect and Screen Aspect" on page 287.



You can also select any aspect ratio from [Aspect] in the menu. (P87)

Some aspect ratios may not appear depending on the type of input signal.

Step 5 Correct the Image Distortion

Adjusting Keystone Distortion

To correct keystone distortion, press the **KEYSTONE** button.

Two types of correction are available: horizontal/vertical correction and corner correction.

Horizontal/vertical keystone correction adjusts image width and height, and corner correction adjusts the image relative to each corner.

For instructions on switching between the two types of keystone correction, refer to "Specifying Keystone Correction" (P150). Press the **KEYSTONE** button to correct distortion according to the selected keystone correction method.

- Keystone can be adjusted within a range of approximately ±20° (WUX450/WX520) or approximately ±12° (WUX400ST/WX450ST). If the keystone distortion is too large to adjust, move the projector installation position so that it is completely straight.
 - The result of keystone adjustment is stored in memory. If you place the projector in the same position, the keystone adjustment is not necessary.
 - Signals are processed digitally when keystone distortion is corrected. The image may look different from the original one. In addition, the aspect ratio of the image may change.
 - Keystone correction may not be effective in some lens shift positions.
 - The digital image shift function (P63) is accessed when this button is pressed and the screen aspect is [4:3 D. image shift] or [16:9 D. image shift].

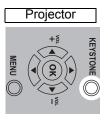
Horizontal/Vertical Keystone Correction

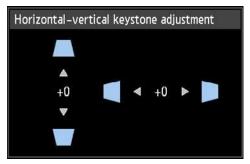
[Zoom] (P149) in the [Install settings] menu is not available during horizontal/vertical keystone correction (WUX400ST/WX450ST).

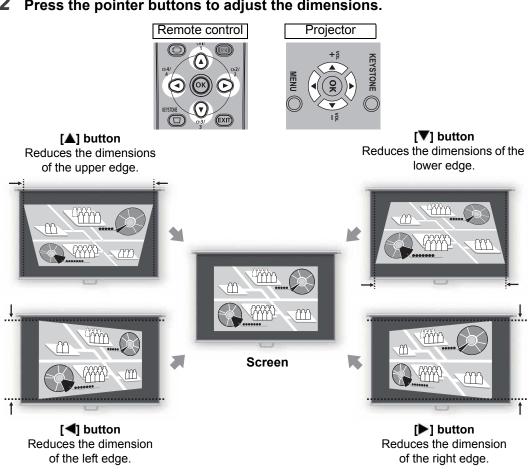
Press either the KEYSTONE button on the remote control or the KEYSTONE button on the projector to display the window shown below.









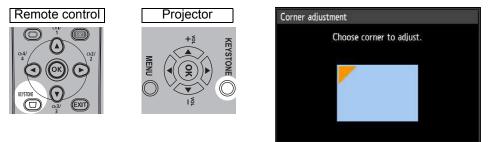


2 Press the pointer buttons to adjust the dimensions.

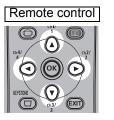
3 When keystone distortion has been corrected, press the OK button.

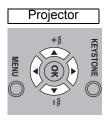
Corner Adjustment

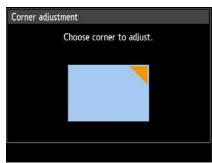
1 Press either the KEYSTONE button on the remote control or the KEYSTONE button on the projector in order to display the window shown below on the right.



2 Press the pointer button of the corner for correction, and then press the OK button.

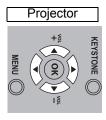






3 Press the pointer buttons to adjust the corner.







4 When you have finished correcting, press the OK button.

Corner adjustment settings will be cleared if you subsequently use [Zoom] (P149) in the [Install settings] menu (WUX400ST/WX450ST).

Resetting the Keystone Adjustment

Perform the following steps to reset the keystone adjustment.

Press the **KEYSTONE** button twice to display the [Keystone reset] window. You can now reset the correction selected in the keystone setting.

Next, select [OK] with the [◀] button, and then press the **OK** button.

Horizontal-vertical keyste	one reset
will b	l keystone adjustment e reset. DK?
ОК	Cancel

Step 6 Select the Image Quality (Image Mode)

You can select an image mode to suit the projected image. In each image mode, you can further adjust the brightness, contrast, sharpness, gamma, color adjustment, advanced adjustment, and lamp mode. (P97)

Image Modes

The image modes which can be selected vary somewhat depending on the selected input signal.

	Compatible input signals		
lmage Mode	Digital PC Analog PC-1 / 2 HDMI (when [HDMI In] is [Computer]) LAN USB	Component HDMI (when [HDMI In] is [Auto])	Explanation
Standard	0	_	Suitable for projecting a computer screen or watching video in a brightish room. This image mode emphasizes white tones.
Presenta- tion	0	_	Suitable for viewing text-based images in a brightish room.
Dynamic	_	0	Suitable for watching video in a brightish room.
Photo/sRGB	0	0	Suitable for viewing images from sRGB-compatible digital cameras or Blu-ray videos in a moderately dark room. Compatible with the sRGB color space.
Video	_	0	Suitable for watching video taken with a video camera in a moderately dark room.
User 1 - 5	0	0	Up to 5 user-selected combinations of image quality settings can be stored in the memory. (P98) Stored settings can be selected as an image mode.

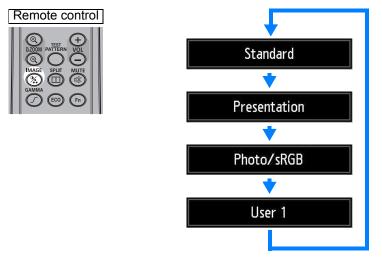
○: Compatible —: Not compatible

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Selecting an Image Mode

Press the **IMAGE** button on the remote control to select.

The image mode changes each time the **IMAGE** button is pressed. (The displayed image modes vary depending on the selected input signal.)



You can also select any image mode from the [Image mode] menu. (P97)

 User settings 1 - 5 are displayed when the desired image settings have been created and stored using the user memory function in the image adjustment menu (P98).

Step 7 Set Power-Saving Settings

Press the **ECO** button on the remote control to complete power-saving settings. The following three settings are available.

Lamp Settings

For changing lamp and fan power consumption in the current image mode.

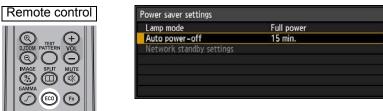
Auto Power-Off

A function for automatically turning the power off after a certain period if the projector is not used and there is no input signal.

Network Standby Settings

Specify whether network functions should be active in standby mode.

1 Press the ECO button to display the window shown below.



2 Press the **[▲]** / **[▼]** buttons to select a menu.

Complete the setting for the selected function. For details, refer to the page describing each function.

- Lamp Settings (P107)
- Auto Power-Off (P110)
- Network Standby Settings (P172)

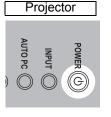
Step 8 Turn the Projector Off

1 Press the POWER button to display the window shown below.

Remote control



-7





2 When this window is displayed, press the POWER button again to turn off the power.

After you turn the power off, the projector will enter standby mode once it cools down.

If you want to continue projecting without turning off the power, press a button other than **POWER**, or else wait until the confirmation message disappears.

- After turning off the projector, wait at least 5 minutes before turning it on again. It may shorten the lamp life if you turn on the projector immediately after turning it off.
- Using the projector for a long time may shorten the life of the lamp and internal optical components.
- Unplug the projector if it will not be used for an extended period.

Useful Functions Available During a Presentation

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enance	Maintenance
Networke	Networked Multi-Projection Overview
d Multi-Proj	Operation in Each Mode
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Useful Presentation Functions

Temporarily Blacking Out an Image

Useful when:

- You have finished the presentation.
- You want to divert attendees' attention from the screen.

Remote control



Press the **BLANK** button to black out the image.

Press the **BLANK** button again to show the image.

- You can set the screen state while blacking out the image in the menu. (P109)
- The lamp remains illuminated while the image is blacked out.

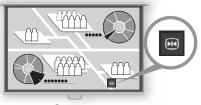
Freezing the Picture

Useful when:

- You want to perform a computer operation which is irrelevant to the proceedings of the presentation.
- You want to stop a moving image.



Press the **FREEZE** button to freeze the moving image. The projector shows the following icon.



Screen

Press the **FREEZE** button again to return to the original display.

• It is also cancelled when the input signal is terminated.

Adjusting the Volume

Useful when:

• You want to adjust the volume level of the projector or external speakers.

Remote control



Press the **VOL** button. The following screen appears.



- You can also adjust the volume level with the [▲] / [▼] buttons of the projector.
- Adjust the volume or mute setting on the computer if the volume level is too low.
- You can also adjust the volume level of the speakers connected via the audio output terminal.

Muting the Sound

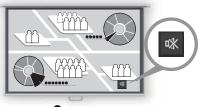
Useful when:

- You want to temporality mute unnecessary sound.
- You want to immediately mute the sound.





Press the **MUTE** button to mute the sound. The projector shows the following icon.



Screen

Press the **MUTE** button again to cancel the mute function.

• You can also mute the sound of the speakers connected via the audio output terminal.

Zooming an Image

Useful when:

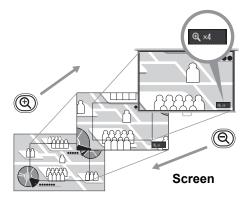
- Zooming in on an object such as a small graph during a presentation (up to 12x).
- Focusing on the current subject.

Press the **+ D.ZOOM** button to enlarge a part of the image. Press the

– **D.ZOOM** button to reduce the image size.

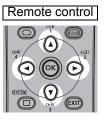
Remote control

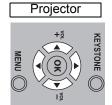


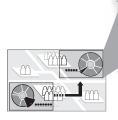


• The magnification appears on the screen.

You can move the enlarged area by using the $[\blacktriangle] / [\heartsuit] / [\blacktriangleleft] / [\blacktriangleright]$ buttons.









Screen

You can restore the original size of the image by pressing the **OK** button.



The **D.ZOOM** buttons work differently than [Zoom] in the WUX400ST/ WX450ST [Install settings] menu (P149).

Projecting Images on a USB Flash Drive

Images stored on a USB flash drive in the projector can be projected as follows. You can select the images to project, or you can project images automatically, one after another. JPEG images up to 7000x7000 can be projected.



- USB flash drives with security features are not recognized by the projector and cannot be selected as the image source.
- If the projector cannot mount the file system, the drive name is grayed out and the following icon is displayed. In this case, the USB flash drive cannot be used.

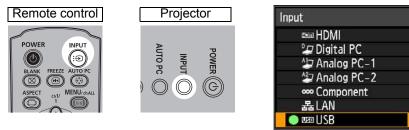


1 Insert the USB flash drive in the USB port.



Insert the USB flash drive directly into the projector's USB port. The USB flash drive will not be recognized if you connect it via a hub.

2 Press the INPUT button.



3 Press the INPUT button repeatedly to select [USB].

JPEG files on the USB flash drive are now listed.

USB1 USB CARD1	1/1
⇒ Return	
file1.jpg	
file2.jpg	
file3.jpg	
file4.jpg	
file5.jpg	
file6.jpg	
file7.jpg	
file8.jpg	
file9.jpg	

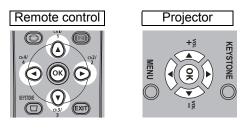
- If the USB flash drive contains multiple partitions, a screen is displayed for you to select the desired partition. Use the pointer buttons to select the partition, and then press the **OK** button. Files on the partition are now listed.
 - Enlargement with the **D.ZOOM** button and split-screen display are not available when [USB] is selected as the input signal.

4 Use the pointer buttons to select a file, and then press the OK button to project the image.

Press the $[\blacktriangle] / [\nabla]$ buttons to select a file.

To view another page, press the $[\blacktriangleleft] / [\blacktriangleright]$ buttons (if other pages are available). To navigate to a higher or lower folder, select a folder and press the **OK** button.

Motion blur reduction is not available when projecting JPEG files on a USB flash drive. (P114)



5 Switch to other images as needed.

-7

To switch to the previous image, press the [] button.

To switch to the next image, press the [▼] button.

To rotate images left 90°, press the **[**◀] button.

To rotate images right 90°, press the [**>**] button.

6 After projection is finished, remove the USB flash drive.

The projector can also play a slideshow of images on a USB flash drive automatically. (P94)

Split-Screen Display

Two input images can be projected side by side. This is split-screen display. When you activate split-screen display, the current image is shown on the left side, and the new image is shown at right. You can change the source of images shown on each side by pressing the **INPUT** button. However, you cannot specify the same input signal (terminal) as the source for both sides.

- Network and USB input cannot be combined with other types of input for split-screen display.
 - [Zoom] (P149) in the [Install settings] menu is not available in split-screen mode (WUX400ST/WX450ST).

1 Supply two signals to the projector.

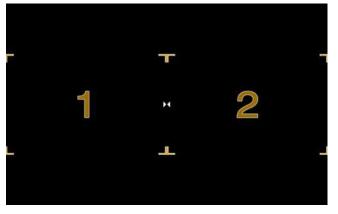
2 Press the SPLIT button on the remote control.



- A number is displayed in the center of one image area. (1 applies to the left image and 2 to the right image.) The image labeled with a number has "control rights," and the sound for that image will be played. This is also the image with control rights if you adjust [Image priority]. (P96)
 - The number is no longer displayed after a little while, but you can view it again by pressing the **SPLIT** button.
 - To exit split-screen display, press the **EXIT** button.
 - Split-screen display can also be accessed by selecting [Split screen] in the [Input settings] menu. (P95)
 - These functions cannot be adjusted in this mode: sharpness (P100), dynamic gamma (P103), and motion blur reduction (P114).
 - Some functions are not available, such as [Image flip H/V] (P146), [Screen aspect] (P148), [Keystone] (P150), and [Logo capture] (P108).
 - Image mode colors differ somewhat from those in single-image mode.

Split-Screen Display

3 If ▷ or ⊲ is displayed in the center of the image area, you can switch control to the other side by pressing the [◄] / [▶] buttons on the remote control.



(Example of display in split-screen mode.)

4 Press the INPUT button to select the input signal for the side with control rights.

The [Input] menu is displayed. To determine which side is currently under control, check the screen ID in orange in the upper right of the menu. The side without control rights is labeled with a white circle.

For details on selecting input signals, refer to "Selecting an Input Signal" (P54).

	Input		
Side currently under – control (input signal can be switched)	tsa HDMI 20 Digital PC 20 Analog PC-1 20 Analog PC-2 ∞ Component	_(1) (2) 	 Current input signal of side with control rights Current input signal of side without control rights

To exit split-screen display, press the **EXIT** button on the remote control.

Setting Functions from Menus

	Before Use
0	Projecting an Image
peration	Useful Functions Available During a Presentation
	Setting Functions from Menus
Installation	Installation
stallation and Maintenance	Connecting to a Network
enance	Maintenance
Networke	Networked Multi-Projection Overview
d Multi-Proj	Operation in Each Mode
ojection	Functions in All Modes
Appe	Other Information
hdix	Index

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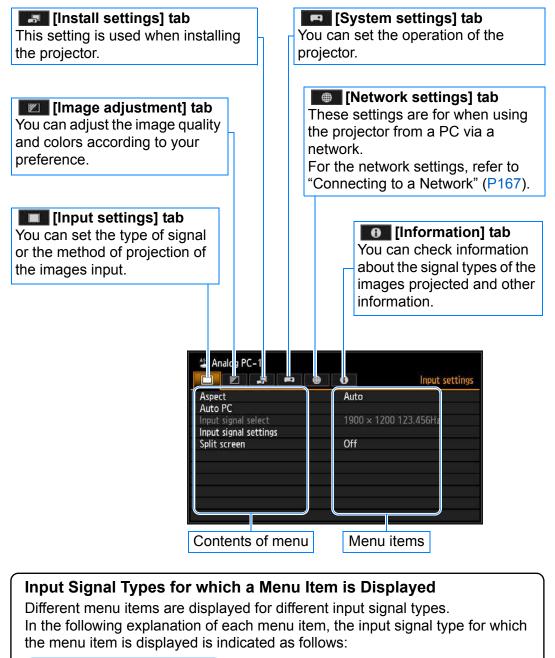
Safety Instructions

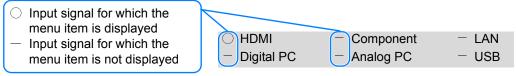
Using Menus

Use the menus to set the operation of the projector in detail.

Menu Configuration

The menu screen is divided into 6 tabs as shown below.

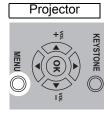


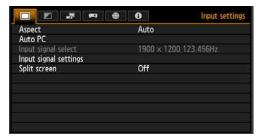


Basic Menu Operations

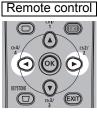
1 Press the MENU button to display the menu window.







2 Press the $[\blacktriangleleft] / [\blacktriangleright]$ buttons to select a tab.



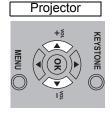
Projector	
MENU O	

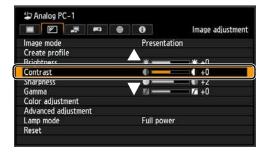
	• •	Image adjustmen
Image mode	Presentat	tion
Create profile		
Brightness	*—	* + 0
Contrast	•—	
Sharpness	• —	
Gamma	<u> 14 — </u>	
Color adjustment		
Advanced adjustment		
Lamp mode	Full powe	er
Reset		

 If the tab position is not highlighted in orange, press the [▲] / [▼] buttons to move the current selection to the top.

3 Press the [▲] / [▼] buttons to select an item.







Δ Select contents.

How to select the contents varies depending on the item.

Selecting from a list Example: Aspect (P87)

- 1. Select [Aspect].
- 2. Press the **OK** button or [**>**] button to display a list of the contents.
- 3. Use the [▲] / [▼] buttons to select the desired contents.
- 4. When you have found the contents you desired, press the OK button or [▶].

Adjusting with the [4] / [▶] buttons Example: Contrast (P99)

- 1. Select [Contrast].
- 2. Use the [◀] / [▶] buttons to adjust the setting.

Selecting from a different screen (1) Example: Menu position (P154)

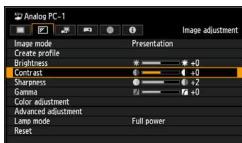
- 1. Select [Menu position].
- 2. Press the **OK** button to display a different screen.
- 3. Then follow the instruction on the screen.

Selecting from a different screen (2) Example: Tracking (P89)

Input signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

- 1. Select [Input signal settings].
- 2. Press the **OK** button to display a different screen.
- 3. Select [Tracking].
- 4. Use the [A] / [V] buttons to select the setting, then use the [A] / [V] buttons to select the value.
- 5. When you have completed the settings, press the **OK** button.
- **5** Pressing the MENU button causes the menu screen to disappear. The menu screen will also disappear if the EXIT button is pressed.

Menu posit Use the p ter button to set menu positi Press OK to close. **۰**۲ 1





Setting Display Status (Input Settings)

Selecting the Aspect

> [Input settings] > [Aspect]

	○ Component	\bigcirc LAN
○ Digital PC	O Analog PC	⊖ USB

You can select a projection mode corresponding to the aspect ratio of the image. (P66)

	• •	Input setting
Aspect	► Auto	
Auto PC	16:10	
Input signal select	16:9	
Input signal settings	4:3	
Split screen	True size	

- · For LAN and USB input, [Auto] is selected automatically.
- · Different contents are displayed for different screen aspects or input signal types.
- The **ASPECT** button on the remote control can also be used to select the [Aspect] settings.

Auto	An image is projected at the aspect ratio of the input signal. Select this mode for normal image projection.
16:10	The image is projected using an input signal aspect ratio of 16:10.
	 There may be some cases when this cannot be selected, depending on the input signal and/or resolution.
16:9	The image is projected using an input signal aspect ratio of 16:9. Select this if an image of 16:9 aspect ratio cannot be correctly projected in [Auto] mode.
4:3	The image is projected using an input signal aspect ratio of 4:3. Select this if an image of 4:3 aspect ratio cannot be correctly projected in [Auto] mode.
Zoom	This cuts the upper/lower or left/ right part of the screen according to the screen aspect and zooms in or out of the center of the image. Select this if a letter box is displayed (black lines at the top/ bottom of the screen) when watching video.
	• There may be some cases when this cannot be selected, depending on the input signal and/or resolution.
True size	The image is projected with the original resolution of the input signal. Select this for clear projection of computer screens at up to WUXGA (WUX450/ WUX400ST) or WXGA+ (WX520/ WX450ST) resolution.
	 There may be some cases when this cannot be selected, depending on the input signal and/or resolution.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

Setup Using Auto PC

> [Input settings] > [Auto PC]

- HDMI	 Component 	— LAN
 Digital PC 	O Analog PC	– USB

Automatically adjusts display position misalignment and screen flickering. The adjusted result is stored in the memory.

	• •	Input setting
Aspect	Auto	
Auto PC		
Input signal select	1900 × 120	0 60.0000Hz
Input signal settings		
Split screen	Off	

Press the **OK** button to accept your setting.

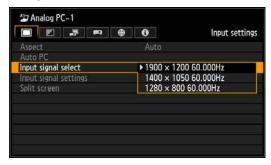
- If the Auto PC adjustment is insufficient, perform the following operations.
 - Select the input signal that matches the resolution of the computer from [Input signal select]. (P88)
 - If adjustment is insufficient even when using the above operation, adjust [Total dots], [Tracking], [Horizontal/Vertical position] and [Horizontal/Vertical pixels] in [Input signal settings]. (P89 - P91)
 - For the signal types supported by the projector, see the table on page 292.

Selecting an Input Signal

[Input settings] > [Input signal select]

- HDMI	 Component 	- LAN
 Digital PC 	O Analog PC	– USB

You can select a suitable resolution if the auto PC adjustment function (P57) cannot project the correct image from a computer.



Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button. Select an input signal corresponding to the resolution of the computer.

• For the signal types supported by the projector, see the table on page 292.

Adjusting the Input Signal (Total dots)

> [Input settings] > [Input signal] settings] > [Total dots]

– HDMI	 Component 	- LAN
 Digital PC 	O Analog PC	– USB

You can adjust the total number of dots in the horizontal direction. Adjust it when stripes are displayed on the screen.

iput signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

Use the [4] / [>] buttons to select a value.

When you have completed the adjustment, press the OK button to accept your setting and then press the MENU button or EXIT button.

· Perform this adjustment if the Auto PC function (P57) cannot adjust the projected image correctly.

Adjusting the Input Signal (Tracking)

> [Input settings] > [Input signal settings] > [Tracking]

- HDMI	 Component 	– LAN
 Digital PC 	O Analog PC	– USB

You can fine-tune the timing for generating an image from the image signal.

Adjusts the tracking when the image distorts or flickers.

nput signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

Use the [] / [] buttons to select a value.

When you have completed the adjustment, press the OK button to accept your setting and then press the MENU button or EXIT button.

· Perform this adjustment if the Auto PC function (P57) cannot adjust the projected image correctly.

Adjusting the Input Signal

(Horizontal position)

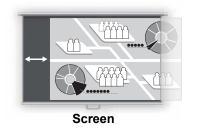
[Input settings] > [Input signal settings] > [Horizontal position]

- HDMI	 Component 	- LAN
 Digital PC 	O Analog PC	– USB

You can adjust the horizontal position of the screen when the projected image is shifted in the horizontal direction.

nput signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

Use the $[\blacktriangleleft] / [\triangleright]$ buttons to select a value. As the value increases, the screen moves to the left.



When you have completed the adjustment, press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

 Perform this adjustment if the Auto PC function (P57) cannot adjust the projected image correctly.

Adjusting the Input Signal

(Vertical Position)

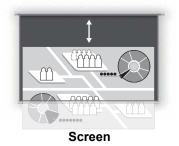
[Input settings] > [Input signal settings] > [Vertical position]

- HDMI	 Component 	— LAN
 Digital PC 	O Analog PC	– USB

You can adjust the vertical position of the screen when the projected image is shifted in the vertical direction.

iput signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

Use the $[\blacktriangleleft] / [\triangleright]$ buttons to select a value. As the value increases, the screen moves upward.



When you have completed the adjustment, press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

 Perform this adjustment if the Auto PC function (P57) cannot adjust the projected image correctly.

Adjusting the Input Signal (Horizontal pixels)

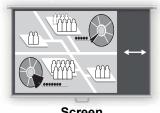
> [Input settings] > [Input signal] settings] > [Horizontal pixels]

– HDMI	 Component 	— LAN
- Digital PC	O Analog PC	– USB

You can adjust the number of the pixels in the horizontal direction if the length of the screen is too long or too short in the horizontal direction.

nput signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

Use the [4] / [>] buttons to select a value.



Screen

When you have completed the adjustment, press the OK button to accept your setting and then press the MENU button or EXIT button.

· Perform this adjustment if the Auto PC function (P57) cannot adjust the projected image correctly.

Adjusting the Input Signal

(Vertical pixels)

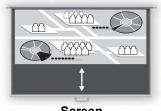
> [Input settings] > [Input signal] settings] > [Vertical pixels]

- HDMI	 Component 	- LAN
 Digital PC 	O Analog PC	- USB

You can adjust the number of the pixels in the vertical direction if the screen is too long or too short in the vertical direction.

Input signal settings		
Total dots	1904	
Tracking	32	
Horizontal position	376	
Vertical position	31	
Horizontal pixels	1440	
Vertical pixels	900	

Use the [◀] / [▶] buttons to select a value.



Screen

When you have completed the adjustment, press the OK button to accept your setting and then press the MENU button or EXIT button.

· Perform this adjustment if the Auto PC function (P57) cannot adjust the projected image correctly.

Adjusting HDMI Input Level

) >	[Input	settings] >	[HDMI	input	level]
-----	--------	-------------	-------	-------	--------

	 Component 	— LAN
 Digital PC 	 Analog PC 	- USB

You can select this as required when you project visual software using an HDMI signal.

	Input setti
Aspect	Auto
HDMI input level	Auto
HDMI color space	Normal
HDMI over scan	Expanded
Progressive	
Split screen	Off

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Auto] is the factory default.
- You can select this only when the type of signal sent from AV equipment is RGB.
- The signal level is selected automatically in [Auto] mode. (Some AV equipment may not support this.)
- If the HDMI output of your AV equipment allows switching between [Normal] and [Expanded], we recommend you to set [Expanded]. The contrast of images will be improved and dark scenes will be rendered more realistically. In this case, select [Auto] or [Expanded] for [HDMI input level]. For more detailed information, refer to the user's manual for the AV equipment connected to the projector.

Setting the HDMI Color Format

[Input settings] > [HDMI color space]

	 Component 	- LAN
 Digital PC 	 Analog PC 	– USB

Select the color space for the HDMI signal.

	• •	Input setting
Aspect		
HDMI input level	Auto	
HDMI color space	Auto	
HDMI over scan	RGB	
Progressive	YCbCr	
Split screen	Off	
abur selecu	.90	

Auto	Selects the optimal color format for the input HDMI signal.
RGB	Forces the projector to handle the input signal as an RGB signal.
YCbCr	Forces the projector to handle the

input signal as a color difference signal.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• [Auto] is the factory default.

Specifying HDMI Overscan

×	> [Input	settings] >	[HDMI	over	scan]
---	----------	-------------	-------	------	-------

	 Component 	— LAN
 Digital PC 	 Analog PC 	– USB

When projecting images in videos via HDMI, select this setting to trim distorted image edges.

	• •	Input setting
Aspect		
HDMI input level	Auto	
HDMI color space		
HDMI over scan	► Off	
Progressive	On	
Split screen	Off	

- **Off** The entire input signal (100%) is projected. The images projected may be smaller than the full projection screen.
- On Images are projected with distortion at the peripheral section of images trimmed off. (The central 95% of the image is projected.) Note that image edges are trimmed away, based on resolution. In such a case, select [Off].

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

• The factory defaults settings are [On] when [HDMI In] (P115) is set for [Auto] and [Off] when it is set for [Computer].

Specifying Progressive Processing

MENU	>	[Input settings] >	[Progressive]
------	---	--------------------	---------------

	 Component 	– LAN
 Digital PC 	 Analog PC 	– USB

Performs progressive processing optimized for still images in cinematic content or moving images in videos.

	• •	Input setting
Aspect	Auto	
HDMI input level	Auto	
HDMI color space	Auto	
HDMI over scan	Off	
Progressive	Off	
Split screen	▶ Film/auto	
	Video 1	
	Video 2	
	25p/30p(Ps	F)

Off	Does not perform progressive processing.
Film/auto	Suitable for still images or typical moving images. Performs progressive processing for video or cinematic content.
Video 1	Suitable for projecting video with high image quality and relatively slow movement. Performs progressive processing optimized for HD video.
Video 2	Suitable for projecting video with faster movement. Performs progressive processing optimized for fast- moving video.
25p/ 30p(PsF)	Performs progressive processing optimized for 1080 PsF/25 or 1080PsF/30 video (25 or 30 fps, respectively).

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

Setting Display Status (Input Settings)

- [Film/auto] is the factory default.
- Select [Off] when flickers and horizontal lines are noticeable in media that has a lot of fast-moving action.
- Not available during split-screen display.

Specifying the Slideshow Interval

[Input settings] > [Slideshow Interval]

- HDMI	 Component 	- LAN
 Digital PC 	 Analog PC 	\bigcirc USB

You can project images on a USB flash drive automatically, one after another.



Use the [◀] / [▶] buttons to select the interval for switching images (min.:sec.).

	• • •	Input setting
Aspect	Auto	
Slideshow interval	00:20	

Press the **MENU** button or **EXIT** button.

• The factory default is [--:--], which does not switch images automatically.

Specifying Split-Screen Display

MENU >	[Input settings] >	[Split	screen]
--------	-----------------	-----	--------	---------

	 Component 	- LAN
O Digital PC	○ Analog PC	- USB

You can project two input images side by side. (P81)

	• •	Input settings
Aspect		
Auto PC		
Input signal select	1900 × 120	0 123.456Hz
Input signal settings		
Split screen	► Off	
	On	
	Settings	

Off		Exit split-screen mode.		
On		Activa	tes split-screen mode.	
Settings	Split screen	Off On	Specify whether to use split-screen display.	
	Control rights	Left screen Right screen	Select the image to control.	

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button. The image under your control is labeled with a split-screen icon.

- [Off] is the factory default.
- The **SPLIT** button on the remote control can also be used to select the [Split screen] settings.
- If ▷ or < is displayed in the center of the image area, switch control to the other side by pressing the [◄] / [▶] buttons on the remote control.
- When you switch to split-screen display, a dialog box indicates the left and right signals and input status.

95

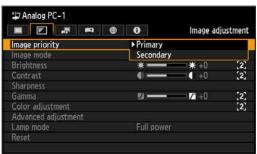
Adjusting Image Quality (Image Adjustment)

Specifying Image Priority in Split-Screen Mode

> [Image adjustment] > [Image priority]

	 Component 	- LAN
O Digital PC	O Analog PC	- USB

Some image processing in splitscreen mode is applied to both sides. Here, select which side to use as the primary side, which will be the basis for secondary-side processing.



Primary	Selecting [Primary] will prevent you from reverting to [Secondary]. Switch control to the other side, and then select [Primary] again.
Secondary	Sets the current side (with

control rights) as the secondary side.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

Some image adjustment settings in split-screen mode apply to the left and right sides independently. For others, the setting for the [Primary] side is also applied to the [Secondary] side.

Can be independently configured

Brightness (P99), Contrast (P99), Gamma (P100), Color adjustment (P101), Fine-Tune Gamma (P105)

[Primary] setting also applies to [Secondary]

Image Mode (P97), Advanced adjustment (except Fine-Tune Gamma) (P102-P106), Lamp mode (P107)

Specifying the Image Mode

MENU > [Image	adjustment]	>	[Image	mode]
----------	-------	-------------	---	--------	-------

	 Component 	\bigcirc LAN
O Digital PC	\bigcirc Analog PC	\bigcirc USB

You can select an image mode (P71) suitable for the projected image. You can also select it with the IMAGE button on the remote control. (P72)

	🕀 🕕 Image a	adjustmen
Image mode	Standard	
Create profile	Presentation	
Brightness	Photo/sRGB	
Contrast	User 1	
Sharpness	User 2	
Gamma	User 3	
Color adjustment	User 4	
Advanced adjustment	User 5	
Lamp mode	Full power	

Standard	Suitable for projecting a
	computer screen or watching
	video in a brightish room.
	This image mode emphasizes
	white tones.
Presenta-	Suitable for viewing text-based
tion	images in a brightish room.
Dynamic	Suitable for watching video in
	a brightish room.
Video	Suitable for watching video
	taken with a video camera in a
	moderately dark room.
Photo/	Suitable for projecting images
sRGB	taken with a digital camera
	that supports sRGB in a
	moderately dark room.
	Compatible with the sRGB
	color space.
User 1–5	Up to 5 user-selected
	combinations of image quality
	settings can be stored in the
	memory. (P98) Stored settings
	can be selected as an image
	mode.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

- [Standard] is the factory default for Analog PC-1 or 2, Digital PC, or HDMI (when [HDMI In] is [Computer]), LAN or USB, and [Photo/sRGB] is the default for HDMI (when [HDMI In] is [Auto]) or Component.
- You can adjust the image quality by adjusting the following items in each image mode:

[Brightness], [Contrast], [Sharpness], [Gamma], [Color adjustment], [Advanced adjustment] and [Lamp mode]

- The adjustment you have made is stored as each combination of input signals and an image mode.
- · When a user memory that was saved in [Create profile] is selected, [Baseline image mode] appears in the menu. This indicates the image mode that was the base when the user memory was saved.

