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PROJECTOR OWNER'S MANUAL

Epson

EH-TW9400

Need a replacement lamp for this projector?

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EPSON®

User's Guide

EH-TW9400W
EH-TW9400
EH-TW8400W
EH-TW8400

Home Projector

Using Each Guide

The guides for this projector are organized as shown below.

Safety Instructions/Support and Service Guide



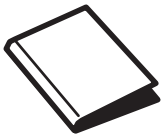
Contains information on using the projector safely, as well as a support and service guide, troubleshooting check lists, and so on. Make sure you read this guide before using the projector.

User's Guide (this guide)



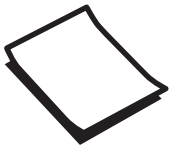
Contains information on setting up and basic operations before using the projector, using the Configuration menu, and handling problems and performing routine maintenance.

WirelessHD Transmitter User's Guide (EH-TW9400W/EH-TW8400W only)



Contains information on handling the WirelessHD Transmitter and warnings and so on.

Quick Start Guide



Contains information on the procedures for setting up the projector. Read this first.

Notations Used in This Guide

Safety Indications

The documentation and the projector use graphical symbols to show how to use the projector safely. The following shows the symbols and their meanings. Please understand and respect these caution symbols in order to avoid injury to persons or property.

⚠ Warning

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

⚠ Caution

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

General Information Indications

Attention

Indicates procedures which may result in damage or malfunctions to occur.

	Indicates additional information and points which may be useful to know regarding a topic.
☛	Indicates a page where detailed information regarding a topic can be found.
Menu Name	Indicates Configuration menu items. Example: **Image** - **Color Mode**
Button Name	Indicates the buttons on the remote control or the control panel. Example: (Menu) button

About the Use of "This Product" or "This Projector"

As well as the main projector unit, supplied items or optional extras may be referred to using the phrase "this product" or "this projector".

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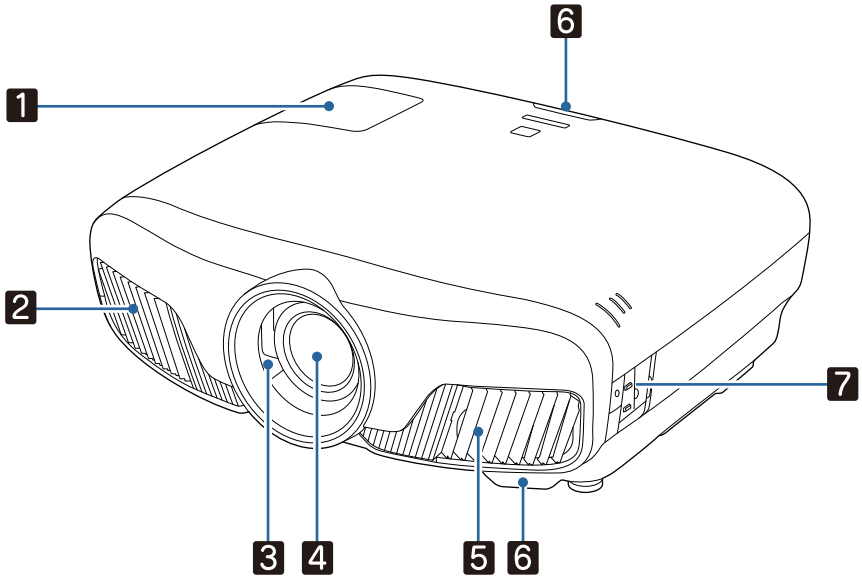
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Part Names and Functions

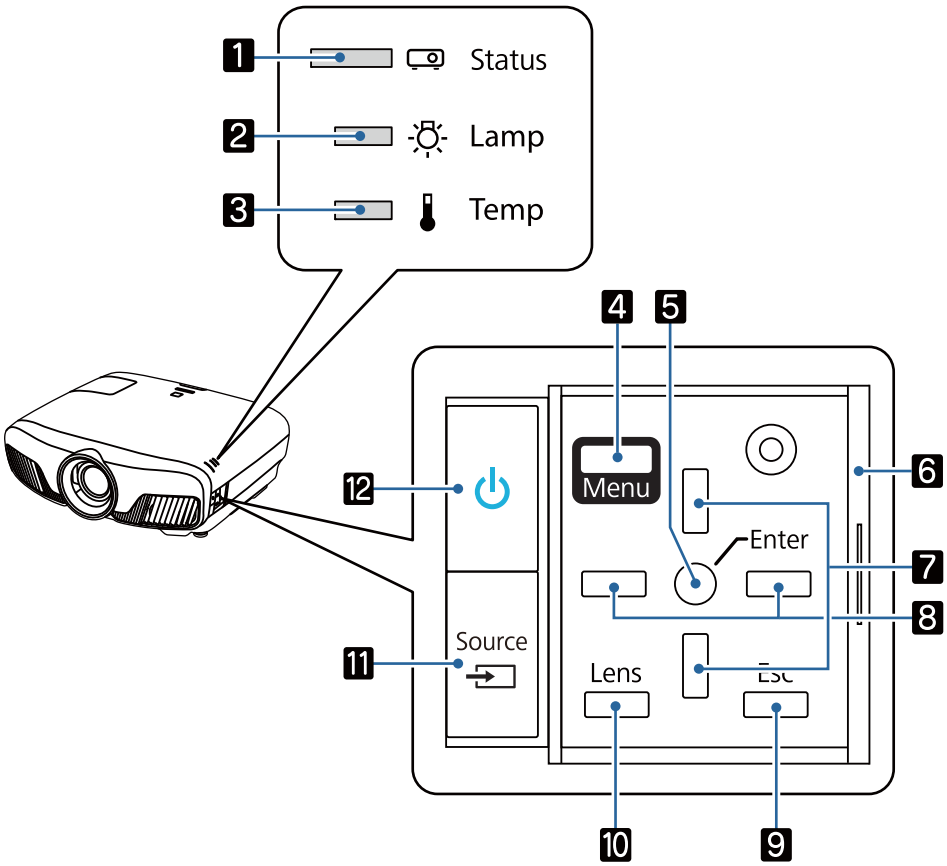
Front/Top



Name		Function
1	Lamp cover	Open when replacing the projector's lamp. ☛ p.103
2	Air exhaust vent	Exhaust vent for air used to cool the projector internally. **⚠ Caution** While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.
3	Lens shutter	Links to the projector's power on/off function, and automatically opens and closes the shutter. ☛ p.25
4	Lens	Images are projected from here.
5	Air intake vent	Intake vent for air used to cool the projector internally.
	Air filter cover	When replacing the air filter, open this cover and remove the air filter. ☛ p.102
6	Remote receiver	Receives signals from the remote control. ☛ p.24
7	Control panel	Operates the projector. ☛ p.7

Control Panel

When the Illumination function is set to **Off**, all indicators are off under normal projection conditions.☛ **Extended** - **Operation** - **Illumination** p.78

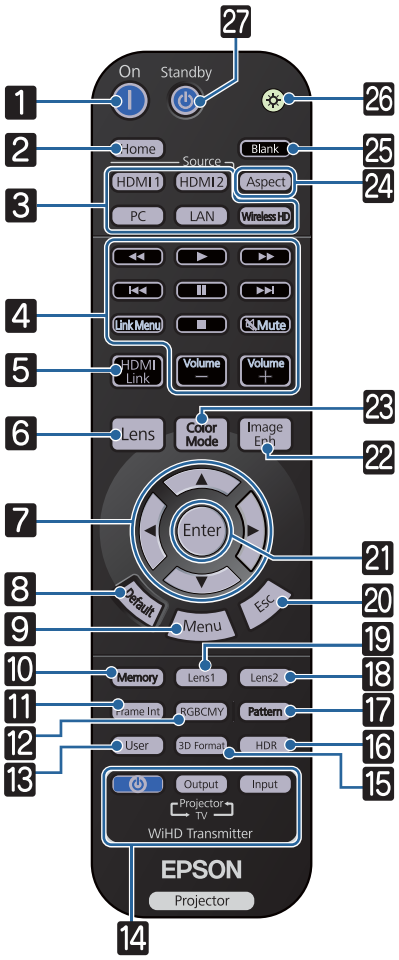


Buttons/Indicators		Function
1		Flashes to indicate warm-up in progress or cool-down in progress. Shows the projector's status through a combination of other indicators lit and flashing. ☛ p.87
2		Flashes orange when it is time to replace the lamp. Shows the projector's errors through a combination of other indicators lit and flashing. ☛ p.87
3		Flashes orange if the internal temperature is too high. Shows the projector's errors through a combination of other indicators lit and flashing. ☛ p.87
4	Menu	Displays and closes the Configuration menu. On the Configuration menu, you can make adjustments and settings for Signal, Image, Input Signal, and so on. ☛ p.71
5		Selects functions and settings when a menu is displayed. ☛ p.71
6	Control panel cover	Cover for the control panel. When you want to use the control panel, grip the knob and slide the cover open.
7		Selects the adjustment value for the keystone correction and for menu items. ☛ p.31
8		Selects adjustment values for menu items. ☛ p.71
9	Esc	Returns to the previous menu level when a menu is displayed. ☛ p.71

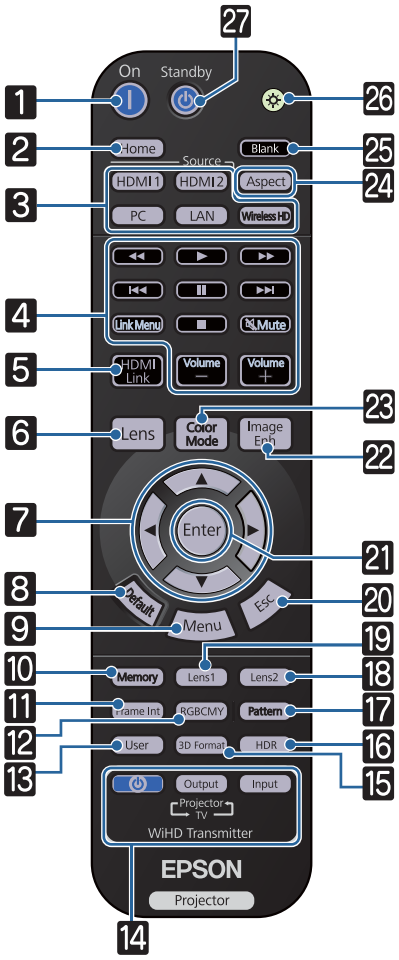
Buttons/Indicators		Function
10	Lens	Changes the adjustment items for the motorized lens function. The adjustment items are as follows. • Focus ☛ p.29 • Zoom ☛ p.29 • Lens shift ☛ p.30
11		Changes to the image from each input port. ☛ p.26
12		Turns the projector on or off. ☛ p.25 Lit when the projector is on. Shows the projector's errors through a combination of other indicators lit and flashing. ☛ p.87

Remote Control

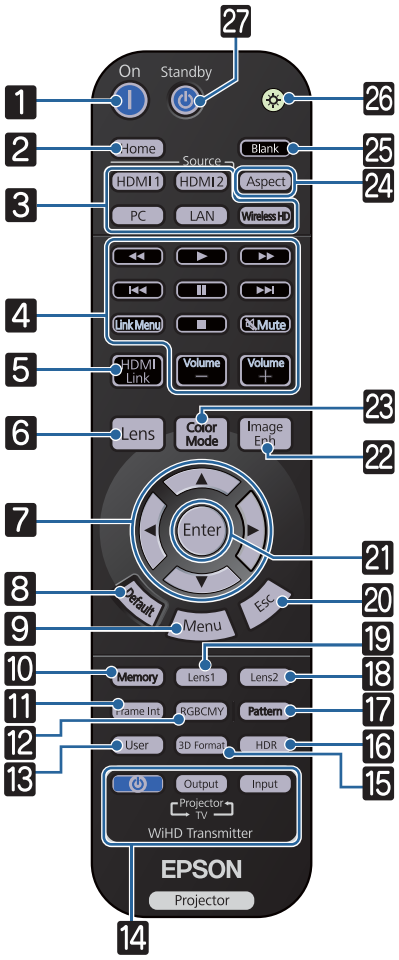
The remote control varies depending on the projector model you are using. This examples in this section are for the remote control for the EH-TW9400W/EH-TW8400W.



Button		Function
1	On	Turns the projector on. ☛ p.25
2	Home	Displays and closes the Home screen. ☛ p.26
3	HDMI1 HDMI2 PC LAN WirelessHD	Changes to the image from each input port. ☛ p.26 WirelessHD is only available for the EH-TW9400W/ EH-TW8400W.
4	◀◀ ▶ ▶▶ ⏮ ⏸ ⏭ Link Menu ■ Mute Volume − Volume +	Performs operations such as play, stop, and volume adjustment for connected devices that meet the HDMI CEC standards. ☛ p.61
5	HDMI Link	• When **HDMI Link** is **On** ☛**Settings** - **HDMI Link** - **HDMI Link** p.75 Displays the device connections list. • When **HDMI Link** is **Off** ☛**Settings** - **HDMI Link** - **HDMI Link** p.75 Displays the HDMI link settings menu. ☛ p.61
6	Lens	Changes the adjustment items for the motorized lens function. The adjustment items are as follows. • Focus ☛ p.29 • Zoom ☛ p.29 • Lens shift ☛ p.30

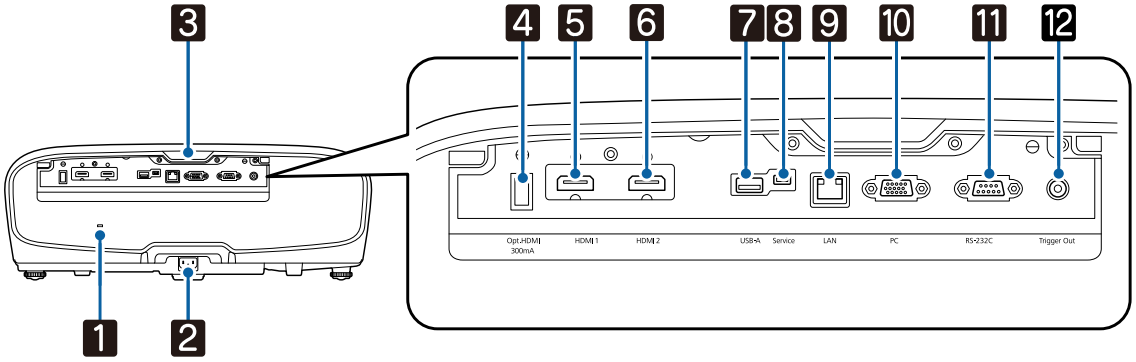


Button		Function
7		Selects menu items and adjustment values. ☛ p.71
8	Default	The adjustment value returns to its default value when pressed while the menu's adjustment screen is displayed. ☛ p.71
9	Menu	Displays and closes the Configuration menu. On the Configuration menu, you can make adjustments and settings for Signal, Image, and so on. ☛ p.71
10	Memory	Saves, loads, or erases a memory. ☛ p.42
11	Frame Int	Sets the strength for Frame Interpolation. ☛ p.36
12	RGBCMY	Adjusts the hue, saturation, and brightness for each RGBCMY color. ☛ p.38
13	User	Performs the function assigned to the user button. ☛ p.75
14	Output Input	(EH-TW9400W/EH-TW8400W only) This is the button for controlling the WirelessHD Transmitter. Turns on the WirelessHD Transmitter, or switches the input and output. Make sure you point the remote control at the WirelessHD Transmitter when performing operations. ☛ p.47
15	3D Format	Changes the 3D format. This projector supports the following 3D formats. • Frame Packing • Side by Side • Top and Bottom ☛ p.44
16	HDR	The adjustment screen for the dynamic range is displayed. ☛ p.74
17	Pattern	Displays and closes the test pattern. ☛ p.28
18	Lens2	Loads the lens position registered as **Memory1** or **Memory2** in the Save Lens Position. ☛ p.42
19	Lens1	
20	Esc	Returns to the previous menu level when a menu is displayed. ☛ p.71
21	Enter	When a menu is displayed, it accepts and enters the current selection and moves to the next level. ☛ p.71



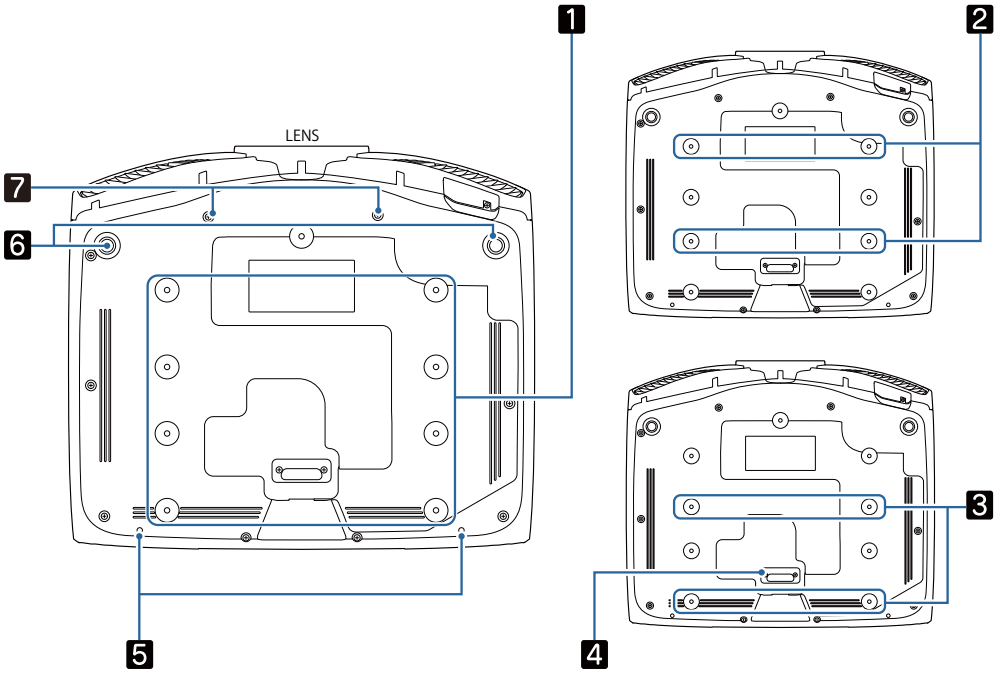
Button		Function
22	Image Enh	Displays the **Image Enhancement** menu. ☛ p.35
23	Color Mode	Changes the **Color Mode**. ☛ p.32
24	Aspect	Selects the aspect mode according to the input signal.☛ p.33
25	Blank	Temporarily stops projection. To turn the image back on, press this button again. ☛ p.31
26	☼	The remote control buttons light up for approximately 10 seconds. This is useful when operating the remote control in the dark.
27	Standby ⏻	Turns the projector off. ☛ p.27

Rear



Name		Function
1	Security slot ( )	The security slot compatible with the MicroSaver security system manufactured by Kensington. For more details, visit the homepage of Kensington at http://www.kensington.com/.
2	Power inlet	Connect the power cord. ☛ p.25
3	Remote receiver	Receives signals from the remote control. ☛ p.24
4	Opt.HDMI port	Connects the power supply port for the optical HDMI cable. However, connection for all the devices is not guaranteed. Make sure to check if your device works beforehand.
5	HDMI1 port	Connects HDMI compatible video equipment and computers.☛ p.19 HDMI1/HDMI2 ports support HDCP 2.2.
6	HDMI2 port	
7	USB-A port	Connects the optional Wireless LAN unit. It is also used when updating the firmware. ☛ p.21
8	Service port	Service port. This is not normally used.
9	LAN port	Connects a LAN cable to connect to a network. ☛ p.21
10	PC port	Connects to the RGB output port on a computer. ☛ p.20
11	RS-232C port	When controlling the projector, connect the projector to a computer with an RS-232C cable. This port is for control use and should not normally be used.
12	Trigger Out port	Connects with external devices such as motorized screens. ☛ p.20

Base



Name		Function
1 2 3	Ceiling mount fixing points	Attaches the optional ceiling mount here when suspending the projector from a ceiling. ☛ p.111 Use the four ceiling mount fixing points for 2 or 3 depending on the installation environment. Use the 3 fixing points when installing next to a wall in a small room.
4	Rear foot	Remove this when using the 3 ceiling mount fixing points.
5	Cable cover fixing screw	Screw holes for attaching the cable cover.
6	Front adjustable foot	When set up on a surface such as a table, extend the foot to adjust horizontal tilt. ☛ p.31
7	Screw holes for anamorphic lens	Screw holes for attaching the anamorphic lens.

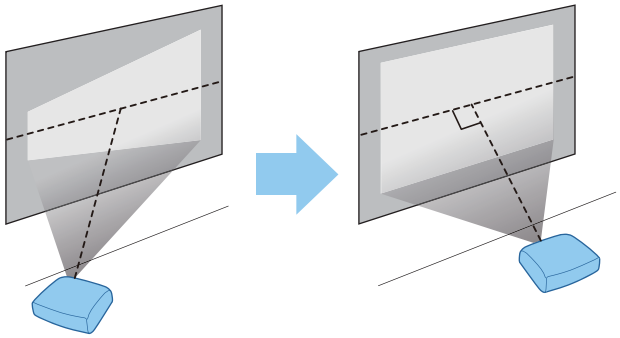
Installing

Projected Image and Position of Projector

Install the projector as follows.

Installing in parallel with the screen

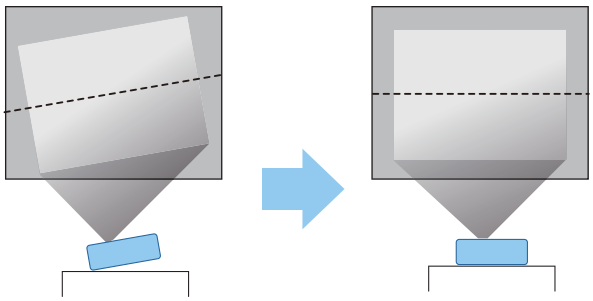
If the projector is installed at an angle to the screen, keystone distortion occurs in the projected image.
Adjust the projector's position so that it is installed in parallel with the screen.



If the projector cannot be installed in front of the screen, you can adjust the position of the image by using lens shift. ☛ p.30

Installing the projector horizontally by adjusting the height of either side

If the projector is tilted, the projected image is also tilted.
Install the projector horizontally so that both sides are at the same height.
If the projector cannot be installed horizontally, you can adjust the projector's tilt with the front foot. ☛ p.31



Various Setting Methods

⚠ Warning

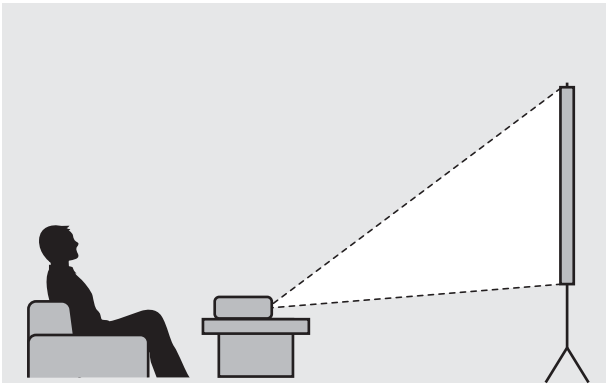
- A special method of installation is required when suspending the projector from a ceiling (ceiling mount). If it is not installed correctly, it could fall, causing an accident and injury.
- If you use adhesives, lubricants, or oil on the ceiling mount fixing points to prevent screws from loosening, or if you use items such as lubricants or oils on the projector, the outer projector case may crack, which causes it to fall from its ceiling mount. This could cause serious injury to anyone under the projector and also damage the projector.
- Do not set up the projector in locations exposed to high humidity and dust, such as on a kitchen counter, in the kitchen, or near a humidifier, or in locations exposed to oil smoke or steam. Doing so could cause fire or electric shock. In addition, the oil content could cause the projector's outer case to deteriorate and could cause the projector to fall off from the ceiling where it is suspended.
- Do not install it on an unstable shelf or in a place out of load range. Otherwise, it could fall or topple causing an accident and injury.
- When installing it in a high position such as on a shelf, take measures against falling by using wires to ensure the safety in an emergency, such as an earthquake, and prevent accidents. If it is not installed correctly, it could fall causing an accident and injury.
- Do not block the air intake vent and air exhaust vent of the projector. Blocking its air intake vent and air exhaust vent may trap heat inside causing fire.

Attention

- Do not use the projector installed vertically. Doing so could cause a malfunction.
- Clean the air filter once every three months. Clean it more often if the environment is particularly dusty.
☛ p.100

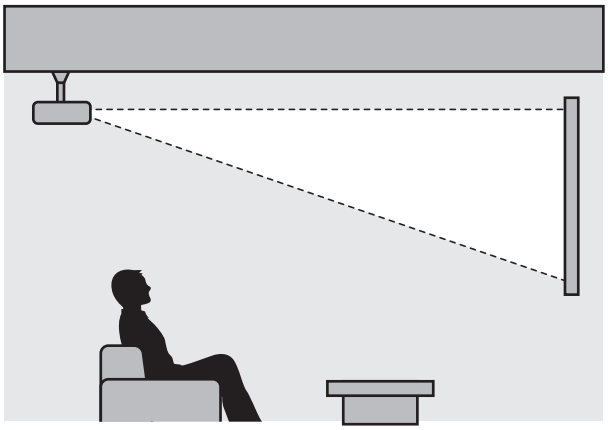
Placing on a table and projecting

You can install the projector on a table in your living room or on a low shelf to project images.



Suspending from the ceiling and projecting

You can suspend the projector from the ceiling with the optional ceiling mount to project images.



When suspending from the ceiling and projecting, set **Projection** to **Front/Ceiling** or **Rear/Ceiling**. ☛ **Extended** - **Projection** p.78

Projection Distance and Lens Shift Maximum Values

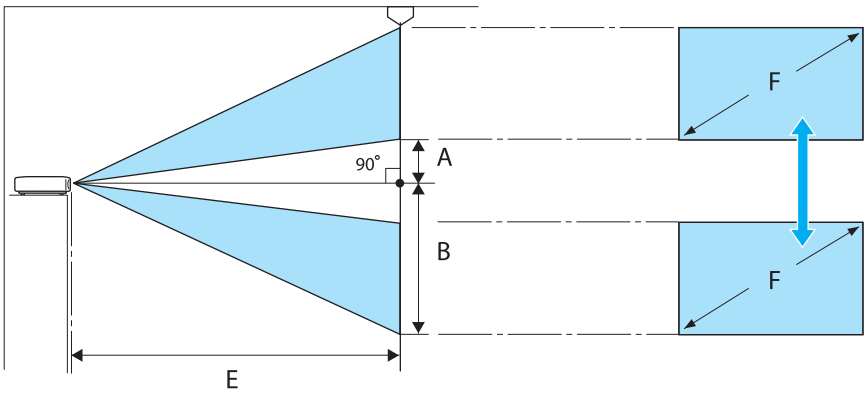
The size of the projection increases as the projector is moved away from the screen.

Use the table below to setup the projector at the optimum position from the screen. The values given here are for your reference only.

The maximum lens shift adjustment values are shown in the following table.

The projected image becomes smaller after correcting distortion. Increase the projection distance to fit the projected image to the screen size.