II 🖉 📑 🛤	🖶 🕕 İmage adjustme	ent
Image mode	Presentation	
Create profile		
Brightness	* * +0	
Contrast		
Sharpness	• —— • +2	
Gamma	⊠/ ─── / / +0	
Color adjustment		
Advanced adjustment		
Lamp mode	Full power	
Reset		

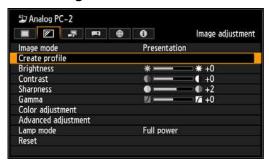
	🖷 🛛 🛛 🖉 🖶 🕘 🖶 🕘
Image mode	User 1
Baseline image mode	Presentation
Brighticas	* +0
Contrast	
Sharpness	• —— • +2
Gamma	M M +0
Color adjustment	
Advanced adjustment	
Lamp mode	Full power
Reset	

Creating/Saving a User Profile

> [Image adjustment] > [Create
profile]

	 Component 	- LAN
O Digital PC	O Analog PC	- USB

Up to 5 combinations of image quality settings can be stored. The stored image quality can be selected as an image mode.



Use the $[\blacktriangle] / [\heartsuit]$ buttons and select the save destination. (Saved memories are indicated by checkmarks.)

Create proi	file
	Copying the image mode. Specify destination.
User 1	
User 2	
User 3	
User 4	
User 5	
Return	

When the desired save destination is selected, press the **OK** button to accept your setting and then press [Return].

• The saved settings consist of the brightness, contrast, sharpness, gamma, color adjustment, advanced adjustment, and lamp mode.

- The number of displayed user memories is 5, however it is possible to save different settings for when the connected equipment is a computer (ANALOG PC, DIGITAL PC or HDMI (when [HDMI In] (P115) is [Computer]) and when AV equipment is connected (COMPONENT, HDMI (when [HDMI In] (P115) is [Auto])). As a result, it is possible to save up to 10 settings.
- The image mode name which was the basis for the settings change is also saved in the user memory. When a user memory is selected as the image mode, the image mode that was the base for that user memory is displayed in the menu as [Baseline image mode].

Adjusting Brightness

> [Image a	djustment] > [Brig	ghtness]
	○ Component	⊖ LAN
O Digital PC	O Analog PC	⊖ USB

You can adjust the brightness of images.

	• •	Image adjustmen
Image mode	Presenta	ation
Create profile		
Brightness	*	• * +0
Contrast		
Sharpness	•—	- • +2
Gamma	<u>14</u>	• 7 +0
Color adjustment		
Advanced adjustment		
Lamp mode	Full pow	er
Reset		

Increases the brightness of an image.

Decreases the brightness of an image.

When you have completed the adjustment, press the MENU or EXIT button.

 The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.

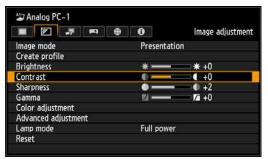
Adjusting Contrast

> [Image adjustment] > [Contrast]

	 Component 	\bigcirc LAN
O Digital PC	\bigcirc Analog PC	\bigcirc USB

You can adjust the contrast of images.

Adjust the difference between the light and dark parts of the image to produce an image with emphasized contrast or an image that is soft.



- Increases the contrast of an image. This emphasizes the darker and brighter parts of the image on the projected image.
- Decreases the contrast of an image. The image becomes less vivid.

When you have completed the adjustment, press the MENU or EXIT button.

 The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.

Adjusting Sharpness

> [Image a	djustment] > [Sha	irpness]
	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	

You can adjust the sharpness of images.

	• •	lmage adjustmen
lmage mode	Present	ation
Create profile		
Brightness	*—	= * +0
Contrast		
Sharpness		 () +2
Gamma	<u> 2</u>	
Color adjustment		
Advanced adjustment		
Lamp mode	Full pov	ver
Reset		

[▶] Increases the sharpness of an image.

[**I**] Decreases the sharpness of an image.

When you have completed the adjustment, press the **MENU** or **EXIT** button.

• The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.

Correcting Gamma

> [Image adjustment] > [Gamma]

HDMI	○ Component	\bigcirc LAN
Digital PC	O Analog PC	\bigcirc USB

You can correct portions of an image that are difficult to see because they are too dark or bright.

Gamma can be corrected using the GAMMA button on the remote control.

	🖶 🕕 Image adjustmer
lmage mode	Presentation
Create profile	
Brightness	* * +0
Contrast	+0
Sharpness	• —— • +2
Gamma	🜌 👥 🔽 +0
Color adjustment	
Advanced adjustment	
Lamp mode	Full power
Reset	

[**b**] Brightens the dark portion.

[◀] Darkens the bright portion.

When you have completed the adjustment, press the **MENU** or **EXIT** button.

- The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.
- More detailed adjustment is possible by using the detailed gamma correction (P105).

Adjusting Colors

[Image adjustment] > [Color adjustment]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

You can adjust the color depth and hue of images for each primary color, red, green and blue. The color temperature can also be adjusted.

Color level	*+0
Color balance	Image: A state of the state
Color temperature	🔴 🗕 🚽 +0
R Gain	() ——— () +0
5 Gain	+0
3 Gain	+0
R Offset	💥 🧩 +0
3 Offset	*+0
B Offset	*+0

<u> </u>		
Color level	Adjusts the intensity of colors.	
	[▶] Increases the intensity of	
	color.	
	[4] Decreases the intensity of	
	color.	
Color	Adjusts the color balance of a	
balance	purplish or greenish image.	
	[▶] Corrects a purplish image.	
	[4] Corrects a greenish	
	image.	
Color	Adjusts the color temperature	
temperature	of the image.	
	[▶] Changes to a bluish color	
	(cold color).	
	[4] Changes to a reddish	
	color (warm color).	
R/G/B	Adjusts the intensity of each	
Gain	color.	
	[▶] Increases the color	
	intensity.	
	[4] Decreases the color	
	intensity.	
R/G/B	Adjusts the color	
Offset	reproducibility of dark portions	
	of each color.	
	[▶] Increases the color	
	reproducibility.	
	[4] Decreases the color	
	reproducibility.	
	. ,	

When you have completed the adjustment, press the **MENU** or **EXIT** button.

• The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.

Adjusting to the Ambient Light (Ambient Light)

[Image adjustment] > [Advanced adjustment] > [Ambient light]

	 Component 	— LAN
O Digital PC	O Analog PC	– USB

You can correct and more effectively project an image according to the ambient light on the screen. The [Ambient light] setting is available in Photo/sRGB image mode (P97).

Ambient light	▶ Off	
Noise reduction	Adjust	
Dynamic gamma	Off	
Mem. color correct		
6-axis color adjust	Off	
Fine-Tune Gamma		
	Off	
Return		

Off	Projects an image with no correction.	
Adjust	You can specify the type and level (brightness) of the ambient light.	
	Ambient light Type Level Return	Fluorescent H
Туре	Tungsi	Select this if the ambient light source is a light bulb or bulb color fluorescent.
	Ambient light Type Level Return	Tungsten ▶ Fluorescent
Level	L	Select this if the ambient light is normal.
	Н	Select this if the ambient light is high (bright).
	Ambient light Type Level Return	: Fluorescent ↓ ▶H

Examples of Ambient Light Level Settings

Level	Example Location
L	Projection room, sports bar, etc.
Н	Conference room, lecture room

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• [Off] is the factory default.

Reducing Image Noise

(Noise reduction)

> [Image adjustment] > [Advanced] adjustment] > [Noise reduction]

	 Component 	- LAN
O Digital PC	O Analog PC	– USB

You can reduce image noise.

Noise reduction Dynamic gamma Mem. color correct 6-axis color adjust Fine-Tune Gamma	► Off Weak Middle Strong	
rine-rune Gamma Iris Return	Off	

Off Disables noise reduction.

Weak Specifies the intensity of the noise Middle reduction in three steps. Strong

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

- The factory default for HDMI (when [HDMI In] (P115) is set to [Auto]) is [Off] and when Component is used, it is set to [Weak].
- Image resolution may seem lower when noise reduction is applied.
- · Select [Weak] for fast-moving images. Select [Strong] for slow-moving images.
- The adjustment you have made is stored as adjusted values for the input signals and image mode of the current projection.
- When [HDMI In] (P115) is [Computer], this setting is not displayed.

Dynamic Gamma Adjustment

> [Image adjustment] > [Advanced] adjustment] > [Dynamic gamma]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

You can adjust the gradation representation of light and dark portions of an image automatically.

Noise reduction	Off	
Dynamic gamma	▶ Off	
Mem. color correct	Weak	
6-axis color adjust	Middle	
Fine-Tune Gamma	Strong	
	Off	

Off	Dynamic gamma is disabled.
Weak Middle Strong	Specifies the intensity of the dynamic gamma in three steps.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

- The factory default settings are [Off] when the connected equipment is a Computer (ANALOG PC, DIGITAL PC, HDMI (when [HDMI In] (P115) is [Computer])) and [Weak] when the connected equipment is AV equipment (COMPONENT, HDMI (when [HDMI In] (P115) is [Auto])).
- · The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.

Correcting Memory Color

[Image adjustment] > [Advanced adjustment] > [Mem. color correct]

	 Component 	\bigcirc LAN
○ Digital PC	\bigcirc Analog PC	⊖ USB

Enhances skin tones, blue skies, and greens, so that these colors are more consistent with people's remembered impressions.

Mem. color correct		
Flesh	Off	
Sky	Off	
Green	Off	
Return		

FleshSpecifies the intensity ofSkyenhancement: [Off], [Weak],Green[Middle], or [Strong]. Set to [Off] to
disable enhancement.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- The factory default settings are as follows.
 - For HDMI (when [HDMI In] (P115) is set to [Computer]), Digital PC, Analog PC, USB, or LAN, the default setting is [Off].
 - For HDMI (when [HDMI In] (P115) is set to [Auto]) and Component, the default setting is [Weak], regardless of the image mode.
- The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.

Fine-Tuning Colors (6-axis Color Adjustment)

[Image adjustment] > [Advanced adjustment] > [6-axis color adjust]

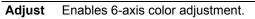
	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	

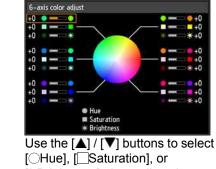
You can make fine adjustments to the image colors with RGB (red, green, blue) and CMY (cyan, magenta, yellow).

Noise reduction	Off	
Dynamic gamma	Off	
Mem, color correct		
6-axis color adjust	► Off	
Fine-Tune Gamma	Adjust	
Iris	Reset	
Return	a second and a second se	



Disables 6-axis color adjustment. If you select [Adjust], the previous setting of 6-axis color adjustment becomes active again.





[○Hue], [_Saturation], or [* Brightness], then adjust them with the [◀] / [▶] buttons. When color adjustments are completed, press the **OK** button.

Reset Returns all adjustment values to zero.

When you have completed the adjustment, press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Off] is the factory default.
- · The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.
- Adjustment is not shown on the projected menu screen itself.

Fine-Tuning Gamma

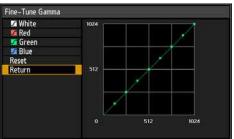
> [Image adjustment] > [Advanced] adjustment] > [Fine-Tune Gamma]

	O Component	\bigcirc LAN
O Digital PC	O Analog PC	

The four gamma curves (white, red, green, blue) can be adjusted. Red, green, and blue can be adjusted separately. Adjustments to white are also applied to the three other colors. Note that adjusting any color will overwrite previous adjustments.

Noise reduction	Off	
Dynamic gamma	Off	
Mem. color correct		
6-axis color adjust	Off	
Fine-Tune Gamma		
lris	Off	
Return		

Select [Fine-Tune Gamma] then press the OK button. The following [Fine-Tune Gamma] screen for confirmation appears.



Use the [▲] / [▼] buttons to select the color, then press the **OK** button. Next, use the [] / [] buttons to select a point on the gamma curve, and use the [▲] / [▼] buttons to adjust the position of the point. When you have completed the adjustment, press the **OK** button to accept your setting and then press the MENU button or EXIT button.

Adjusting Image Quality (Image Adjustment)

- The adjustments you have made are stored as adjusted values for the input signals and image mode of the current projection.
- For details of gamma correction, refer to page 100.
- RGB offset (relative to 0) can be adjusted by using the R/G/B Offset function ("Adjusting Colors" (P101)).
- Adjustment is not applied to the projected menu itself. Perform adjustment using input signals or a built-in test pattern.

Controlling Contrast (Iris)

[Image adjustment] > [Advanced adjustment] > [Iris]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	

You can control image contrast by opening or closing the iris.

Advanced a	djustment		
Noise red	uction Of	f	
Dynamic g	amma Of	f	
Mem. colo	or correct		
6-axis co	lor adjust Of		
Fine-Tune	Gamma		
Iris	▶ Of	f	
Return	On		
Off	•	Keeps the iris fully open. Emphasizes brightness over contrast.	

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Off] is the factory default.
- The adjustment you have made is stored as adjusted values for the input signals and image mode of the current projection.

Specifying the Lamp Mode

) NENU	[Image	adjustment] >	[Lamp mode]
--------	--------	---------------	-------------

	 Component 	\bigcirc LAN
○ Digital PC	\bigcirc Analog PC	⊖ USB

Reducing the lamp brightness reduces power consumption and cooling fan noise.

You can access the [Lamp mode] menu by pressing the ECO button on the remote control.



Full	Projects images at full	
power	brightness.	
Power saver	Reduces lamp brightness to save energy.	

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

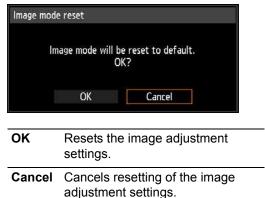
- The factory default is [Full power].
- · The adjustment you have made is stored as adjusted values for the input signals and image mode of the current projection.

Resetting Image Adjustment Settings

MENU	>	[Image	adjustment] >	> [Reset]
------	---	--------	---------------	-----	--------

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	\bigcirc USB

You can reset the current image adjustment settings to the default settings. If reset is performed when user setting 1-5 is selected for [Image mode], the settings are returned to the settings that were saved in [User 1-5].



Only the setting for the combination of input signal and image mode for the current projection is reset.

Customizing System Operation (System Settings)

Registering User Logos

System settings] > [User screen settings] > [Logo capture]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

Registers the current image as a user logo. Registered user logos can be shown when no signal is received, when the BLANK button is pressed, or as the startup image.

User screen settings	
Logo capture	
Logo position	Center
No signal screen	Blue
Screen when blank	Black
Projector on	Canon logo
Return	EN11-000522017
F	
This captures the in as a logo.	mage in the frame
ОК	Cancel

- **OK** Display the image for logo registration. Align the image with the red boundary lines indicating the portion that will be stored, and then press the **OK** button. The portion of the image within the boundary lines is now registered.
- Cancel Cancels logo registration.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

Positioning User Logos

System settings] > [User screen settings] > [Logo position]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

Specify the position of registered user logos as follows.

lser screen settings		
Logo capture	24.92	
Logo position	Upper L	
No signal screen	Upper R	
Screen when blank	▶Center	
Projector on	Lower L	
Return	Lower R	

Upper L

Upper R	
Center	 Indicates the display position for user logos.
	- 0

Lower L

Lower R

- · The factory default is [Center].
- You can specify the position after a logo has been registered.

No Signal Screen

> [System settings] > [User screen settings] > [No signal screen]

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

As the image projected when there is no input signal, you can choose a black, blue, or registered user screen.

ser screen settings		
Logo capture		
Logo position	Center	
No signal screen	Black	
Screen when blank	▶Blue	
Projector on	User logo	
Return	and the second sec	

Black The screen is all black.

Blue	The screen is all blue.	

User logo The user logo is projected.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

• [Blue] is the factory default.

Screen When Blank

>[System settings] > [User screen] settings] > [Screen when blank]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

You can project a black, blue, or registered user screen to blank out projection temporarily by pressing the BLANK button on the remote control.

User screen setting	2	
Logo capture		
Logo position	Center	
No signal screen	Blue	
Screen when blan	k ▶Black	
Projector on	Blue	1
Return	User logo	

DIACK	The screen is all black.
Blue	The screen is all blue.
User logo	The user logo is projected.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

• [Black] is the factory default.

Selecting a Logo at Startup

System settings] > [User screen settings] > [Projector on]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

You can display a specified logo on the screen from the moment the projector is turned on to the moment it is ready for projection.

ser screen settings		
Logo capture		
Logo position	Center	
No signal screen	Blue	
Screen when blank	Skip	
Projector on	Canon logo	
Return	User logo	

Skip	Projects an input signal immediately after turning on the projector.
Canon logo	Displays the Canon logo that was registered in advance at the factory.
User logo	The user logo is projected.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- · [Canon logo] is the factory default.
- Only images with an aspect of 16:10 can be registered as user logos.

Specifying Auto Power-Off

System settings] > [Auto poweroff]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

You can turn off the lamp or projector automatically in order to save power when the projector is not in use.

	0	System settings
User screen settings Auto power-off	5 min.	Ì
Direct power on	10 min.	
Beep	▶ 15 min.	
Key repeat	20 min.	
Key lock	30 min.	
Remote control channel	60 min.	
Motion blur reduction	Disabled	
HDMI In	Auto	
Language	English	
Other settings		

5 min.–	If the selected time elapses
60 min.	without any input signal, the
	projector displays the
	countdown of the time until the
	projector will be turned off.



Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [15 min.] is the factory default.
- You cannot enable the [Direct power on] function (see the next item), if you select [Disabled].

Specifying Direct Power-On

System settings] > [Direct power on]

	○ Component	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

You can turn on the projector by connecting the power cable without pressing the POWER button.

Analog PC-1	0	System settings
User screen settings		
Auto power-off	15 min.	
Direct power on	► Off	
Beep	On	
Key repeat	Оп	
Key lock	Off	
Remote control channel	Independent	
Motion blur reduction	Off	
HDMI In	Auto	
Language		
Other settings		

- **Off** You need to press the **POWER** button to turn on the projector.
- **On** You can turn on the projector by connecting the power cable only.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Off] is the factory default.
 - Before enabling direct power on, be sure to set [Auto power-off] to an option other than [Disabled].
 Selecting [Disabled] will prevent you from using auto power-off.
 - After turning off the projector, wait at least 5 minutes before turning it on again. It may shorten the lamp life if you turn on the projector immediately after turning it off.

Specifying Silence or Operating Tones

menu >	[System	settings] >	[Beep]
--------	---------	-------------	--------

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

You can select whether a beep sounds or not when you operate the projector.

	• •	System setting
User screen settings		
Auto power-off	15 min.	
Direct power on	Off	
Веер	Off	
Key repeat	► On	
Key lock	Off	
Remote control channel	Independent	
Motion blur reduction	Off	
HDMI In	Auto	
Language®		
Other settings		

Off Disables the beep.

On Enables the beep.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- The factory default is [On].
- The beep will not sound if you mute the projector sound with the **MUTE** button on the remote control.

Specifying Key Repeat Operation

> [System	n settings] >	[Key repeat]
-----------	---------------	--------------

	○ Component	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

By pressing and holding the button on the projector or the remote control you can operate Key repeat in the same way as when the button is pressed repeatedly.

	0	System setting
User screen settings		
Auto power-off	15 min.	
Direct power on	Off	
Beep	On	
Key repeat	Off	
Key lock	▶ On	
Remote control channel	Independent	
Motion blur reduction	Off	
HDMI In	Auto	
Language	English	

Off	Key repeat is not enabled.
-----	----------------------------

On Key repeat is enabled.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• The factory default is [On].

Locking Projector or Remote Buttons

MENU >	[System	settings] >	[Key	lock]
--------	---------	-------------	------	-------

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	

You can lock the projector to prevent its operation from either the main unit or remote control.

	System settings
User screen settings	
Auto power-off	15 min.
Direct power on	Off
Веер	On
Key repeat	On
Key lock	▶ Off
Remote control channel	Main unit
Motion blur reduction	Remote (wireless)
HDMI In	Auto
Language	
Other settings	

Off	Disables the key lock.
Main unit	Operation is not possible using the main unit. Use the remote control.
Remote (wireless)	Disables infrared remote control operations (P36). Use buttons on the main unit. Alternatively, use the optional remote control (RS-RC05), connected to the projector via a cable.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

· [Off] is the factory default.

The key lock function becomes effective from the moment the **OK** button is pressed after selecting [Main unit] or [Remote (wireless)]. Control via the item selected will then be disabled.

To Unlock Key Lock Function

Turn off the projector and unplug the power plug. Hold down the **OK** button on the main unit and plug in the power cord, as you continue to hold down the OK button. In a moment, a beep will sound, and the controls will be unlocked.

Assigning a Channel for Remote Control

System settings] > [Remote] control channel]

	 Component 	\bigcirc LAN
○ Digital PC	\bigcirc Analog PC	\bigcirc USB

When using multiple projectors at the same time (maximum 4), you can assign a different channel to each remote control so that each operates independently.

Selecting the Projector Channel

	• •	System setting
User screen settings		
Auto power-off	15 min.	
Direct power on	Off	
Веер	On	
Key repeat	On	
Key lock	Off	
Remote control channel	Ch1	
Motion blur reduction	Ch2	
HDMI In	Ch3	
Language	Ch4	
Other settings	Independer	nt

Ch1	Select the remote control
Ch2	channel to use with this
Ch3	projector.
Ch4	
Independent	Remote controls set to any
	channel can be used.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

- The factory default is [Independent] for both projector and remote control.
- After changing the channel on the menu, be sure to change the channel of the remote control too.
- If a cable is connected, it is not necessary to perform remote control channel setting.

Selecting a Channel on the Remote control

You can change the channel on the remote control as follows.

Ch1	Press and hold the OK button and [▲] button at the same time for 3 seconds.
Ch2	Press and hold the OK button and [>] button at the same time for 3 seconds.
Ch3	Press and hold the OK button and $[\mathbf{V}]$ button at the same time for 3 seconds.
Ch4	Press and hold the OK button and [◀] button at the same time for 3 seconds.
Independent	Press and hold the OK button and button at the same time for 3 seconds.

Reducing Motion Blur

System settings] > [Motion blur reduction]

	 Component 	- LAN
O Digital PC	O Analog PC	- USB

Motion blur is blurring that occurs during video playback. Motion blur reduction can make this blurring less noticeable. This function is available in [Presentation] or [Dynamic] image modes (P97).

Analog PC-1		
	• •	System settings
User screen settings		
Auto power-off	15 min.	
Direct power on	Off	
Beep	On	
Key repeat	On	
Key lock	Off	
Remote control channel	Independer	
Motion blur reduction	► Off	
HDMI In	Оп	
Language	English	
Other settings		

Off Motion blur reduction is not performed.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Off] is the factory default.
- If motion blur reduction generates distracting image noise, select [Off].
- Effects of motion blur reduction cannot be checked during menu display.
- Especially effective for motion of computer graphics and similar high-resolution images.

On Motion blur reduction is performed.

(

Specifying HDMI Input | Selecting a Display

System	i settings] > [HDMI	ln]

MENII

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

Set the type of equipment which is connected to the HDMI port.

0	System setting
15 min.	
Off	
On	
On	
Off	
Independent	
Off	
► Auto	
Computer	
	15 min. Off On Off Independent Off • Auto

Auto	Select when AV equipment will be connected. Image processing, menu displays, and other elements are adjusted for video equipment.
Computer	Select when a computer will be connected. Image processing, menu displays, and other

elements are adjusted for a computer. Press the **OK** button to accept your setting and then press the MENU

• [Auto] is the factory default.

button or **EXIT** button.

Language

MENU	>	[System settings] >	[Language]
------	---	---------------------	------------

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	\bigcirc USB

You can select the language in which the menus are displayed.

	0	System settings
User screen settings		
Auto power-off	15 min.	
Direct power on	Off	
Веер	On	
Key repeat	On	
Key lock	Off	
Remote control channel	Independe	nt
Motion blur reduction	Off	
HDMI In	Auto	
Language	English	
Other settings		

Use the $[\blacktriangle] / [\heartsuit] / [\blacktriangleright] / [\triangleleft]$ buttons to select the menu language, then press the **OK** button.

English	English
German	Deutsch
French	Français
Italian	Italiano
Spanish	Español
Portuguese	Português
Swedish	Svenska
Russian	Русский
Dutch	Nederlands
Finnish	Suomi
Norwegian	Norsk
Turkish	Türkçe
Polish	Polski
Hungarian	Magyar
Czech	Čeština
Danish	Dansk
Arabic	انجليزي
Chinese	中文简体
(Simplified)	ヤス順座
Chinese (Traditional)	中文繁體
(Traditional)	
Korean	한국어
Japanese	日本語

When the setting is completed, press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

Requiring a Password for Operation

[System settings] > [Other settings] > [Password settings]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

Disables the projector unless the correct password is entered.

legister password	Ол
jamma restore	Off
amp counter	
Air filter counter	
irmware	01.000000
actory defaults	
leturn	

- password is entered.
- On The projector cannot be used unless you enter your password.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Off] is the factory default.
- You cannot set [On] unless you have completed [Register password].

Once you set a password, the password entry screen appears at power-on.

Enter a 4 digit password.

Enter the password using the [▲] / [▶] / [▼] / [◀] buttons.

If the password is valid, the projection starts. If you enter a wrong password three times, the power will be turned off.

• The power is also turned off if no password is input for 3 minutes.

To Cancel the Password

Turn off the projector and unplug the power plug.

Hold down the **MENU** button on the side control and connect the power plug. Make sure to keep holding down the **MENU** button until a beep sounds. When the beep sounds, the password is canceled. (The entered password is also reset.)

To forcibly cancel the password from the remote control, in standby state press the MENU button 3 times, then press the **POWER** button.

Setting a Password

> [System settings] > [Other settings] > [Register password]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

You can register a password for starting projection.

Password settings	Off	
Register password		
Gamma restore	Off	
Lamp counter		
Air filter counter		
Firmware	01.000000	
Factory defaults		
Return		

Press the **OK** button after selecting [Register password], and the following screen for registering a password appears.

Register password
Enter new password.
- * * *
Cancel

Enter a 4 digit password.

Enter the password using the [A] / [>] / $[\mathbf{V}] / [\mathbf{A}]$ buttons.

The 4-digit password is entered from the left to right digits. When the final digit is entered, the password is automatically registered.

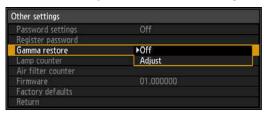
Press the **MENU** button to abort the registration.

Restoring Original Gamma Settings

> [System settings] > [Other settings] > [Gamma restore]

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

This function is used when changing and turning of the tone characteristics and achromatic color is noticed over a long period of time. Gamma restore can only be used when the lamp has been on for approximately 30 minutes or longer.



- Off Returns to the factory default without performing Gamma restore.
- Adjust Performs Gamma restore and applies the result.



Gamma restore is performed.

Cancel Gamma restore is not performed.

- If Gamma restore is performed, the projected image will be adjusted for a period of approximately 150 seconds.
- To stop Gamma restore, press the POWER button or the EXIT button.

If Gamma restore is performed, the tone characteristics and achromatic color will be restored as close as possible to the condition when the projector was purchased, however it is not possible to restore it completely to the original condition. So the changing and turning color cannot be eliminated

completely.

Resetting the Lamp Counter

> [System settings] > [Other settings] > [Lamp counter]

	 Component 	\bigcirc LAN
O Digital PC	\bigcirc Analog PC	⊖ USB

You can reset the lamp counter that indicates the time for lamp replacement.



Do not reset the lamp counter except when you have replaced Caution the lamp. Otherwise, the lamp counter cannot indicate the correct timing for replacing the lamp.

> For details of lamp replacement, refer to page 201.

Password settings	Off	
Register password		
Gamma restore	Off	
Lamp counter		
Air filter counter		
Firmware	01.000000	
Factory defaults		
Return		

Select [Lamp counter] and press the **OK** button to display the lamp counter.

Lamp counter		
	700H	
Rese	Return	

Select [Reset] and press the **OK** button.



Select [Yes] on the screen for confirmation and press the **OK** button to reset the lamp counter.

Press the **MENU** button or **EXIT** button.

About the Display of the Lamp Counter

The lamp counter display is as follows.

Less than 2,700 hours

Displayed as a green bar.



2.700 hours to less than 3,000 hours Displayed as a green and yellow bar.



When the lamp hours are 2,700 hours to less than 3,000 hours, the message "Obtain a new lamp." appears when power is turned on.

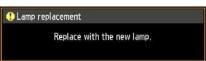


Over 3,000 hours

Displayed as a green, yellow and red bar.



The message "Replace with the new lamp." appears when power is turned on.



- The lamp counter provides an estimate of the time remaining until the lamp must be replaced. This value is based on the hours in use and the present load on the lamp.
 - The number of hours indicated is equivalent to use under these conditions: [Vertical projection] (P152) set to [Off], and [Lamp mode] (P107) set to [Full power].

Resetting the Air Filter Counter

[System settings] > [Other settings] > [Air filter counter]

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	\bigcirc USB

This resets the counter which reminds you of the time for cleaning and replacing the air filter.



For details about how to replace or clean the filter, refer to page 199.

Password settings	Off	
Register password		
Gamma restore	Off	
Lamp counter		
Air filter counter		
Firmware	01.000000	
Factory defaults		
Return		

To view the air filter counter, press the **OK** button when [Air filter counter] is selected.

Air filter counter	27.		
	30	юн	
R	eset	Return	

Select [Reset] and press the OK button.



To reset the air filter counter, select [Yes] on the confirmation screen and press the **OK** button.

Press the **MENU** button or **EXIT** button.

Updating the **Firmware**

> [System settings] > [Other settings] > [Firmware]

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

Use a firmware update program stored on a USB flash drive to update the projector firmware. Download firmware updates from the Canon website and store them at the root directory on the USB flash drive.

Password settings	Off	
Register password		
Gamma restore	Off	
Lamp counter		
Air filter counter		
Firmware	01.000000	
Factory defaults		
Return		

Select [Firmware], press the OK button, and check the firmware version displayed. Selecting [OK] will display an update confirmation screen. To update the firmware, select [Yes].

Firmware updating takes about three minutes. During the update, the LED indicator will flash in red. Do not turn off the projector while the LED is flashing.

Firmware update			
Firmware	e version	correct?	
01.000000	+	01.010000	
Yes		No	

After the update, the projector will automatically turn itself off and enter standby mode.

- In some cases, it may not be
- possible to download the update. If so, contact the Canon Customer Support Center.
 - This firmware version is for illustration only, and the actual number will be different.

Resetting to the **Default Setting**

System settings] > [Other settings] > [Factory defaults]

	○ Component	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

You can reset the menu item settings and restore the system settings to the factory defaults.

Other settings		
Password settings	Off	
Register password		
Gamma restore	Off	
Lamp counter		
Air filter counter		
Firmware	01.000000	
Factory defaults		
Return		

Select [Factory defaults] and press the **OK** button. The following screen for confirmation appears.



Cancel Settings are not reset to default.

- This function does not reset the values for [Lamp counter], [Language], [Remote control], [Input signal], [Network settings], [Air filter counter], [Professional settings] ([Micro-digital image shift], [Registration], [Fan mode], [Vertical projection], and [Edge blending]) and [Create profile].
- · For factory defaults settings, refer to P306 -P313.
- The contents of the user memory return to the conditions at the time it was saved. (P98)

Checking Projector Information

> [Information]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

You can check information about the signal types of the images projected and other information.

	i	Information
Model name	WUX450	
Input signal	1920×1200	
Firmware	01.000000	
Serial no.	0123456	
E-mail sender address		
E-mail recipient address		
Projector name		
Location		
System information ID		

Information shown

ltem	Explanation
Model name	WUX450/WX520/WUX400ST/WX450ST
Input signal	Details of the input signal currently selected Information such as the type, resolution, and frequency of the signal is displayed.
Firmware	Current firmware version
Serial no.	Serial number unique to this projector
E-mail sender address*	Sender e-mail address used for sending error mails (P187)
E-mail recipient address*	Displays [Already set] or [Not set] to show whether a recipient e-mail address has been set for receiving error mails. (P187)
Projector name*	Name which identifies this projector on the network
Location*	Location where the projector is installed
System information ID	System information. Normally this is not displayed.

* Not displayed when network functions are [Off].

MULTIMEDIA PROJECTOR WUX450 WX520 WUX400ST WX450ST Installation and

Maintenance



Request projector installation from a qualified technician, if possible, or contact the Canon Customer Support Center. For ceiling installation in particular, always request installation from a qualified technician or contact the Canon Customer Support Center.

Installation

	Table of Contents
	Safety Instructions
_	Before Use
Q	Projecting an Image
Operation	Useful Functions Available During a Presentation
	Setting Functions from Menus
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n and Mainte	Connecting to a Network
nance	Maintenance
Networked	Networked Multi-Projection Overview
d Multi-Proje	Operation in Each Mode
ection	Functions in All Modes
Appen	Other Information

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Before Installation

Precautions When Carrying/Shipping the Projector

Prepare the projector as described below before carrying it.



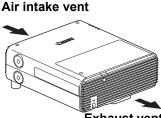
Caution

- Disconnect the cables connected to the projector. Carrying the projector with the cables attached may cause an accident.
- Retract the adjustable feet.
- Do not reuse any packaging or shock-absorbent materials that were supplied with the projector at the time of purchase for transporting or shipping the projector.
 Protection of the projector cannot be guaranteed if used packaging or shock-absorbent materials are reused. Fragments from shock-absorbent material may also enter the interior of the projector which could cause a malfunction.

Precautions for Installation

Be sure to read "Safety Instructions" and "For Safe Use" (P16 – P29). Also take the following precautions during installation.

- Do not strike the projector or subject it to impact. Doing so may cause a malfunction.
- Do not install the projector so that it is inclined or standing vertically. The projector may tip over, causing a malfunction.
 - Do not block the air intake or exhaust vents of the cooling fan. If the intake or exhaust vent is



Exhaust vent

blocked, heat may accumulate inside the projector, causing a malfunction.

Do Not Use in the Following Environments

- Do not install the projector in a location that is damp, or where there is a lot of dust, oily smoke or tobacco smoke. Optical parts such as the lens and mirror may be stained, resulting in poor picture quality.
- Do not install the projector near high-voltage electrical power lines or an electrical power source. The projector may not operate correctly.
- Do not use the projector on a soft surface such as carpet or sponge mat, etc. Heat may accumulate inside the projector, causing a malfunction.
- Do not use the projector in a location that is subject to very high temperatures, very low temperatures, or high levels of humidity. Doing so may cause a malfunction. The temperature and humidity ranges for operation and the temperature range for storage are shown below.

Operating temperature				
0°C (32°F) – 40°C (104°F)	Up to 85%	-20°C (-4°F) – 60°C (140°F)		

Do Not Touch the Lens with Bare Hands

Do not touch the lens with bare hands. Doing so may adversely affect picture quality.

Allow a 30 Min. Warm Up before Focus Adjustment (P59), if Possible

The focus position may not stabilize immediately after startup, due to lamp heat. When adjusting focus, it is also helpful to use the test pattern (10) (P291).

Install at a Sufficient Distance from Walls and Other Obstructions

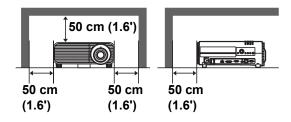


If the air intake or exhaust vent is blocked, heat will accumulate inside the projector, possibly resulting in a shortened projector lifetime or a malfunction. Do not install in a closet, on a bookshelf, or in other narrow spaces with poor ventilation. Install in a wellventilated location. (Ensure a

Air intake vent



minimum clearance of 50 cm (1.6 ft.) above, on both sides, and behind the projector.)



Be Careful of Condensation

If the temperature of the room rises suddenly, moisture in the air may condense on the projector lens and mirror, causing the image to become blurred. Wait until the condensation has evaporated for the image projected to return to normal.

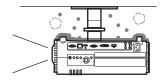
■ At Altitudes above 2,300 m (7,545.8'), Adjust the Settings

Projector settings must be adjusted when using the projector at altitudes of 2,300 m (7,545.8') or higher. Specifically, refer to instructions for [Fan mode] (P152) in the [Install settings] menu.

When Using Mounted on the Ceiling



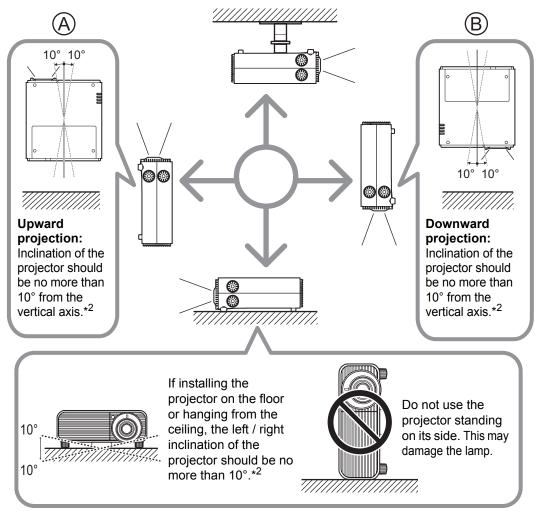
When the projector is used mounted on the ceiling or installed in a high location, it is necessary to periodically clean the air intake and exhaust vents, and the area around the air filter. If dust accumulates in the intake or exhaust vents, cooling performance will deteriorate, causing the internal temperature to rise and possibly resulting in a malfunction or fire. Use a vacuum cleaner or similar means to remove dust from the intake vent and exhaust vent.



Install Facing in the Correct Direction



The projector can be installed facing any direction*¹, as shown below. However, projection upward (A) or downward (B) may shorten the useful life of the lamp. Installation in these orientations also requires projector settings adjustment. Specifically, for upward or downward projection, refer to instructions for [Vertical projection] (P152) in the [Install settings] menu.



- *1 No optional accessories are available for installing the projector in ways other than ceiling installation (P39, P132, P305).
- *2 Failure to do so may damage the lamp.

When installing the projector facing upward or downward, specify which way the projector is facing in [Install settings] > [Professional settings] > [Vertical projection]. (P152)

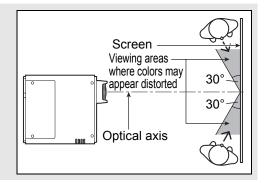
Installation Procedure

Setting Up the Projector

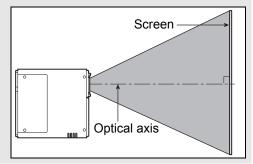
Positioning the Projector in Front of the Screen

Place the projector in front of the screen.

On some screens, colors may appear distorted when images are viewed from the side, but this does not indicate a problem with the projector. For best results, use a matte screen with a wide viewing angle (WUX400ST/WX450ST).



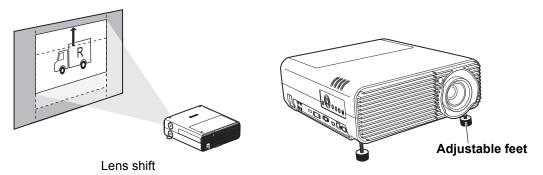
- To avoid keystone distortion, install the projector so that it is at right angles to the screen.
 - The screen must not be exposed to direct sunlight or light from lighting equipment. In a bright room, it is recommended that lights be turned off, curtains be drawn, and other steps taken to make the screen easier to see.



Floor Installation

To adjust the projection position when the projector is installed on the floor, use the lens shift function (P58 and P134) to adjust up / down / left / right. You can also use the adjustable feet to incline the projector upward by up to 6° .

For information about the relationship between screen size and projection distance, refer to page 133.

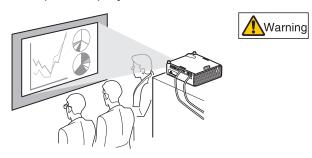


Upward-Tilted Installation

To correct keystone distortion when the projector is tilted upward (using adjustable feet, for example), perform keystone correction (P150) or corner adjustment (P150).

Projection from High Surfaces

For projection from a shelf or other high surface, the projector can be installed upside-down and the projected image inverted. In this case, attach the option feet on top of the projector.

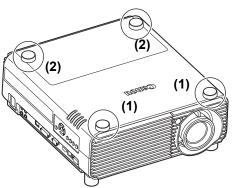


When setting the projector on a high surface for projection, be sure the surface is flat and stable. Failure to do so could result in the projector falling down and causing an accident or personal injury.

Attaching Option Feet (RS-FT01, Sold Separately)

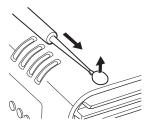
Remove the hole caps and screw the option feet into the holes. The caps are located at four positions on top of the projector. They are removed differently depending on their position.





Removing hole caps labeled (1)

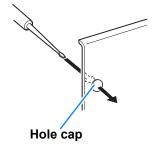
Pry off the caps by inserting a slender tool such as a flat screwdriver in the depression.



Installation Procedure

Removing hole caps labeled (2)

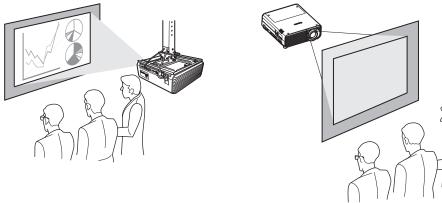
Open the lamp cover and use a screwdriver or similar tool to push off the caps from below.



- Keep the caps in a safe place to avoid losing them.
 The option fact cap be used in conjunction with the
 - The option feet can be used in conjunction with the adjustable feet. When changing the projection position with adjustable feet, you can make the projector more stable by attaching option feet to the two holes toward the back of the bottom surface.

Ceiling Mounting or Rear Projection

You can mount the projector on the ceiling (ceiling mounting) with it turned upside down or place it behind the screen (rear projection) if you use a translucent screen.



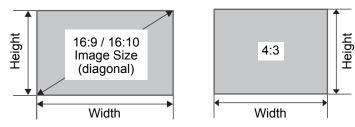
Ceiling mounting

Rear projection

Make sure to use the optional ceiling attachment. For the ceiling attachment, refer to "Option" (P305). For details, refer to the assembly and installation manual provided with the ceiling attachment.

Relationship of Image Size to Projection Distance

The size of projected images is determined by zooming, relative to the distance from the projector to the screen. (Optical zooming on the WUX450/WX520, and electronic zooming on the WUX400ST/WX450ST.) Refer to the following table and decide the distance between the projector and screen.



WUX450/WX520

Projection distance [m (feet)]

Image	WUX450							WX520						
Size	16	:10	16:9		4:3		16:10		16:9		4:3			
(Dia.)	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele		
	limit	limit	limit	limit	limit	limit	limit	limit	limit	limit	limit	limit		
40	1.2 (3.9)	2.2 (7.2)	1.2 (3.9)	2.2 (7.2)	1.4 (4.6)	2.4 (7.9)	1.2 (3.9)	2.2 (7.2)	1.3 (4.3)	2.3 (7.5)	1.4 (4.6)	2.5 (8.2)		
50	1.5 (4.9)	2.7 (8.9)	1.5 (4.9)	2.8 (9.1)	1.7 (5.6)	3.1 (10.2)	1.5 (4.9)	2.8 (9.1)	1.6 (5.2)	2.8 (9.1)	1.7 (5.6)	3.1 (10.2)		
60	1.8 (5.9)	3.2 (10.5)	1.9 (6.2)	3.3 (10.8)	2.0 (6.6)	3.7 (12.1)	1.8 (5.9)	3.3 (10.8)	1.9 (6.2)	3.4 (11.2)	2.1 (6.7)	3.8 (12.5)		
80	2.4 (7.9)	4.3 (14.1)	2.5 (8.2)	4.4 (14.4)	2.7 (8.9)	4.9 (16.1)	2.5 (8.2)	4.4 (14.4)	2.5 (8.2)	4.6 (15.1)	2.8 (9.2)	5.0 (16.4)		
100	3.0 (9.8)	5.4 (17.7)	3.1 (10.2)	5.5 (18)	3.4 (11.2)	6.1 (20)	3.1 (10.1)	5.5 (18.7)	3.2 (10.5)	5.7 (18.7)	3.5 (11.5)	6.3 (20.7)		
150	4.5 (14.8)	8.1 (26.6)	4.6 (15.1)	8.3 (27.2)	5.1 (16.7)	9.2 (30.2)	4.6 (15.1)	8.3 (27.2)	4.7 (15.4)	8.5 (27.9)	5.2 (17.1)	9.4 (30.8)		
200	6.0 (19.7)	10.8 (35.4)	6.2 (20.3)	11.1 (36.4)	6.8 (22.3)	12.2 (40)	6.2 (20.3)	11.1 (36.4)	6.3 (20.7)	11.4 (37.4)	7.0 (23)	12.6 (41.3)		
250	7.5 (24.6)	13.5 (44.3)	7.7 (25.3)	13.9 (45.6)	8.5 (27.9)	15.3 (50.2)	7.7 (25.3)	13.9 (45.56)	7.9 (25.9)	14.2 (46.6)	8.7 (28.5)	15.7 (51.5)		
300	9.0 (29.5)	16.2 (53.1)	9.3 (30.5)	16.6 (54.5)	10.2 (33.5)	18.3 (60)	9.2 (30.2)	16.6 (54.5)	9.5 (31.2)	17.1 (56.1)	10.5 (34.4)	18.8 (61.7)		

WUX400ST/WX450ST

Projection distance [m (feet)]

Image Size		WUX400ST		WX450ST				
(Dia.)	16:10	16:9	4:3	16:10	16:9	4:3		
30	0.35 (1.15)	0.36 (1.18)	0.40 (1.31)	0.36 (1.18)	0.37 (1.21)	0.41 (1.35)		
40	0.47 (1.54)	0.49 (1.61)	0.54 (1.77)	0.49 (1.61)	0.50 (1.64)	0.55 (1.80)		
50	0.60 (1.97)	0.61 (2.00)	0.68 (2.23)	0.61 (2.00)	0.63 (2.07)	0.69 (2.26)		
60	0.72 (2.36)	0.74 (2.43)	0.81 (2.66)	0.74 (2.43)	0.76 (2.49)	0.83 (2.72)		
80	0.96 (3.15)	0.99 (3.25)	1.09 (3.58)	0.98 (3.22)	1.01 (3.31)	1.12 (3.67)		
100	1.20 (3.93)	1.24 (4.07)	1.36 (4.46)	1.23 (4.04)	1.27 (4.17)	1.40 (4.59)		
150	1.81 (5.94)	1.86 (6.10)	2.05 (6.73)	1.86 (6.10)	1.91 (6.27)	2.10 (6.89)		
200	2.42 (7.94)	2.49 (8.17)	2.74 (8.99)	2.48 (8.14)	2.55 (8.37)	2.81 (9.22)		
250	3.03 (9.94)	3.11 (10.20)	3.43 (11.25)	3.10 (10.17)	3.19 (10.47)	3.52 (11.55)		
300	3.64 (11.94)			3.73 (12.24)				



The recommended range for the WUX400ST/WX450ST applies to 50-200 inch images.

Lens Shift Function

You can reposition the image in all directions by turning the lens shift dials on the side of the projector, which moves the lens up, down, left, or right. For instructions, refer to "Lens Shift Control" (P45).

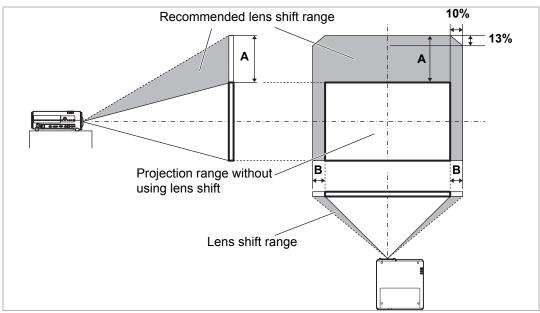
Amount of Lens Shift

The amount of lens shift is indicated as a percentage relative to the image height and width.

The lens shift ranges for each model of projector are as follows.

	WUX450	WX520	WUX400ST	WX450ST
A (Amount of shift up)	+60%	+62%	+75%	+77%
B (Amount of horizontal shift)	±10%	±10%	±10%	±10%

The projector supports vertical and horizontal lens shift. Performance using lens shift is ensured within the recommended range described below. Using lens shift outside of this range may cause problems such as peripheral dimness or lower resolution. In this case, adjust lens shift to within the recommended range.



Maximum upward (A) and horizontal (B) movement using lens shift (reference values, in cm)

WUX450/WX520

Image	WUX450						WX520						
Size	16:10		16:9		4:3		16:10		16:9		4:3		
(Dia.)	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	
40	32 (12.6)	9 (3.5)	30 (11.8)	9 (3.5)	37 (14.6)	8 (3.1)	33 (13.0)	9 (3.5)	31 (12.2)	9 (3.5)	38 (15.0)	8 (3.1)	
60	48 (18.9)	13 (5.1)	45 (17.7)	13 (5.1)	55 (21.7)	12 (4.7)	48 (18.9)	13 (5.1)	45 (17.7)	13 (5.1)	55 (21.7)	12 (4.7)	
80	65 (25.6)	17 (6.7)	60 (23.6)	18 (7.1)	73 (28.7)	16 (6.3)	65 (25.6)	17 (6.7)	60 (23.6)	18 (7.1)	73 (28.7)	16 (6.3)	
100	81 (31.9)	22 (8.7)	75 (29.5)	22 (8.7)	91 (35.8)	20 (7.9)	81 (31.9)	22 (8.7)	75 (29.5)	22 (8.7)	91 (35.8)	20 (7.9)	
150	121 (47.6)	32 (12.6)	112 (44.1)	33 (13.0)	137 (53.9)	30 (11.8)	121 (47.6)	32 (12.6)	112 (44.1)	33 (13.0)	137 (53.9)	30 (11.8)	
200	162 (63.8)	43 (16.9)	149 (58.7)	44 (17.3)	183 (72.0)	41 (16.1)	162 (63.8)	43 (16.9)	149 (58.7)	44 (17.3)	183 (72.0)	41 (16.1)	
250	202 (79.5)	54 (21.3)	187 (73.6)	55 (21.7)	229 (90.2)	51 (20.1)	202 (79.5)	54 (21.3)	187 (73.6)	55 (21.7)	229 (90.2)	51 (20.1)	
300	242 (95.3)	65 (25.6)	224 (88.2)	66 (26.0)	274 (107.9)	61 (24.0)	242 (95.3)	65 (25.6)	224 (88.2)	66 (26.0)	274 (107.9)	61 (24.0)	

WUX400ST/WX450ST

Image	WUX400ST						WX450ST						
Size	16:10		16:9		4:3		16:10		16:9		4:3		
(Dia.)	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	
30	30 (11.8)	6 (2.4)	28 (11.0)	7 (2.8)	34 (13.4)	6 (2.4)	31 (12.2)	6 (2.4)	29 (11.4)	7 (2.8)	35 (13.8)	6 (2.4)	
40	40 (15.6)	9 (3.5)	37 (14.6)	9 (3.5)	46 (18.1)	8 (3.2)	41 (16.1)	9 (3.5)	38 (15.0)	9 (3.5)	47 (18.5)	8 (3.2)	
50	50 (19.7)	11 (4.3)	47 (18.5)	11 (4.3)	57 (22.4)	10 (3.9)	52 (20.5)	11 (4.3)	48 (18.9)	11 (4.3)	59 (23.2)	10 (3.9)	
60	61 (24.0)	13 (5.1)	56 (22.1)	13 (5.1)	69 (27.2)	12 (4.7)	62 (24.4)	13 (5.1)	58 (22.8)	13 (5.1)	70 (27.6)	12 (4.7)	
80	81 (31.9)	17 (6.7)	75 (29.5)	18 (7.1)	91 (35.8)	16 (6.3)	83 (32.7)	17 (6.7)	77 (30.3)	18 (7.1)	94 (37.0)	16 (6.3)	
100	101 (39.8)	22 (8.7)	93 (36.6)	22 (8.7)	114 (44.9)	20 (7.9)	104 (40.9)	22 (8.7)	96 (37.8)	22 (8.7)	117 (46.1)	20 (7.9)	
150	151 (59.5)	32 (12.6)	140 (55.1)	33 (13.0)	171 (67.3)	30 (11.8)	155 (61.0)	32 (12.6)	144 (56.7)	33 (13.0)	176 (69.3)	30 (11.8)	
200	202 (79.5)	43 (16.9)	187 (73.6)	44 (17.3)	229 (90.2)	41 (16.1)	207 (81.5)	43 (16.9)	192 (75.6)	44 (17.3)	235 (92.5)	41 (16.1)	
250	252 (99.2)	54 (21.3)	233 (91.7)	55 (21.7)	286 (112.6)	51 (20.1)	259 (102.0)	54 (21.3)	240 (94.5)	55 (21.7)	293 (115.4)	51 (20.1)	
300	303 (119.3)	65 (25.6)	280 (110.2)	66 (26.0)	343 (135.0)	61 (24.0)	311 (122.4)	65 (25.6)	288 (113.4)	66 (26.0)	352 (138.6)	61 (24.0)	

• (A) values are the approximate vertical lens shift distance from the lowest image -7 position.

• (B) values are the approximate horizontal lens shift distance from the central image position within the range supported for lens shift.

• Watch projected images as you perform lens shift adjustment.

• When the image no longer moves, you have reached the limit of the lens shift range. Do not turn the lens shift dial excessively in one direction, which may damage the projector.

Connection Procedure

to connect equipment

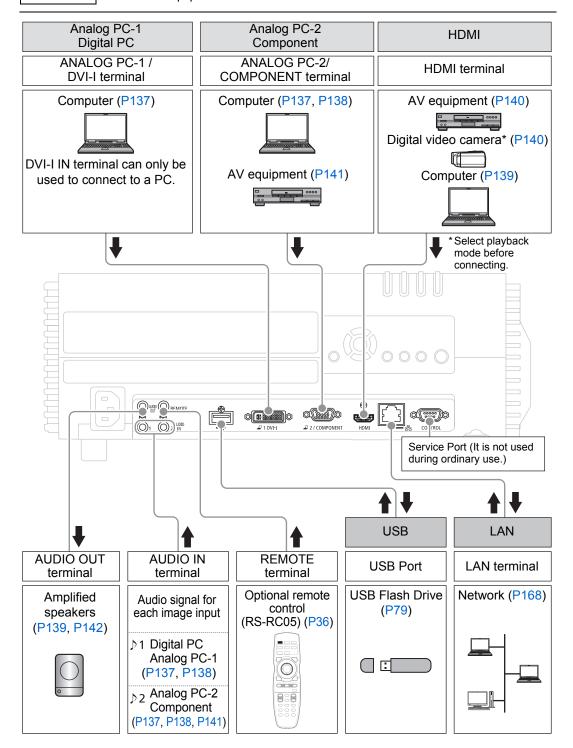
Connectable Equipment and Input Terminals

HDMI HDMI Terminal Use this name to select the image input.

The name of the terminal to which

Direction of signal and data flow

(Pxxx) indicates the page(s) to refer to.



Connecting a Computer

Connect the projector to the computer.

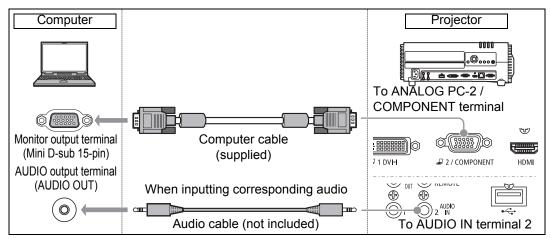
A digital connection (P138) is recommended when projecting an image in high quality.

When using a computer with an HDMI output terminal, a digital connection (P139) can be made using an HDMI cable.

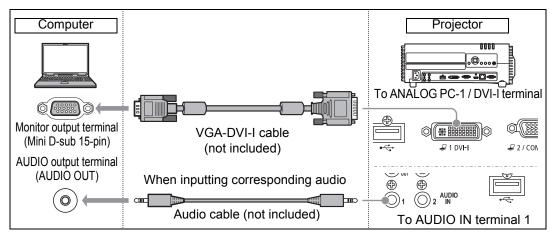
Before connecting the cables, turn off both the projector and computer.

Connecting to RGB Monitor Output Terminal (Analog Connection)

Connecting with a computer cable (Input signal type: [Analog PC-2] P53)



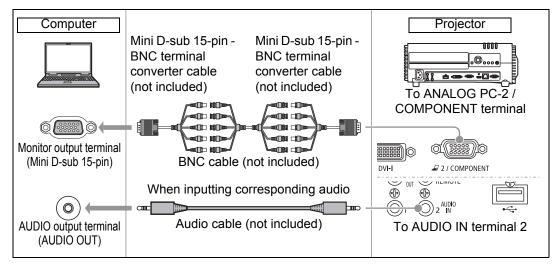
Connecting with VGA-DVI cable (Input signal type: [Analog PC-1] P53)



Connection Procedure

- Use a VGA-DVI-I cable in which all pins are connected. If the cable is a type in which all pins are not connected, the image may not be correctly displayed.
 - Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor will reduce the audio volume.
 - The AUDIO IN terminal can be changed in the Audio in terminal select screen (P153).

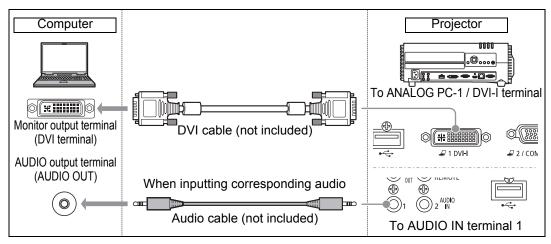
Connecting with a BNC cable (Input signal type: [Analog PC-2] P53)



- A signal with a dot clock higher than 162 MHz cannot be projected.
 - Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor will reduce the audio volume.
 - The AUDIO IN terminal can be changed in the Audio in terminal select screen (P153).

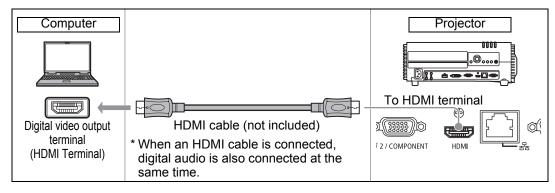
Connecting to DVI Monitor Output Terminal (Digital Connection)

Connecting with a DVI cable (Input signal type: [Digital PC] P53)



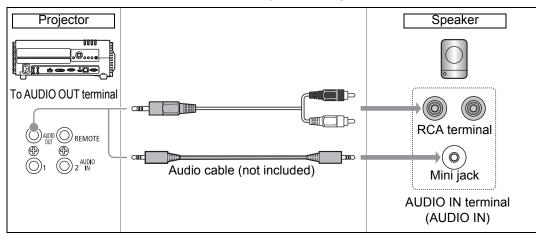
- Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor will reduce the audio volume.
 - The AUDIO IN terminal can be changed in the Audio in terminal select screen (P153).

Connecting with an HDMI cable (Input signal type: [HDMI] P53)



Outputting Audio to Speakers

It is possible to output audio from the projected images to amplified speakers.



• Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor will reduce the audio volume.

139

Connecting AV Equipment

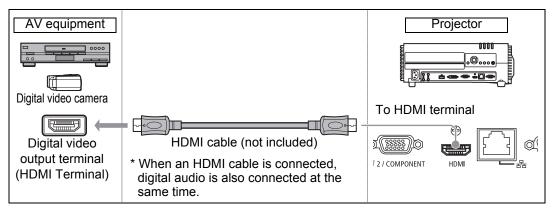
Connect the projector and AV equipment.

The description provided here is one example. For more detailed information, refer to the manual for the connected AV equipment.

Before connecting the cables, turn off both the projector and AV equipment.

Connecting to Digital Video Output Terminal (Digital Connection)

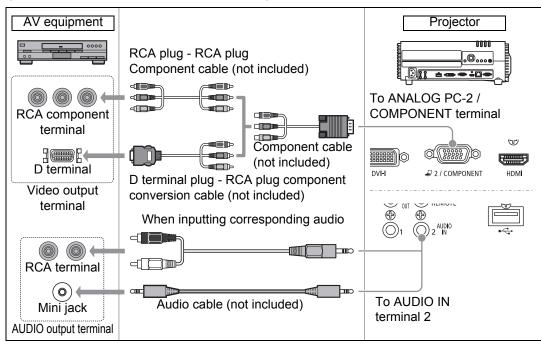
Connecting with an HDMI cable (Input signal type: [HDMI] P53)



Connecting to Analog Video Output Terminal (Analog Connection)

Connecting with a component cable (Input signal type: [Component] P53)

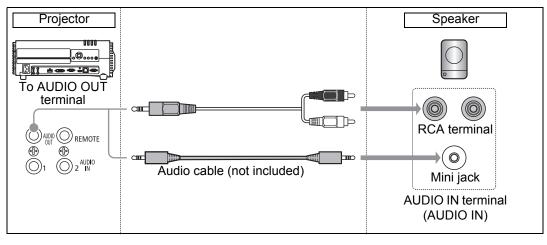
Component video signals from AV equipment can be supplied to the projector by connecting the component cable to the projector's COMPONENT terminal. Use a commercially available component cable (not included) that fits the terminal type of the AV equipment to create a relay connection.



- Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor will reduce the audio volume.
 - The AUDIO IN terminal can be changed in the Audio in terminal select screen (P153).

Outputting Audio to Speakers

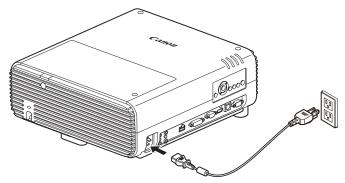
It is possible to output audio from the projected images to AV equipment or amplified speakers.



Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor will reduce the audio volume.

Plugging the Projector In

Connect the power cord to the projector and plug it in.





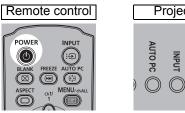
Connect the ground terminal on the power plug to ground. Not doing so could result in an electric shock. Additionally, it may cause computers to be affected by electromagnetic interference and impair TV and radio reception.

- Fully insert the power cord plug into the socket.
 - After turning off the projector, wait at least 5 minutes before turning it on again. It may shorten the lamp life if you turn on the projector immediately after turning it off.
- Unplug the power cord when the projector is not in use.

Starting and Stopping Projection

Starting Projection

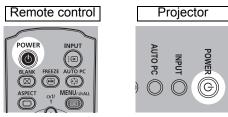
Press the **POWER** button on the remote control or on the projector. The [POWER ON] indicator initially flashes green, after which it remains lit.



	PI	ojec	loi
)	АИТО РС		POWER

Stopping Projection

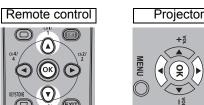
Press the **POWER** button on the remote control or on the projector twice.



When the Language Selection Screen Appears

A screen appears when the projector is turned on for the first time. You can select a language to be used by the projector for displaying menus and messages in the window. Select the desired language with the pointer buttons and press the OK button.

You can change the language from the menu at a later time. (P115) If the language selection screen is out of focus, adjust the focus. (P59)





An item highlighted in orange will be selected.

When the Password Input Screen Appears

If you have set a password, the password input screen appears. Enter your password. (P116)

When "No signal" Appears

With a notebook computer, the user must turn on the external monitor output. (P145)

Press the **INPUT** button to select the input signal. (P54)

■ When Notebook Computer Screen Does Not Appear

Set your notebook computer to output signals to an external monitor. For more details, refer to "Changing Notebook Computer Screen Output" below.

Adjusting Image

- Set the display resolution of the computer to the highest resolution or the resolution closest to that setting. (P55)
- Use the auto PC function to adjust shift in computer image or the flickering of the screen. (P57)
- Adjust the size of projected images by zooming. The WUX450/WX520 uses optical zoom (P57), and the WUX400ST/WX450ST uses electronic zoom. (P149)
- If the image is blurry, use the focus ring to adjust focus. (P59)
- Correct any keystone distortion by pressing the **KEYSTONE** button. (P68)
- Select the aspect ratio of the projected image (screen aspect) or a screen mode (aspect) according to the aspect ratio of the screen, type of input image signal etc. (P60 – P67)
- Select an image mode depending on the projected image. (P71)

Changing Notebook Computer Screen Output

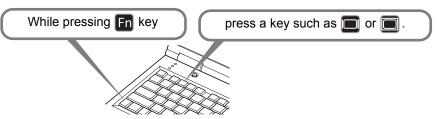
For projection from a notebook computer, the computer settings must be adjusted to switch display output.

This operation is not required for a desktop computer.

Turning on External Monitor Output

You can turn on the external monitor output via keyboard operation.

To turn on the external monitor output with most computers, press the function key ([F1] to [F12]) which is marked with the external monitor icon while holding down the [Fn] key.



- The function key you use and the method used to turn on the external monitor output vary depending on the model. For details, see the manual for your notebook computer.
 - With Windows 7, you can turn on image output by holding down the Windows logo key and pressing the [P] key.

Installation-Related Menu Settings

Locking Installation Settings

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	

> [Install settings] > [Positional lock]

Operation of installation related functions can be prohibited.

	• •	Install setting
Positional lock	► Off	
Image flip H/V	On	
Screen aspect	16:10	
Keystone	Horizontal-	/ertical keystone
Digital image shift		
Professional settings		
Audio in terminal select		
Screen color	Normal	
On screen		
Test pattern	Off	

Off The positional lock is not used.

On Installation related functions cannot be used.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- The factory default is [Off].
- Locking applies to the following settings: screen aspect, keystone adjustment, digital image shift, horizontal/vertical image flip, and professional settings.

Flipping Image Display

MENU	>	[Install	settings]	>	[Image	flip	H/V]
------	---	----------	-----------	---	--------	------	------

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	\bigcirc USB

Select this setting if you want to hang the projector from the ceiling or project an image from behind the screen.

Analog PC-1	7 80 0	0	Install settings
Positional lock Image flip H/V Screen aspect Keystone Digital image sh Professional set Audio in termin Screen color On screen	tings	Off None Ceiling mounted Rear Rear, Ceiling mo Normal	unted
Test pattern None	Select thi normally.	off is to project	an image
Ceiling mounted	with the p ceiling. The proje	is to project a projector hur ected image ertical and he s.	is inverted

 Rear
 Select this to project an image from behind the screen.

 The projected image is inverted in the horizontal direction.

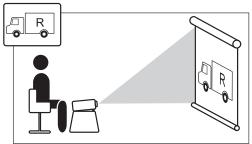
 Page
 Select this to project an image.