When adjusting the projection position vertically in lens shift



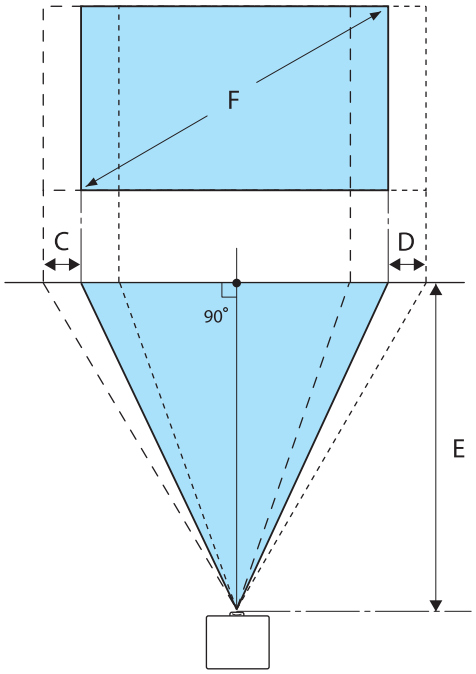
A : Distance from the center of the lens to the bottom edge of the projected image (when lens shift is raised to its highest level)

B : Distance from the center of the lens to the bottom edge of the projected image (when lens shift is lowered to its lowest level)

E : Projection distance from the projector to the screen

F : Size of the projected image

When adjusting the projection position horizontally in lens shift



C : Lens center movement distance when the projector is moved (when lens shift is set to maximum left)
D : Lens center movement distance when the projector is moved (when lens shift is set to maximum right)
E : Projection distance from the projector to the screen
F : Size of the projected image

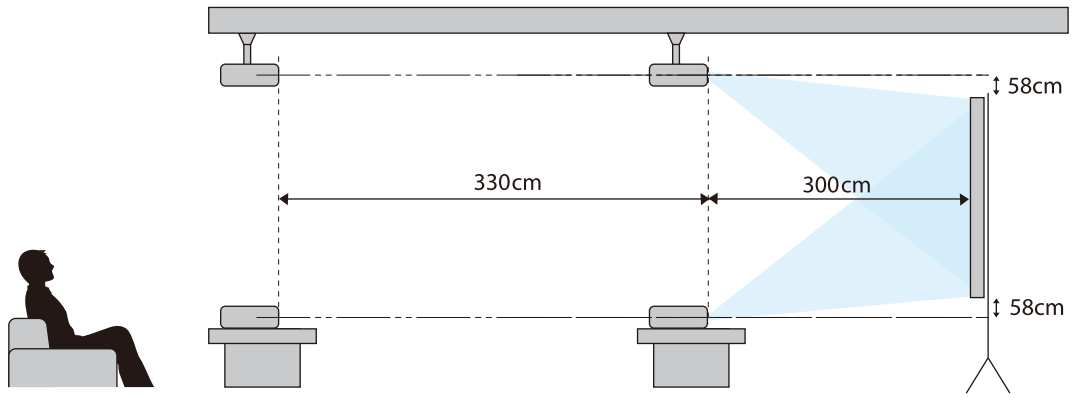
Unit: cm

16:9 Screen Size		Projection Distance (E)		Lens Shift Maximum Values*		
F	W x H	Minimum (Wide)	Maximum (Tele)	Distance (A)	Distance (B)	Distance (C, D)
50"	111 x 62	148	313	29	91	52
60"	133 x 75	178	376	35	109	63
80"	177 x 100	239	503	46	146	83
100"	221 x 125	300	630	58	182	104
150"	332 x 187	452	947	86	273	156
200"	443 x 249	604	1264	115	364	209
250"	553 x 311	756	1582	144	455	261
300"	664 x 374	908	1899	173	547	313

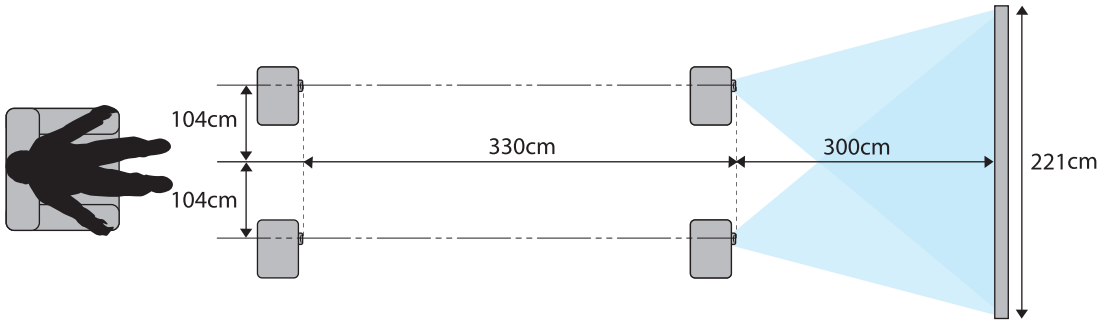
* Vertical and horizontal lens shift cannot both be set to their maximum values. ☛ p.30

Installation example (with 16:9 screen size and 100")

Side view



Overhead view



Connecting a Device

Attention

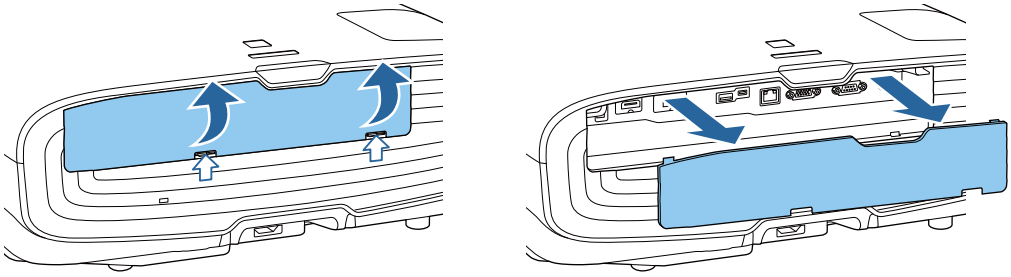
- Make cable connections before connecting to a power outlet.
- Check the shape of the cable's connector and the shape of the port, and then connect. If you force a connector of a different shape into the port, it could cause damage and a malfunction to occur.

Removing the Terminal Cover

Depending on the model you are using, the projector may have a terminal cover for the connector section on the rear to improve the overall appearance of the projector. Remove the terminal cover before connecting any cables.

There are gaps at the bottom of the terminal cover that allow you to pull the cover forward and lift it from the grooves at the top.

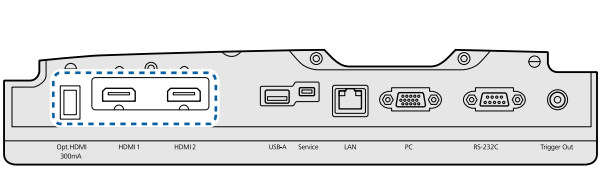
When reattaching, first insert the protruding sections into the grooves at the top.

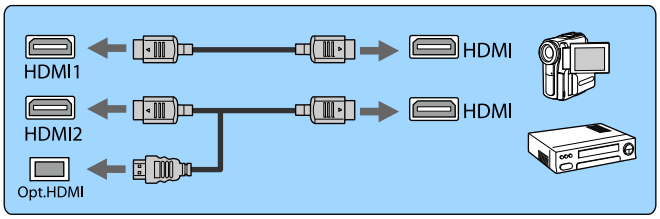


Connecting Video Equipment

To project images from DVD/Blu-ray players, connect to the projector using one of the following methods.

When using a commercially available HDMI cable



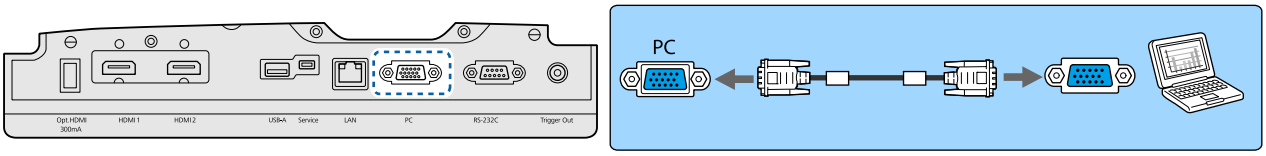


- To display signals in the 18 Gbps transmission band, such as 4k60p/4:4:4, use a premium HDMI cable. If you use a cable that does not support it, images may not be displayed properly. If you experience any trouble displaying images at 18 Gbps. change the EDID setting to **Normal**. ☛**Signal-Advanced-EDID** p.74
- When using the power supply port for an optical HDMI cable, connect it to the Opt.HDMI port.
- HDMI1/HDMI2 ports support HDCP 2.2.
- This projector does not have a built-in speaker. Connect the projector to your AV system to listen to audio from connected equipment.

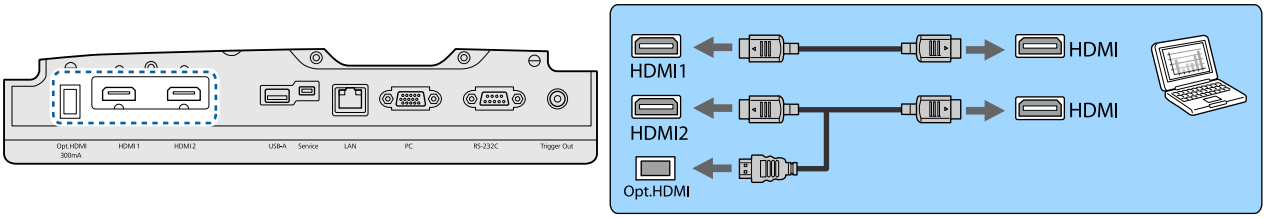
Connecting a Computer

To project images from a computer, connect the computer using one of the following methods.

When using a commercially available computer cable



When using a commercially available HDMI cable

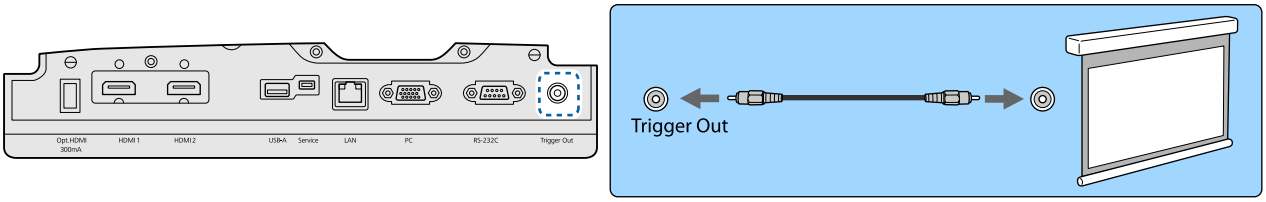


Connecting External Equipment

Connecting to the Trigger Out port

To connect external devices such as motorized screens, connect a mini-jack stereo cable (3.5 mm) to the Trigger Out port. When set to on, a signal (12 V DC) is output from this port to communicate the projector's status (On or Off) to connected devices such as electric screens.

To use the **Trigger Out** port, set **Trigger Out** to **Power** (EH-TW9400W/EH-TW9400 only) or **On** (EH-TW8400W/EH-TW8400 only). ☛ **Extended** - **Operation** - **Trigger Out** p.78



Connecting WirelessHD devices (EH-TW9400W/EH-TW8400W only)

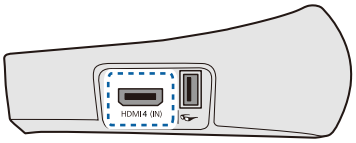
The projector receives transmissions from the WirelessHD Transmitter, and projects the images. ☛ p.47

Change the projected image by pressing the WirelessHD button on the remote control or the button on the control panel.

- When receiving WirelessHD images, make sure **WirelessHD** is set to **On**. ☛**Settings** - **WirelessHD** - **WirelessHD** p.75
- You can change which device is displayed by selecting a device from **Device Connections** in **HDMI Link**. ☛**Settings**-**HDMI Link**-**Device Connections** p.75

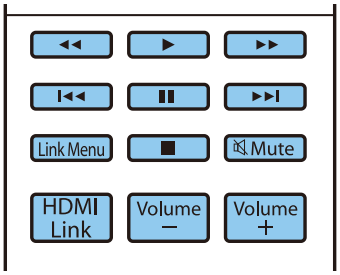
Connecting Smartphones or Tablets

You can connect MHL compatible smartphones or tablets to the WirelessHD Transmitter. Use an MHL compatible cable to connect the micro USB port of smartphones and tablets to the HDMI4 port on the WirelessHD Transmitter.





You can operate smartphones or tablets from the projector remote control. You can also view video and listen to music while charging a smartphone or tablet.



Attention

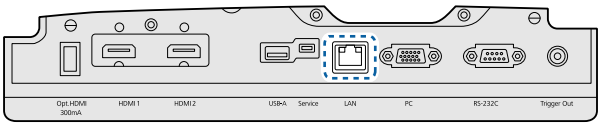
- Make sure the connection cable supports the MHL standards. During charging, the smartphone or tablet could generate heat, cause a liquid leak, explode or generate other conditions that could result in a fire.
- When a connection is made using an MHL-HDMI conversion adapter, it may not be possible to charge or control the device from the remote control.

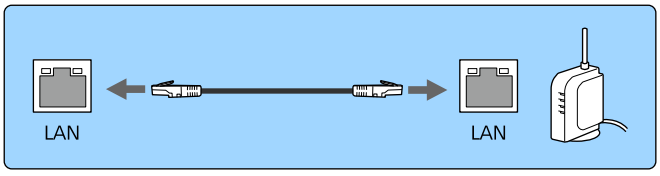
Some devices use more power during video playback than what is supplied and will therefore not enable charging during video playback or other operations.

Connecting to the LAN port

Connect to a network router, a hub, and so on, with a 100BASE-TX or 10BASE-T LAN cable.

You can operate the projector or check its status over a network from a computer or a smart device.



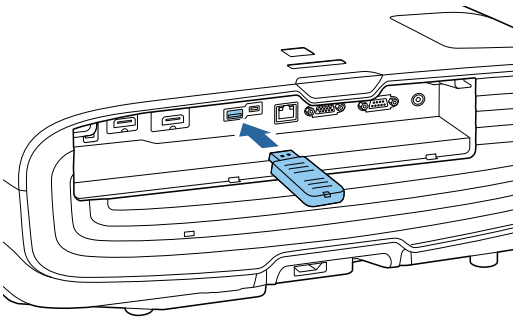


To prevent malfunctions, use a category 5 or higher shielded LAN cable.

Attaching the Wireless LAN unit

To use the wireless LAN function, attach an optional Wireless LAN unit (ELPAP10).

Connect the Wireless LAN unit to the USB port.



You can use one of the following methods to project over wireless LAN. For more details, see the download page.

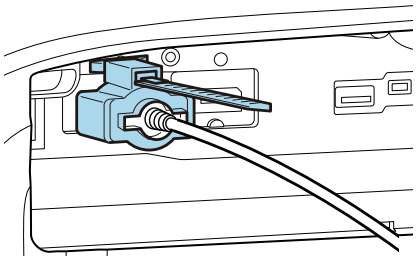
- **Projecting four screens simultaneously**
  When using Epson iProjection (Windows/Mac), you can display up to four separate screens from the projector from up to 50 computers connected to the network.
  Download Epson iProjection from the following Web site.

  http://www.epson.com
- **Projecting images from a mobile terminal via a network**
  By installing Epson iProjection (iOS/Android) on a smartphone or tablet, you can wirelessly project data on your device.☛ p.68

- When not using the wireless LAN function with the Wireless LAN unit kept inserted, set **Wireless LAN Power** to **Off**. This can prevent unauthorized access from outsiders. ☛ p.82
- When using Epson iProjection in **Quick** connection mode, we recommend making security settings. ☛ p.84

Connecting an HDMI Cable Clamp

If the HDMI cable is thick and hangs down, make sure you secure it to the cable holder with an HDMI clamp so that the cable's weight does not disconnect it from the port.



Preparing the Remote Control

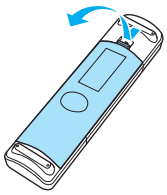
Installing the Remote Control Batteries

Attention

- Check the positions of the (+) and (-) marks inside the battery holder to ensure the batteries are inserted the correct way.
- You cannot use other batteries except for the AA size manganese or alkaline.

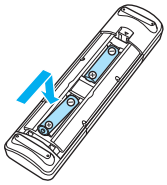
1 Remove the battery cover.

While pushing the battery compartment cover catch, lift the cover up.