Rear,	Select this to project an image
Ceiling	from behind the screen with the
mounted	projector hung from the ceiling.
	The projected image is inverted
	in the vertical direction.

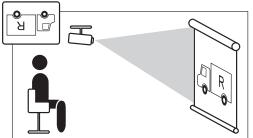
Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• [None] is the factory default.

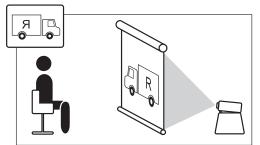
Normal (None)



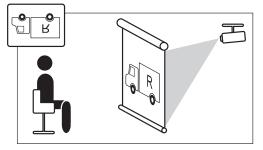
Ceiling Mounting



Rear projection



Rear, Ceiling Mounting



- To hang the projector from the ceiling, use the optional bracket. Contact the Canon Customer Support Center for more detailed information.
- If you flip the image, the keystone distortion adjustment will be reset.

Specifying the Screen Aspect

×	[Install	settings]	>	[Screen	aspect]
---	----------	-----------	---	---------	---------

	 Component 	\bigcirc LAN
O Digital PC	\bigcirc Analog PC	⊖ USB

Select according to the aspect ratio of the projection screen. (P60)

	Install setting
Positional lock	Off
Image flip H/V	
Screen aspect	▶ 16:10
Keystone	16:9
Digital image shift	4:3
Professional settings	16:9 D. image shift
Audio in terminal select	4:3 D. image shift
Screen color	Normal
On screen	
Test pattern	Off

16:10	Select this when you use a screen with an aspect ratio of 16:10.
16:9	Select this when you use a screen with an aspect ratio of 16:9.
4:3	Select this when you use a screen with an aspect ratio of 4:3.
16:9 D. image shift	Select this when you use a screen with an aspect ratio of 16:9. Keystone correction cannot be performed in this mode. However, it is possible to move the image up / down when projecting level. For details about how to move the image, refer to page 63.
4:3 D. image shift	Select this when you use a screen with an aspect ratio of 4:3. Keystone correction cannot be performed in this mode. However, it is possible to move the image left / right when projecting level. For details about how to move the image, refer to page 64.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [16:10] is the factory default.
- Changing the screen aspect will reset any keystone or digital image shift setting.
- [Auto] may be automatically selected for the aspect depending on the screen aspect setting.

Installation-Related Menu Settings

Adjusting the Size of **Projected Images** (WUX400ST/WX450ST)

MENU	>	[Install	settings]	>	[Zoom]	
------	---	----------	-----------	---	--------	--

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

Projected images that do not fit on the screen can be projected at a digitally reduced size.

	Install setting	
Positional lock	Off	
Image flip H/V	None	
Screen aspect 16:10		
Zoom		
Keystone	Horizontal-vertical keystone	
Digital image shift		
Professional settings		
Audio in terminal select		
Screen color	Normal	
On screen		
Test pattern	Off	

Press the [] button on the remote control to project images at a reduced size, and press the [>] button to enlarge images to full size. Images can be projected at 75-100% of the original size.

The factory default is 100%.

D.ZOOM buttons on the remote control cannot be used for this [Zoom] function.

· [Zoom] is not available when the following features are used.

- Horizontal/vertical keystone correction (P68)
- Split-screen mode (P81)
- Using [Zoom] after specifying corner adjustment (P69) will clear corner adjustment settings and apply the zoom setting. Instead, use [Zoom] before fine-tuning the image position with corner adjustment.
- If images still extend off the screen even after you use [Zoom], you can use corner adjustment (P69) to finetune the position of image corners, so that images fit on the screen.

Specifying Keystone Correction

> [Install settings] > [Keystone]

	 Component 	\bigcirc LAN
○ Digital PC	○ Analog PC	⊖ USB

Two types of keystone correction are available: horizontal-vertical keystone and corner adjustment. Keystone correction can also be reset. Keystone correction can be applied by pressing the KEYSTONE button. (P68)



Horizontal- vertical keystone	In this case, horizontal-vertical keystone correction is applied.
Corner adjustment	Performs corner adjustment when the KEYSTONE button is pressed.
Reset	Resets the specified keystone value.

Pressing the **KEYSTONE** button when the screen aspect is [16:9 D. image shift] or [4:3 D. image shift] will not apply keystone correction.

Specifying Digital Image Shift

[Install settings] > [Digital image shift]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

Moves the position of the projected image.

	Install setting
Positional lock	Off
Image flip H/V	None
Screen aspect	16:9 D. image shift
Keystone	Horizontal-vertical keystone
Digital image shift	
Professional settings	
Audio in terminal select	
Screen color	Normal
On screen	
Test pattern	Off

Press the **OK** button or [▶] button to display the D. image shift adjustment screen.

D.image shift adjustment	
+0	
▼	
_	

Correct using the $[\blacktriangle] / [\lor]$ buttons (for 16:9 D. Image Shift) or $[\triangleleft] / [\triangleright]$ buttons (for 4:3 D. Image Shift). When you have finished correcting, press the **OK** button.

- This cannot be selected when the screen aspect is 16:9, 16:10 or 4:3.
- Vertical image adjustment is available with a screen aspect of [16:9 D. image shift] and horizontal with [4:3 D. image shift].

Specifying Micro **Digital Image Shift**

) > [Install settings] > [Professional settings] > [Micro-digital image shift]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

Use this setting to fine-tune digital image shift.

Micro-digital image shift	▶ Off	
Registration	Adjust	
Fan mode	Normal	
Vertical projection	Off	
Edge blending	Off	

- Off Does not perform micro digital image shift.
- Adjust Performs micro digital image shift.



Use the [▲] / [▼] buttons for vertical shift.

Use the [] / [] buttons for horizontal shift. When you have finished correcting, press the **OK** button.

When you have completed the adjustment, press the OK button to accept your setting and then press the MENU button or EXIT button.

- [Off] is the factory default.
- Select [Adjust] to fine-tune the image position.

Adjusting Image Registration

Install settings] > [Professional] settings] > [Registration]

	○ Component	\bigcirc LAN
O Digital PC	O Analog PC	\bigcirc USB

Adjusts colors that are out of alignment. You can adjust red and blue registration independently, relative to green.

Micro-digital image shift	Adjust	
Registration	▶ Off	
Fan mode	Adjust	
Vertical projection	Off	
Edge blending	Off	

- Off Does not perform image registration.
- Adjust Performs image registration.

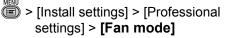


When the setting is completed, press the **OK** button.

When the setting is completed, press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

- [Off] is the factory default.
- You can adjust image registration by selecting [Red] or [Blue].

Specifying the Fan Mode



	 Component 	\bigcirc LAN
O Digital PC	\bigcirc Analog PC	⊖ USB

Enable suitable cooling by switching the fan mode to the setting for lowor high-altitude (above 2,300 m (7,545.8')) operation.

ofessional settings Micro–digital image shift	Adjust	
Registration	Adjust	
Fan mode	► Normal	
Vertical projection	High altitude	
Edge blending	Off	
Return		

Normal	Setting for use in altitudes lower than 2,300 m (7,545.8').
High altitude	Setting for use in altitudes of 2,300 m (7,545.8') or higher.

When the setting is completed, press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• [Normal] is the factory default.

Incorrect settings may shorten the useful life of the lamp or other parts.

Specifying Vertical Projection

> [Install settings] > [Professional settings] > [Vertical projection]

\bigcirc	HDMI	○ Component	\bigcirc LAN
\bigcirc	Digital PC	O Analog PC	

You can ensure adequate cooling by switching the fan mode to suit upward- or downward-facing installations.

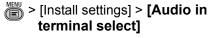
Professional setting	s		
Micro-digital imag	e shift	Adjust	
Registration		Adjust	
Fan mode		Normal	
Vertical projection	1	▶ Off	
Edge blending		Upward	
Return		Downward	
Off	Does	not alter the fan mo	de.
Off Upward	2000	not alter the fan mo g for use when the	de.
•	Setting		de.

When the setting is completed, press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

projector faces downward

- [Off] is the factory default.
 - Even if you complete this setting, vertical projection will result in a shorter useful life of the lamp and other parts than horizontal projection.

Selecting the Audio In Terminal



	 Component 	\bigcirc LAN
○ Digital PC	\bigcirc Analog PC	⊖ USB

You can select the audio in terminal that is used for each input signal (HDMI, Digital PC, Analog PC-1, Analog PC-2, Component).

™ HDMI	HDMI
Digital PC	Audio in 1
Analog PC-1	Audio in 1
Analog PC-2	Audio in 2
👓 Component	Audio in 2
Return	

Off	No audio is output.
Audio in 1	Outputs the audio signal that is inputted in Audio in terminal 1.
Audio in 2	Outputs the audio signal that is inputted in Audio in terminal 2.
HDMI	Outputs the HDMI audio signal. (Only for HDMI)

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

 The factory default is as follows. HDMI [HDMI] Digital PC [Audio in 1] Analog PC-1 [Audio in 1] Analog PC-2 [Audio in 2] Component [Audio in 2]

Adjusting Colors to Suit the Screen Color

Finstall settings] > [Screen color]
HDMI Component LAN

) 11 8 1011	O component	\bigcirc \square \cdots
Digital PC	\bigcirc Analog PC	\bigcirc USB

You can adjust the color quality of the images projected according to the color of the projection screen.

🗁 Analog PC-1	
I 🗉 🛃 📟 🖷	 Install setting
Positional lock	Off
Image flip H/V	
Screen aspect	16:10
Keystone	Horizontal-vertical keystone
Digital image shift	
Professional settings	
Audio in terminal select	
Screen color	► Normal
On screen	Greenboard
Test pattern	Adjust

- **Normal** Select this if a standard type of projection screen is used. The images are projected in a light quality similar to that of natural light.
- Greenboard Select this if a greenboard (dark green color) is used for the projection screen. The color quality similar to [Normal] is obtained on the greenboard.
- Adjust Select this to make detailed adjustment. The following popup screen will appear.



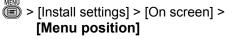
Press the [▲] / [▼] buttons to select a color. [▶] makes the color selected darker.

[4] makes the color selected lighter.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• [Normal] is the factory default.

Specifying a Menu Position



	○ Component	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

You can change the position of menus displayed.

Menu position		
Guide	On	
Show input status	Оп	
Overheat warning display	Off	
Menu display time	Normal	
Lamp warning display	On	
Air filter warning display	On	
Split screen ID display	On	
Return		

Use the $[\blacktriangle] / [\blacktriangleleft] / [\lor] / [\blacktriangleright]$ buttons to move the menu to the desired position.



After you have moved the menu to the desired position, press the **OK** button to accept your setting, and then press the **MENU** or **EXIT** button.

Showing/Hiding the Guide Screen

> [Install settings] > [On screen] > [Guide]

\bigcirc I	HDMI		nt O LAN
\bigcirc I	Digital PC	O Analog PC	C USB

You can select whether to show or hide the guide screen which explains operations.

On screen		
Menu position		
Guide	Off	
Show input status	▶ On	
Overheat warning display	Off	
Menu display time	Normal	
Lamp warning display	On	
Air filter warning display	On	
Split screen ID display	On	
Return		

Off Hides the guide screen.

On Shows the guide screen.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- The factory default is [On].
- The guide screen is shown at the following times.
 - When no input signal can be detected. (P145)
 - When an invalid button is pressed in the [BLANK], [FREEZE] or [D.ZOOM] mode. (P76, P78)
 - When the positional lock is set to [On].
 (P146)
 - When the projector is already on and the **POWER** button is pressed again.

Showing/Hiding Input Status



Install settings] > [On screen] > [Show input status]

	 Component 	\bigcirc LAN
○ Digital PC	○ Analog PC	\bigcirc USB

You can select whether the signal status is displayed on the screen when there is no signal or when making signal settings.

Menu position		
Guide	On	
Show input status	Off	
Overheat warning display	▶ On	
Menu display time	Normal	
Lamp warning display	On	
Air filter warning display	On	
Split screen ID display	On .	
Return		

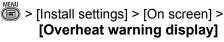
Off The input status is not displayed.

On The input status is displayed.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

· The factory default is [On].

Showing/Hiding **Overheat Warnings**



	○ Component	\bigcirc LAN
○ Digital PC	\bigcirc Analog PC	\bigcirc USB

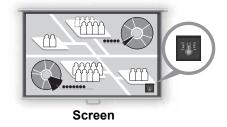
You can select whether or not to display the [High temperature warning] icon when the temperature inside the projector has increased and is approaching the overheat temperature.

On screen		
Menu position		
Guide	On	
Show input status	On	
Overheat warning display	▶ Off	
Menu display time	On	
Lamp warning display	On	;
Air filter warning display	On	
Split screen ID display	On	
Return		

- Off The [High temperature warning] icon is not displayed.
- On The [High temperature warning] icon is displayed.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

When [On] is set, the [High temperature warning] icon shown below will be displayed when the temperature inside the projector is abnormally high.



· [Off] is the factory default.

Specifying the Menu **Display Time**



> [Install settings] > [On screen] > [Menu display time]

	 Component 	\bigcirc LAN
○ Digital PC	○ Analog PC	⊖ USB

The setting for the menu display time can be extended from the normal 10 or 30 seconds to 3 minutes.

Menu position		
Guide	On	
Show input status	On	
Overheat warning display	Off	
Menu display time	Normal	
Lamp warning display	Extended	
Air filter warning display	On	
Split screen ID display	On	
Return		

Normal	The menu is displayed for 10 or 30 seconds.
Extended	The menu is displayed for 3 minutes.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

- · [Normal] is the factory default.
- The following display and operation are also changed.

Item	[Normal]	[Extended]
The display time of the following screens -MENU screen	30 seconds	3 minutes
 Input (P54) Keystone adjustment (P68) Keystone reset (P70) D.image shift adjustment (P63, P64) D.image shift reset (P65) Aspect (P67) Image Mode (P71) Volume adjustment (P77) Gamma correction (P100) 	10 seconds	3 minutes

Showing/Hiding Lamp Replacement Warnings

> [Install settings] > [On screen] > [Lamp warning display]

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	\bigcirc USB

A message that advises you to change the lamp can be set to display when the lamp has been used for the specified period of time.

On screen		
Menu position		
Guide	On	
Show input status	On	
Overheat warning display	Off	
Menu display time	Normal	
Lamp warning display	Off	
Air filter warning display	▶ On	
Split screen ID display	On	
Return		

- On The prepare lamp message and the lamp warning are displayed.
- The prepare lamp message and the Off lamp warning are not displayed. When it is time to replace the lamp, the LAMP indicator on the projector will flash, and lamp replacement (P202) is recommended at this time.

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

· The factory default is [On].

Showing/Hiding Filter **Cleaning Warnings**

> [Install settings] > [On screen] > [Air filter warning display]

	 Component 	\bigcirc LAN
○ Digital PC	\bigcirc Analog PC	⊖ USB

A message advising you to perform cleaning can be set to display when the filter needs cleaning.

)n screen		
Menu position		
Guide	On	
Show input status	On	
Overheat warning display	Off	
Menu display time	Normal	
Lamp warning display	On	
Air filter warning display	Off	
Split screen ID display	On	
Return		

Off The air filter warning is not displayed.

The air filter warning is displayed. On

Press the **OK** button to accept your setting and then press the MENU button or **EXIT** button.

· The factory default is [On].

Showing/Hiding Split-Screen ID

> [Install settings] > [On screen] > [Split screen ID display]

	 Component 	\bigcirc LAN
O Digital PC	○ Analog PC	\bigcirc USB

Specify whether to show or hide the digit (1 or 2) that identifies screens in split-screen mode. Note that even if you select [Off], a marker will be displayed in the corner of the screen to identify the screen that has control rights.

Return	> On	
Split screen ID display	Off	
Air filter warning display	On	
Lamp warning display	On	
Menu display time		
Overheat warning display	Off	
Show input status	On	
Guide	On	
Menu position		
)n screen		

Off Hides the screen ID.

On Shows the screen ID.

When you have completed the adjustment, press the OK button to accept your setting and then press the MENU button or EXIT button.

· The factory default is [On].

Showing/Hiding the Test Pattern

> [Install settings] > [Test pattern]

	○ Component	\bigcirc LAN
O Digital PC	○ Analog PC	⊖ USB

You can project a test pattern (P291) to check resolution, color, and other details even without supplying an input signal.

	Install setti	ng
Positional lock	Off	
Image flip H/V	None	
Screen aspect	16:10	
Keystone	Horizontal-vertical keystone	
Digital image shift		
Professional settings		
Audio in terminal select		
Screen color	Normal	
On screen		
Test pattern	▶ Off	
	On	

Off The test pattern is not displayed.

On Displays the test pattern.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

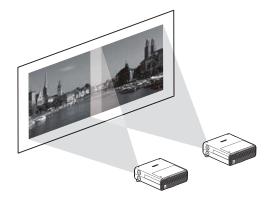
- [Off] is the factory default.
- During test pattern display, you can use the
 [▲] / [▼] buttons to switch test patterns.
 Additionally, if a test pattern has option
 settings, you can change the settings using
 the [◀] / [▶] buttons. (P291)
- The test pattern can also be displayed or turned off by pressing the **TEST PATTERN** button on the remote control.

Projecting from Multiple Projectors at Once (Edge Blending)

) > [Install settings] > [Professional settings] > [Edge blending]

	 Component 	\bigcirc LAN
O Digital PC	O Analog PC	⊖ USB

Overlapping edges of images from multiple projectors used together can be blended to make the overall image more seamless.



Basic Instructions

Follow these steps when using two projectors side by side.

- 1 In the [Install settings] menu, select [Professional settings] > [Edge blending].
- 2 Select [Adjust].

Professional settings		
Micro-digital image shift	Adjust	
Registration	Adjust	
Fan mode	Normal	
Vertical projection	Off	
Edge blending	Off	
Return	Adjust	

The edge blending window is displayed.

dge blending	011	
Left	Off	
Right	Off	
Тор	Off	
Bottom	Off	
Black level adjustment	Off	
Reset		
Return		

Off					Does not blend overlapping areas.
Adjust					Displays the menu for blending overlapping areas.
	Left, Right, Top, Bottom				
		Off			Projects an image with no correction.
		Adjust	Marker	Off	Hides the markers.
				On	Displays markers showing the adjustable blending area, with one line indicating the start position (in red) and another, the end position (in green).
			Start position		Moves the marker for the start position.
			Width		Specifies the width between the start and end markers.
			Reset		Resets the marker settings.
	Black	Black level adjustment			Adjusts the black level of non-overlapping image areas. (P162)
	Reset			Resets any adjustments you have made.	

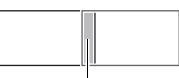
Here, you can use the following settings in the edge blending menu.

- If you have already completed edge blending settings, selecting [Adjust] will apply them.
 - To restore the default settings before adjustment, select [Reset].

3 Select the position where the images overlap.

When you are adjusting the left image, this area is along the right edge of the image. In the edge blending window, select [Right] > [Adjust].

Left image Right image



Edge blending		
Left	Off	
Right	Off	
Тор	▶ Adjust	
Bottom	Off	-
Black level adjustment	Off	
Reset		
Return		

Overlapping area

4 Set [Marker] to [On].

Marker lines are projected on the images. The red marker indicates the start position for adjustment, and the green marker, the end position.

dge blending (Right)		
Marker	Off	
Start position	Image: On the other states of the other st	
Width	0	- 44
Reset		
Return		

By default, the green and red markers are displayed in the same position, so only the red marker is visible.

- 5 Select [Start position] and use the remote's [4] [>] buttons to move the markers to the right edge where the images overlap.
- 6 Select [Width], and use the remote's [◀] [▶] buttons to move the markers to the overlapping area.

The area between the starting and ending markers is called the blending area. Brightness of this area is automatically adjusted to match the brightness of other image areas. After you complete settings for the left image, do the same thing for the right image, to specify the blending area along the left edge. Adjust the area so that the blending area for the left and right images is the same.

- Specifying a large blending area may cause dialog boxes for input signal selection or status to be covered by the blending area. In this case, momentarily switch edge blending from [Adjust] to [Off], check the display, and then return the setting to [Adjust].
- Although the starting marker is normally aligned with the image edge, it can also be aligned more toward the center of the image. In this case, the black blending area will lie outside of the starting marker.

Set [Marker] to [Off]. 7

Edge Blending with Four Projectors

Images from four projectors can also be blended, as shown at left.

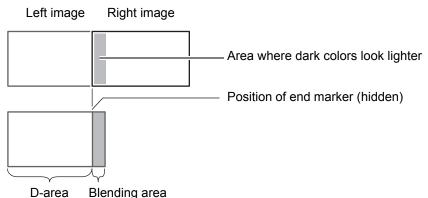
Specify the blending area where each image overlaps with others.

Example: When specifying the blending area for the lower-right image, configure the settings for blending areas along the top and left image edges.

> Complete the settings for the other three images the same way for the edges that overlap.

Advanced Instructions: Black Level Adjustment

In overlapping projection, dark colors are projected with less intensity than other colors in the overlapping area. For this reason, overlapping image areas might be more noticeable when the images themselves are dark. You can make this overlapping area less distracting by adjusting the black level of non-overlapping image areas.



Here, the non-overlapping image area (from the end marker toward the center of the image) is called area "D."

Normally, three areas are identified in the context of end markers: A, B, and C. In the following instructions, only area D is adjusted, and the widths of A, B, and C are left at the default value of 0.

- To prepare for adjustment, set [No signal screen] to [Black], start projection with no input signal, and turn off the room lights, so that you can check dark image areas. (P109)
 - Set [Marker] to [Off].
- **1** On the edge blending screen of step 2 in "Basic Instructions" (P159), select [Black level adjustment] > [Adjust].

Edge blending		
Left	Off	
Right	Adjust	
	Off	
Bottom	Off	
Black level adjustment	Off	
Reset	Adjust	
Return		

The black level adjustment window is projected.

Here, you can use the following settings in the edge blending menu.

Adjust the black level of non-overlapping image areas. Black level adjustment

Adjust

Off

st				
	Adjustment type	Black level		
			D-area base	Adjust the area D black level.
			D-area red	Adjust the red component of the area D black level.
			D-area green	Adjust the green component of the area D black level.
			D-area blue	Adjust the blue component of the area D black level.

2 Select [Adjustment type] > [Black level].

Adjustment type	Area	
Side	Black level	
A-width	0	
C-width		

3 Select [D-area base], and use the remote's [◀] [▶] buttons to adjust the values for area D.

Black level adjustment		
Adjustment type	Black level	
B-area base	0	
B-area red	+0	
B-area green	+0	
B-area blue	+0	
D-area base	0	
D-area red	+0	
D-area green	+0	
D-area blue	+0	
Return		

As you watch the image, adjust the values so that the brightness and colors of the blending area and area D match. Adjust [D-area base] to lighten the black level, and adjust [Red], [Green], and [Blue] to obtain an optimal black level color tone, as needed.

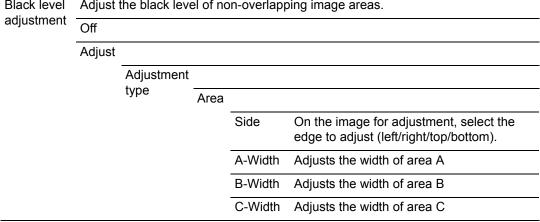
4 Repeat this adjustment on all projectors.

Advanced Instructions: Smoother Overlapping Areas

Adjustments to areas A, B, and C may make the black level along the right edge of area D (that is, the edge bordering the blending area) more noticeable than that of surrounding areas.

To compensate, adjust each area as follows.

Left image	Position of end marker (hidden)
	Area A: Black level cannot be adjusted. Area B: Adjust to a black level different from that of area D. Area C: Adjust to provide a smooth transition relative to the black levels of areas B and D.
D-area	Blending area Areas C–A (default: 0)
Dia ak Jawal	A direct the block lovel of non-overlenning image areas



When there are multiple blending areas relative to the projected image (on all edges), you must adjust the width of areas A, B, and C. In this example, instructions are given for adjusting area B.

1 In the window of step 2 in "Advanced Instructions: Black Level Adjustment" (P162), select [Adjustment type] > [Area] > [Side] > [Right].

Side	Left	
A-width	Right	
3-width	Тор	
	Bottom	
	Charles Harrison	

2 Select [B-width], and use the remote's [◄] [▶] buttons to specify the width of area B.

This will make the width of area D narrower.

Adjustment type	Area	
Side	Right	
A-width	0	
B-width	0	
C-width	0	

3 Adjust the width of area B to roughly match the area where the black level is noticeable, and then use the following edge-blending settings to adjust the black level of area B.

Adjust the black level of area B the same way as you adjusted it for area D.

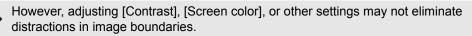
Black level

B-area baseAdjust the area B black level.B-area redAdjust the red component of the area B black level.B-area greenAdjust the green component of the area B black level.B-area blueAdjust the blue component of the area B black level.

For adjustment instructions, see "Advanced Instructions: Black Level Adjustment" (P162), step 3.

Results of adjusting the black level of area B are applied to all sides.

- **4** Fine-tune the position and width of area B.
- **5** As you watch the image, adjust the width of areas A, B, and C.
- 6 Readjust the black level of area B, as needed.
- 7 When you have completed the adjustment, press the MENU or EXIT button.
- [Off] is the factory default.



- To simplify adjustment, use the same lens shift position and image mode (ideally, [sRGB]) on each projector.
 - For best edge-blending results, perform the following adjustments.
 - (1) Black and white adjustment by adjusting R/G/B gain and offset (P101)
 - (2) Gamma adjustment by fine-tuning gamma (P105)
 - (3) Color adjustment by using 6-axis color adjustment (P104)
 - To reduce distracting colors or differences in brightness where images overlap, try darkening images by adjusting [Contrast] (or other [Image adjustment] menu settings) or [Screen color].

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Connecting to a Network

	Safety Instructions
	Before Use
0	Projecting an Image
Operation	Useful Functions Available During a Presentation
	Setting Functions from Menus
Installatior	Installation
0	
n and Maint	Connecting to a Network
and Maintenance	Connecting to a Network
and Maintenance Networke	
Ind Maintenance Networked Multi-Proj	Maintenance Networked Multi-Projection
and Maintenance Networked Multi-Projection	Maintenance Networked Multi-Projection Overview
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Network Connection Overview

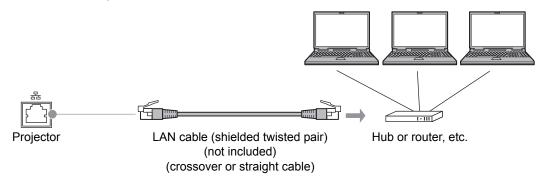
Connecting the projector to a network enables you to control the projector from a computer and receive notification of projector errors via email. Settings related to the network connection can be made from either the projector side (P169) or computer side. (P178)

Depending on the method of network connection, preparation on the computer side may be necessary. The following is an explanation of preparation on the computer side.

For details on networked multi-projection – projecting images from computers through one or more projectors over a network – see "Networked Multi-Projection."

Connection Methods

Connect the projector to the computer via LAN.



- When the [Network function] setting of the projector is set to [Off] (Network Connections is disabled), switch it to [On] to enable it. (P171)
- Referring to "Checking Projector Information" (P122), check that the projector IP address does not overlap with other computers that are on the same LAN. To set a projector IP address, follow the instructions in "Completing Computer Settings" (P178) and use the web screen, or use projector TCP/IP settings. (P174)
- When you connect the computer to the network for the first time, it is also necessary to perform settings on the computer. In this case, consult the network administrator regarding the necessary settings.

In a network environment where a DHCP server is operating, choose [On] on the projector [DHCP] screen to enable the DHCP function and connect it. (P174)

Completing Projector Settings

From the projector menus screen, network settings can be configured in the [Network Setting] tab. For instructions on menu operations, refer to "Using Menus". (P84)

Locking/Unlocking Network Settings

[Network Settings] > [Network settings lock]

You can lock/unlock the network settings so that they cannot be changed.

	0	Network setting
Network settings lock	Unlock	
Network password setting	Lock	
Register network password		
Network function (wired)	Off	
Network standby settings		
Detailed settings (wired)		
IP address (wired)		
PJLink		
AMX Device Discovery		
Crestron RoomView		

Unlock	Cancels the lock and allows other network settings to be changed. The password must be entered in order to cancel the lock. Selecting [Unlock] will display the following window. Use the [▲] / [▼] / [◀] / [▶] buttons to enter the 4-digit password.
	Network password input Enter network password.
Lock	Lock the settings.

Press the **OK** button to accept your setting, and then press the **MENU** button or **EXIT** button to close the window. The settings are now locked again. If you change the network settings, be sure to continue operating without closing the window.

- [Lock] is the factory default.
- The factory default network password is [▲]
 [▲] [▲] [▲].

Forcibly canceling the network lock

On the Network password input screen, press the buttons in the following order to unlock the settings: $[\blacktriangle] [OK] [\blacktriangleright] [OK] [V]$ [OK]. This will reset the network password to $[\blacktriangle] [\blacktriangle] [\blacktriangle] [\blacktriangle].$

Enabling/Disabling the Network Password

MENU > [Network settings] > [Network password setting]

You can set whether or not a password is required in order to change the projector network settings.

	0	Network setting
Network settings lock	Unlocked	
Network password setting	Off	
Register network password	▶ On	
Network function (wired)	Off	
Network standby settings		
Detailed settings (wired)		
IP address (wired)		
PJLink		
AMX Device Discovery		
Crestron RoomView		

Off A network password is not used.

On A network password is used.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• The factory default is [On].

Registering a Network Password

[Network settings] > [Register network password]

Register the projector network password.

• M * • •	0	Network settings
Network settings lock	Unlocked	
Network password setting	On	
Register network password		
Network function (wired)	Off	
Network standby settings		
Detailed settings (wired)		
IP address (wired)		
PJLink		
AMX Device Discovery		
Crestron RoomView		

When [Register network password] is selected, the window shown below appears.

Enter a 4-digit password.

Enter the password using the $[\mathbf{V}] / [\mathbf{A}] / [\mathbf{A}] / [\mathbf{A}]$ buttons on the remote control.



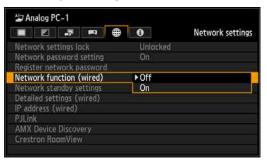
Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

If you forget the password, press [▲] [OK]
 [▶] [OK] [♥] [OK] to restore the factory default setting.

Enabling/Disabling Wired Network Functions

Metwork settings] > [Network function (wired)]

You can turn the projector network function on or off. Power can be saved by turning the function [Off].



Off Disables the network function.

On Enables the network function.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

• [Off] is the factory default.

Specifying Standby Power Consumption

[Network settings] > [Network settings] > [Network standby settings]

Specify network function operating status in standby mode as follows.

• • • • •	Network setting
Network settings lock	Unlocked
Network password setting	On
Register network password	
Network function (wired)	On
Network standby settings	Normal
Detailed settings (wired)	▶ Low-power
IP address (wired)	192 . 168 . 254 . 254
PJLink	On
AMX Device Discovery	Off
Crestron RoomView	Off

Normal	All network functions are available
	even in standby mode, including
	the web screen, control over the
	network, and PJLink.

All network functions are available
even in standby mode.
However, the projector may be
less responsive than usual when
some functions are initially used.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [Low-power] is the factory default.
- [Low-power] may delay access over the network for some functions. For faster access, select [Normal].
- Power consumption when [Network function (wired)] is [On] varies depending on whether [Network standby settings] is set to [Normal] or [Low-power].

Viewing the IP Address

[Network settings] > [Detailed settings (wired)] > [IP address]

View the projector's IP address as follows.

Note that the information can only be displayed, not changed.

To change the settings, access the DHCP or TCP/IP settings.

0.0.0.0
00:00:00:00:00:00
Off

Viewing the Gateway **Address**



Network settings] > [Detailed settings] (wired)] > [Gateway address]

View the projector's gateway address as follows. Note that the information can only be displayed, not changed.

Detailed settings (wired)	
IP address	192 . 168 . 254 . 254
Gateway address	0. 0. 0. 0
MAC address	00:00:00:00:00
DHCP	Off
TCP/IP setting	
Network setting initializatio	n:
Return	

Viewing the MAC Address

MENU
> [Network settings] > [Detailed settings] (wired)] > [MAC address]

View the projecto's MAC address as follows.

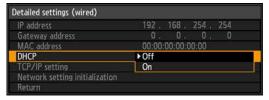
Note that the information can only be displayed, not changed.

letailed settings (wired) IP address	192 . 168 . 254 . 254
Gateway address	0. 0. 0. 0
MAC address	00:00:00:00:00:00
DHCP	Off
TCP/IP setting	
Network setting initializati	on
Return	

Enabling/Disabling DHCP

[Network settings] > [Detailed settings (wired)] > [DHCP]

You can turn the projector DHCP function on or off.



- Off Disables the DHCP function. TCP/IP settings are possible.
- On Enables the DHCP function. Searches the DHCP server. Because the IP address is acquired from the DHCP server, it is not necessary to enter the TCP/IP settings (IP address, subnet mask, gateway address).

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

· [Off] is the factory default.