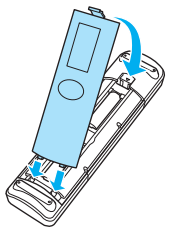
2 Replace the old batteries with new batteries.

Check the polarity of the batteries (+) and (-) before installing.



3 Reattach the battery cover.

Press the cover until it clicks into place.

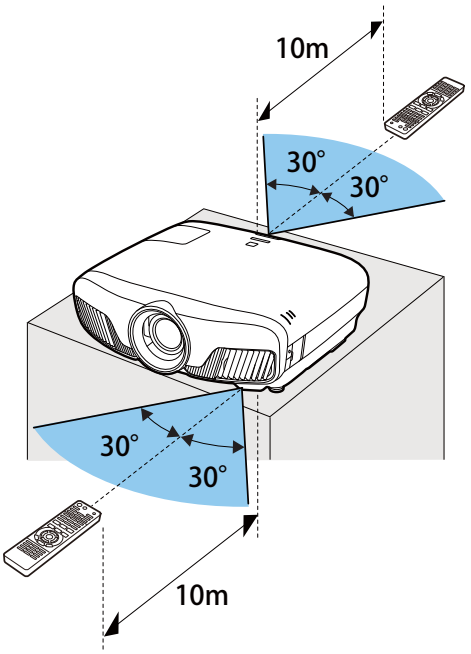


If delays in the responsiveness of the remote control occur or if it does not operate, it probably means that the batteries are becoming flat. When this happens, replace them with new batteries. Have two AA size manganese or alkaline batteries ready.

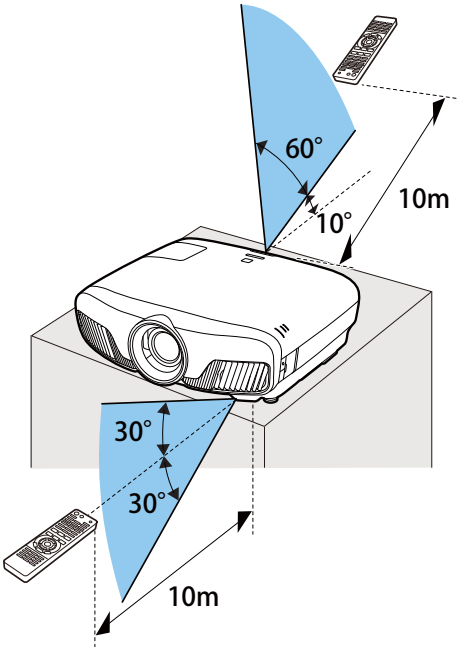
Remote Control Operating Range

The operation range for the WirelessHD Transmitter differs. ☛ p.58

Operating range (left to right)



Operating range (top to bottom)



Projecting Images

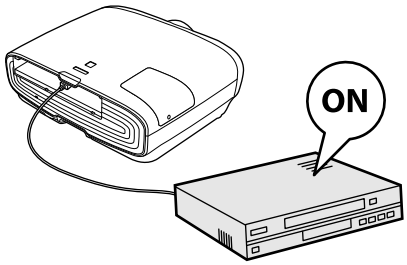
Turning On the Projector

1 Connect the equipment to the projector.

2 Connect using the power cord supplied.

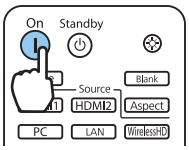
The projector's power indicator turns blue. This indicates that the projector is receiving power, but is not yet turned on (it is in standby mode).

3 Turn on the connected equipment.

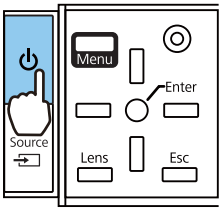


4 Press the ⏻ button on the remote control or the ⏻ button on the control panel to turn on the projector.

Remote control



Control panel



The lens shutter opens, and projection starts.

The ▭ (operation indicator) flashes blue as the projector warms up. Once the projector is warmed up, the operation indicator stops flashing and turns blue.

When **Direct Power On** is set to **On**, you can start projecting by simply connecting the power cord to the projector without having to press any buttons. ☛ **Extended** - **Operation** - **Direct Power On** p.78

⚠ Warning

- Do not look into the lens during projection. The powerful light emitted could cause damage to eyesight. Pay close attention to how your child behaves.
- Do not stand in front of the lens during projection. Clothes could be damaged due to the high temperature.

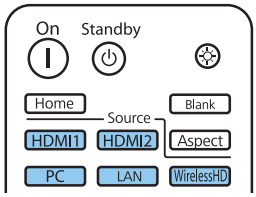
- This projector provides a Child Lock function to prevent children from accidentally turning the power on and a Control Panel Lock function to prevent accidental operations and so on. ☛ **Settings** - **Lock Setting** - **Child Lock**/**Control Panel Lock** p.75
- This projector provides an Auto Setup function to automatically select the optimum settings when the input signal for the connected computer image changes. ☛ **Signal** - **Auto Setup** p.74
- When using at an altitude of 1500 m or more, set **High Altitude Mode** to **On**. ☛ **Extended** - **Operation** - **High Altitude Mode** p.78

If the target image is not projected

If the image is not projected, you can change the source using one of the following methods.

Remote control

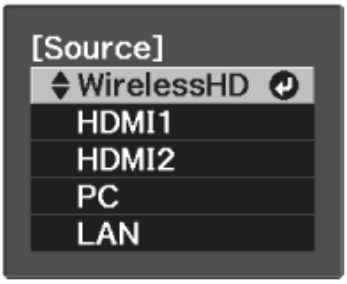
Press the button for the target port.



Control panel

Press the [Source] button and select the target port.

Press the ◯ button to confirm the selection.



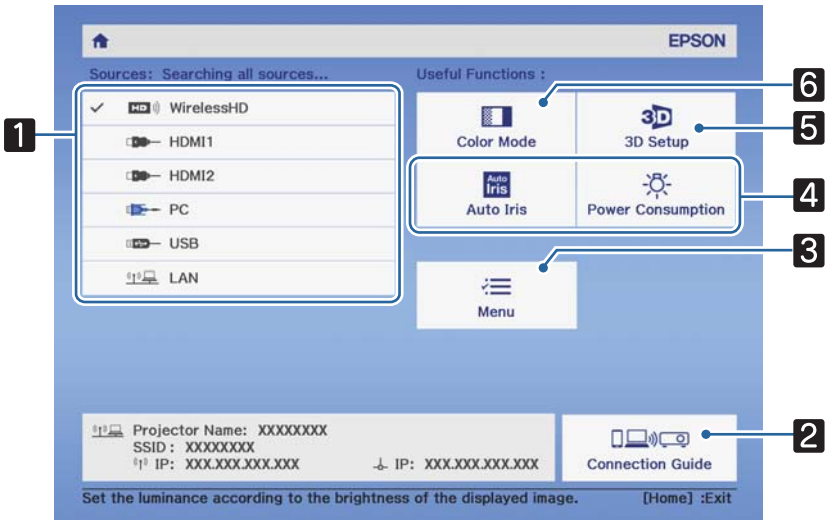
Using the Home Screen

The Home screen feature allows you to easily select an image source and access useful functions.

Press the [Home] button on the remote control to display the Home screen.

Under the following conditions, the Home screen is displayed automatically when the projector is turned on.

- **Home Screen Auto Disp.** is set to **On**. ☛ **Extended** - **Home Screen** - **Home Screen Auto Disp.** p.78
- There are no signals from any sources.



1	Selects the source you want to project.
2	Displays the Connection Guide.
3	Displays the Configuration menu. ☛ p.71
4	Performs menu options assigned to **Home Screen** in the **Extended** menu. ☛**Extended** - **Home Screen** p.78
5	Sets the 3D function. ☛**Signal** - **3D Setup** p.74
6	Selects the **Color Mode**. ☛ p.32

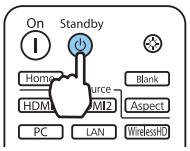
The Home screen disappears after 10 minutes of inactivity.

Turning Off

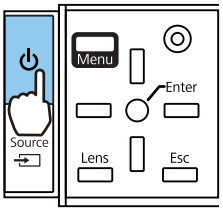
1 Turn off the connected equipment.

2 Press the ⏻ button on the remote control or the ⏻ button on the control panel.

Remote control

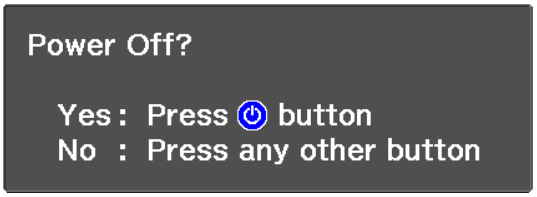


Control panel



A confirmation message is displayed.

3 Press the ⏻ button again.



Projection ends, and the lens shutter closes automatically.

The operation indicator flashes and the projector begins to cool down.

4 Wait until cool-down is complete.

When cool-down is complete, the operation indicator stops flashing.

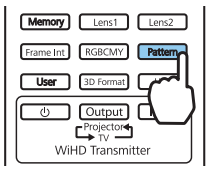
5 Disconnect the power cord.

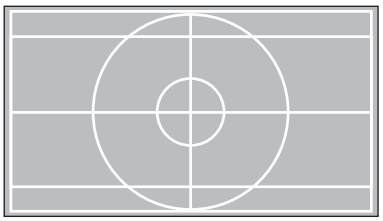
Adjusting the Projected Image

Displaying the Test Pattern

When adjusting the zoom/focus or the projection position just after setting up the projector, you can display a test pattern instead of connecting video equipment.

Press the [Pattern] button on the remote control to display the test pattern. The standard for horizontal lines at the top and bottom uses 2.40:1 CinemaScope.





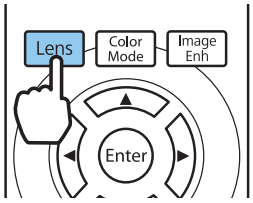
When you select Color Isolation while projecting images, the color selected from R (red), G (green), or B (blue) is projected (EH-TW9400W/EH-TW9400 only).

Press the [Pattern] button again to end the test pattern display.

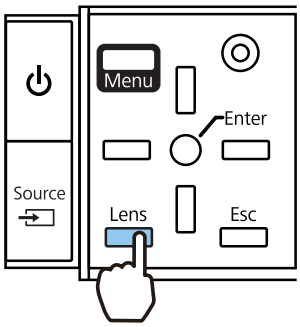
Lens Adjustment Function (Focus, Zoom, Lens Shift)

To adjust the focus, zoom, or lens shift, press the [Lens] button on the remote control or the Lens button on the control panel, and then select the item you want to adjust.

Remote control



Control panel



The adjustment items switch as shown in the following table.

1	Focus adjustment	**Adjust Focus** is displayed on the screen. Adjusts the focus of the projected image. ☛ p.29
2	Zoom adjustment	**Adjust Zoom** is displayed on the screen. Adjusts the size of the projected image. ☛ p.29
3	Lens shift adjustment	**Adjust Lens Shift** is displayed on the screen. Adjusts the position of the projected image. ☛ p.30

To finish making adjustments, press the [Lens] button in Lens shift adjustment.

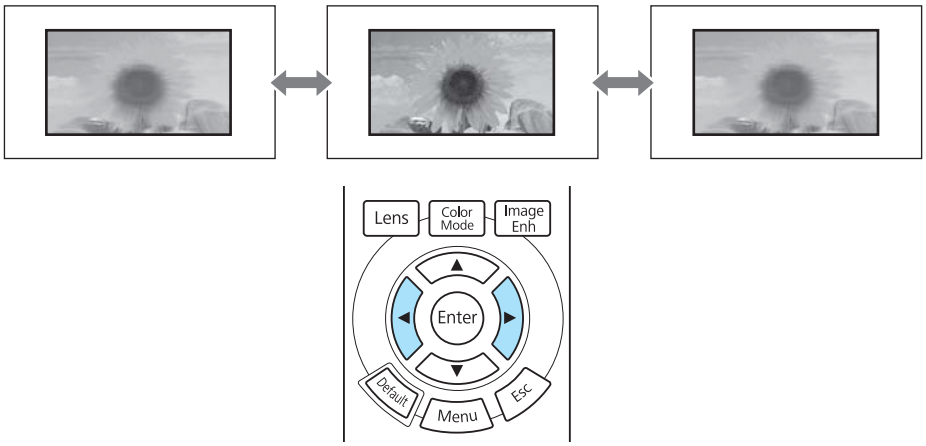
You can register the results of lens adjustment to the memory (Save Lens Position). You can load the lens position that you registered from the remote control or the Configuration menu.

Adjusting the focus

1. Press the Lens button on the remote control.

   Adjust Focus is displayed on the screen.

2. Press the ◀ ▶ buttons to adjust the focus.



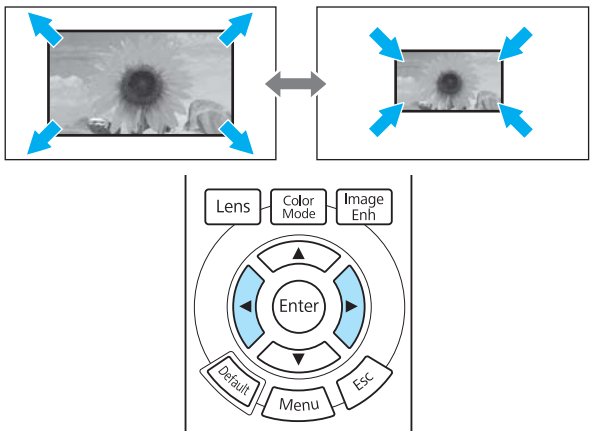
3. Press the Lens button three times to finish making adjustments.

Adjusting the projection size (Zoom Adjustment)

1. Press the Lens button on the remote control twice.

   Adjust Zoom is displayed on the screen.

2. Press the ◀ ▶ buttons to adjust the size of the projected screen.



3. Press the Lens button twice to finish the adjustment.

Adjusting the position of the projected image (Lens Shift Adjustment)

If the projector cannot be installed directly in front of the screen, you can adjust the position of the image by using lens shift.

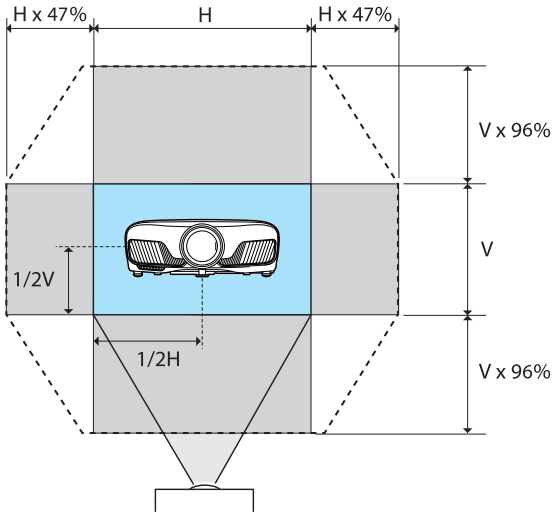
1 Press the [Lens] button on the remote control three times.

Adjust Lens Shift is displayed on the screen.

2 Use the ▲ ▼ ◀ ▶ buttons to adjust the position of the image.

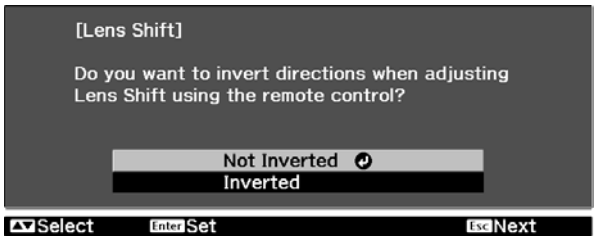
You can move the image within the range indicated by the dotted line in the following figure.

> To move the lens position back to the center, hold the [Lens] button for at least three seconds.



3 Press the [Lens] button to finish the adjustment.

> When the following message is displayed when you change to **Adjust Lens Shift**, the image moves in the opposite direction to the direction pressed with the ▲ ▼ ◀ ▶ buttons. When **Front/Ceiling** or **Rear/Ceiling** is set for **Projection**, select **Inverted**. ☛ **Extended** - **Projection** p.78



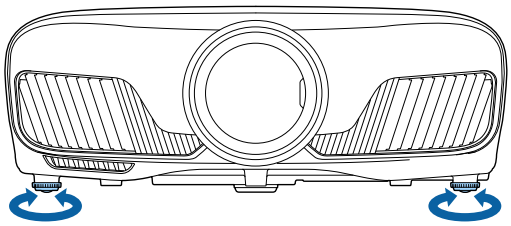
⚠ Caution

- When transporting the projector, set the lens position to the center. If you transport the projector when the lens is not in the central position, the lens shift mechanism could be damaged.
- Do not put your finger in the moving parts of the projector's lens. Otherwise an injury could occur.

- When you cannot install the projector directly in front of the screen, it is recommended that you use lens shift to adjust the projection position.
- If finely adjusting the lens shift does not work, press briefly on the arrow buttons to perform minute adjustments while viewing the image.

Adjusting the Projector's Tilt

If the projected image is horizontally tilted (the left and right sides of the projected image are at different heights) when the projector is setup on a table, adjust the front foot so that both sides are level with each other.



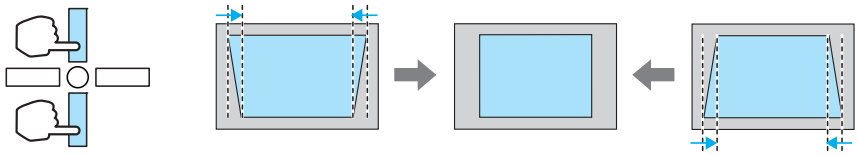
Correcting Keystone Distortion

You can use the ✣ buttons on the control panel to correct keystone distortion.

Open the control panel cover at the side to operate the control panel. ☛ p.7

Press the ▯ or ▯ buttons to display the adjustment gauges.
When the gauges are displayed, press the ▯ and ▯ buttons to perform vertical correction.

When the top or bottom is too wide

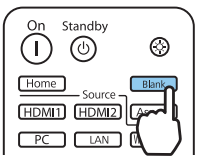


- When you correct keystone distortion, the projected image may be reduced. Increase the projection distance to fit the projected image to the screen size.
- You can make keystone settings from the Configuration menu. ☛ **Settings** - **Keystone** p.75
- You can make effective corrections within a projection angle of 30° top to bottom.

Hiding the Image Temporarily

You can use this to temporarily hide the image on the screen.

Press the Blank button to show or hide the image.



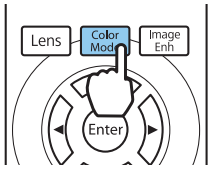
For movies, because the movie continues to play even when it is hidden, you cannot return to the point at which you hid the image using the Blank button.

Adjusting the Image

Selecting the Projection Quality (Color Mode)

You can obtain the optimum image quality to suit your surroundings when projecting. The brightness of the image varies depending on the mode selected.

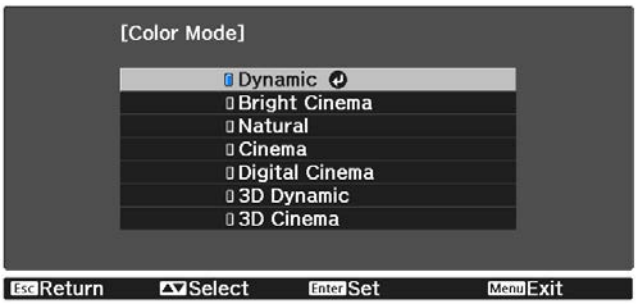
1 Press the Color Mode button.



- You can make settings from the Configuration menu. ☛ **Image** - **Color Mode** p.72
- Home If you press the button, you can also make settings from the Home screen. ☛ p.26

2 Select **Color Mode**.

Use the ▲ ▼ buttons to select a mode, and then press the Enter button to confirm the selection.



Choices when projecting 2D images

Mode	Application
Dynamic	This is the brightest mode. Best for prioritizing brightness.
Bright Cinema	Best for projecting vivid images.
Natural	Best for faithfully reproducing the color of the source image. We recommend selecting this mode when performing color adjustment for the image. ☛ p.38
Cinema	Best for enjoying content such as movies.
Digital Cinema	Projects images in the Digital Cinema color space. Best for prioritizing colors.

Choices when projecting 3D images

Mode	Application
3D Dynamic	A dedicated 3D mode best for prioritizing brightness.
3D Cinema	A dedicated 3D mode best for enjoying content such as movies.

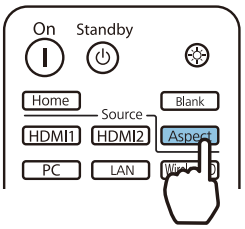
Switching the Screen Between Full and Zoom (Aspect)

You can change the input signal's type, aspect ratio, and resolution to match the **Aspect** of the projected image.

The available settings vary depending on the image signal currently being projected.

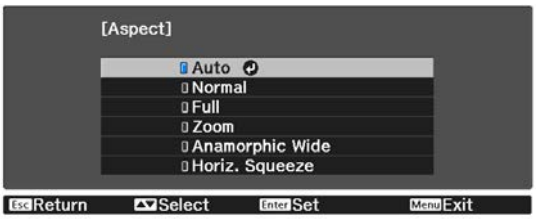
Note that using the aspect ratio function of the projector to reduce, enlarge, or split the projected image for commercial purposes or for public viewing may infringe upon the rights of the copyright holder of that image based on copyright law.

1 Press the Aspect button.



You can make settings from the Configuration menu. ☛ **Signal** - **Aspect** p.74

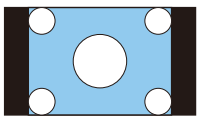
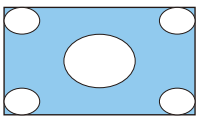
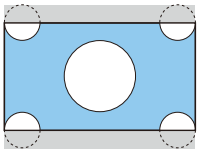
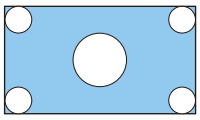
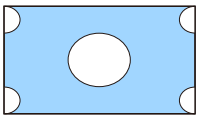
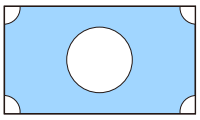
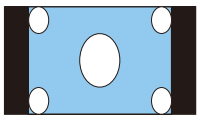
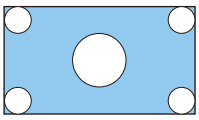
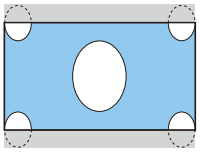
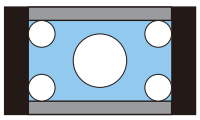
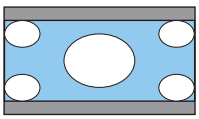
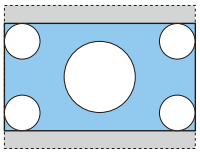
2 Use the ▲▼ buttons to select the setting name, and then press the Enter button to confirm the selection.



You may not be able to change the **Aspect** depending on the input signal.

By normally selecting **Auto**, the optimum aspect is used to display the input signal. Change the setting if you want to use a different aspect.

The table below shows the image projected on a 16:9 screen.

Input Image	Setting Name		
	Normal	Full	Zoom
4:3 Images			
16:9 Images*1			
Images Recorded Using Squeeze			
Letterbox Images*2			

Input Image	Setting Name		
	Normal	Full	Zoom
Notes	Matches the vertical size of the projection panel. The aspect ratio differs depending on the input image.	Uses the entire projection panel. The aspect ratio differs depending on the input resolution.	Retains the aspect ratio of the input signal, and matches the horizontal size of the projection panel. The top and bottom of the image may be truncated.

*1 The full and zoom used for 16:9 signal input cannot be used for 4K and 3D signals, as well as for the PC image signal.

*2 The letterbox image used in this explanation is a 4:3 aspect ratio image displayed in 16:9 with black margins at the top and bottom for subtitle placement. The margins at the top and bottom of the screen image are used for subtitles.

For EH-TW9400W/EH-TW9400, you can also set **Anamorphic Wide** and **Horiz. Squeeze**.

Set **Anamorphic Wide** and attach a commercially available anamorphic lens to enjoy DVDs, Blu-rays, and so on of images recorded at Cinema Scope size.

Horiz. Squeeze stretches the horizontal aspect of the input signal. This allows you to project across the full width of the screen when using a commercially available anamorphic lens.

- If **Anamorphic Wide** is selected when **Overscan** is set, the image may be truncated. Set **Overscan** to **Off**.☛ **Signal**-**Overscan** p.74
- When projecting 3D images in **Anamorphic Wide**, only 1080p/24 Hz/frame packing signals are supported.
- When a 4K image signal is being input, you can only select **Normal**, **Anamorphic Wide**, and **Horiz. Squeeze**.

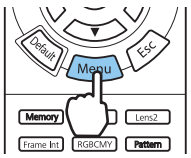
Adjusting the Sharpness

You can make the image clearer.

The following shows the setting items and procedures.

Standard	Enhances the outlines for the projected image overall. When you adjust **Standard**, the adjustment values for **Thin Line Enhancement** and **Thick Line Enhancement** are also adjusted.
Thin Line Enhancement	Details such as hair and patterns on clothing are enhanced.
Thick Line Enhancement	Rough parts such as outlines for entire subjects or the background are enhanced, making the overall image clearer.

1 Press the Menu button.



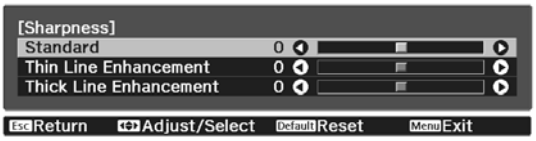
The Configuration menu is displayed.

2 Select **Image** - **Sharpness**.

The **Sharpness** adjustment screen is displayed.

3 Use the ▲ ▼ buttons to select the item, and then use the ◀ ▶ buttons to make the adjustments.

The image is enhanced when moved to the right (positive) and softer when moved to the left (negative).



Press the Default button to return the adjustments to their default values.

4 Press the Menu button to exit the menu.

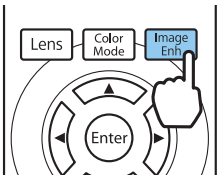
Adjusting Image Resolution (Image Enhancement)

You can adjust the resolution of the image using the Image Enhancement function.

The following content can be adjusted.

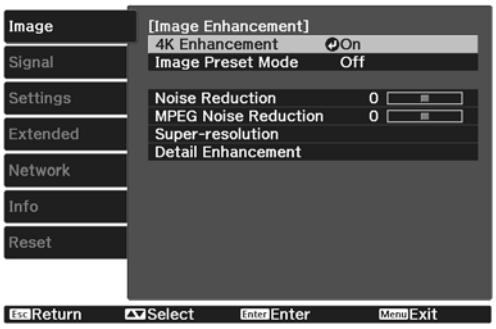
4K Enhancement	4K Enhancement is a function that projects an image at a doubled resolution by diagonally shifting 1 pixel in increments of 0.5 pixels. A high-resolution image signal is projected in fine detail.
Image Preset Mode	Select the settings prepared in advance as the settings for **Noise Reduction**, **MPEG Noise Reduction**, **Super-resolution**, and **Detail Enhancement**.
Noise Reduction	(This can be specified only when **Image Processing** is set to **Fine**.) Smoothes out rough images.
MPEG Noise Reduction	(This can be specified only when **Image Processing** is set to **Fine**.) You can reduce dot and block noise that occurs in outlines when projecting MPEG movies.
Super-resolution	Fine Line Adjust: Enhances the contrast and the outlines of complicated images. Soft Focus Detail: Enhances the contrast and the outlines for smooth backgrounds.
Detail Enhancement	Enhances the contrast in an image to create a more emphatic texture and material feel. **Strength**: The larger the value, the stronger the contrast. **Range**: The larger the value, the wider the range of detail enhancement becomes.

1 Press the Image Enh button.



You can make settings from the Configuration menu. ☛ **Image** - **Image Enhancement** p.72

2 Use the ▲ ▼ buttons to select the item you want to adjust, and then press the Enter button to confirm the selection.



3 Use the ◀ ▶ buttons to make adjustments.

Press the Esc button to adjust another item.

Press the Default button to return the adjustments to their default values.



4 Press the Image Enh button to exit the menu.

Setting Auto Iris

By automatically setting the luminance according to the displayed image, you can enjoy deep and rich images.

You can select the luminance adjustment tracking for changes in brightness in the displayed image from **Normal** to **High Speed**.

Press the Menu button to display menus in the following order.
Image - **Auto Iris**

Use the ▲ ▼ buttons to select the item, and then press the Enter button to confirm the selection.



Depending on the image, you may hear the Auto Iris operating, but this is not a malfunction.

Setting Frame Interpolation

You can play fast moving images smoothly by automatically producing intermediate frames between the original frames.

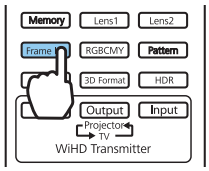
Frame Interpolation is available under the following conditions.

- When **Image Processing** is set to **Fine**. ☛ **Signal** - **Advanced** - **Image Processing** p.74
- When the source is HDMI1, HDMI2, or WirelessHD (EH-TW9400W/EH-TW8400W only).