Specifying TCP/IP Settings

(wired)] > [TCP/IP setting]

Configure the projector TCP/IP settings.

etailed settings (wired)	
IP address	192 . 168 . 254 . 254
Gateway address	0. 0. 0. 0
MAC address	00:00:00:00:00:00
DHCP	Off
TCP/IP setting	
Network setting initialization	
Return	

When [TCP/IP setting] is selected, the window shown below appears. Use the $[\Delta] / [\nabla]$ buttons to select the IP address, then press the **OK** button. Next, use the $[\blacktriangleleft] / [\triangleright]$ buttons to select the digit and the $[\Delta] / [\nabla]$ buttons to change the value.

Press the **OK** button, then set the subnet mask and gateway address in the same way. Finally, select [Enter].

TCP/IP setting				
Enter n	etwork addr	ess.		
IP address	192 .	168.	254 .	254
Subnet mask	255 .	255.	255.	0
Gateway address Enter	0.	0.	0.	0

- The factory default settings are as follows. IP address: 192.168.254.254 Subnet mask: 255.255.255.0 Gateway address: 0.0.00
- Settings cannot be made when [DHCP] (P174) is [On].
- If an invalid value is entered, the message "Invalid entry" appears. If this occurs, enter a valid value.

Initializing Network Settings

[Network settings] > [Detailed settings (wired)] > [Network setting initialization]

You can initialize the projector network settings.



When [Network setting initialization] is selected, the window shown below appears. Select [Yes] then press the **OK** button.

Network setting initializati	оп	
Initialize netw	ork settings?	
Yes	No	

- The following items are initialized.
 - Settings used for web login, such as the network setting screen, user name, password, and other settings
 - Network password setting
 - Network function (wired)
 - Network standby settings
 - Register network password
 - PJLink
 - DHCP
 - IP address
 - Subnet mask
 - Gateway address
 - E-mail sender address
 - E-mail recipient address
 - Projector name
 - Location
 - AMX Device Discovery settings
 - Crestron RoomView settings

Specifying PJLink Settings

> [Network settings] > [PJLink]

You can turn the PJLink network function on or off. When the function is turned on, control is possible via the LAN using commands that meet PJLink standards.

• •	O Network settings
Network settings lock	Unlocked
Network password setting	On
Register network password	
Network function (wired)	On
Network standby settings	Low-power
Detailed settings (wired)	
IP address (wired)	192 . 168 . 254 . 254
PJLink	Off
AMX Device Discovery	▶ On
Crestron RoomView	Off

Off Disables the PJLink function.

On Enables the PJLink function.

Press the **OK** button to accept your setting and then press the **MENU** button or **EXIT** button.

- [On] is the factory default.
- This projector conforms to Class 1 as defined in the PJLink standards of the JBMIA (Japan Business Machine and Information System Industries Association). This projector supports all commands that are defined by PJLink Class 1, and has been verified as conforming to the PJLink standard Class 1 definition.
- For information about using PJLink, refer to "Setting PJLink [PJLink]" (P191).

What is PJLink?

In September 2003, the PJLink Working Group was established under the Data Projector Committee. During the first year, this PJLink Working Group standardized PJLink as a new interface specification for projectors.

PJLink is a unified standard for operation and control of projectors. It allows centralized control of projectors and operation from a controller for all projectors regardless of manufacturer. The objective is for JBMIA to improve convenience for users and expand the use of projectors through early systemization for network monitoring and control of projectors, which will become the mainstream in the future.

Class 1: Standardization of control and monitoring specifications for basic projector functions Basic projector control: Power control, input selection, etc. Acquisition of projector information and status: Power status, input selection status, error status, lamp use time, etc.

- JBMIA: Japan Business Machine and Information System Industries Association. The JBMIA is an organization which was launched in 1960 and changed its name on April 1, 2002.
- PJLink website: http://pjlink.jbmia.or.jp/ english/

PJLink

PJLink is a registered trademark of JBMIA and pending trademark in some countries.

Specifying Use of AMX Device Discovery

INetwork settings] > [AMX Device Discovery]

In a network environment, AMX Device Discovery can be used to enable other equipment to discover the projector. For networks without AMX Device Discovery, select [Off].

	Network setting
Network settings lock	Unlocked
Network password setting	On
Register network password	
Network function (wired)	On
Network standby settings	Low-power
Detailed settings (wired)	
IP address (wired)	192 . 168 . 254 . 254
PJLink	On
AMX Device Discovery	► Off
Crestron RoomView	On

Off Disables AMX Device Discovery.

On Enables AMX Device Discovery. The projector will periodically send out AMX beacon packets over the network.

• [Off] is the factory default.

For details on AMX Device Discovery, visit the AMX website. http://www.amx.com/

Specifying Use of Crestron RoomView

> [Network settings] > [Crestron RoomView]

Crestron RoomView enables centralized management of multiple projectors over a network. For example, projectors can be remotely controlled to troubleshoot issues, check the useful life of lamps, or turn the projectors on or off. Specify whether or not to use Crestron RoomView as follows.

🕁 Analog PC-1	
	Network setting
Network settings lock	Unlocked
Network password setting	On
Register network password	
Network function (wired)	On
Network standby settings	Low-power
Detailed settings (wired)	
IP address (wired)	192 . 168 . 254 . 254
PJLink	On
AMX Device Discovery	Off
Crestron RoomView	▶ Off
	On

Off Disables Crestron RoomView.

- On Enables Crestron RoomView. A port for RoomView will be opened, and the projector will respond to CIP packets. This enables communication via the RoomView Express/Server application or via Crestron Controller. (P191)
- [Off] is the factory default.
 - For details on Crestron RoomView, visit the Crestron[®] website. http://www.crestron.com/

Specifying an IP Address

Following is an explanation of how to set the PC IP address for each operating system.

Windows 7

- **1** From the PC [Start] menu, select [Control Panel].
- **2** Click on [Network and Internet], then click on [View network status and tasks].
- **3** From the menu on the left side of the window, click on [Change adapter settings].
- **4** Right-click [Local Area Connection], and open [Properties].
- **5** Select [Internet Protocol Version 4 (TCP/IPv4)] and click the [Properties] button. Make a note of the original network settings (IP address, subnet mask, default gateway, etc).
- **6** Select [Use the following IP address] and set the IP address and subnet mask.

The factory default IP address for the projector is "192.168.254.254". Set an IP address which is different from this.

Example IP address: 192.168.254.1 Subnet mask: 255.255.255.0

	automatically if your network support ed to ask your network administrator
Obtain an IP address automa	atically
() Use the following IP address	
IP address:	192 . 168 . 254 . 1
Subnet mask:	255,255,255,0
Default gateway:	· · · ·
Obtain DNS server address a Use the following DNS server Preherred DNS server: Alternate DNS server:	NEW YZDENIE SYLW. //
Validate settings upon exit	Advanced

7 When the settings are completed, click the [OK] button and then click the [OK] button on the [Local Area Connection Properties] window to close it.

Windows Vista

- **1** From the PC [Start] menu, select [Control Panel].
- 2 Click on [View network status and tasks].
- **3** From the menu on the left side of the window, click on [Manage network connections].
- **4** Right-click [Local Area Connection], and open [Properties].
- **5** Select [Internet Protocol Version 4 (TCP/IPv4)] and click the [Properties] button. Make a note of the original network settings (IP address, subnet mask, default gateway, etc).
- **6** Select [Use the following IP address] and set the IP address and subnet mask.

The factory default IP address for the projector is "192.168.254.254". Set an IP address which is different from this.

Example IP address: 192.168.254.1 Subnet mask: 255.255.255.0

ieneral	
	automatically if your network supports eed to ask your network administrator
💮 Obtain an IP address autom	natically
() Use the following IP addres	s:
IP address:	192 . 168 . 254 . 1
Subnet mask:	255 . 255 . 255 . 0
Detault gateway:	1 1 1 1
(*) Obtain DNS server address	submitted lu
Use the following DNS server	
Preferred DNS server:	x x x
Alternate DNS server:	x 3 x
	Advanced
	Contraction of the second seco
	OK Canc

7 When the settings are completed, click the [OK] button and then click the [OK] button on the [Local Area Connection Properties] window to close it.

Windows XP

- **1** From the PC [Start] menu, select [Control Panel].
- **2** Select [Network and Internet Connections] and open [Network Connections].
- **3** Right-click [Local Area Connection], and open [Properties].
- **4** Select [Internet Protocol (TCP/IP)] and click the [Properties] button. Make a note of the original network settings (IP address, subnet mask, default gateway, etc.).
- **5** Select [Use the following IP address] and set the IP address and subnet mask.

The factory default IP address for the projector is "192.168.254.254". Set an IP address which is different from this.

Example

IP address: 192.168.254.1 Subnet mask: 255.255.255.0

	automatically if your network supports ed to ask your network administrator fo
O <u>O</u> btain an IP address autom	atically
I lse the following IP addres:	ť
JP address:	192 . 168 . 254 . 1
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	
🗇 Obtain DNS server address	automatically
💿 Use the following DNS serv	er addresses.
Preferred DNS server:	G 1 G
Alternate DNS server:	6 8 6
	Advanced.

6 When the settings are completed, click the [OK] button and then click the [OK] button on the [Local Area Connection Properties] window to close it.

Mac OS X

- **1** Open the Apple Menu and select [System Preferences].
- **2** In the System Preferences window, click [Network] to display the Network window.
- **3** Select [Built-in Ethernet] and click the [TCP/IP] tab. Make a note of the original network settings (IP address, subnet mask, router, DNS server, etc.).

4 Create a new network environment and set the IP address and subnet mask.

The factory default IP address for the projector is "192.168.254.254". Set an IP address which is different from this.

Example IP address: 192.168.254.1 Subnet mask: 255.255.255.0

Locati	on: Automatic	
Internal Modern	Status	Connected Ethernet is currently active and has the IP address 192,168,6,23.
• FireWire	Configure:	Manually
S 1.5	IP Address:	192.168.254.1
	Subnet Mask:	255.255.255.0
	Router:	192.168.6.1
	DNS Server:	192.168.9.95, 192.168.9.96
	Search Domains:	
+ - 0.		(Advanced.)

5 Click [Apply] to close the network preference window.

Resetting the IP Address Setting of the Computer

Follow the same procedure as for changing the IP address and reset the values to the original values based on the notes taken before the change.

Setting Up the Network

- **Displaying the Network Configuration Screen**
- Turn on the computer and projector. 1

7

Network functions are not available for the first 40 seconds after projector startup.

2 Launch a web browser, enter "http://(projector IP address)" in the address bar, and press the Enter key.

The projector web screen appears.

Canon	WUX450		
	Projector name	Projector/001	
	Location		
· · · · · ·	HAC address	DE NO DE AD SELF	
Network Multiple Projection	P address		
	Principlation		
	LampModerfullYower		
Projector control	LangModePowerSaver		
Settings	LampTeneConverted		
	ree/Time		

Network Multiple Projection Download	For downloading the Networked Multi-Projection (NMPJ) program. (P211)	
Projector control	Displays the projector control screen.	
Settings	Shows the settings screen.	
Projector name	The name of the projector on the network	
Location	The location of projector installation	
MAC address	The MAC address of the projector	
IP address	The IP address of the projector	
PowerStatus	The power status of the projector	
LampModeFullPower	Lamp operating time in [Full power] lamp mode	
LampModePowerSaver	Lamp operating time in [Power saver] lamp mode	
LampTimeConverted	Lamp operating time (converted value)	
FilterTime	Air filter operating time	
Alert	Error message (if an error has occurred) Temperature abnormality Faulty lamp Faulty cooling fan Faulty air filter unit Faulty power supply	

The following information is displayed.

The factory default IP address is "192.168.254.254". If DHCP settings are used, ask the network administrator for the projector IP address. It is possible to check the IP address from the projector menu.

3 Click [Settings] on the web screen.

The password input window appears.

4 Enter the user name and password on the password input window, then click [OK].

The factory default user name is "root" and the password is "system".

Connect to 192	168,254,254	2 🛛
8		A.C.
SEORET PAGE		
User name: Password:	2 root	×
	<u>R</u> emember my passu	Cancel

The projector settings screen is displayed in the web browser.

	Projectiv001		
Network	Present		
NMPJ Password	User runne.	root	4 15 character
Mail	New password	*****	4-15 character
Mail auth	Confirm new password		+15 character
Send test mail	T:9/9		
SNMP	DHOI	011	
Projector infa	P altres	192368-253-254	
PjLink	Subriet mask	255.255.255.0	
Crestron Controller	Default gateway	6.6.6.5	

-7 To operate the projector from the computer, click [Projector control] (P195).



Network Setting

1 To access the settings screen, click [Settings] on the web screen in step 3 of "Displaying the Network Configuration Screen" (P181).

	WUX450	Project	er control - Back to top
	Projector(0)]		
Network	Passed		
NMPJ Password	User name.	root	4 15 character
Mail	New password		4 15 character
Mail auth	Confirm new password		+15 character
Send test mail	1:9(p		
SNMP	DHOI	OFF	•
Projector info	P altres	192.168.253.254	
PjLink	Subnet mask	255.255.255.0	
Crestron Controller	Default gateway	6888	
(vettalize			

 $\bf 2$ Select the function to set from the menu (1), then enter the setting in the displayed field (2) and click [OK] (3).



3 A confirmation window appears. Check the contents and if they are correct, click [Apply].

	WUX450 Projector001	Projector control Reck to top
		Sweet gay units; cd.
Network	To:	Kaliler Account
NMPj Password		
Mail	From:	Projector@carlon.co.jp
Mail auth	SMTP server 1P address	
Send test mail	SMTP sever port number	
and the state of t	SMTP sever IP address.	
SNMP	Time zone	(GMT) Duble, Labon, London
Projector info.	Mal resent interval	
PJLink	Mail resend tares	
Crestron Controller	Enter ingent	

The settings are applied to the projector.

When you select [Network] in the menu, this message is displayed: "Save completed. Please change setting and reconnect."

If you select functions other than [Network], "Save completed" is displayed. Click [Back to top] to return to the top page of the web screen.

	WUX450 Projector001	Projector comment
		Save companies
Network		
NMPJ Password		
Mait		
Mail auth		
Send test mail		and the second sec
SNMP		
Projector info.		
PJLink		
Crestron Controller		
initatie 🔤		

Setting Basic Information [Network]

From [Network] in the settings screen, you can log into the web screen and set basic network information. For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181).

	WUX450	Projector	control Back to top
	Projector001		
Network	Passert		
NMPJ Password	liber ratie	root	4 15 characters
Mail	New parameterd	*****	4.15 characters
Mail auth	Confirm new password		4-15 characters
Send test mail	119(p)		
SNMP	DHON	OFF	
Projector info	P altres	192368-253-254	
PjLink	Subret mask	255.255.255.0	
Crestron Controller	Default gateway	6.6.8.	
			Grat

Item	Explanation	Factory default setting
Password	•	
User name	When logging into the web screen, enter the user name in 1-byte alphanumeric characters and symbols (4 - 15 characters).	root
New password	When logging into the web screen, enter the password in 1-byte alphanumeric characters and symbols (4 - 15 characters).	system
Confirm new password	For confirmation, enter the same password that you entered in [New password].	system
TCP/IP		
DHCP	Select whether to turn the DHCP function on or off. If the function is on, because the IP address is acquired from the server, it is not possible to enter the [IP address], [Subnet mask], and [Default gateway].	OFF
IP address	Enter the IP address of the projector in 1-byte numbers.	192.168.254.254
Subnet mask	Enter the subnet mask in 1- byte numbers.	255.255.255.0
Default gateway	Enter the default gateway IP address in 1-byte numbers.	0.0.0.0

If settings related to TCP/IP were changed, it is necessary to disconnect and reconnect to the network.

If the network subnet mask was changed, select [Subnet mask] in the above screen and set the new subnet mask.

Specifying Networked Multi-Projection Settings: [NMPJ Password]

From [NMPJ Password] in the settings screen, you can specify the items needed for NMPJ authentication. For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181).



Item	Explanation	Factory default setting
Password	Enter the password for networked multi-projection authentication in single-byte alphanumeric characters (0- 15 characters).	<blank></blank>
Confirm password	For confirmation, enter the same password as you entered in [Password].	<blank></blank>

Setting Up Email [Mail]

From [Mail] in the settings screen, you can set the items necessary to send error mails and test mails. For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181).



Item	Explanation	Factory default setting
To:	Enter the recipient address for error mails in 1-byte alphanumeric characters and symbols (1 - 63 characters).	MailUserAccount
Cc:	Enter the CC address for error mails in 1-byte alphanumeric characters and symbols (1 - 63 characters).	<blank></blank>
From:	Enter the sender address for error mails in 1-byte alphanumeric characters and symbols (1 - 63 characters).	Projector@canon.co.jp
SMTP server IP address	Enter the SMTP server IP address in 1-byte numbers.	0.0.0.0
SMTP server port number	Enter the SMTP server port number in 1-byte numbers (1 - 65535).	25
SNTP server IP address	Enter the SNTP server IP address in 1-byte numbers.	0.0.0.0
Time zone	Select the time zone where the projector is used.	(GMT) Dublin, Lisbon, London
Mail resend interval	Enter the interval for resending mail when an error occurred (units: seconds) within the range of 0 - 59 seconds using 1-byte numbers.	10
Mail resend times	Enter the number of times to resend mail when an error occurred within the range of 0 - 255 using 1-byte numbers.	3
Error report	Select whether to turn the error mail sending function on or off.	OFF

Mail Authentication Settings [Mail auth]

From [Mail auth] in the settings screen, you can configure the settings for authentication of mail that is sent when an error occurs. For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181).



Item	Explanation	Factory default setting
Mail authentication	Select the mail authentication method. If OFF is selected, the other mail authentication settings cannot be changed.	OFF
User name	Enter the user name to use for mail authentication in 1-byte alphanumeric characters and symbols (1 - 63 characters).	<blank></blank>
Password	Enter the password for mail authentication in 1-byte alphanumeric characters and symbols (1 - 63 characters).	<blank></blank>
Confirm password	For confirmation, enter the same password as you entered in [Password].	<blank></blank>
POP3 server IP address	Enter the POP3 server IP address in 1-byte numbers.	0.0.0.0
POP3 server port number	Enter the POP3 server port number in 1-byte numbers (1 - 65535).	110
POP before SMTP response time	Enter the SMTP authentication timeout period after POP3 authentication (units: milliseconds) using 1-byte numbers (0 - 9999 milliseconds).	300

Sending a Test Mail [Send test mail]

From [Send test mail] in the settings screen, you can send a test mail to the mail address that was set in [Mail]. The settings cannot be changed from this screen.



Item	Explanation
To:	The recipient address which was set from [Mail] in the settings screen (P186) is displayed.
Cc:	The CC address which was set from [Mail] in the settings screen (P186) is displayed.
From:	The sender address which was set from [Mail] in the settings screen (P186) is displayed.
Subject:	The predetermined mail title "Canon Projector test" is displayed.

SNMP Settings [SNMP]

From [SNMP] in the settings screen, you can configure the settings related to control of projectors which use SNMP (Simple Network Management Protocol). For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181).



Completing Computer Settings

Item	Explanation	Factory default setting
SNMP	Select the SNMP function version. If OFF is selected, the SNMP function will be turned off and the other settings in this screen cannot be changed.	OFF
Receive community	Enter the community name which will receive projector information in 1-byte alphanumeric characters and symbols (1 - 15 characters).	<blank></blank>
Password	Enter the community settings password in 1-byte alphanumeric characters and symbols (8 - 15 characters). It can be set only when the SNMP version is V3.	<blank></blank>
Confirm password	For confirmation, enter the same password as you entered in [Password].	<blank></blank>

Setting Projector Information [Projector info.]

From [Projector info.] in the settings screen, you can set the names and location names which are used to identify projectors when multiple projectors are installed on the network. For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181).



ltem	Explanation	Factory default setting
Projector name	Enter the projector name in 1-byte alphanumeric characters and symbols (1 - 63 characters).	Canon Projector001
Location	Enter the projector installation location in 1-byte alphanumeric characters and symbols (0 - 63 characters).	<blank></blank>

7

Some characters such as # cannot be used for [Projector name] and [Location].

Setting PJLink [PJLink]

From [PJLink] in the settings screen, you can set the PJLink functions which are the standard for projector management on a network. For the setting procedure, refer to "Displaying the Network Configuration Screen" (P181). For information about PJLink, refer to "What is PJLink?" (P176).



Item	Explanation	Factory default setting
PJLink	Turn the PJLink function on or off. If OFF is selected, the PJLink function will be turned off and the other settings in this screen cannot be changed.	ON
PJLink authentication	Select whether to turn the PJLink authentication function on or off. If OFF is selected, [Password] and [Confirm password] cannot be changed.	ON
Password	Enter the PJLink authentication password in 1-byte alphanumeric characters (1 - 32 characters).	system
Confirm password	For confirmation, enter the same password that you entered in [Password].	system

Setting Up a Controller Manufactured by Crestron Electronics [Crestron Controller]

From [Crestron Controller] in the settings screen, you can set parameters for communication via controllers manufactured by Crestron Electronics.

	WUX450 Projector001		
\smile			
Network	PD	1	
NMPJ Password	P abbes	127.0.0.1	
Mail	Port number	41794	
Mail auth			RO.F.
Send test mail			
SNMP			
Projector infa			
Crestron Controller			

Completing Computer Settings

Item	Explanation	Factory default setting
IP ID	Specify the controller's IP ID.	3
IP address	Specify the controller's IP address.	127.0.0.1
Port number	Specify the controller's port number.	41794

Setting Errors

When a setting-related error occurs, the error name is displayed on the screen, and a "!" mark is displayed next to the input field which caused the error.



The error meanings are as shown below.

Error	Meaning
Input error	A setting outside the valid range was set on the settings screen.
Password setting error	The set password and confirmation password did not match.
Invalid SMTP	The SMTP server IP address has not been set.
System failed to connect SMTP server.	Failed to connect to the SMTP server when sending a test mail.
System failed to connect POP3 server.	Failed to connect to the POP3 server attempting to send a test mail.
System doesn't support this auth type.	An authentication type was set which is not supported by the server.
System failed to authenticate.	Authentication failed attempting to send a test mail.
The system failed to send the test mail.	Sending of test mail failed due to a connection failure with the SMTP server or an error which does not ordinarily occur.
Unknown error	Unknown error

Resetting Network Settings to the Default Settings

- **1** Perform steps 1 3 on "Displaying the Network Configuration Screen" (P181) to display the settings screen.
- **2** Click [Initialize].

	WUX450	Projecturio	ontrol Beck to top
	Projector001		
	Internet de		
Network	(free to)		
NMPJ Password	User runne.	root	415 characters
Mail	ferw passecrid	*****	4-15 characters
Mail auth	Contra new paramet		+15 characters
Send test mail	1978		
SNMP	DHOI	ort	
Projector info	IF althes	192.168.253.254	
PjLink	Subret mark	255.255.255.0	
Crestron Controller	Default gateway	6.8.8.	

3 A confirmation window appears. Click [OK].

Error Notification Mails

The messages shown in the following error list are sent when an error occurs in the projector.

Error list

Errors related to	Error name	Temperature abnormality
temperature	Text	The temperature inside the projector is too high for some reason or the outside air temperature is higher than the specified one. If the problem is inside the projector, check whether the projector is installed and operated normally, turn off the projector to cool its inside, and retry projection. If the same warning occurs again, the projector may be defective. Contact your dealer.
Errors related to	Error name	Faulty lamp
the lamp	Text	The lamp has burnt out. Replace the lamp with a new one. If the same warning occurs again, the lamp drive circuit may be defective. Contact your dealer.
Errors related to	Error name	Faulty cooling fan
the fan	Text	The cooling fan or another component may be defective. Contact your dealer.
Errors related to	Error name	Faulty air filter unit
the air filter	Text	The air filter unit is not installed properly. Check whether the air filter unit is installed properly. If it is installed properly, the air filter unit detection switch may be defective. Contact your dealer.
Errors related to	Error name	Faulty power supply
the power	Text	The voltage of part of the power supply is abnormally high or any other problem has occurred in the power supply. Contact your dealer.

Control via the Web Screen

When the projector is connected to a network, it is possible to control the projector from a computer via the network.

- **1** Turn on the computer and projector.
- 2 Launch a web browser, enter "http://(projector IP address)" in the address bar, and press the Enter key.

The projector web screen appears.



The factory default IP address is "192.168.254.254". If DHCP settings are used, ask the network administrator for the projector IP address. It is possible to check the IP address from the projector menu.

3 Click [Projector control] on the web screen.

The password input window appears.

4 Enter the user name and password on the password input window, then click [OK].

The factory default user name is "root" and the password is "system".

Connect to 192	.168.254.254 🛛 👔 🔀
7	
SEORET PAGE	
User name:	🖸 root 💌
Password:	
	Remember my password

[Projector control] screen appears.



The projector control screen appears. The projector can be controlled from this screen.

ltem	Explanation
Projector name	The name of the connected projector is displayed. (P190)
IP address	The IP address of the connected projector is displayed. (P195)
Refresh	Refreshes the displayed contents with the most recent information.
Power	Turns projector power on or off.
Input	Select an input signal and click [Apply] to change to that input signal. (P53)
Aspect	Select an aspect and click [Apply] to change to that aspect. (P66)
Image mode	Select an image mode and click [Apply] to change to that image mode. (P71)
Blank	Switches the blank setting on or off. (P76)
Mute	Switches the mute setting on or off. (P77)
Auto PC	Click [Apply] to perform Auto PC adjustment. (P57)
Split screen	Select the setting for split-screen mode and click [Apply] to switch to split-screen projection.
Split screen control	Select the control rights setting for split-screen mode and click [Apply] to switch the side currently under control.
Information	The control results and control error information are displayed at the top of the screen.

5 When the operations are finished, click [Back to top] to return the initial web screen.



Maintenance

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Cleaning the Projector

Clean the projector frequently to prevent dust from settling on the surface. A dirty lens may ruin the quality of the projected image.

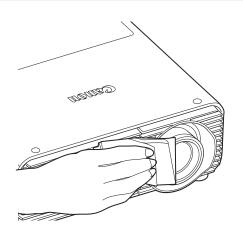


When cleaning the projector, make sure to turn off the projector, wait until the cooling fan stops, disconnect the power plug from the electrical outlet, and let the projector stand for at least 1 hour. Otherwise, you may get burned because the main unit is very hot immediately after the projector is turned off.

Wipe the projector's main unit softly with a soft cloth.

If the projector is heavily soiled, soak the cloth in water with a small amount of detergent in it, squeeze the cloth thoroughly, and then wipe the projector with it. After cleaning, wipe the projector with a dry cloth.

- Never use volatile cleaning liquid or benzine, as these may damage the finish of the projector.
 - When using a chemical dust cloth, make sure to read the instructions thoroughly.
 - When cleaning the projector's lens, use a commonly available air blower or lens cleaning paper. The lens surface is easily damaged, so do not use a hard cloth or tissues.



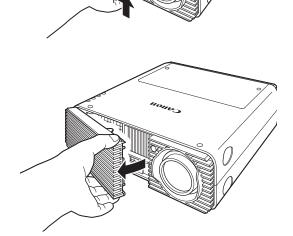
Cleaning and Replacing the Air Filter

Replacing the Air Filter

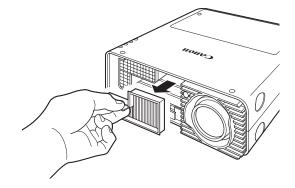
Follow the procedure below when replacing the air filter.

- **1** Turn off the projector power and remove the power plug.
- 2 As you press the top and bottom of the air filter cover to release the lock, remove the cover.

3 Open the filter cover and remove it.



4 Remove the air filter.



Maintenance

5 Follow this procedure in reverse to install a new air filter.

- Handle the air filter carefully. If damaged, the air filter will not work properly.
- When the lamp is replaced, it is recommend that you also clean or replace the air filter.
- Contact the Canon Customer Support Center for further information.
- Replacement air filter part number: RS-FL02
- This can also be purchased from the Canon website.

Cleaning the Air Filter

The air filter protects the lens and mirror inside the projector from dust and dirt. Should the air filter become clogged with dust, the projector may be damaged since it will block the air flow into the projector and raise the internal temperature of the projector. The following screen is displayed when turning on the projector if the air filter needs to be cleaned (after approx. 300 hours). Clean the air filter if it is displayed.



- Only the [<], [>], OK and POWER buttons are available while this screen is displayed. (When you press the POWER button, the "Push POWER button again to turn off power." message appears.)
- When this screen has disappeared after being displayed for 10 seconds, all buttons become operable.
- Turn the power of the projector off and pull out the power plug.
- Hook your finger around the air filter handle on the front of the projector and remove the air filter. Use a vacuum cleaner to clean off the dust.
- If the air filter cleaning screen is displayed when turning on the projector after cleaning the air filter, select [Yes] and press the **OK** button. The air filter cleaning screen will disappear.
- This screen is not displayed when [Air filter warning display] is set to [Off]. (P157)

Do not rinse the air filter in water, which may damage the air filter and projector.

Replacing the Lamp

When the usage time of the lamp exceeds a certain amount of time, the following message (two types) is displayed for 10 seconds every time the projector is turned on.

2,700 hours to less than 3,000 hours



Prepare a new lamp when this screen is displayed.

- Only the [◀], [▶], OK and POWER buttons are available while this screen is displayed.
- When you press the **POWER** button, the "Push POWER button again to turn off power." message appears.
- When this screen has disappeared after being displayed for 10 seconds, all buttons become operable.
- This message will not be displayed again if you select [No] in response to the message "Do you want to display this message again?".

3,000 hours or more



If this screen is displayed, replace the lamp by referring to the procedure on page 202.

- Only the **POWER** button is available while this screen is displayed.
- When you press the **POWER** button, the "Push POWER button again to turn off power." message appears.
- When this screen has disappeared after being displayed for 10 seconds, all buttons become operable.
- You can check the usage time of the lamp in [Lamp counter] in the [System settings] menu. (P119)
- This screen is not displayed when [Lamp warning display] is set to [Off]. (P156)

Replacement Lamp

This projector uses the following lamps.

Lamp part no.: RS-LP08

Warning

Contact the Canon Customer Support Center when purchasing a replacement lamp.

Precautions when replacing lamps that stop working If the illumination suddenly stops when the projector is in use or after you turn it on, the lamp may be broken. In this case, never attempt to replace the lamp by yourself. Always request service from the Canon Customer Support Center. Additionally, with ceiling-mounted projectors, the lamp may fall out when you open the lamp cover or while you are attempting to replace it. During replacement, stand to the side of the lamp cover, not directly under it. If the lamp breaks and any glass shards or other pieces get in your eyes or mouth, consult a doctor immediately.



When replacing the lamp, turn off the projector, wait until the cooling fan stops, disconnect the power plug from the electrical outlet, and let the projector stand for at least 1 hour. Otherwise, you may get burned because the main unit is very hot immediately after the projector is turned off.

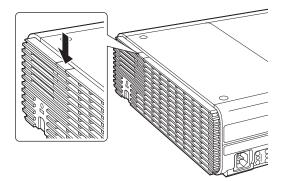
- Be sure to use the specified lamp.
- Contact the Canon Customer Support Center for further information. This can also be purchased from the Canon website.



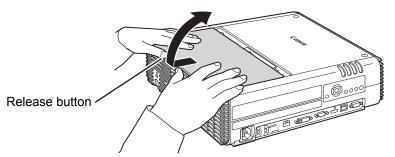
- Do not touch the inner glass surface when you replace the lamp. Doing so may cause deterioration to the projector's performance.
- Handle lamps with care. Impact or abrasion may cause lamps to rupture while they are in use. If a lamp ruptures, contact the Canon Customer Support Center and follow the instructions in "Precautions when replacing lamps that stop working" (P26).
- When replacing the lamp, do not remove any screws other than those specified.

Replacing the Lamp

- **1** Turn off the projector power and remove the power plug.
- **2** Press the lamp cover release button to release the lock.



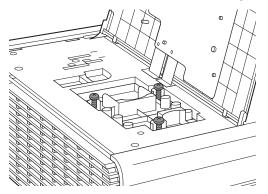
3 As you hold down the lamp cover release button, slide the lamp cover toward the back, and then lift the cover to open it.



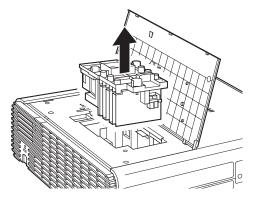


As you slide the lamp cover toward the back, be careful not to pinch your fingers between the lamp cover. We recommend using both hands to slide the cover, as shown.

4 Loosen the three screws securing the lamp unit.



5 Remove the lamp unit.



6 Follow this procedure in reverse to install a new lamp unit.

7 Turn on the power. Bring up the menu and select [System settings] - [Other settings] - [Lamp counter].

	N	1		0	System settings
User	screen	setting	s		
Auto	power-	-off		15 min.	
Direc	t powe	r on		On	
Beep				On	
Key r	epeat			Оп	
Key I	ock			Off	
Remo	te cont	trol cha	annel	Independe	ent
Motin	on blur	reduct	ion	Off	
HDM	În			Auto	
Language			English		
Othe	r settin	qs			

Other settings		
Password settings	Off	
Register password		
Gamma restore	Off	
Lamp counter		
Air filter counter		
Firmware	00.010002	
Factory defaults		
Return		

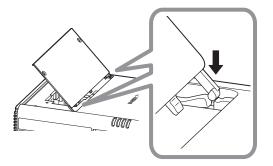
8 Select [Reset] - [Yes] to reset the lamp counter.