- When inputting 2D signals* or 3D signals (1080p 24 Hz). ☛ p.112

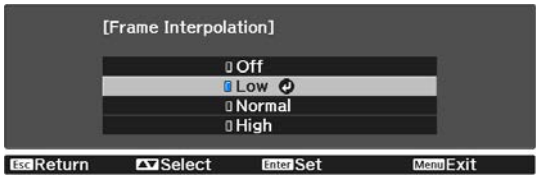
  * This is unavailable when a 4K signal is being input. This is enabled only when **4K Enhancement** is set to **On** and 1080p 24 Hz signals are being input.☛ **Image** - **Image Enhancement** - **4K Enhancement** p.72

1 Press the Frame Int button.



You can make settings from the Configuration menu. ☛ **Image** - **Frame Interpolation** p.72

2 Use the ▲▼ buttons to select the item, and then press the Enter button to confirm the selection.

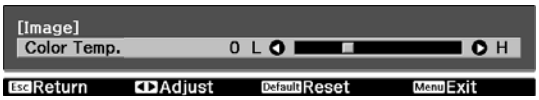


Adjusting the Color

Adjusting the Color Temp.

You can adjust the overall tint of the image. Make adjustments if the image is a little too blue or too red and so on.

Press the Menu button to display menus in the following order.
Image - **Color Temp.** - **Color Temp.**



Use the ◀ ▶ buttons to make adjustments.
Blue tints grow stronger as the value is increased, and red tints grow stronger as the value is reduced.

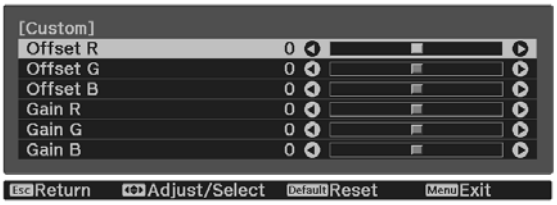
Press the Default button to return the adjustments to their default values.

Adjusting the RGB (Offset and Gain)

You can adjust the brightness of dark areas (Offset) and bright areas (Gain) for R (red), G (green), and B (blue).

Press the Menu button to display menus in the following order.
Image - **Color Temp.** - **Custom**

Use the ▲ ▼ buttons to select the item, and then use the ◀ ▶ buttons to make the adjustments. The image becomes brighter when moved to the right (positive) and darker when moved to the left (negative).



Offset	When the image is made brighter, shading for the darker sections is more vividly expressed. When the image is made darker, the image appears more full-bodied but shading for the darker sections is harder to distinguish.
Gain	When the image is made brighter, the bright sections become whiter and shading is lost. When the image is made darker, shading for the bright sections is more vividly expressed.

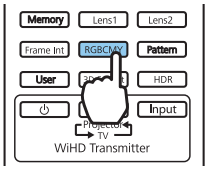
Press the Default button to return the adjustments to their default values.

Adjusting Hue, Saturation, and Brightness

You can adjust the hue, saturation, and brightness for each of the R (red), G (green), B (blue), C (cyan), M (magenta), and Y (yellow) colors.

Hue	Adjusts the overall color of the image to be blue, green, or red.
Saturation	Adjusts the overall vividness of the image.
Brightness	Adjusts the overall color brightness of the image.

1 Press the RGBCMY button.



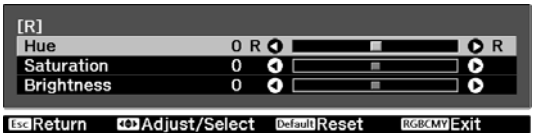
You can make settings from the Configuration menu. ☛ **Image** - **Advanced** - **RGBCMY** p.72

2 Use the ▲ ▼ buttons to select the color you want to adjust, and then press the Enter button to confirm the selection.



3 Use the ▲ ▼ buttons to select **Hue**, **Saturation**, or **Brightness**.

4 Use the ◀ ▶ buttons to make adjustments.



Press the Esc button to adjust another color.

Press the Default button to return the adjustments to their default values.

5 Press the RGBCMY button to exit the menu.

Adjusting the Gamma

You can adjust slight coloration differences that may occur due to the device being used when the image is displayed.

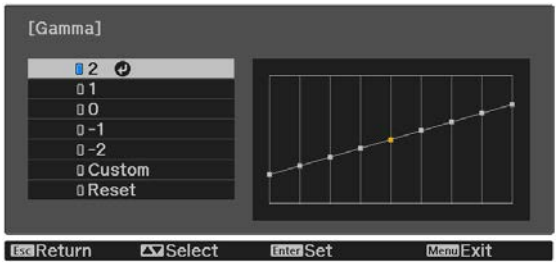
You can set it by using one of the following three methods.

- Select and adjust the correction value
- Adjust using the gamma adjustment graph

Select and adjust the correction value

1 Press the Menu button to display menus in the following order.
Image - **Advanced** - **Gamma**

2 Use the ◄ ▼ buttons to select the correction value, and then press the Enter button to confirm the selection.



The larger the value, the lighter the dark portions of the image become, but bright areas may appear discolored. The upper part of the gamma adjustment graph becomes rounded.
The smaller the value, the darker the bright portions of the image become. The lower part of the gamma adjustment graph becomes rounded.

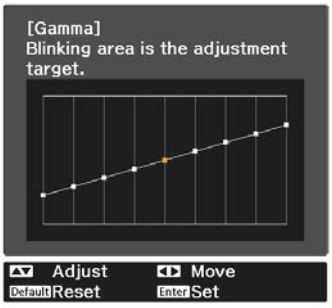
- The horizontal axis of the gamma adjustment graph shows the input signal level, and the vertical axis shows the output signal level.
- Select **Reset** to return the adjustments to their default values.

Adjust using the gamma adjustment graph

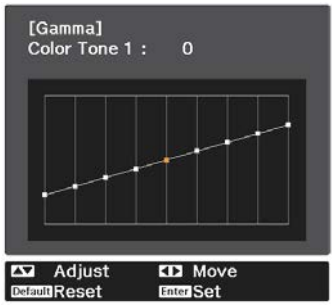
Select a tone point on the graph and make adjustments.

1 Press the Menu button to display menus in the following order.
Image-**Advanced**-**Gamma**-**Custom**

2 Use the ◀ ▶ buttons to select the tone you want to adjust from the graph.



3 Use the ▲ ▼ buttons to adjust the brightness, and then press the Enter button to confirm the selection.



Viewing the Image at the Saved Image Quality (Memory Function)

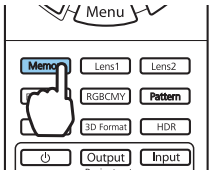
Saving a Memory

By using the memory function, you can register the following adjustment values, and then load them when necessary.

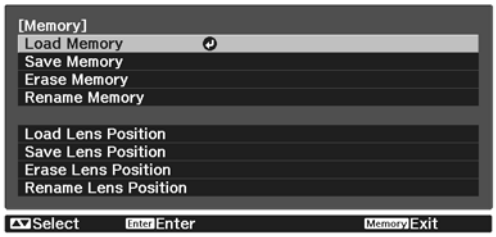
- **Image** setting from the Configuration menu
- Adjustment values for Lens Adjustment Function (Focus, Zoom, Lens Shift, Blanking) p.28

1 Make the settings or adjustments you want to register.

2 Press the Memory button.



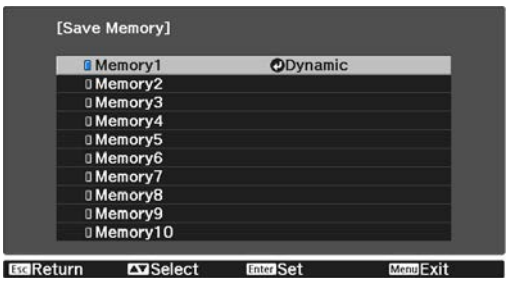
3 Use the ▲▼ buttons to select **Save Memory** or **Save Lens Position**, and then press the Enter button to confirm the selection.



Save Memory: Registers the **Image** settings

Save Lens Position: Registers the adjustment value for the lens adjustment function

4 Use the ▲▼ buttons to select the memory name to be saved, and then press the Enter button to confirm the selection.



The current projector settings are saved to the memory.

If the mark on the left of the memory name is turned aqua, it means the memory has already been registered. When you select a registered memory, a message is displayed asking you to confirm that you want to overwrite the memory. If you select **Yes**, the previous content is erased and the current settings are saved.

Loading, Deleting, and Renaming a Memory

You can load, delete, and rename registered memories.

Press the Memory button, and then select the target function on the screen displayed.

- Press the Lens1 Lens2 buttons on the remote control to load the lens position from the Save Lens Position registered in **Memory1** or **Memory2**.
- The position of the lens when loading the memory and the position of the lens when the memory is registered may not be exactly the same.

Function	Explanation
Load Memory	Loads the saved memory. When you select a memory and press the Enter button, the settings applied to the current image are replaced with the settings from the memory.
Erase Memory	Erases the registered memory. When you select a memory name and press the Enter button, a message is displayed. Select **Yes**, and then press the Enter button to erase the selected memory.
Rename Memory	Changes the memory name. Select the memory name you want to change, and then press the Enter button. Enter the memory name using the soft keyboard. ☛ p.83 When you have finished, move the cursor over **Finish**, and then press the Enter button.
Load Lens Position	Loads the registered lens position memory. When you select the lens position name and press the Enter button, the adjustment value for the selected lens position memory is applied.
Erase Lens Position	Erases the registered lens position memory. When you select a lens position name and press the Enter button, a message is displayed. Select **Yes**, and then press the Enter button to erase the selected lens position memory.
Rename Lens Position	Changes the lens position memory name. Select the lens position memory name you want to change, and then press the Enter button. Enter the lens position memory name using the soft keyboard. ☛ p.83 When you have finished, move the cursor over **Finish**, and then press the Enter button.

Enjoying 3D Images

Preparing to View 3D Images

To view 3D images, be sure to prepare a pair of commercially available 3D Glasses with an active shutter system that supports radio waves (RF/Bluetooth) communication system in advance.

Check the following before viewing 3D images.

- When the source is HDMI1, HDMI2, or WirelessHD (EH-TW9400W/EH-TW8400W only).
- Set **3D Display** to **Auto** or **3D**.
  When this is set to **2D**, change to **Auto** or **3D**. ☛ **Signal** - **3D Setup** - **3D Display** p.74
- Pair 3D Glasses.

This projector supports the following 3D formats.

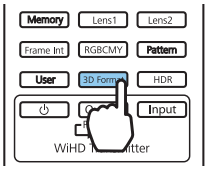
- Frame Packing
- Side by Side
- Top and Bottom

If the 3D image cannot be viewed

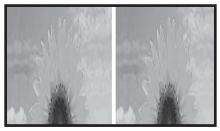
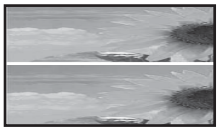
The projector automatically projects a 3D image when detecting a 3D format.

Some 3D TV broadcasts may not contain 3D format signals. If this happens, follow the steps below to set the 3D format.

1. Press the Menu button to display menus in the order **Signal** - **3D Setup**.
2. Set **3D Display** to **3D**.
3. Press the 3D Format button to set the 3D format on the AV device.



- If you are using a device or cable that does not support 3D images, 3D projection cannot be performed.
- For details on 3D format settings on the AV device, see the documentation supplied with the AV device.
- When the 3D format has not been correctly set up, an image will not be correctly projected as shown below.

- If a 3D image is not projected correctly even when a 3D format is set, the synchronization timing for the 3D Glasses may be inversed. Inverse the synchronization timing using **Inverse 3D Glasses**.☛ **Signal** - **3D Setup** - **Inverse 3D Glasses** p.74
- How a 3D image is perceived varies depending on the individual.
- When you start projecting a 3D image, a warning about viewing 3D images is displayed. You can turn off this warning by setting **3D Viewing Notice** to **Off**. ☛ **Signal** - **3D Setup** - **3D Viewing Notice** p.74
- During 3D projection, the following Configuration menu functions cannot be changed.
  Aspect (set to Normal), Noise Reduction (set to Off), Overscan (set to Off), 4K Enhancement, Super-resolution, Image Processing
- How the 3D image is viewed may change depending on the temperature of the surroundings and how long the lamp has been used. Refrain from using the projector if the image is not projected normally.

Using 3D Glasses

You can view 3D images by using a pair of commercially available 3D Glasses (with an active shutter system that supports radio waves (RF/Bluetooth) communication system).

To view 3D images, you first need to pair the 3D Glasses with the projector. See the User's Guide supplied with your 3D Glasses for more information.

Warnings Regarding Viewing 3D Images

Note the following important points when viewing 3D images.

⚠ Caution

Viewing Time

- When viewing 3D images, always take periodic breaks during extended viewing.
  Long periods of viewing 3D images may cause eye fatigue.
  The amount of time and frequency of such breaks varies from person to person. If your eyes still feel tired or uncomfortable even after taking a break from viewing, stop viewing immediately.

⚠ Caution

Watching 3D Images

- If your eyes feel fatigued or uncomfortable when viewing 3D images, stop viewing immediately.
  Continuing to view the 3D images could cause you to feel unwell.
- When viewing 3D images be sure to always wear 3D Glasses. Do not attempt to view 3D images without 3D Glasses.
  Doing so could cause you to feel unwell.
- Do not place any breakable or fragile objects around you when using 3D Glasses.
  3D images may cause you to move your body involuntarily, resulting in damage to nearby items or personal injury.
- Only wear 3D Glasses when viewing 3D images. Do not move around while wearing 3D Glasses.
  Your vision may appear darker than normal, causing you to fall or injure yourself.
- Try to stay as level with the viewing screen as possible when viewing 3D images.
  Viewing 3D images at an angle reduces the 3D effect and may cause you to feel unwell due to unintended color changes.
- If using 3D Glasses in a room with fluorescent or LED lighting, you may see flashing or flickering throughout the room. If this should occur, reduce the lighting until the flickering goes away or turn off the lights completely when viewing 3D images. In some very rare cases, this flickering could trigger seizures or fainting for some individuals. If you begin to feel uncomfortable or unwell at any time when viewing 3D images, stop immediately.
- Stay at least three times the height of the screen away from the screen when viewing 3D images.
  The recommended viewing distance for an 80-inch screen is at least 3 meters, and at least 3.6 meters for a 100-inch screen.
  Sitting or standing any closer than the recommended viewing distance may result in eye fatigue.

⚠ Caution

Health Risks

- You should not use 3D Glasses if you are sensitive to light, have a heart condition, or are unwell. Doing so could aggravate your pre-existing conditions.

⚠ Caution

Recommended Age of Use

- The minimum recommended age to view 3D images is six years old.
- Children under the age of six are still developing and viewing 3D images may cause complications. Consult your doctor if you have any concerns.
- Children viewing 3D images through 3D Glasses should always be accompanied by an adult. It is often difficult to tell when a child is feeling tired or uncomfortable, which could result in them feeling suddenly unwell. Always check with your child to ensure that they are not experiencing any eye fatigue during viewing.

Connecting with WirelessHD (EH-TW9400W/ EH-TW8400W Only)

Installing the WirelessHD Transmitter

You can use the supplied WirelessHD Transmitter to wirelessly receive image and sound data.

This is useful when the projector cannot be setup near your AV devices as you can connect the devices to the projector without using cables.

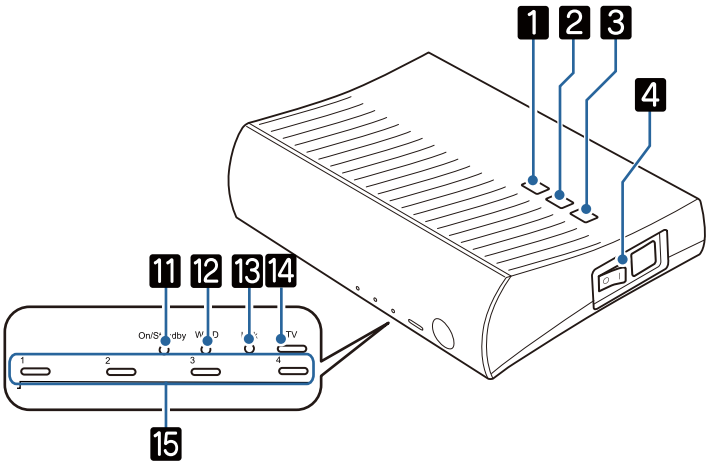


You can use the WirelessHD Transmitter in the following ways.

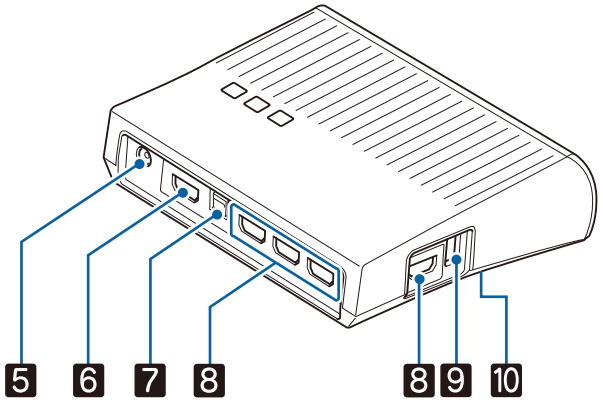
- You can connect up to four AV devices at the same time, and switch images using the remote control.
- As well as the projector, you can connect another monitor device, such as a television, to the HDMI Out port, and then switch the output using the remote control.
- This allows other monitor devices such as TVs connected to the HDMI Out port to project images from the connected AV device, even if the projector is off.
- You can connect smart devices and tablets that support MHL, and then project images from the connected MHL device. You can also operate MHL devices from the projector's remote control, as well as charge the MHL device.
- You can split the HDMI signal that is being input into the WirelessHD Transmitter into image and audio, and output to other devices.
- Even for AV devices that do not support HDCP 2.2, you can output audio by connecting to the HDMI Out port on the WirelessHD Transmitter.

WirelessHD Transmitter part names

Front



Rear



Name		Function
1	⏻ button	Turns the transmitter on or off. This performs the same function as the ⏻ button for the WirelessHD Transmitter control on the lower section of the remote control.
2	Input button	Changes to the image from each input port. This performs the same function as the Input button for the WirelessHD Transmitter control on the lower section of the remote control.
3	Output button	Switches the output image to the projector or the device connected to the HDMI Out port. This performs the same function as the Output button for the WirelessHD Transmitter control on the lower section of the remote control.
4	Main power switch	Turns the main power for the transmitter on or off.
5	AC adapter port	Connects the AC adapter.
6	HDMI Out port	Connects to a monitor device, such as a television. You can switch the output image using the Output button on the remote control or the Output button on the WirelessHD Transmitter.
7	Optical Audio-Out port	Connects to an audio device equipped with an optical digital audio input port.
8	HDMI Input port	Connects to the AV device you want to playback. You can switch the input image using the Input button. The HDMI4 port of the unit meets the MHL standards. You can play content from MHL compatible smart devices or tablets connected with an MHL cable.
9	3D Glasses charging port	Connects a USB cable to charge the 3D Glasses.
10	Setup button	This is the button on the back of the WirelessHD Transmitter. This is a paring button for changing devices. Do not use this button under normal circumstances since this transmitter is already configured before the shipment.
11	On/Standby indicator (blue)	This flashes while the WirelessHD Transmitter is starting up, and remains lit while operating.

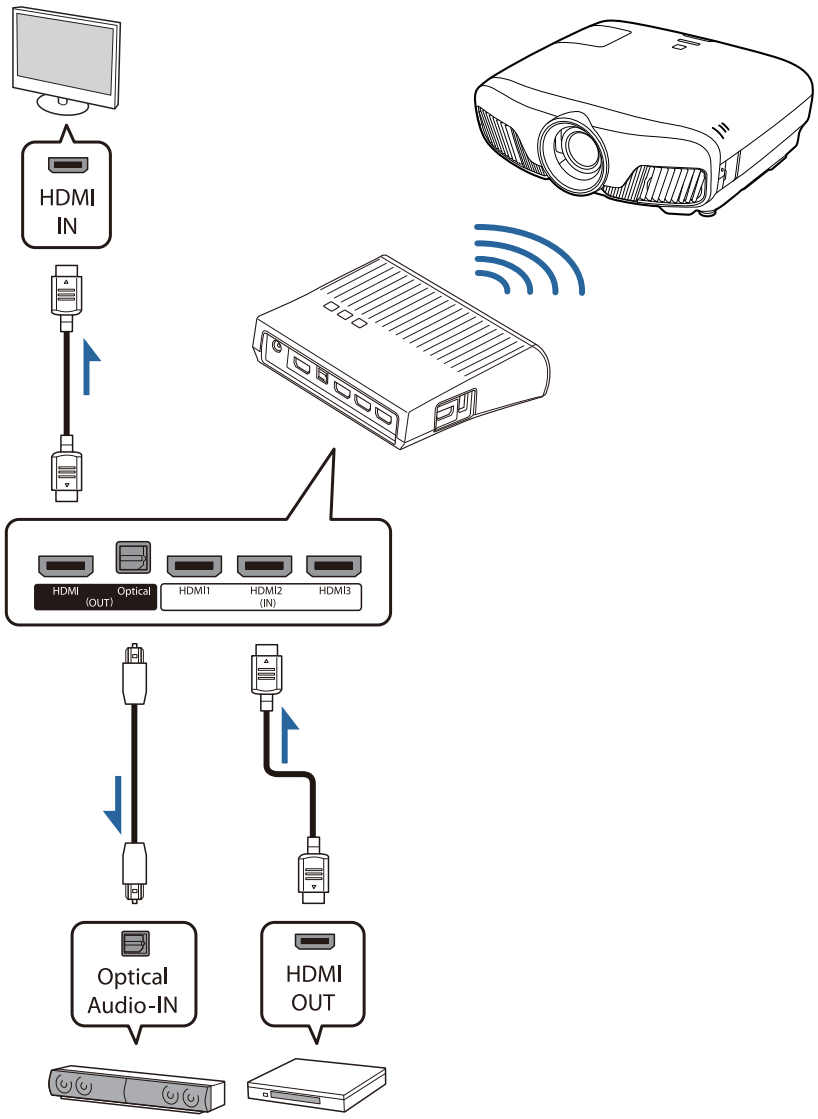
Name		Function
12	WiHD indicator (blue)	Indicates the communication status for the WirelessHD. • Lit when wirelessly transmitting images to the projector. • Off when outputting to the HDMI Out port.
13	Link indicator (blue)	Indicates the connection status with the projector. • Turns on when connected to the projector. • Flashes when searching for a projector. • Flashes slowly when standing by in power saving status.
14	TV indicator (blue)	Lit when a monitor device such as a TV is selected as the output.
15	HDMI1 to 4 indicators (blue)	The indicator for the source currently being projected is lit.

WirelessHD Transmitter connection example and signal flow

- The antennas are built-into the front of the projector and the WirelessHD Transmitter. Make sure the antennas face each other (face the front) when setting up the devices.
  Also, do not place any object over the front side of the projector and WirelessHD Transmitter.
- Place the WirelessHD Transmitter on a level surface facing towards the projector.
- You can view the signal strength from the **WirelessHD** settings menu. ☛ **Settings** - **WirelessHD** - **Video Reception** p.75
- When outputting audio from devices connected to the Optical Audio-Out port or the HDMI Out port, set the output audio in **Audio Out Device**. ☛ p.61
- You can output images from the projector or a monitor device such as TV. You can switch the output image using the Output button on the remote control or the Output button on the WirelessHD Transmitter.☛ p.59
- When inputting images from HDMI Input1 or HDMI Input2 port, if noise is generated by monitors such as televisions or if the audio is lost, try connecting to the HDMI Input3 or HDMI Input4 port.
- This projector cannot transmit signals in the 18 Gbps transmission band such as 4K60p/4:4:4 using a wireless network.

Connection example 1: Viewing without an AV amplifier (audio is output from the Optical Audio-Out port)

Audio is output from the sound bar connected to the Optical Audio-Out port. Use a commercially available optical digital cable to connect to the sound bar.



- When connecting a device, such as a sound bar, to the Optical Audio-Out port on the WirelessHD Transmitter, check that **Audio Out Device** is set to **WiHD Transmitter (Optical)**. ☛**Settings** - **HDMI Link** - **Audio Out Device** p.75
- The following conditions must be met when you want to output images from monitor devices including TVs that support 18 Gbps transmission band, such as 4k60p/4:4:4.

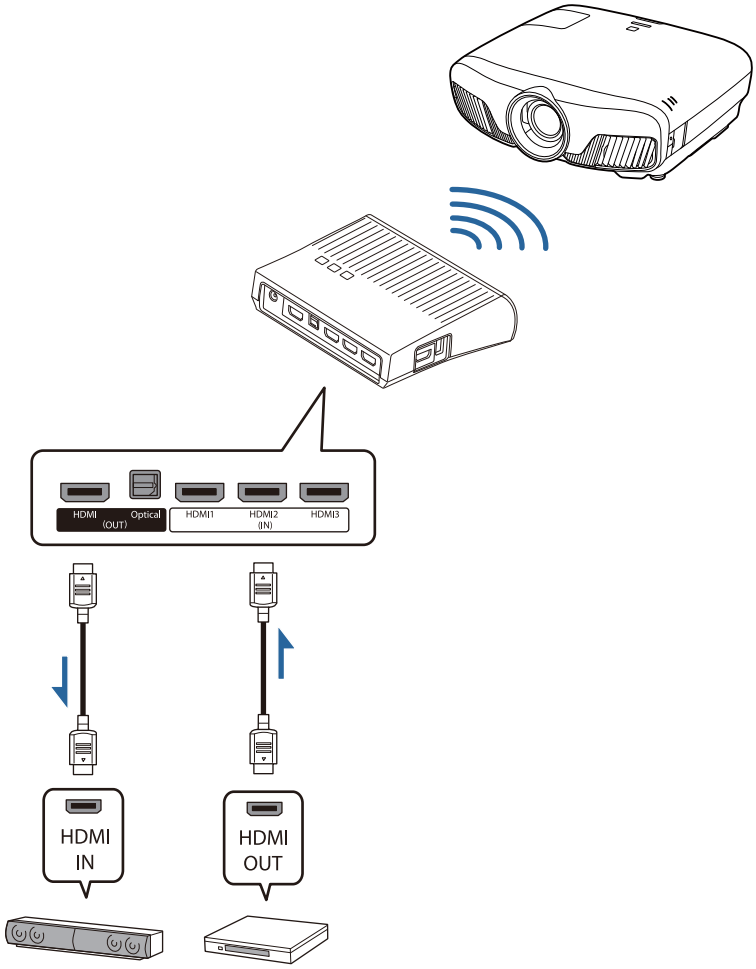
  - Connect the monitor device to the HDMI Out port with a Premium HDMI cable.

  - Connect the AV device to the HDMI Input1 or HDMI Input2 port.
- You cannot output some audio from the Optical Audio-Out port due to restrictions in audio standards*.
  - Lossless audio
  - Lossy high-bandwidth audio
  - Immersive audio

  * This is the specifications as of June 2018. This will be changed in the future.

Connection example 2: Viewing without an AV amplifier (audio is output from the HDMI Out port)

Audio is output from the sound bar and so on connected to the HDMI Out port. In this situation, you can even output audio from AV amplifiers or sound bars that do not support HDCP 2.2.