Lamp count	er			Lamp counter reset	
	3100H				changing the lamp. mp counter?
	Reset	Return		Yes	No

- We recommend cleaning or replacing the air filter (part no.: RS-FL02) when you replace the lamp.
 - Contact the Canon Customer Support Center for further information.

■ If the Lamp Cover Comes Off

Align the point of attachment on the lamp cover with the groove on the projector and gently push the lamp cover to attach it.



MULTIMEDIA PROJECTOR WUX450 WX520 WUX400ST WX450ST Networked Multi-Projection (NMPJ)



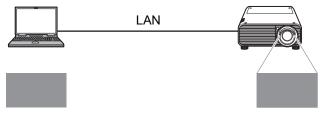
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Networked Multi-Projection Overview

Introduction to Networked Multi-Projection

Projection Over a Network

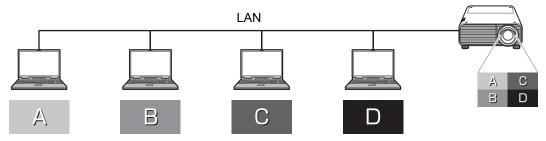
Networked Multi-Projection (NMPJ) is a projector function enabling projection of computer screens over a local network. Multiple computers and multiple projectors can be connected, for a variety of projection scenarios.



Links computers and projectors via a network connection.

Split-Screen Projection of Multiple Images

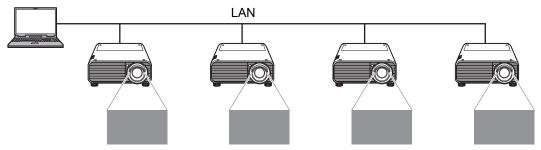
Images from multiple computers can be projected at once, with the images projected in separate areas of a single screen.



Projection of multiple computer screens in split-screen display.

Projection of an Image from Multiple Projectors at Once

Images from a single computer can be projected from multiple projectors at once.



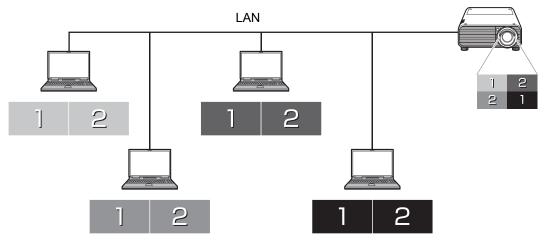
Selecting the Projection Monitor

For multi-monitor computers, you can project either the primary or secondary monitor.



Select the primary or secondary monitor for projection

For each computer, you can select the monitor to project.



Select the primary or secondary monitor of each computer

- · With some computers, it may not be possible to switch between projection of the = primary and secondary monitor.
 - · The application responsiveness may decline when many computers and projectors are connected over the network.
 - · For computers that support three or more monitors, the monitor used for projection varies depending on the model of computer.

Installation

To use the NMPJ function, you must install the NMPJ application. Instructions in this manual are for installation in a Windows 7 environment.

System Requirements

Application system requirements are as follows.

CPU	Core 2 Duo P8600, 2.4 GHz or higher (32- or 64-bit)
Memory	1 GB or more
HDD	32 GB or more
Monitor	1024x768 min. resolution



Cannot be installed on computers without a minimum resolution of 1024x768. Additionally, operation is not ensured if the resolution is switched to less than 1024x768 after installation.

Operating System

Windows XP Professional SP3 Windows Vista Business SP2

Windows 7(Home/Professional/Ultimate) SP1

- * Windows XP and Vista compatibility is limited to 32-bit editions.
- * Both 32- and 64-bit editions of Windows 7 are supported.



- Operation is not ensured in other operating systems or editions.
- Menus are in English in all cases, except in Japanese and Simplified Chinese versions of the application.
- Operation is not ensured in operating systems other than English, Japanese, or Simplified Chinese OSes.
- Operation is not ensured in Windows 8.
- Network In TCP/IP network environments, projectors can be connected to computers via the following LAN connections. Wired LAN (1000BASE-T, 100BASE-TX)



- Although the application also supports computer-projector communication over a router, operation is only ensured over one router hop. Additionally, to use Broadcast mode (P249) with projectors in other subnets, the router must support IPv4 multicast routing. Note that the router must be set up to route multicast addresses used by the application.
 - If you are using an Aero style in Windows, this message may be displayed: "Do you want to change the color scheme to improve performance?"

Installation

The application is stored in the projector's internal memory. To install it on a computer, use a web browser on the computer to access the projector and download the application.

- For instructions on connecting to the computer over a network, refer to "Connecting to a Network" (P167).
 - Double click the installer. The installation startup message, "License Agreement", and the firewall registration confirmation message are displayed in order.
 - Click [Yes] to set the Windows Firewall setting automatically and install NMPJ.
 - NMPJ is installed even if [No] is clicked; however, the warning message is displayed, indicating that the firewall is required to be set manually. Refer to "Windows Firewall" (P215) for more detailed information on how to set the firewall manually. Depending on the setting of the firewall, it may fail to detect the projector automatically.
- **1** On the computer, start a web browser and connect to the projector. For instructions on accessing the projector's web screen with a browser, refer to "Completing Computer Settings" (P178).

Canon	WUX450		
	Projector statue	Projectar001	
	Location		
	MC ables	DENO:DEXD SELF	
Network Multiple Projection	P address		
Download	Prestan		
كمطلقه	Langeloderullower		
Projector control	LangHockPowerSaver		
Settings	LampTeneConverted		
	riterTine .		

To check the projector's IP address, refer to the [Network settings] tab on the projector, or select [LAN] as the input signal.

- **2** Click [Network Multiple Projection Download].
- **3** Click [Download].



4 When a confirmation message is displayed, click [Run].



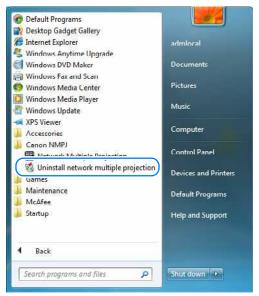
5 If a [User Account Control] message is displayed, click [Yes].

		v the following program to make puter?
٩	Program name: Verified publisher File origin:	Universal Installer Windows r: Canon Inc. Hard drive on this computer
Show <u>d</u> et	ails	<u>Y</u> es <u>N</u> o
		Change when these notifications appear

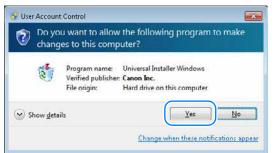
- **6** Next, follow the instructions displayed to complete the installation process.
 - In Windows 7 and Windows Vista, confirmation or warning messages may be displayed during installation or uninstallation.
 These messages request administrator credentials from the current user. If you are logged in as a user with administrator credentials, click [Yes] (or [Continue]) to continue.
 - Depending on the software, you may not be able to continue without administrator credentials. If you are logged in as a standard user, switch to an administrator account and try again.
 - You may need to restart the computer to complete the installation process. If restarting is requested, be sure to restart the computer.

Uninstallation

1 Select [Start] > [All Programs] > [Canon NMPJ] > [Uninstall network multiple projection].



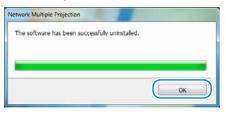
2 If a [User Account Control] message is displayed, click [Yes].



3 After the confirmation message is displayed, click [OK].



4 After uninstallation is finished, click [OK] when the confirmation message is displayed.



• You may need to restart the computer to complete the uninstallation process. If restarting is requested, always restart the computer.

5 Delete the following folder manually. Windows XP

C:\Documents and Settings\<User Name>\Local Settings\Application Data\Canon\NMPJ

Windows Vista

C:\Users\<User Name>\AppData\Local\Canon\NMPJ

Windows 7

C:\Users\<User Name>\AppData\Local\Canon\NMPJ

These files are hidden. To view hidden files in Windows Explorer, select [Folder options] > [View] > [Show hidden files, folders, and drives].

From Startup to Shutdown

The procedure from application startup to shutdown is as follows. Example windows shown here are from Direct mode.



If startup is not possible and a message is displayed indicating that NMPJSystem.dll could not be found, uninstall the application. If restarting is requested, always restart the computer. Reinstall the application and try again. (Do not attempt to install the application over an existing installation. Be sure to uninstall it first.)

1 Select [Start] > [All Programs] > [Canon NMPJ] > [Network Multiple Projection].





Windows Firewall

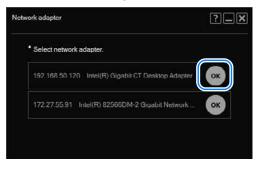
The following alert may be displayed the first time you start the application, depending on your Windows Firewall settings.

To enable communication with projectors, select all check boxes and click the [Allow access].



(Screen from Windows 7)

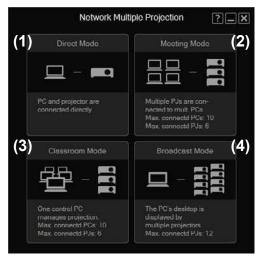
2 If the computer is equipped with multiple network adapters, a selection window is displayed. Click [OK] next to the desired network adapter.



- The same three buttons are shown in the upper right of this window and subsequent windows. (Additional buttons are shown on some windows.)
 - []

[1] View application help.

-] Minimize the window to the taskbar. To view the window again, click the taskbar icon.
- [🔣] Close the window.
- 3 On the mode selection window, click the desired mode.



(1) Direct Mode

When one computer is connected to one projector. (P224)

(2) Meeting Mode

When multiple computers are connected to multiple projectors. Useful when showing multiple computer screens during meetings or other events. (P234)

(3) Classroom Mode

When multiple computers are connected to multiple projectors. Gives a single presenter control over the specific computer and projector used for projection. (P245)

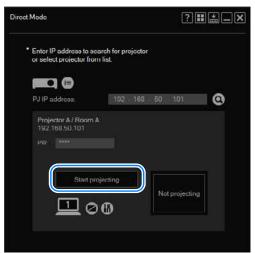
(4) Broadcast Mode

When a single computer is connected to multiple projectors. Useful when multiple projectors are installed at various positions in an auditorium to project the same image. (P252)

4 Depending on the mode, you can create, join, or select a projection session.

5 Click [Start projecting].

Click [Start projecting] on the window to start projection.



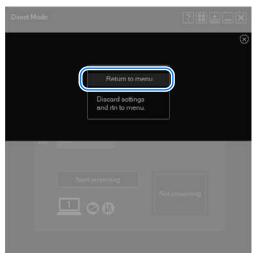
6 To stop projection, click [Stop projecting].



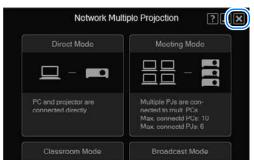
7 To return to the mode selection menu, click 🔳 or 🔀 in the upper right.



8 After a confirmation message is displayed, click [Return to menu].



9 To exit the application, click **x** in the upper right of the mode selection menu.



Projection Sessions

A session consists of all the computers and projectors used in projection. In Meeting and Classroom modes, the first user must create a session for the computers and projectors involved. Other users join the session by selecting it from a list of sessions. In Broadcast mode, users can create a session automatically by selecting a projector.

Operation in Each Mode

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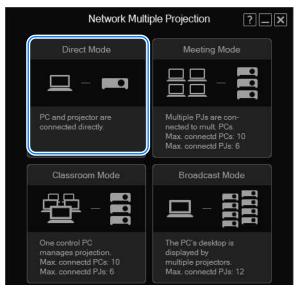
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Using the Projector in Direct Mode

In this mode, one computer is connected to one projector over the network.

Procedure

1 In the mode selection menu, select [Direct Mode].



2 The Direct Mode window is displayed. Click 🔳 .



To connect to projectors in another subnet, enter the projector's IP address in the [PJ IP address] field and click .

3 The projector selection menu is displayed. Click the projector to connect to.



For details on the projector selection menu, refer to "Using the Projector Selection Menu" (P258).

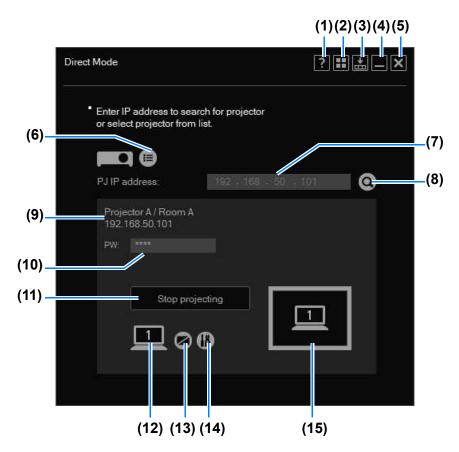
4 The Direct Mode window is displayed again. Click [Start projecting].

Direct Mode		? 🔡	*X
Enter IP address to searc or select projector from li			
PJ IP address:	192 - 168 -	50 . 101	0
Projector A / Room A 192.168.50.101 FW: ****			
	cting	Not projecting	

The computer screen is now projected.

- · If the [NMPJ Password] setting has been configured on the projector's settings screen -7
 - (P186), the password is now requested. Enter the password.
 - To stop projection, click [Stop projecting].
 - A BUSY icon () indicates that the projector is not available, whether it is off, in use by other computers, or unavailable for other reasons. The BUSY icon (updated automatically. To view updated projector status, select or search for projectors again.

Direct Mode Window



(1) Help

View application help.

- (2) Back to mode selection Return to the mode selection menu.
- (3) Compact display View the window at a compact size. (P274)
- (4) Minimize

Minimize the window to the taskbar. To view the window again, click the taskbar icon.

- (5) Exit Return to the mode selection menu.
- (6) Projector list

View a list of projectors.

(7) IP address

To connect to projectors in another subnet, enter the projector's IP address here and click (8).

(8) Find projectors

Find the projector with the IP address entered in (7). Results of projector searching are shown in (9).

(9) Projector information

Indicates the name, installation location, and IP address of the projector selected in the list or found after searching by IP address.

(10) Password

Passwords for projectors on which [NMPJ Password] on the projector's settings screen has been configured (P186) must be entered here before projection.

(11) Start

Start projection by the selected projector. During projection, this button is labeled [Stop projecting] and can be clicked to stop projection.

(12) Switch primary/secondary monitor

A number is shown here only when secondary monitor connectivity is activated on the computer. Clicking the number will switch between the primary and secondary monitor.

(13) Blank the projector

Pause projection. Click again to resume projection.

(14) Settings

Display the settings window. (P272)

(15) Projection status

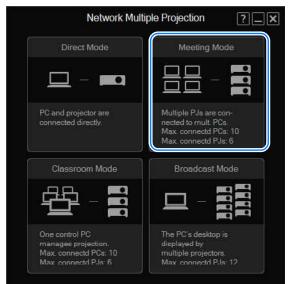
Indicates the projection status.

Using the Projector in Meeting Mode

In meeting mode, multiple computers are connected to multiple projectors. This mode is intended for group meetings where multiple computers are used. Up to ten computers and six projectors can be connected.

Creating a Session

1 In the mode selection menu, select [Meeting Mode].

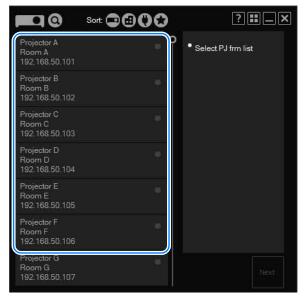


2 The session selection menu is displayed. Click [New].



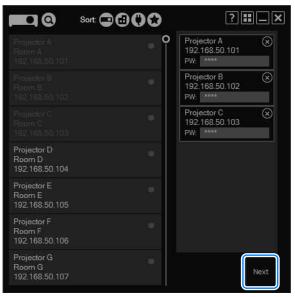
3 The projector selection menu is displayed. In the list of projectors at left, click the projector to connect to.

You can select up to 6 projectors. Selected projectors are listed at right.

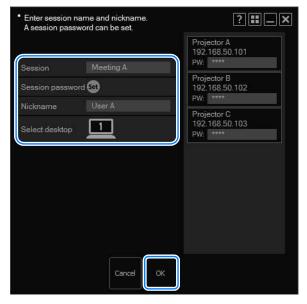


- If the [NMPJ Password] setting has been configured on the projector's settings screen -7 (P186), the password is now requested. Enter the password.
 - To clear a selected projector, click 🔘 in the upper right of that projector listing.
 - For details on the projector selection menu, refer to "Using the Projector Selection Menu" (P258).

4 Click [Next].



5 A window for creating the session is displayed. Specify a session name, password, nickname, and desktop (primary or secondary monitor for projection), and then click [OK].



- If you choose to set a session password, other users must enter that password to join the session. To set a password, click [Set] and enter the password.
 - Desktop selection is only available with computers that have dual monitor support.
- **6** The Meeting Mode window is displayed. Select a projector to control from the pull-down list.



7 In the list at right, select a computer to use with your designated projector. Drag the computer to a desired position in the layout area. You can arrange up to four computers as desired in the layout area.

Meeting Mode Session: Meeting] A	?	
Projector A / Roor 192.168.50.101	nA		
		User A	ØØ
	g and drop a PC icon.	User B	
	Start projecting		
	Get layout		

8 Drag the computers for use in projection in the layout area to rearrange them, as needed.

During projection, screens of each computer will be arranged according to their position in the layout area.

Meeting Mode Session: Meeting	A	?	
Projector A / Room 192.168.50.101	A		Ť
		🛄 User A	-00
User A		User B	10.0 0
00	Start projecting Get layout		

9 Click [Start projecting].

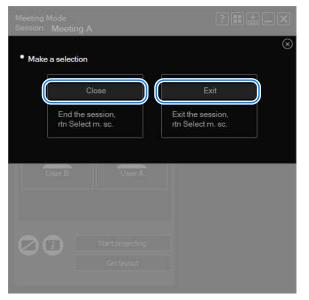


Images are now projected from the computers in the layout area.

- To stop projection, click [Stop projecting].
 - To rearrange the layout during projection, click [Start projecting] again. Note that if you simply rearrange the layout, the new layout will not be applied to projection.
- 10 To end the session, click \blacksquare or \blacksquare in the upper right.

Meeting Mode Session: Meeting A	?##_×
Projector A / Room A 192.168.50.101	×
	🖵 User A 🛛 🗝 📿 🚯
User A User B	
Start projecting Get layout	

11 The following confirmation message is displayed. To end the entire session, click [Close]. To leave the session, click [Exit].

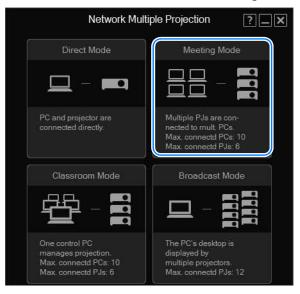


Return to the mode selection menu.

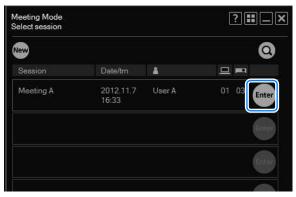
R [Exit] is not shown unless other computers are connected.

Joining a Session

1 In the mode selection menu, select [Meeting Mode].

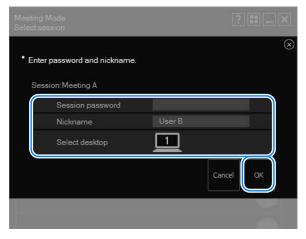


2 The session selection menu is displayed. Click [Enter] next to the session to join.



To join a session in another subnet, click and enter the projector's IP address to locate the projector. The application will search for sessions in the other subnet. For details, refer to "Using the Session Selection Menu" (P256).

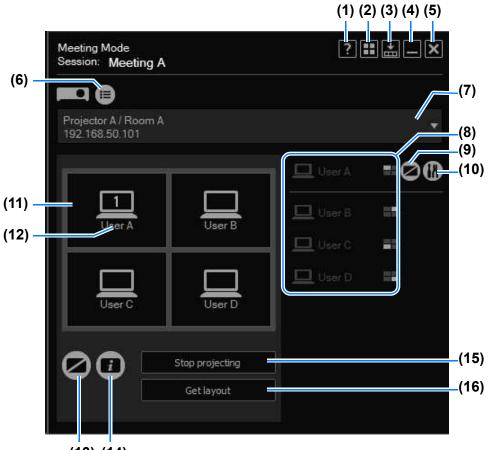
3 A session login window is displayed. Specify the session password, your nickname, and desktop (primary or secondary monitor for display), and then click [OK].



-7 Desktop selection is only available with computers that have dual monitor support.

4 The Meeting Mode window is displayed. Next, follow the instructions starting with step 6 in "Creating a Session" (P226).

Meeting Mode Window



- (13) (14)
- (1) Help

View application help.

(2) Back to mode selection Return to the mode selection menu.

(3) Compact display

View the window at a compact size. (P274)

(4) Minimize

Minimize the window to the taskbar. To view the window again, click the taskbar icon.

(5) Exit

Return to the mode selection menu.

(6) Projector list View a list of projectors.

(7) Projector pull-down list

Lists connected projectors. Your actions on this screen apply to the projector selected here.

(8) Computers

Lists connected computers. To prepare computers for projection, drag them to the layout area. Your own computer is listed first.

In **I**, the computer's display position is indicated by a white square.

(9) Blank the computer

Pause projection from the computer. Click again to resume projection.

(10) Settings

Display the setting window. (P272)

(11) Layout area

Drag computers to this area to assign their projection position.

(12) Computers in layout area

Computers here can be dragged to rearrange them. A number is shown here only when secondary monitor connectivity is activated on the computer. Clicking the number will switch between the primary and secondary monitor.

(13) Blank the projector

Pause projection from the projector. Click again to resume projection.

(14) View information

Project information needed by other users to join the session. The IP address projected is used by one of the projectors in the session.

(15) Start/stop projection

Start projection by the selected projector. During projection, this button is labeled [Stop projecting] and can be clicked to stop projection.

(16) Acquire screen layout

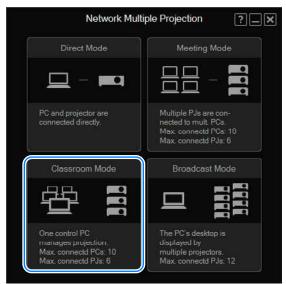
Indicates the layout of the selected projectors.

Using the Projector in Classroom Mode

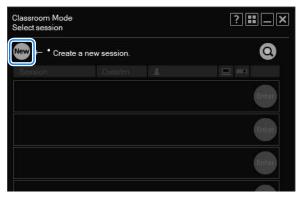
In classroom mode, multiple computers are connected to multiple projectors. A single presenter can control any computer or projector used for projection, whether their own or those of others in attendance. Up to ten computers and six projectors can be connected.

Leading a New Session

1 In the mode selection menu, select [Classroom Mode].

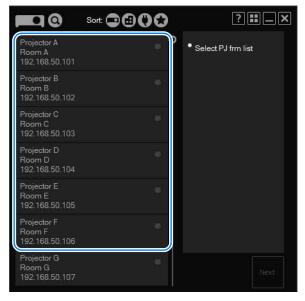


2 The session selection menu is displayed. Click [New].



3 The projector selection menu is displayed. In the list of projectors at left, click the projector to connect to.

You can select up to 6 projectors. Selected projectors are listed at right.

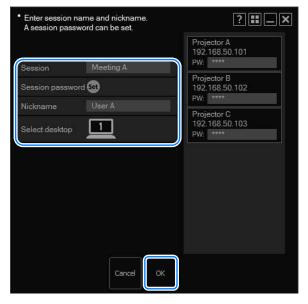


- · If the [NMPJ Password] setting has been configured on the projector's settings screen -(P186), the password is now requested. Enter the password.
 - To clear a selected projector, click 🔘 in the upper right of the projector listing.
 - For details on the projector selection menu, refer to "Using the Projector Selection Menu" (P258).

4 Click [Next].

0	Sort 📮 记 🗘 🗘	? ×
	• O	Projector A (X) 192.168.50.101 PW: ****
		Projector B (X) 192.168.50.102 PW: ****
		Projector C 🛞 192.168.50.103 PW: ****
Projector D Room D 192.168.50.104		1
Projector E Room E 192.168.50.105		
Projector F Room F 192.168.50.106		
Projector G Room G 192.168.50.107		Next

5 A window for creating the session is displayed. Specify a session name, password, nickname, and desktop (primary or secondary monitor for projection), and then click [OK].



- If you choose to set a session password, other users must enter that password to join the session. To set a password, click [Set] and enter the password.
 - Desktop selection is only available with computers that have dual monitor support.
- **6** The Classroom Mode window is displayed. Select a projector to control from the pull-down list.



7 In the list at right, select a computer to use with your designated projector. Drag the computer to a desired position in the layout area. You can arrange up to four computers as desired in the layout area.

Classroom Mode Session: Meetin	g A	?:::*-×
Projector A / Roor 192.168.50.101	nA	
		User A 🖉 🚯
		User B
	g and drop e PC icon.	
00	Start projecting	
	Get layout	

8 Drag the computers for use in projection in the layout area to rearrange them, as needed.

During projection, screens of each computer will be arranged according to their position in the layout area.

Classroom Mode Session: Meetin	g A	?	::
Projector A / Roor 192.168.50.101	nA		
		User A	-00
User A		User B	
ØŪ	Start projecting Get layout		

9 Click [Start projecting].



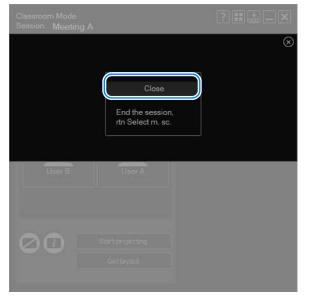
Images are now projected from the computers in the layout area.

- 4
- To stop projection, click [Stop projecting].To rearrange the layout during projection, click [Start projecting] again. Note that if you simply rearrange the layout, the new layout will not be applied to projection.

10 To end the session, click 🔠 or 🔀 in the upper right.

Classroom Mode Session: Meeting) A		
Projector A / Room 192.168.50.101	1A		
1		User A	-00
User A	User B	User B	
00	Start projecting Get layout		

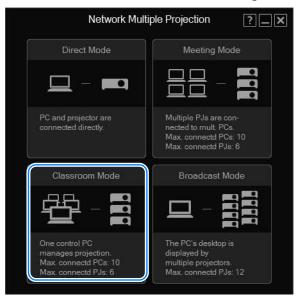
11 The following confirmation message is displayed. Click [Close].



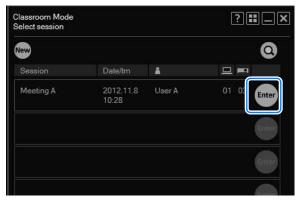
Return to the mode selection menu.

Joining an Existing Session

1 In the mode selection menu, select [Classroom Mode].

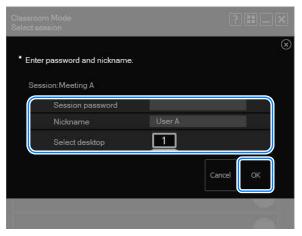


2 The session selection menu is displayed. Click [Enter] next to the session to join.



To join a session in another subnet, click and enter the projector's IP address to find the projector. The application will search for sessions in the other subnet. For details, refer to "Using the Session Selection Menu" (P256).

3 A session login window is displayed. Specify the session password, your nickname, and desktop (primary or secondary monitor for display), and then click [OK].



Desktop selection is only available with computers that have dual monitor support.

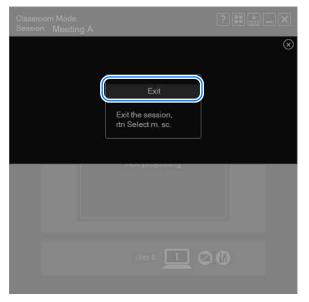
4 The Classroom Mode window (for joining a session) is displayed. Users joining sessions cannot change the projection layout or start or stop projection.

Classroom Mode Session: Meeting A	?	×
Projector A / Room A 192.168.50.101		
	1 User B	
	User 8 🔟 Ø 🕻)

5 To end the session, click \blacksquare or \blacksquare in the upper right.

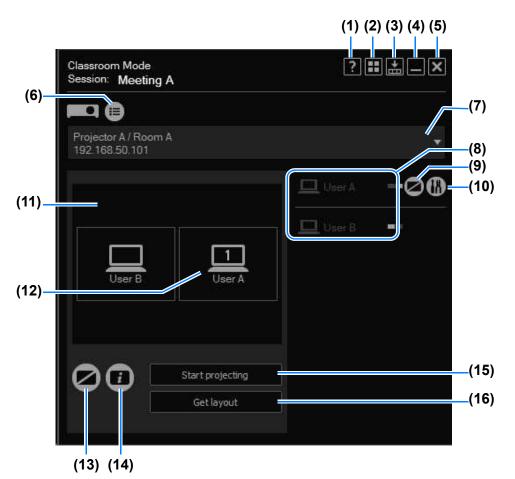


6 The following confirmation message is displayed. Click [Exit].



Return to the mode selection menu.

Classroom Mode Window (Starting a Session)



- (1) Help View application help.
- (2) Back to mode selection Return to the mode selection menu.
- (3) Compact display View the window at a compact size. (P274)
- (4) Minimize Minimize the window to the taskbar. To view the window again, click the taskbar icon.
- (5) Exit Return to the mode selection menu.
- (6) Projector list View a list of projectors.

(7) Projector pull-down list

Lists connected projectors. Your actions on this window apply to the projector selected here.

(8) Computers

Lists connected computers. To prepare computers for projection, drag them to the layout area. Your own computer is listed first.

In **set**, the computer's display position is indicated by a white square.

(9) Blank the computer

Pause projection from the computer. Click again to resume projection.

(10) Settings

Display the setting window. (P272)

(11) Layout area

Drag computers to this area to assign their projection position.

(12) Computers in layout area

Computers here can be dragged to rearrange them. A number is shown here only when secondary monitor connectivity is activated on the computer. Clicking the number will switch between the primary and secondary monitor.

(13) Blank the projector

Pause projection from the projector. Click again to resume projection.

(14) View information

Project information needed by other users to join the session. The IP address projected is used by one of the projectors in the session.

(15) Start/stop projection

Start projecting by the selected projector. During projection, this button is labeled [Stop projecting] and can be clicked to stop projection.

(16) Acquire screen layout

Indicates the layout of the selected projectors.

Classroom Mode Window (Joining a Session)

	(1) (2) (3) (4) (5)
Classroom Mode Session: Meeting A	? = = ×
Projector A / Room A 192.168.50.101	(6
	(7
Use	(8 r B
User B	
	(9) (10) (11)

- (1) Help View application help.
- (2) Back to mode selection Return to the mode selection menu.
- (3) Compact display

View the window at a compact size. (P274)

- (4) Minimize Minimize the window to the taskbar. To view the window again, click the taskbar icon.
- (5) Exit Return to the mode selection menu.
- (6) Projector pull-down list Lists connected projectors. Your actions on this window apply to the projector selected here.

(7) Layout area

Lists computers selected for projection.

(8) Projection status

Indicates the projection status.

(9) Computer

A number is shown here only when secondary monitor connectivity is activated on the computer you are using. Clicking the number will switch between the primary and secondary monitor.

(10) Blank the computer

Pause projection from the computer. Click again to resume projection.

(11) Settings

Display the setting window. (P272)

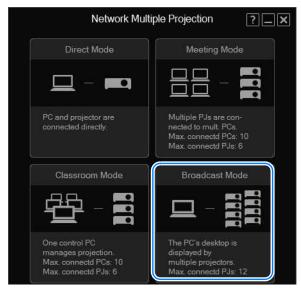
Using the Projector in Broadcast Mode

In Broadcast Mode, a single computer is connected to up to 12 projectors.

Before projecting from projectors in other subnets in Broadcast Mode, you must configure Û the router's multicast routing settings. For details, ask your network administrator.

Procedure

1 In the mode selection menu, select [Broadcast Mode].



2 The projector selection menu is displayed. In the list of projectors at left, click the projector to connect to.

You can select up to 12 projectors. Selected projectors are listed at right.

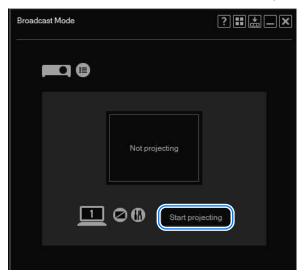


Using the Projector in Broadcast Mode

- If the [NMPJ Password] setting has been configured on the projector's settings screen (P186), the password is now requested. Enter the password.
 - To clear a selected projector, click 🔘 in the upper right of that projector listing.
 - For details on the projector selection menu, refer to "Using the Projector Selection Menu" (P258).
- **3** Click [Next].



4 The Broadcast Mode window is displayed. Click [Start projecting].



The computer screen is now projected.

To stop projection, click [Stop projecting].

To end the session, click 🔢 or 🐹 in the upper right. 5

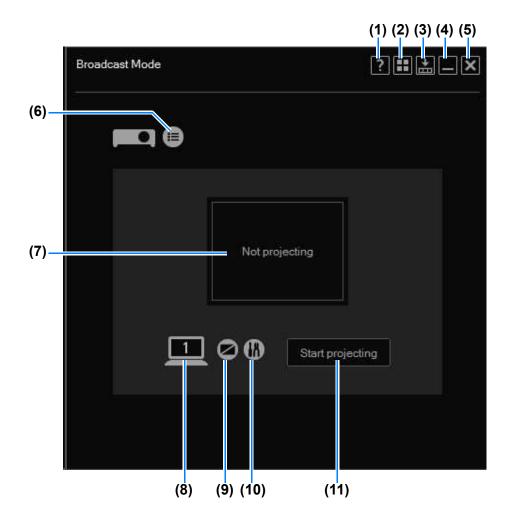


6 The following confirmation message is displayed. Click [Close].



Return to the mode selection menu.

Broadcast Mode Window



(1) Help

View application help.

- (2) Back to mode selection Return to the mode selection menu.
- (3) Compact display View the window at a compact size. (P274)
- (4) Minimize

Minimize the window to the taskbar. To view the window again, click the taskbar icon.

- (5) Exit Return to the mode selection menu.
- (6) Projector list View a list of projectors.

(7) Projection status

Shows the projected image status.

(8) Switch primary/secondary monitor

A number is shown here only when secondary monitor connectivity is activated on the computer you are using. Clicking the number will switch between the primary and secondary monitor.

(9) Blank the projector

Pause projection. Click again to resume projection.

(10) Settings

Display the setting window. (P272)

(11) Start

Start projection by the selected projector. During projection, this button is labeled [Stop projecting] and can be clicked to stop projection.

Functions in All Modes

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Before Use

Projecting an Image Operation **Useful Functions Available** During a Presentation Setting Functions from Menus Instal Installation Ilation and Maintenance Connecting to a Network Maintenance Networked Multi-Projectior Networked Multi-Projection Overview Operation in Each Mode Functions in All Modes Other Information Appendix Index

Using the Session Selection Menu

Session Selection Menu



(1) Help

View application help.

(2) Back to mode selection

Return to the mode selection menu.

(3) Minimize

Minimize the window to the taskbar. To view the window again, click the taskbar icon.

(4) Exit

Return to the mode selection menu.

(5) [New]

Start a new session. (P226)

(6) Find session Find sessions of projectors in another subnet. (P257)

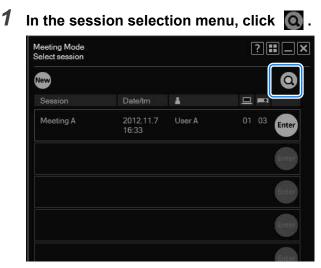
(7) Session list

Lists the sessions detected. Information shown here includes the session name, creation date, creator nickname, and number of computers and projectors involved.

[Enter] (8) Join the session. (P232)

Finding Sessions

You can find sessions from the session selection menu.

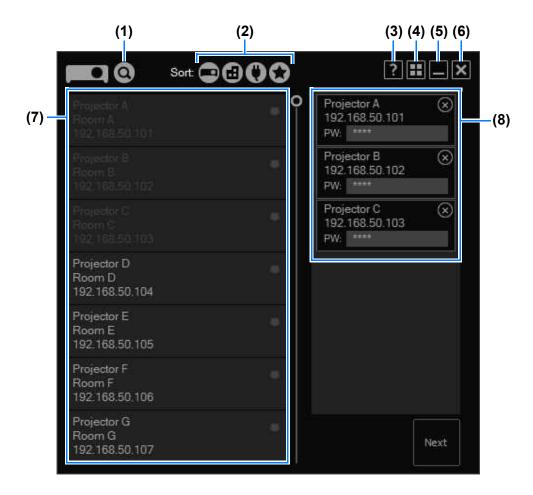


2 The search window is displayed. Enter the IP address of a projector in the session to join, and then click 🔯 to find the projector. Once sessions are found, they are listed.

Search for session	n by projector IP a	ddress.	8
IP add:	192 168	50 . 101 Q	
Session	Date/tm	4	
Meeting A	2012.11.8 11:15	User A	01 03 Enter

Using the Projector Selection Menu

Projector Selection Menu



(1) Find projectors

Find projectors in another subnet. (P260)

(2) Sort

Change the sort order of the projector list. (P263)

(3) Help

View application help.

(4) Back to mode selection

Return to the mode selection menu.

(5) Minimize

Minimize the window to the taskbar. To view the window again, click the taskbar icon.

(6) Exit

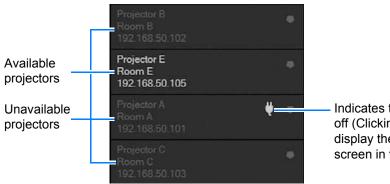
Return to the mode selection menu.

(7) Projector list

Projectors are listed here. The information shown includes the projector names, installation location, and IP address. Available projectors are indicated by white text.

Gray text indicates that the projector is not available, whether it is off, in use by other computers, or unavailable for other reasons.

Clicking a listed projector will select it for use in the session, and it will be shown in the field at right. Selected projectors are also indicated by gray text.



Indicates that the projector is off (Clicking the icon will display the projector's web screen in the browser. (P181))

(8) List of projectors used in the session

Projectors selected in the list at left are shown here. To use passwordprotected projectors, you must enter the password in the [PW] field. To remove projectors from this list, click on.

Finding Projectors

To find projectors in other subnets, do the following in the projector selection menu.

1 In the projector selection menu, click Q.



2 The search window is displayed. Enter the projector's IP address, and then click **Q**.



3 Once the projector is found, click [OK].



The selected projector is now added to the projector list.

Selecting Password-Protected Projectors

Selecting a password-protected projector will display a password input field. Enter the password.



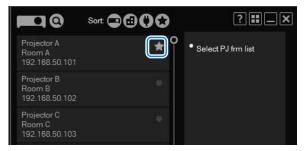
Using the Favorites Function

You can register commonly used projectors as favorites. Favorite projectors are listed first when you click the **set** button (sort by favorites). Up to five projectors can be registered as favorites.

To register a projector as a favorite, click the Favorites icon in the projector selection menu.



The projector is now registered as a favorite, and a star is displayed in the Favorites column.



Resorting the Projector List

You can change the sort order of projector information by clicking the sort buttons.





List by projector name.



List by installation location.

List projectors that are currently on first.

List favorite projectors first.

Turning Projectors On

Projectors currently off are indicated by 🚺 in the projector selection menu. (These projectors cannot be selected for projection.) You can turn them on by clicking III to display the projector web screen and switching the power on.

Projector E Room E 192.168.50.105	
	-

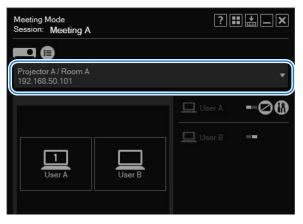
For instructions after this step, refer to "Control via the Web Screen" (P195).

Once you turn a projector on, you can select it for other operations. -

Switching Projectors Used for the Layout

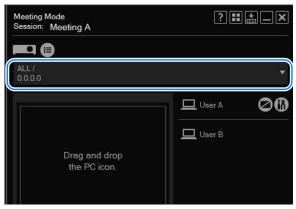
On the layout window, you can set up the projection layout.

To choose a different projector for the layout, select it from the projector pull-down list.



Controlling all Projectors at Once

To set up the projection layout for all projectors at once, select [ALL] in the projector pull-down menu.

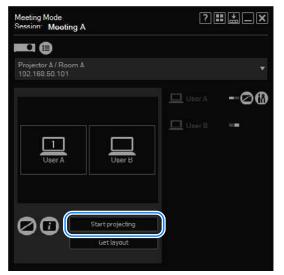


Projecting from Multiple Projectors (Multi-Projection)

In Meeting and Classroom Modes, separate images from multiple projectors can be projected together. This is called "multi-projection." On the layout window for Meeting or Classroom Modes, you can set up the projection layout for each projector used.

1 On the layout window for Meeting or Classroom Modes, specify the projection layout for each projector.

In the layout area, drag the computer to use in projection, and then click [Start projecting] to start projection.



2 In the pull-down list, select another projector to use.

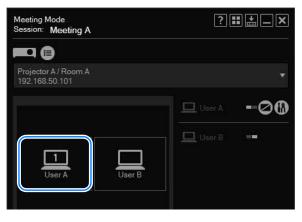


3 Repeat steps 1 and 2 to set up the computers to use in projection from all projectors.

Switching the Primary/Secondary Monitor

Using the application, you can switch between projection from the primary or secondary monitor.

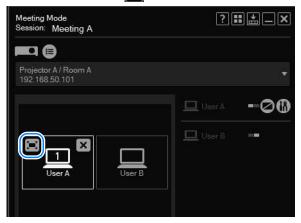
If your computer has dual monitor support, the computer icons are labeled with numbers. The primary monitor is labeled "1," and the secondary one, "2." To switch the monitor used for projection, click the icon of computers shown with a number.



Temporarily Enlarge Images

During display from multiple computers, you can enlarge projection from one of the computers. To enlarge the display, place the cursor over the computer in the layout area, click in the upper left, and then click [Start projecting]. The image from the selected computer is now projected in full-screen mode.

To cancel the enlarged display, place the cursor over the computer in the layout area again. Click in the upper left, and then click [Start projecting].



Projecting Session Information

You can project session information needed by other users to join a session, such as the session name and projector IP address. To project session information, click

🔟 . To cancel display, click 🔟 again.

Mooting Mode Session: Meeting A	?	
Projector Λ / Room Λ 192.168.50.101		v
	User A	-00
User A User B	Uoor B	
Get layout		

Fully Blanking Projection

Blanking refers to temporarily stopping projection from computers, so that no image is projected. To blank projection, click 📝 . To cancel blanking and return to normal projection, click 🙋 again.



Direct Mode window

Using Layout Functions



Meeting Mode window



Classroom Mode window (starting a session)

Broadcast Mode	?:::
Projecting	
	cting

Broadcast Mode window

Blanking Projection from Your Computer

In Meeting and Classroom Modes, you can blank projection your computer alone.

To blank projection from your computer, click 🔯 in the computer list. To cancel blanking and return to normal projection, click 🙋 again.

Meeting Mode Session: Meeting	g A	?	
Projector A / Roor 192.168.50.101	nA		*
		🛄 User A	-00
User A	User B	User B	
ØŪ	Start projecting		
	Get layout		

Meeting Mode window

Using Layout Functions



Classroom Mode window (joining a session)

■ Checking for Computers That Join or Leave Sessions

In Meeting and Classroom Modes, computer users can join or leave sessions as needed. Computers joining a session are added to the computers listed on the layout window.



Similarly, computers leaving a session are removed from the list of computers.



Completing Application Projection Settings

Application settings can be configured to specify the image quality of computer projection, user nicknames, and other details.

1 Click **III** next to the computer icon.

Meeting Mode Session: Meetin	g A	?	*-×
Projector A / Roor 192 168 50 101	n A		
	g and drop ∋ PC icon.	User A	
⊘ወ	Start projecting Get layout		

2 The settings window is displayed. Complete each setting as needed, and then click [OK].

١Å			?_	
	Picture qual settin	ig ●Use image from	this PC.	
	Low	Medium	High	
	 Optimize speed 		Optimize qual	
	Real •1-screen or	nly		
	On	Off	Ĩ	
	Projection type			
	Normal	Advanced		
	Nickname User A			
			Cancel OK	ן
				J
				-

Available settings are as follows. (Types of settings vary slightly by mode.)

When setting windows are displayed while layout windows are minimized to the taskbar, some information may be cut off.

Completing Application Projection Settings

Picture qual setting	 Select one of the following options, depending on your preferred image quality and frame rate. High : Projects at a lower frame rate while emphasizing image quality. Select this mode if lower image quality is not acceptable. Medium : Projection with image quality and frame rate balanced. Low : Projects at lower image quality to maintain a high frame rate. Select this mode to reduce the network bandwidth used for projection. 	
Real	On: Projection matching the computer display resolution. Available under the following conditions. When projecting from a single computer— or during projection from multiple computers, when projecting an enlarged image from one computer—at a display resolution lower than the projector resolution.Off: Automatically adjust the projection size to	
Projection type	 match the projector screen size. Normal : Although some windows cannot be projected, the cursor on the computer monitor will not flash. Advanced : Most windows can be projected, but the cursor on the computer monitor will flash. (Only the cursor on the computer monitor will flash, not the cursor in projected images.) 	
Nickname	Nickname specified when creating or joining sessions. Cannot be changed during sessions. This option is not shown in Direct or Broadcast Modes.	
Multicast address	The multicast address used in Broadcast Mode can be changed. Use this setting to change the multicast address if it conflicts with that of other network equipment. This option is only shown in Broadcast Mode.	

Reducing Windows to a Compact Size

A compact version of windows in all modes is available, showing only the minimum buttons and information needed.

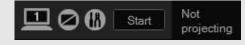
1 Click 🔛 .

ect Mode	?:
 Enter IP address to search for or select projector from list. 	or projector
PJ IP address:	192 - 168 - 50 - 101 🝳
Projector A / Room A 192.168.50.101 PW: ****	
Start projectin	

The window is now reduced to a compact size.



The title bar is no longer displayed when the cursor is away from the window, which makes the window even more compact.



2 To revert to original size, click 🔳 .



Avoid Exceeding Connection Limits

The maximum number of computers and projectors that can be connected varies by mode. When this limit would be exceeded, it is not possible to add computers or projectors to a session. Thus, if the total number of computer users requesting to join a session at the same time would exceed the limit, their requests may be denied. In this case, an error message is displayed on the computers that could not join the session.

Similarly, if the total number of projectors users attempt to add to a session at the same time would exceed the limit, their requests may be denied. In this case, a message is displayed on computers that could not add projectors, indicating that the projector list has been updated.

Operation if Devices Are Disconnected

If the connection is lost (for example, if a LAN cable is accidentally disconnected), the affected computer or projector leaves the session. Disconnection of essential computers or projectors will terminate a session.

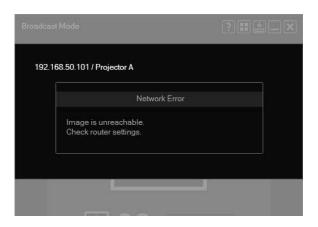
For example, in Classroom Mode, disconnection of the presenter's computer will terminate the session.

If Projectors Cannot Be Detected

If projectors cannot be detected or no image is displayed (except for the cursor) when you are attempting to connect to projectors in other subnets in Broadcast Mode, make sure the router supports multicast routing. Routers that do not support IPv4 multicast routing cannot be used to connect to projectors in other subnets in Broadcast Mode. Note that the router must be set up to route multicast addresses used by the application.

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In Broadcast Mode, the following message is displayed if no signal is received from computers for 30 seconds. The projector IP address and name are shown in the upper left.



Restrictions

Router Connections

Although the application can also link computers and projectors over a network via a router, operation is only ensured over one router hop. Note that before projecting from projectors in other subnets in Broadcast Mode, you must configure the router's multicast routing settings. For details, ask your network administrator.

Security Dialog Box Projection

The application cannot be used to project the Windows Security dialog box, normally accessed by pressing Ctrl+Alt+Del.

Screen Capture Software

It may not be possible to start the application while software that restricts screen captures is running.

Animated Cursors

Animation of animated cursors is not projected.

Alternative Cursors

Cursors used by some software may not be projected correctly. In this case, an arrow pointer is projected.

Projection Restrictions

Some windows and icons displayed on computers cannot be projected. Although switching the projection type to advanced will enable projection of more elements, not all elements can be projected even in this case.

Projected images may not always match the computer screens.

Network Bandwidth

Some network conditions may cause a delay in projection.

Projection through Firewalls

Some application functions may not be available in environments where Windows Firewall or other software restricting network communication are installed.

Application Display

Application display may be distorted if you have adjusted the screen resolution in Windows.

MULTIMEDIA PROJECTOR WUX450 WX520 WUX400ST WX450ST Appendix



Appendix

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	Safety Instructions
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0	Projecting an Image
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	Setting Functions from Menus
Installatior	Installation
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enance	Maintenance
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Troubleshooting

LED Indicator Meanings

When there is a problem with the projector, the LED indicator on the side of the projector illuminates or flashes continuously after the projector is turned off.

• Wait until the cooling fan stops and disconnect the power plug from the electrical outlet before dealing with the problem.

LED indicator status	Meaning	Countermeasure
WARNING and TEMP are lit.	Temperature abnormality	The temperature inside the projector is too high for some reason or the outside air temperature is higher than the operating range. If the problem is inside the projector, check whether the projector is installed and operating normally, unplug the projector from the power outlet to cool down the projector interior and then restart projection. If the air intake or exhaust vent is blocked, remove the obstacle. If the same warning occurs again, there may be a malfunction in the projector. Contact the Canon Customer Support Center.
WARNING and LAMP are lit.	Faulty lamp	The lamp does not illuminate. Turn the power off and then back on and check whether or not the lamp illuminates. Also, check whether the air intake or exhaust vent is blocked, and whether the air filter is clogged with dust. The warning may indicate if the air flow in and out of the projector is blocked, or if the internal temperature of the projector rises. If the air filter is clogged, clean or replace the air filter. (P199, P200) If the lamp does not illuminate, replace it. If the same warning occurs again, there may be a malfunction in the lamp drive circuit. Contact the Canon Customer Support Center.
WARNING flashes 3 times, LAMP is lit.	Faulty lamp cover	The lamp cover is open. Unplug the projector from the power outlet, then install the lamp cover correctly and turn on the projector again. If the lamp cover has been installed properly, there may be a malfunction in the lamp cover detection switch. Contact the Canon Customer Support Center.
WARNING (only) flashes 4 times repeatedly.	Faulty cooling fan	There may be a malfunction in the cooling fan or another component. Unplug the projector from the electrical outlet, then plug it back into the outlet and turn on the projector again. Contact the Canon Customer Support Center if the same warning occurs again.

LED indicator status	Meaning	Countermeasure
WARNING (only) flashes 5 times repeatedly.	Faulty power supply	Abnormal voltage is applied to some parts in the power supply or another failure may have occurred. Unplug the projector from the electrical outlet, then plug it back into the outlet and turn on the projector again. Contact the Canon Customer Support Center if the same warning occurs again.
WARNING (only) flashes 3 times repeatedly.	Filter error	The air filter is not installed. Check whether or not the air filter is installed correctly. Contact the Canon Customer Support Center if the same warning occurs again.

Symptoms and Solutions

■ You Cannot Turn on the Projector

Cause	Countermeasure
The power cord is not connected correctly.	Check whether the power cord is connected correctly. (P143)
The power cord has just been connected.	Wait at least one second after plugging the projector in until you press the POWER button. You cannot turn the projector on immediately after plugging it in. (P52)
The lamp cover is open.	Unplug the projector from the power outlet, then install the lamp cover correctly and turn on the projector again.
The safety device is activated because the air intake or the exhaust vent is blocked and the internal temperature of the projector has increased.	When the safety device is active, the [POWER ON] indicator does not turn on when you connect the power cord. You cannot disable this safety device. Remove any obstacle that is blocking the air intake or exhaust vent and contact the Canon Customer Support Center.
The air filter is not installed correctly.	Check whether the air filter is installed correctly. (P199)
Key lock is enabled.	Check that Key lock (P112) is not enabled for the projector or the remote control.

■ You Cannot Project an Image from the Projector

Cause	Countermeasure	
A cable is not connected correctly.	Check whether the projector is connected to the computer or AV equipment correctly. (P137, P140)	
20 seconds have not elapsed since the projector was turned on.	When the projector is turned on, the opening window is displayed for approximately 20 seconds. To project an image immediately, press the OK button on the remote control or side control. (P52)	
No image is sent from the AV equipment.	Check whether an image is played on the connected video camcorder, DVD, etc.	
Connection with the input terminal has not been performed correctly.	Check whether the AV equipment is connected to the projector input terminal correctly. (P136)	
No input signal type has been selected for the connected AV equipment.	Check that the same input signal has been correctly selected for the connected AV equipment from the [INPUT] menu. (P54)	
The input signal type is incorrect.	Check whether the selected input signal type is correct. (P88, P292)	
The BLANK function has been selected.	Press the BLANK button on the remote control. (P76)	
No image is projected due to a problem with the computer.	Turn first the projector and then the computer off and then back on again.	
The external monitor output is not set on the notebook computer correctly.	Turn on the external monitor output on the notebook computer. To turn on the external monitor output, press the [LCD] or [VGA] function key or a key with an icon for the external monitor, while holding down the [Fn] key on the keyboard of the notebook computer. With Windows 7, you can turn on image output by holding down the Windows logo key and pressing the [P] key. (P145) The combination of keys used to perform this operation varies depending on the model of notebook computer. For more detailed information, refer to the manual that came with your computer.	
The displayed image is not the same as that displayed on the computer.	Check whether the dual screen (multi-display) mode is selected on the computer. If dual screen mode is selected, change the computer display output to mirroring mode. The output setting method varies among computer manufacturers. For more detailed information, refer to the manual that came with your computer.	

Cause	Countermeasure
Images on a USB flash drive cannot be projected.	Projection from USB flash drives requires JPEG images with a resolution not exceeding 7000x7000, single-byte alphanumeric file names, and a FAT-formatted drive.
Split-screen display is not available.	Split-screen display is not available when projecting images from USB flash drives or over a network.
The LAN cable (shielded twisted pair) is not connected correctly.	Check whether the LAN cable (shielded twisted pair) is connected to the projector correctly. (P168)
A network connection cannot be established.	Network connections are not available until about 40 seconds after startup. (P181)

■ There is no Sound

Cause	Countermeasure		
The audio cable is not connected correctly.	Check the audio cable connection. (P136)		
The MUTE function is enabled.	Press the MUTE button on the remote control. (P77)		
The volume level is adjusted to the minimum.	Press the VOL button on the remote control or the VOL+ button on the side control to adjust the volume level. (P77)		
An audio cable with a built-in resistor is used.	Use an audio cable without a built-in resistor.		
Audio in terminal select is [Off].	Change the Audio In terminal to the appropriate setting. (P153)		

■ The Projected Image Is Blurred

Cause	Countermeasure	
The image is out of focus.	Adjust the focus. (P59)	
The distance to the screen is too short.	Check whether the distance to the screen is appropriate.	
The projector is not placed straight in front of the screen.	Check whether the projector is placed obliquely to the screen. A slight error in the projection angle can be corrected through the keystone adjustment function. (P68)	
The projector has been moved to a place where the temperature varies a lot.	When the projector is moved from a location where the temperature is low to a location where the temperature is high, condensation may form on the lens. The condensation will evaporate after a period of time and the projector will be able to project a normal image.	
The lens is stained.	Clean the lens. (P198)	
The tracking is bad.	Adjust the tracking with the [Auto PC] or [Tracking] function. (P57, P89)	
Video is blurred.	Activate motion blur reduction. (P114)	
Motion blur reduction is not available.	Motion blur reduction is not available when projecting JPEG files from USB flash drives or over a network, or for networked multi-projection. Similarly, motion blur reduction is not available in image modes other than [Presentation] or [Dynamic].	
The sharpness setting is not available.	Sharpness cannot be adjusted during split-screen display.	

■ You Cannot Project an Image Appropriately

Cause	Countermeasure		
The projected image is inverted in the vertical or horizontal direction.	The ceiling mounted / rear projection setting is incorrect. Check the [Image flip H/V] setting in the [Install settings] menu. (P146)		
The dot clock of the input signal is higher than 162 MHz with a BNC cable.	Set the signal dot clock to 162 MHz or less on your computer.		
A computer cable is used in which some pins are not connected.	Use a computer cable in which all pins are connected.		

■ The Projector Power Turns Off

Cause	Countermeasure
The air intake or exhaust vent is blocked.	Check whether the air intake or exhaust vent is blocked. If the air intake or exhaust vent is blocked, the temperature inside the projector will increase and the power is automatically turned off to protect the projector. (The [WARNING] indicator and [TEMP] indicator are lit.) Wait until the projector temperature drops, then make sure that the intake and exhaust vents are not blocked and turn on the projector. (P37, P52)
The air filter is dirty.	Check whether the air filter is clogged with dust. If the air filter is clogged, clean or replace the air filter. (P199)
The lamp has ruptured (or there is a lamp malfunction).	If the lamp has ruptured, follow the instructions in "Precautions when replacing lamps that stop working" (P26).
The operating temperature is inappropriate.	Check whether the operating temperature is between 0°C (32°F) and 40°C (104°F). (P29) Projector settings must be adjusted when using the projector at altitudes of 2,300 m (7,545.8') or higher. Set [Fan mode] in the [Install settings] menu to [High altitude] (P152).

■ You Cannot Operate the Remote Control

Cause	Countermeasure	
Batteries are not installed properly or they have run out.	Check whether batteries are installed correctly. If batteries are installed correctly, replace them with new batteries. (P34)	
You are operating the remote control from the outside of the remote control operating range.	Check whether you are operating the remote control within the remote control operating range of the main unit of the projector. (P35)	
There is an obstacle between the projector and the remote control.	Remove the obstacle between the infrared remote receiver of the main unit of the projector and the remote control or point the remote control in an obstacle-free path.	
You are operating the remote control in an unsuitable operating environment.	Check whether the infrared remote receiver of the main unit of the projector is exposed to direct sunlight or strong light of lighting apparatus. (P35)	
The channel setting of the remote control does not match the setting of the projector.	Check whether the channel setting of the remote control has been changed. You can check the [Remote control channel] setting in the [System settings] menu. (P113)	
The key lock function is preventing operation of the remote control.	Check whether [Key lock] is enabled to disable the remote control operation. In the [System settings] menu, set [Key lock] to [Off]. (P112)	

You Cannot Control Networked Multi-Projection

Cause	Countermeasure	
The application cannot be installed.	Confirm that the monitor resolution is at least 1024x768. Check the system requirements (P210).	

If the above causes cannot be identified, the projector may be damaged. Contact the Canon Customer Support Center as soon as possible.

Administrator privileges are required when installing NMPJ from the universal installer. The following message is displayed when you are logged in as a regular user: "Installation program of Network Multi Projection requires administrator privileges."

Relationship between Aspect and Screen Aspect

This section describes the relationship between screen aspect (P60) and aspect (P66).

Select an optimum aspect ratio of the projected image (screen aspect) or an optimum screen mode (aspect) according to the aspect ratio of the screen, type of input image signal and so on for the projection to make best use of the screen size.

- If a computer image with an aspect ratio of 16:9 is not projected correctly when the setting is [Auto], select [16:9] as the screen aspect.
- For a 16:9 image with black borders at the top and bottom, such as a terrestrial broadcast movie, you can project the 16:9 image area so that it is projected on the entire screen by selecting [Zoom] in [Aspect].



There may be some cases that [Zoom] cannot be selected depending on the input signal and/or resolution.

 For keystone correction (P68), select an option other than [4:3 D. image shift] or [16:9 D. image shift] for [Screen aspect].

When the image is projected on a 16:10 screen

Aspect ratio of connected device	Screen aspect setting (P60)	Aspect setting (P66)	Screen image
(16:10) 1920 x 1200 1440 x 900 1280 x 800		[16:10] [Auto]	
(16:9) 1920 x 1080 1280 x 720	[16:10]	[16:10]	
(4:3) 1600 x 1200 1400 x 1050 640 x 480		[16:10]	

■ When the image is projected on a 16:9 screen

Aspect ratio of connected device	Screen aspect setting (P60)	Aspect setting (P66)	Screen image
(16:10) 1920 x 1200 1440 x 900 1280 x 800		[16:9]	
(16:9) 1920 x 1080 1280 x 720	[16:9] [16:9 D. image shift]	[16:9] [Auto]	
(4:3) 1600 x 1200 1400 x 1050 640 x 480		[16:9]	

■ When the image is projected on a 4:3 screen

Aspect ratio of connected device	Screen aspect setting (P60)	Aspect setting (P66)	Screen image
(16:10) 1920 x 1200 1440 x 900 1280 x 800		[4:3]	
(16:9) 1920 x 1080 1280 x 720	[4:3] [4:3 D. image shift]	[4:3]	
(4:3) 1600 x 1200 1400 x 1050 640 x 480		[4:3] [Auto]	

■ When projecting on a 16:10 screen in the aspect ratio of the connected device

Aspect ratio of connected device	Screen aspect setting (P60)	Aspect setting (P66)	Screen image
(16:10) 1920 x 1200 1440 x 900 1280 x 800		[16:10] [Auto]	
(16:9) 1920 x 1080 1280 x 720	[16:10]	[16:9] [Auto]	
(4:3) 1600 x 1200 1400 x 1050 640 x 480		[4:3] [Auto]	

■ When projecting on a 16:9 screen in the aspect ratio of the connected device

Aspect ratio of connected device	Screen aspect setting (P60)	Aspect setting (P66)	Screen image
(16:10) 1920 x 1200 1440 x 900 1280 x 800		[Auto]	000
(16:9) 1920 x 1080 1280 x 720	[16:9] [16:9 D. image shift]	[16:9] [Auto]	
(4:3) 1600 x 1200 1400 x 1050 640 x 480		[4:3] [Auto]	

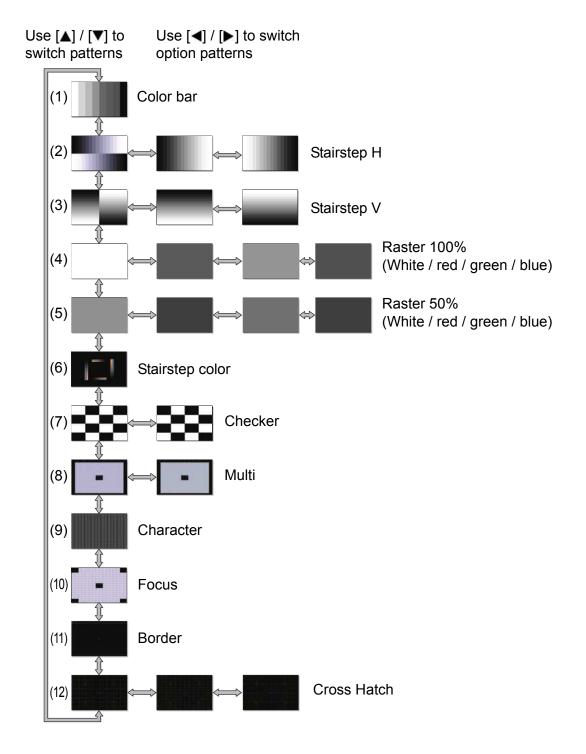
When projecting on a 4:3 screen in the aspect ratio of the connected device

Aspect ratio of connected device	Screen aspect setting (P60)	Aspect setting (P66)	Screen image
(16:10) 1920 x 1200 1440 x 900 1280 x 800		[Auto]	
(16:9) 1920 x 1080 1280 x 720	[4:3] [4:3 D. image shift]	[16:9] [Auto]	
(4:3) 1600 x 1200 1400 x 1050 640 x 480		[4:3] [Auto]	

Displayed Test Patterns

The test pattern can be displayed by pressing the **TEST PATTERN** button. Use this when there is no image signal, etc.

While the test pattern is displayed, you can use the [▲] / [▼] buttons to change to a different test pattern. Also, if there is an option pattern available, you can use the [4] / [>] buttons to switch pattern. A dialog box is shown during test pattern display that identifies the current test pattern and provides operating instructions. The following test patterns can be displayed.



Supported Signal Types

This projector supports the following signal types.

If your computer or AV equipment is compatible with any one of these signal types, the projector's Auto PC function selects the input signal type to project an image appropriately.

Analog PC

Resolution (dots)	Signal type	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 x 480	VGA	31.469	59.940
720 x 480	_	31.469	59.940
720 x 576	-	31.250	50.000
800 x 600	SVGA	37.879	60.317
848 x 480	-	31.020	60.000
1024 x 768	XGA	48.363	60.004
1280 x 720	-	45.000*1	60.000* ¹
1280 x 768		47.776	59.870
1200 x 700	WXGA	47.396	59.995
1280 x 800	WAGA	49.702	59.810
		49.306	59.910
1280 x 960	-	60.000	60.000
1280 x 1024	SXGA	63.981	60.020
1366 x 768	-	47.712	59.790
1400 x 1050	SXGA+	64.744	59.948
1400 x 1050	SAGAT	65.317	59.978
1440 x 900	WXGA+	55.935	59.887
1440 X 900	WAGAT	55.469	59.901
1600 x 900	-	60.000	60.000
1600 x 1200	UXGA	75.000	60.000
1680 x 1050	WSXGA+	64.674	59.883
1000 X 1030	WONGAT	65.290	59.954
1920 x 1080		56.250	50.000
1920 X 1080		67.500	60.000
1920 x 1200	WUXGA	74.038* ²	59.950* ²

Digital PC

Resolution (dots)	Signal type	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 x 480	D-VGA	31.469	59.940
720 x 480	-	31.469	59.940
720 x 576	-	31.250	50.000
800 x 600	D-SVGA	37.879	60.317
1024 x 768	D-XGA	48.363	60.004
1280 x 720		37.500	50.000
1200 X 720	-	45.000	60.000
1280 x 800	D-WXGA	49.702	59.810
1200 X 800	D-WAGA	49.306	59.910
1280 x 1024	D-SXGA	63.981	60.020
1366 x 768	-	47.712	59.790
1400 x 1050		64.744	59.948
1400 x 1050	D-SXGA+	65.317	59.978
1440 x 900	D-WXGA+	55.935	59.887
1440 X 900	D-WAGA+	55.469	59.901
1600 x 900	-	60.000	60.000
1600 x 1200	D-UXGA	75.000	60.000
1680 x 1050	D-WSXGA+	64.674	59.883
1000 x 1050	D-W3XGA+	65.290	59.954
		27.000	24.000
1920 x 1080	_	56.250	50.000
		67.500	60.000

Resolution (dots)	Signal type	Horizontal frequency (kHz)	Vertical frequency (Hz)
10800-5		27.000	24.000
1080PsF (1920 x 1080i)	-	28.125	25.000
(1920 x 10801)		33.750	30.000
1920 x 1200	D-WUXGA	74.038* ²	59.950* ²

HDMI

Connecting to a computer

Resolution (dots)	Signal type	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 x 480	VGA	31.469	59.940
800 x 600	SVGA	37.879	60.317
1024 x 768	XGA	48.363	60.004
1280 x 800	WXGA	49.702	59.810
1280 x 800	WAGA	49.306	59.910
1280 x 1024	SXGA	63.981	60.020
1366 x 768	-	47.712	59.790
1400 x 1050	SXGA+	64.744	59.948
1400 x 1050	SXGA+	65.317	59.978
1440 x 900	WXGA+	55.935	59.887
1440 X 900	WAGAT	55.469	59.901
1600 x 900	-	60.000	60.000
1600 x 1200	UXGA	75.000	60.000
1680 x 1050	WSXGA+	64.674	59.883
1000 X 1050	W3XGA+	65.290	59.954
1920 x 1200	WUXGA	74.038* ²	59.950* ²

Connecting with AV equipment

Signal type	Horizontal frequency (kHz)	Vertical frequency (Hz)
480p	31.469	59.940
576p	31.250	50.000
720p	37.500	50.000
720p	45.000	60.000
1080i	28.125	50.000
10801	33.750	60.000
	27.000	24.000
1080p	56.250	50.000
	67.500	60.000

Component

Signal type	Horizontal frequency (kHz)	Vertical frequency (Hz)
480i	15.734	59.940
480p	31.469	59.940
576i	15.625	50.000
576p	31.250	50.000
7202	37.500	50.000
720p	45.000	60.000
1000;	28.125	50.000
1080i	33.750	60.000
10805	56.250	50.000
1080p	67.500	60.000
	27.000	24.000
1080PsF	28.125	25.000
	33.750	30.000

*1: WX520/WX450ST, *2: WUX450/WUX400ST

* The specifications in the table above are subject to change without notice.

* This projector does not support any computer output signal with a dot clock of higher than 162 MHz.

* Use a computer cable in which all pins are connected. If the cable is a type in which all pins are not connected, the image may not be correctly displayed.

Product Specifications

■ Projector WUX450/WX520

Model nameWUX450WX520Display systemRGB liquid crystal systemOptical systemColor separation by dichroic mirror / polarizing beam spl and color composition by prism0TypeReflective liquid crystal panel0Size / Aspect ratio0.71" x 3 / 16:100.70" x 3 / 16:100Drive systemActive matrix systemNumber dots / Total number dots2,304,000 (1920 x 1200) x 3 panels / 6,912,0001,296,000 (1440 x 900) 3 panels / 3,888,0001Zoom ratio / Focal length / F value1.8x / 21.7 - 39.0 mm / f2.82Zooming / Focusing systemManual / ManualUsystemV: 0% to +60% (manual) H: ±10% (manual)V: 0% to +62% (manual) H: ±10% (manual)Light source250-NSHA 260 WImage size (projection distance)40" to 300" (1.2 m to 16.2 m / 3.9' to 53.1')40" to 300" (1.2 m to 16.6 m / 3.9' to S200 lumonBrightness*2 (in presentation4500 lumon5200 lumon	x		
Optical systemColor separation by dichroic mirror / polarizing beam spl and color composition by prism g_{i} TypeReflective liquid crystal panel g_{i} Size / Aspect ratio $0.71" \times 3 / 16:10$ $0.70" \times 3 / 16:10$ Drive systemActive matrix systemNumber dots / Total number dots $2,304,000 (1920 \times 1200) \times$ $3 panels / 6,912,0001,296,000 (1440 \times 900)3 panels / 3,888,000g_{i}Zoom ratio / Focal length /F value1.8x / 21.7 - 39.0 \text{ mm / f2.8}Zooming / FocusingsystemManual / ManualLens shiftV: 0% to +60% (manual)H: ±10% (manual)V: 0% to +62% (manual)H: ±10% (manual)Light source250-NSHA 260 WImage size (projectiondistance)40" to 300"(1.2 m to 16.2 m / 3.9' to 53.1')40" to 300"(1.2 m to 16.6 m / 3.9' toNumber of colors16,770,000 colors (full color)Brightness*2 (in presentation16,770,000 colors (full color)$	x		
Size / Aspect ratio $0.71" \times 3 / 16:10$ $0.70" \times 3 / 16:10$ Drive systemActive matrix systemNumber dots / Total number dots $2,304,000 (1920 \times 1200) \times$ 3 panels / $6,912,000$ $1,296,000 (1440 \times 900)$ 3 panels / $3,888,000$ Summer dotsZoom ratio / Focal length / F value $1.8 \times / 21.7 - 39.0 \text{ mm / f2.8}$ Summer dotsManual / ManualV: 0% to +60% (manual) H: $\pm 10%$ (manual)V: 0% to +62% (manual) H: $\pm 10\%$ (manual)Light source250-NSHA 260 WImage size (projection distance)40" to 300" (1.2 m to 16.2 m / 3.9' to 53.1')Number of colors16,770,000 colors (full color)Brightness*2 (in presentation)		
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Image size (projection distance) 40" to 300" 40" to 300" Mumber of colors (1.2 m to 16.2 m / 3.9' to 53.1') (1.2 m to 16.6 m / 3.9' to 53.1') Number of colors 16,770,000 colors (full color)	54.5')		
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Number of colors 16,770,000 colors (full color) Brightness*2 (in presentation)	54.5 ⁻)		
Brightness*2 (in presentation			
Brightness ^{*2} (in presentation			
mode)			
Contrast ratio* ² 2000:1 (Fully white:fully black, presentation mode, Iris [0)n])		
Ratio of brightness at 90%	90%		
Speaker 5W monaural x 1			
Maximum input resolution 1920 x 1200 dots 1920 x 1080 dots			
Analog PC input WUXGA*1, WSXGA+, UXGA, WXGA+, SXGA+, SXGA, WXGA, XGA, SVGA, VGA			
अत्य प्रिया D-WUXGA*1, D-WSXGA+, D-UXGA, D-WXGA+, D-SXG अत्य प्रिया D-SXGA, D-WXGA, D-XGA, D-SVGA, D-VGA	A+,		
Digital PC input D-WOKOAT, D-WOKOAT, D-WKOAT, D			
Component video input 1080PsF, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i			
DVI-I terminal Analog PC, Digital PC (29-pin DVI connector)			
HDMI terminal Digital PC, digital video input (deep color only)			
The Component (mini D-sub 15-pin)Analog PC, Component (mini D-sub 15-pin)Image: Component (mini D-sub 15-pin)			
لَقُوْ LAN terminal Networked multi-projection (RJ-45)			
JPEG images (USB Mass Storage Class)			
CONTROL terminal RS-232C (D-sub 9-pin)			
REMOTE terminal Wired remote control (3.5ø stereo mini jack)			
AUDIO IN terminal Audio signal (3.5ø stereo mini jack x 2)			
AUDIO OUT terminal Audio signal (3.5ø stereo mini jack)			

	Model name	WUX450	WX520	
	Digital PC	TMDS (Transition Minimized D	ifferential Signaling)	
gnal	Analog PC	0.7Vp-p, positive polarity, impe Horizontal / vertical synchroniza positive polarity		
Input signal	Component video	COMPONENT: Separate Y Cb/ Y: 1Vp-p, negative synchroni Cb/Pb: 0.7Vp-p, impedance = Cr/Pr: 0.7Vp-p, impedance =	zation, impedance = 75Ω = 75Ω	
Audio		Impedance = $47k\Omega$ or more		
Noise		38 / 32dB (Lamp mode: Full power/Power saver)		
Operating temperature		0°C (32°F) - 40°C (104°F)		
Power supply		AC100V - 240V 50 / 60Hz		
Power consumption (Full power / power saver / low- power standby with LAN on / standby with LAN off)		365W / 295W / 0.6W / 0.2W	355W / 285W / 0.6W / 0.2W	
Dimensions		337 mm (W) x 134 mm (H) x 370 mm (D) / 13.3 (W) x 5.3 (H) x 14.6 (D) in (including the projection)		
Mass		5.9 kg / 13.0 lbs		
Accessories		Remote control, remote control dry-cell batteries, power cord, PC cable, lens cap, User's Manual (this manual), Important Information and Warranty Card		

*1 WUX450 only *2 Compliance with ISO21118-2012

WUX400ST/WX450ST

	Model name	WUX400ST	WX450ST	
Display system		RGB liquid crystal system	RGB liquid crystal system	
Op	Optical system Color separation by dichroic mirror / polarizing beam splitt and color composition by prism			
थ Type		Reflective liquid crystal panel		
device	Size / Aspect ratio	0.71" x 3 / 16:10	0.70" x 3 / 16:10	
	Drive system	Active matrix system		
Display	Number dots / Total number dots	2,304,000 (1920 x 1200) x 3 panels / 6,912,000	1,296,000 (1440 x 900) x 3 panels / 3,888,000	
SU	Focal length / F value	8.8 mm / f2.7		
le	Focusing system	Manual		
Projection lens	Lens shift	V: 0% to +75% (manual) H: ±10% (manual)	V: 0% to +77% (manual) H: ±10% (manual)	
Lig	ht source	250-NSHA 260 W		
	age size (projection ance)	50" to 200" (0.60 m to 2.42 m / 2.0' to 7.4')	50" to 200" (0.61 m to 2.48 m / 2.0' to 8.1')	
Number of colors		16,770,000 colors (full color)		
Brię mo	ghtness* ² (in presentation de)	4000 lumen	4500 lumen	
Co	ntrast ratio* ²	2000:1 (Fully white:fully black, presentation mode, Iris [On])		

Model name		WUX400ST	WX450ST	
Ratio of brightness at		80%		
periphery to center*2		80 %		
Speaker		5W monaural x 1		
Ma	ximum input resolution	1920 x 1200 dots	1920 x 1080 dots	
Jals	Analog PC input	WUXGA* ¹ , WSXGA+, UXGA, WXGA+, SXGA+, SXGA, WXGA, XGA, SVGA, VGA		
	Digital PC input	D-WUXGA*1, D-WSXGA+, D-UXGA, D-WXGA+, D-SXGA+, D-SXGA, D-WXGA, D-XGA, D-SVGA, D-VGA		
Video signals	HDMI input	From connected computers: WUXGA ^{*1} , WSXGA+, UXGA, WXGA+, SXGA+, SXGA, WXGA, XGA, SVGA, VGA From connected AV equipment: 1080p, 1080i, 720p, 576p, 480p		
	Component video input	1080PsF, 1080p, 1080i, 720p,	576p, 576i, 480p, 480i	
	DVI-I terminal	Analog PC, Digital PC (29-pin I	DVI connector)	
	HDMI terminal	Digital PC, digital video input (c	leep color only)	
Input terminal	ANALOG PC / COMPONENT terminal	Analog PC, Component (mini D-sub 15-pin)		
terr	LAN terminal	Networked multi-projection (RJ	-45)	
nt i	USB Port	JPEG images (USB Mass Storage Class)		
lnp	CONTROL terminal	RS-232C (D-sub 9-pin)		
	REMOTE terminal	Wired remote control (3.5ø stereo mini jack)		
	AUDIO IN terminal	Audio signal (3.5ø stereo mini jack x 2)		
AUDIO OUT terminal Audio signal (3.5ø stereo mini jack)		ack)		
	Digital PC	TMDS (Transition Minimized Differential Signaling)		
gnal	Analog PC	0.7Vp-p, positive polarity, impedance = 75Ω Horizontal / vertical synchronization: TTL level, negative or positive polarity		
Input signal	Component video	COMPONENT: Separate Y Cb, Y: 1Vp-p, negative synchroni Cb/Pb: 0.7Vp-p, impedance = Cr/Pr: 0.7Vp-p, impedance =	zation, impedance = 75Ω = 75Ω	
	Audio	Impedance = $47k\Omega$ or more		
No	ise	38 / 32dB (Lamp mode: Full power/Power saver)		
Ор	erating temperature	0°C (32°F) - 40°C (104°F)		
Pov	wer supply	AC100V - 240V 50 / 60Hz		
Power consumption (Full power / power saver / low- power standby with LAN on / standby with LAN off)		365W / 295W / 0.6W / 0.2W	355W / 285W / 0.6W / 0.2W	
Dimensions		337 mm (W) x 134 mm (H) x 415 mm (D) / 13.3 (W) x 5.3 (H) x 16.3 (D) in (including the projection)		
Ма	SS	6.3 kg / 13.9 lbs		
Accessories		Remote control, remote control dry-cell batteries, power cord, lens cap, PC cable, User's Manual (this manual), Important Information and Warranty Card		

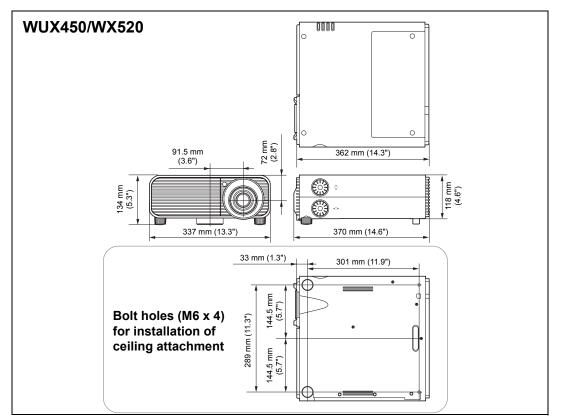
*1 WUX400ST only *2 Compliance with ISO21118-2012

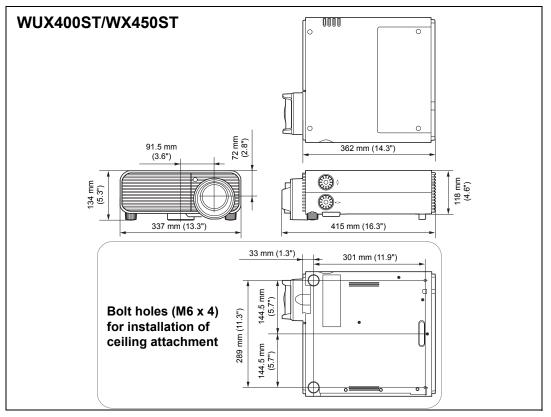
- * 99.99% or more of the LCD panel pixels are effective. During projection, 0.01% or less of pixels may stay lit or unlit due to the characteristics of the LCD panel.
- Using the projector continuously for an extended period of time may accelerate the deterioration of * optical parts.

Remote control

Model number	RS-RC06
Power supply	DC 3.0V, using two AAA-size batteries
Operating range	Approx. 8 m ±25° horizontal and vertical (to infrared remote receiver)
Dimensions	43 mm (W) x 23 mm (H) x 135 mm (D) / 1.7 (W) x 0.9 (H) x 5.3 (D) in
Weight	56 g / 2.0 oz

External View



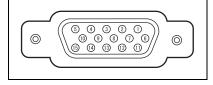


ANALOG PC-2 / COMPONENT terminal

This terminal is used as a computer ANALOG PC input or COMPONENT input terminal. Use a D-sub computer cable.

The terminal specifications for the ANALOG PC input and COMPONENT input are the same.

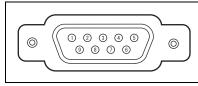
Mini D-sub 15-pin



Pin No.	Signal	Pin No.	Signal
1	R	9	+5 V power
2	G	10	Ground (Vertical sync.)
3	В	11	Ground
4	OPEN	12	DDC data
5	Ground (Horizontal sync.)	13	Horizontal sync.
6	Ground (R)	14	Vertical sync.
7	Ground (G)	15	DDC clock
8	Ground (B)		

Service Port (CONTROL)

Pin assignment



Pin No.	Signal
1	OPEN
2	RxD
3	TxD
4	OPEN
5	GND
6	OPEN
7	Internal pull-up
8	OPEN
9	OPEN

Communication format

Communication mode : RS-232-C, asynchronous, half-duplex communication Communication speed : 19200bps

Character length	: 8 dits
Stop bits	: 2 bits
Parity	: None
Flow control	: None

Control commands

Com	mands	ASCII representation	Binary representation
	Power on	POWER=ON <cr></cr>	50h 4Fh 57h 45h 52h 3Dh 4Fh 4Eh 0Dh
Power supply	Power off	POWER=OFF <cr></cr>	50h 4Fh 57h 45h 52h 3Dh 4Fh 46h 46h 0Dh
Power status acquisition		GET=POWER <cr></cr>	47h 45h 54h 3Dh 50h 4Fh 57h 45h 52h 0Dh
	HDMI	INPUT=HDMI <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 48h 44h 4Dh 49h 0Dh
	Digital PC	INPUT=D-RGB <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 44h 2Dh 52h 47h 42h 0Dh
	Analog PC-1	INPUT=A-RGB1 <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 41h 2Dh 52h 47h 42h 31h 0Dh
Input source	Analog PC-2	INPUT=A-RGB2 <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 41h 2Dh 52h 47h 42h 32h 0Dh
	Component	INPUT=COMP <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 43h 4Fh 4Dh 50h 0Dh
	LAN	INPUT=LAN <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 4Ch 41h 4Eh 0Dh
	USB	INPUT=USB <cr></cr>	49h 4Eh 50h 55h 54h 3Dh 55h 53h 42h 0Dh
Input source acquisition		GET=INPUT <cr></cr>	47h 45h 54h 3Dh 49h 4Eh 50h 55h 54h 0Dh
	Standard	IMAGE=STANDARD <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 53h 54h 41h 4Eh 44h 41h 52h 44h 0Dh
	Presentation	IMAGE=PRESENTATION <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 50h 52h 45h 53h 45h 4Eh 54h 41h 54h 49h 4Fh 4Eh 0Dh
Image mode	Photo/sRGB	IMAGE=PHOTO_SRGB <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 50h 48h 4Fh 54h 4Fh 5Fh 53h 52h 47h 42h 0Dh
	Dynamic	IMAGE=DYNAMIC <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 44h 59h 4Eh 41h 4Dh 49h 43h 0Dh
	Video	IMAGE=VIDEO <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 56h 49h 44h 45h 4Fh 0Dh
	User 1	IMAGE=USER_1 <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 31h 0Dh
	User 2	IMAGE=USER_2 <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 32h 0Dh
Image mode	User 3	IMAGE=USER_3 <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 33h 0Dh
	User 4	IMAGE=USER_4 <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 34h 0Dh
	User 5	IMAGE=USER_5 <cr></cr>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 35h 0Dh
Image mode acquisition		GET=IMAGE <cr></cr>	47h 45h 54h 3Dh 49h 4Dh 41h 47h 45h 0Dh
Brightness	Brightness value setting	BRI= <value><cr></cr></value>	42h 52h 49h 3Dh <numeric code=""> 0Dh</numeric>
Brightness acquisition		GET=BRI <cr></cr>	47h 45h 54h 3Dh 42h 52h 49h 0Dh
Sharpness adjustment function	Sharpness value setting	SHARP= <value><cr></cr></value>	53h 48h 41h 52h 50h 3Dh <numeric code> 0Dh</numeric
Brightness acquisition Sharpness adjustment	Sharpness	GET=BRI <cr></cr>	47h 45h 54h 3Dh 42h 52h 49h 0Dh 53h 48h 41h 52h 50h 3Dh <numeric< td=""></numeric<>

Product Specifications

Commands		ASCII representation	Binary representation	
Sharpness acquisition		GET=SHARP <cr></cr>	47h 45h 54h 3Dh 53h 48h 41h 52h 50h 0Dh	
Contrast	Contrast value setting	CONT= <value><cr></cr></value>	43h 4Fh 4Eh 54h 3Dh <numeric code=""> 0Dh</numeric>	
Contrast acquisition		GET=CONT <cr></cr>	47h 45h 54h 3Dh 43h 4Fh 4Eh 54h 0Dh	
	Auto	ASPECT=AUTO <cr></cr>	41h 53h 50h 45h 43h 54h 3Dh 41h 55h 54h 4Fh 0Dh	
	4:3	ASPECT=4:3 <cr></cr>	41h 53h 50h 45h 43h 54h 3Dh 34h 3Ah 33h 0Dh	
Aspect	16:9	ASPECT=16:9 <cr></cr>	41h 53h 50h 45h 43h 54h 3Dh 31h 36h 3Ah 39h 0Dh	
Aspeci	16:10	ASPECT=16:10 <cr></cr>	41h 53h 50h 45h 43h 54h 3Dh 31h 36h 3Ah 31h 30h 0Dh	
	Zoom	ASPECT=ZOOM <cr></cr>	41h 53h 50h 45h 43h 54h 3Dh 5Ah 4Fh 4Fh 4Dh 0Dh	
	True size	ASPECT=TRUE <cr></cr>	41h 53h 50h 45h 43h 54h 3Dh 54h 52h 55h 45h 0Dh	
Aspect value acquisition		GET=ASPECT <cr></cr>	47h 45h 54h 3Dh 41h 53h 50h 45h 43h 54h 0Dh	
Lamp mode	Full power	LAMP=FULL <cr></cr>	4Ch 41h 4Dh 50h 3Dh 46h 55h 4Ch 4Ch 0Dh	
	Power saver	LAMP=ECO <cr></cr>	4Ch 41h 4Dh 50h 3Dh 45h 43h 4Fh 0Dh	
Lamp mode value acquisition		GET=LAMP <cr></cr>	47h 45h 54h 3Dh 4Ch 41h 4Dh 50h 0Dh	
	Blank On	BLANK=ON <cr></cr>	42h 4Ch 41h 4Eh 4Bh 3Dh 4Fh 4Eh 0Dh	
Blank	Blank Off	BLANK=OFF <cr></cr>	42h 4Ch 41h 4Eh 4Bh 3Dh 4Fh 46h 46h 0Dh	
Blank acquisition		GET=BLANK <cr></cr>	47h 45h 54h 3Dh 42h 4Ch 41h 4Eh 4Bh 0Dh	

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Option

- Lamp
 Part No · R9
- Part No.: RS-LP08
- Ceiling attachment Part No.: RS-CL12 (WUX450/WX520)
- Ceiling attachment Part No.: RS-CL13 (WUX400ST/WX450ST)
- Ceiling-mount pipe (400 - 600 mm / 15.7 - 23.6 in) Part No.: RS-CL08*
- Ceiling-mount pipe (600 - 1000 mm / 23.6 - 39.4 in) Part No.: RS-CL09*

- Air filter
 - Part No.: RS-FL02
- Remote control Part No.: RS-RC06 RS-RC05
- Option feet
 Part No.: RS-FT01

* Use the above materials to hang the projector from the ceiling. For details, refer to the assembly and installation manual provided with the ceiling attachment RS-CL12/RS-CL13.

Menu Configuration

*: Factory defaults (setting after reset)

Input Settings Menu	*: Factory defaults (setting after r	eset)
Aspect	Digital PC / Analog PC-1/2 / HDMI (when [HDMI In] is	P87
	[Computer]) Auto*	
	16:10	
	16:9	
	4:3	
	True size	
	HDMI (when [HDMI In] is [Auto]) / Component	
	Auto*	
	16:9 4:3	
	Zoom	
	True size	
	USB / LAN	
	Auto	
Auto PC	Analog PC-1 / 2	P88
Input signal select	Analog PC-1 / 2	P88
	640 x 480	
	: 1920 x 1200	
	1920 x 1200	
Input signal settings	Analog PC-1 / 2	
	Total dots	P89
	Tracking	P89
	Horizontal position	P90
	Vertical position	P90
	Horizontal pixels	P91
	Vertical pixels	P91
HDMI input level	HDMI	P92
	Auto*	
	Normal	
	Expanded	
HDMI color space	HDMI	P92
	Auto* RGB	
	YCbCr	
HDMI over scan*1	HDMI	P93
	Off	
	On	
Progressive	Component / HDMI	P93
	Off	
	Film/auto*	
	Video 1	
	Video 2	
	25p/30p(PsF)	
*1 Factory default setting	s are based on these conditions: [On] when HDMI ([HDMI II	n1) is
[Auto], and [Off] when	it is [Computer].	.1/ .0

Menu Configuration

Slideshow interval	USB [:] : [60:00]		P94
Split screen	Digital PC / Analog PC-1/2 / I	HDMI / Component	P95
Settings	Split screen	Off On	
	Control rights	Left screen Right screen	

Image Adjustment Menu

Image priority (in split-screen mode)	NOMMC	P96
	Primary	
	Secondary	
Image mode CO	OMMON	P97
	Photo/sRGB*	
	User 1 - 5	
	(when creating profile)	007
D	gital PC / Analog PC-1/2 / HDMI (when [HDMI In] is	P97
	omputer]) / LAN / USB Standard	
	Presentation*	
	omponent / HDMI (when [HDMI In] is [Auto])	P97
	Dynamic	1 37
	Video	
Create profile	P98	
Save profile (When profile is selected		
Baseline image mode (When profile is s	,	
Brightness	P99	
Contrast	P99	
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Gamma	P100	
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Color level		
Color balance		
Color temperature		
R Gain		
G Gain		
B Gain		
R Offset		
G Offset		
B Offset		
⊥		
V		

*: Factory defaults (setting after reset)

dvanced adjustment	
Ambient light (when Photo/sRGB is selected)	Off* P10 Adjust
	Type Tungsten Fluorescent
	Н
Noise reduction*2	Off P10 Weak Middle Strong
Dynamic gamma*3	Off P10 Weak Middle Strong
Mem. color correct*4	FleshOffP10SkyWeakMiddleGreenStrong
6-axis color adjust	Off* P10 Adjust Hue / Saturation / Brightness Reset P10
Fine-Tune Gamma	P105
Iris	Off* P10
amp mode	Full power* P10 Power saver P10
set	OK / Cancel P10

Factory default settings are set according to the following conditions.

- *2 For HDMI (when [HDMI In] is [Auto]), the factory default is [Off].
 - For Component, the factory default is [Weak].
- *3 For Analog PC-1/2, Digital PC or HDMI (when [HDMI In] is [Computer]), the factory default is [Off].
 - [Weak] by default for Component or HDMI (when [HDMI In] is [Auto]).
- *4 [Off] by default for HDMI (when [HDMI In] is [Computer]), or for Digital PC, Analog PC (1 or 2), USB, or LAN.
 - HDMI (when [HDMI In] is [Auto]) or COMPONENT: Weak

*: Factory defaults (setting after reset)

Install Settings Menu

Positional lock	Off*	P146
	On	
Image flip H/V	None*	P146
	Ceiling mounted	1 1 10
	Rear	
	Rear, Ceiling mounted	
Screen aspect	16:10*	P148
	16:9	
	4:3	
	16:9 D. image shift	
	4:3 D. image shift	
Zoom (WUX400ST/WX450ST)	P149	
Keystone	Horizontal-vertical keystone*	P150
	Corner adjustment	
	Reset	
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Micro-digital image shift	Off*	P151
	Adjust	FIDI
	Adjust	
Registration	Off*	P151
	Adjust	
Fan mode	Normal*	P152
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	Upward	
	Downward	
Edge Blending	Off* P159	
	Adjust	
	Right	
	Тор	
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	Reset	
Audio in terminal select		
	Off	D152
HDMI	Audio in 1	P153
	Audio in 1 Audio in 2	
₩ ₩	HDMI*	
V V	*: Factory defaults (setting after reset	F)
	. I actory defaults (setting after fesel	y .

Menu Configuration

Digital PC	Off	P153
	Audio in 1*	
	Audio in 2	
Analog PC-1	Off	P153
	Audio in 1*	
	Audio in 2	
Analog PC-2	Off	P153
	Audio in 1	1100
	Audio in 2*	
Component	Off	P153
	Audio in 1	
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Screen color	Normal*	P153
	Greenboard	
	Adjust	
On screen		
	Dist	
Menu position	P154	
Guide	Off	P154
	On*	
Show input status	Off	P155
	On On*	F 100
	011	
Overheat warning display	Off*	P155
	On	
Menu display time	Normal*	P156
	Extended	F 150
	Extended	
Lamp warning display	Off	P156
	On*	
Air filter worping display	Off	D157
Air filter warning display		P157
	On*	
Split screen ID display	Off	P157
	On*	
Test pattern	Off*	P158
	On	

*: Factory defaults (setting after reset)

System Settings Menu

User screen settings]	
		D100
Logo capture	OK Cancel*	P108
	Guilder	
Logo position	Upper L	P108
	Upper R	
	Center*	
	Lower L	
	Lower R	
No signal screen	Black	P109
	Blue*	
	User logo	
	5	
Screen when blank	Black*	P109
	Blue	
	User logo	
Projector on	Skip	P110
	Canon logo*	1110
	User logo	
Auto power-off	5 min.	P110
	10 min.	
	15 min.*	
	20 min.	
	30 min.	
	60 min.	
	Disabled	
Direct power on	Off*	P111
	On	
Веер	Off	P111
	On*	
Key repeat	Off	P112
	On*	
Key lock	Off*	P112
	Main unit	
	Remote (wireless)	
Pomoto control channol		 D112
Remote control channel	Ch1 Ch2	P113
	Ch3	
	Ch4	
	Independent*	
Motion blur reduction	Off*	P114
	On	

*: Factory defaults (setting after reset)

Menu Configuration

HDMI In	Auto*		P115
	Computer		
Language	English	Turkish	P115
	German	Polish	
	French	Hungarian	
	Italian	Czech	
	Spanish	Danish	
	Portuguese	Arabic	
	Swedish	Chinese (Simplified)	
	Russian	Chinese (Traditional)	
	Dutch	Korean	
	Finnish	Japanese	
	Norwegian		
Other settings			
Password settings	Off*		P116
	On		
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Gamma restore	Off* Adjust		P118
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Network password setting

Register network password

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Network standby settings

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*: Factory defaults (setting after reset)

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Information

Model name	P122
Input signal	
Firmware	
Serial no.	
E-mail sender address	
E-mail recipient address	
Projector name	
Location	
System information ID	

*: Factory defaults (setting after reset)

Canon

CANON INC.

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

U.S.A.

CANON U.S.A. INC.

One Canon Park, Melville, New York 11747, U.S.A.

For all inquires concerning this product, call toll free in the U.S. 1-800-OK-CANON

CANADA

CANON CANADA INC. HEADQUARTERS

6390 Dixie Road, Mississauga, Ontario L5T 1P7, Canada

CANON CANADA INC. MONTREAL BRANCH

5990, Côte-de-Liesse, Montréal Québec H4T 1V7, Canada

CANON CANADA INC. CALGARY OFFICE

2828, 16th Street, N.E. Calgary, Alberta T2E 7K7, Canada

For all inquiries concerning this product, call toll free in Canada 1-800-OK-CANON

EUROPE, AFRICA & MIDDLE EAST CANON EUROPE LTD.

3 The Square, Stockley Park, Uxbridge, Middlesex, UB11 1ET United Kingdom

CANON EUROPA N.V.

Bovenkerkerweg 59, 1185 XB Amstelveen, The Netherlands

CANON FRANCE S.A.S

17, quai du President Paul Doumer, 92414 Courbevoie Cedex, France

CANON UK LTD.

Woodhatch Reigate Surrey RH2 8BF, United Kingdom

CANON DEUTSCHLAND GmbH

Europark Fichtenhain A10, 47807 Krefeld, Germany

CANON ITALIA S.p.A.

Via Milano 8 I-20097 San Donato Milanese, Milano, Italy

CANON Schweiz AG

Geschäftsbereich Wiederverkauf, Industriestrasse 12, CH-8305 Dietlikon, Switzerland

CANON GMBH

Zetschegasse 11, A-1230 Wien, Austria

CANON España, S.A.

Av. De Europa, 6 Alcobendas 28108 Madrid, Spain

CANON PORTUGAL S.A.

Rua Alfredo da Silva, 14 Alfragide 2610-016 Amadora, Portugal

CANON Belgium N.V. / S.A. Berkenlaan 3, 1831 Diegem (Mechelen), Belgium

CANON Netherland NV

Neptunusstraat 1, 2132 JA Hoofddorp, The Netherlands

CANON LUXEMBOURG S.A.

Rue des Joncs 21, L-1818 Howald,

Luxembourg CANON DANMARK A / S

Knud Hoejgaards Vej 1 DK-2860 Soeborg, Danmark

CANON OY

Huopalahdentie 24 PL 1 00351 Helsinki, Finland

CANON SVENSKA AB

Gustav III:s Boulevard 26 169 88 Solna, Sweden

CANON NORGE as

Hallagerbakken 110, Postboks 33, Holmlia, 1201 Oslo, Norway

CENTRAL & SOUTH AMERICA

CANON LATIN AMERICA, INC. 703 Waterford Way, Ste. 400 Miami, FL 33126, U.S.A.

ASIA

CANON (China) Co., Ltd.

15F Jinbao Building No.89 Jinbao Street, Dongcheng District, Beijing 100005, China CANON HONGKONG CO., LTD.

19 / F., The Metropolis Tower, 10 Metropolis Drive, Hunghom, Kowloon, Hong Kong

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CANON AUSTRALIA PTY. LTD.

Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia CANON NEW ZEALAND LTD.

Akoranga Business Park, Akoranga Drive, Northcote, Auckland, New Zealand