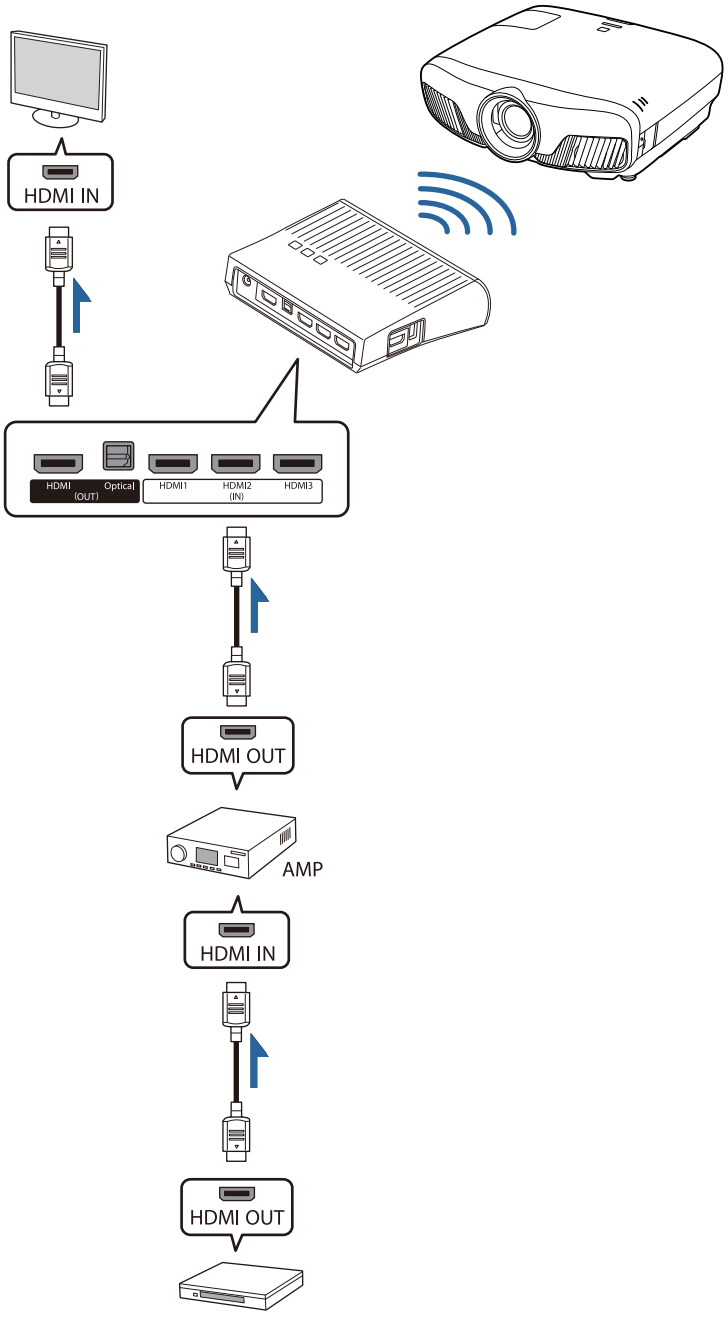


When connecting a device, such as a sound bar, to the HDMI Out port on the WirelessHD Transmitter, check that **Audio Out Device** is set to **WiHD Transmitter (HDMI)**. ☛ **Settings** - **HDMI Link** - **Audio Out Device** p.75

Connection example 3: Viewing with a connected AV amplifier

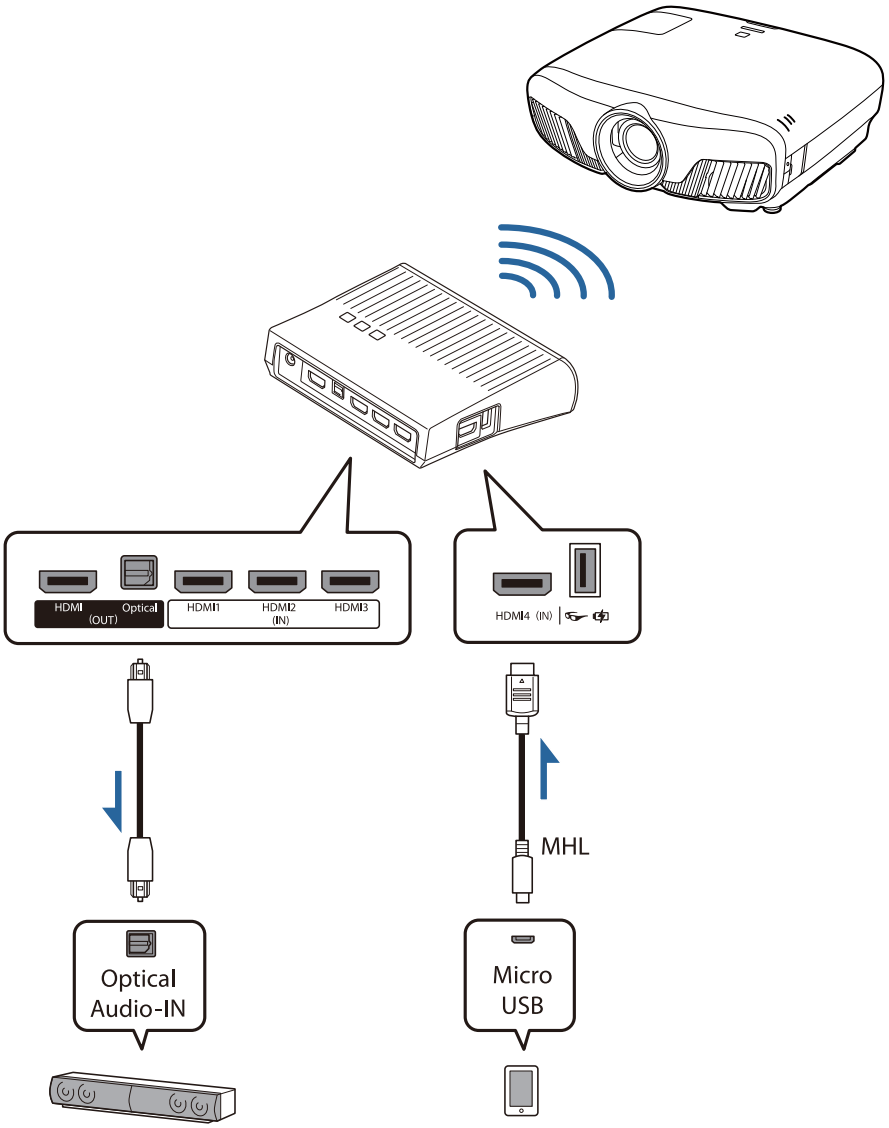
Connect using an AV amplifier.

Audio is output from the AV amplifier.



Connection example 4: Viewing with a connected smart device

Connect an MHL cable to the HDMI4 port.

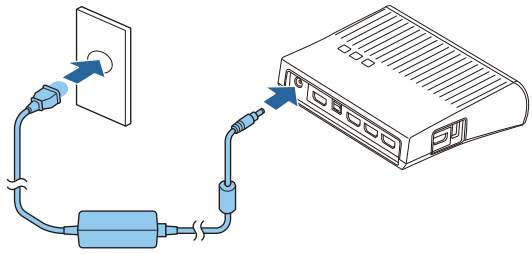


Setting the WirelessHD Transmitter

1 Set up the WirelessHD Transmitter connected to the projector so that they are facing each other. ☛ p.47

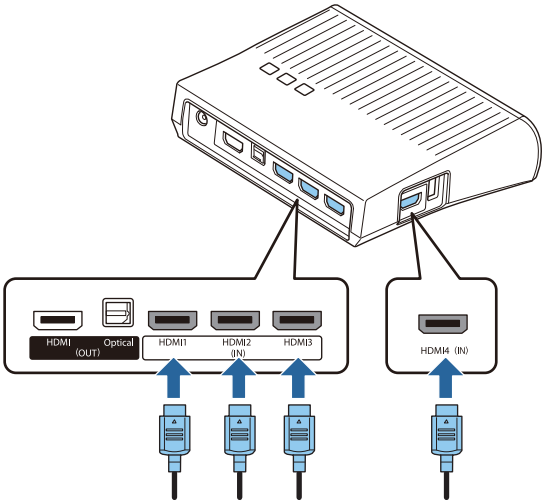
- The antennas are built-into the front of the projector and the WirelessHD Transmitter. Make sure the antennas face each other (face the front) when setting up the devices.
  Also, do not place any object over the front side of the projector and WirelessHD Transmitter.
- Place the WirelessHD Transmitter on a level surface facing towards the projector.

2 Connect the WirelessHD Transmitter to an electrical outlet using the supplied AC adapter.



3 Using an HDMI cable, connect the AV device you want to use to the Input port on the WirelessHD Transmitter.

You can connect up to four multi-media players.



- You can connect another monitor device, such as a television, to the HDMI Out port on the WirelessHD Transmitter. You can switch between output images using the remote control. ☛ p.59
- The HDMI4 port of the WirelessHD Transmitter supports the MHL input signal. You can play content from MHL compatible smart devices or tablets connected with an MHL cable.
- If the following message is displayed when you connect an MHL device, the device has been connected to a port other than the HDMI4 port, or the connected device is not compatible with MHL.
  "No Signal"
- You can use the HDMI link function even when using the WirelessHD Transmitter. ☛ p.61

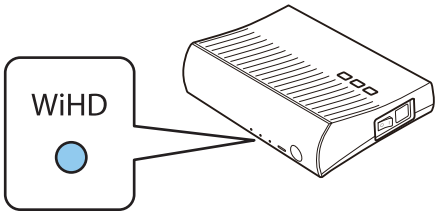
Projecting Images

1 Start playback on the AV device, and then turn on the projector and the WirelessHD Transmitter.

The On/Standby indicator on the WirelessHD Transmitter turns on.

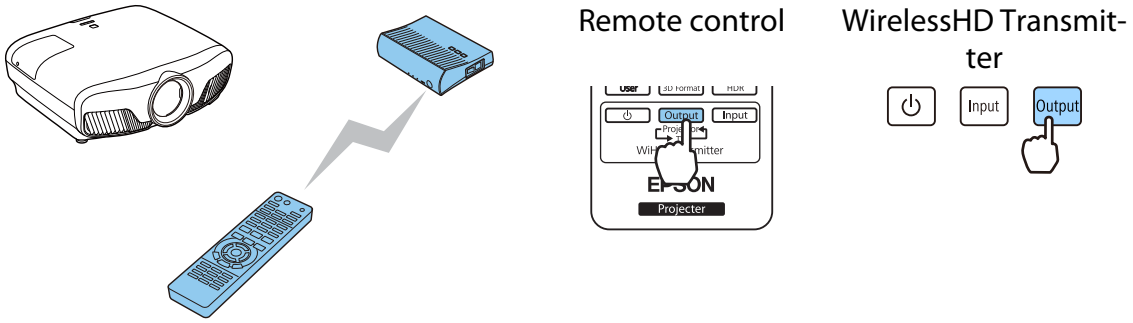
2 Check the status of the WiHD indicator on the WirelessHD Transmitter.

If the WiHD indicator is on, go to the next step.



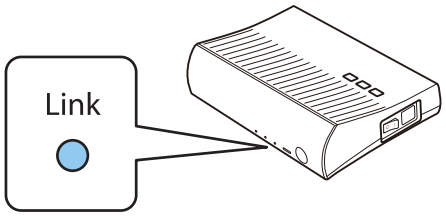
If the indicator is off, press the Output button on the remote control or the Output button on the WirelessHD Transmitter.

Make sure you point the remote control at the WirelessHD Transmitter when using the Output button on the remote control.



3 Check the status of the Link indicator on the WirelessHD Transmitter.

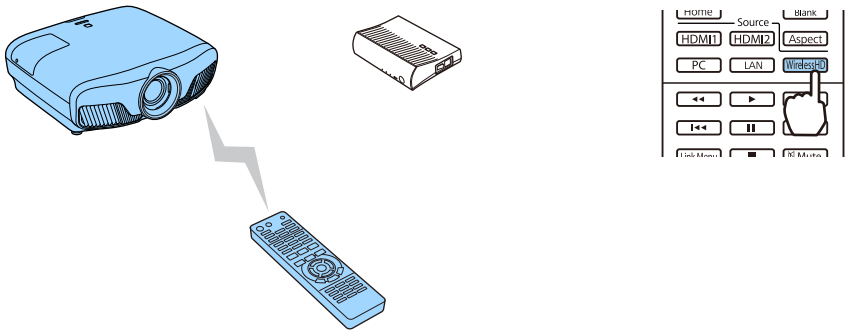
If the WirelessHD Transmitter is connected to the projector, the Link indicator turns on.



- If the indicator does not turn on, check that the projector has been prepared correctly and that it is turned on.
- You can view the signal strength while images are being projected from the **WirelessHD** settings menu. ☛ **Settings** - **WirelessHD** - **Video Reception** p.75

4 If projection does not start, press the WirelessHD button on the remote control to change the source.

Make sure you point the remote control at the projector when using the WirelessHD button on the remote control.



Projection starts.

5 When connecting two or more AV devices to the WirelessHD Transmitter, press the Input button to switch images. ☛ p.60

- When receiving WirelessHD images, make sure **WirelessHD** is set to **On** from the Configuration menu. ☛ **Settings** - **WirelessHD** - **WirelessHD** p.75
- Make sure you turn off the WirelessHD Transmitter if it is not going to be used for an extended period.

WirelessHD Settings Menu

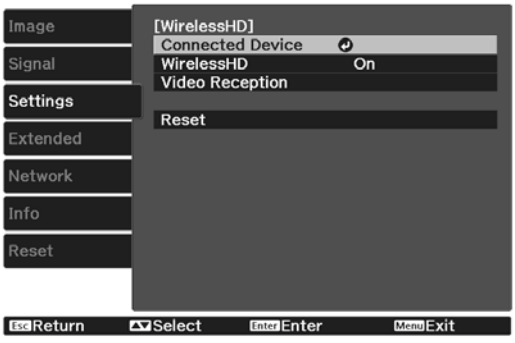
1 Press the Menu button.

The Configuration menu is displayed.

2 Select **Settings** - **WirelessHD**, and then press the Enter button to confirm the selection.

The **WirelessHD** settings screen is displayed.

3 Make settings for each of the displayed functions.



Available functions on the **WirelessHD** settings menu

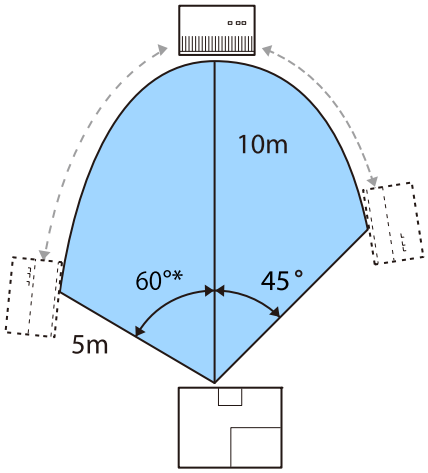
Function	Explanation
Connected Device	Displays the available WirelessHD device that can be connected. The device name and MAC address (device number) are displayed. The MAC address is displayed on the label on the base.
WirelessHD	Enables or disables the WirelessHD function.
Video Reception	Displays the reception for the image being projected.
Reset	Resets **WirelessHD** settings to their default settings.

Even when the WirelessHD Transmitter and the projector are connected, 0% is displayed as the **Video Reception** when no image signal is being input. Check the communication status by viewing the Link indicator.☛ p.48

WirelessHD Transmission Range

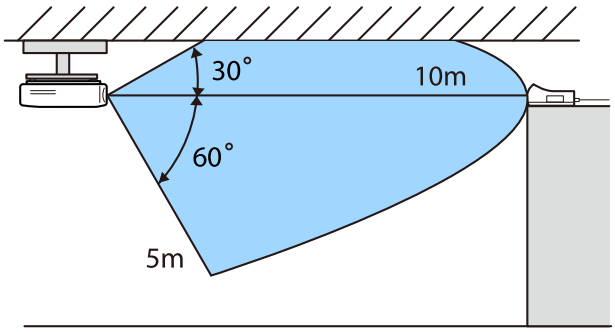
The following shows the communication range of the WirelessHD. Make sure you set up the WirelessHD Transmitter so that it faces the projector.

Horizontal

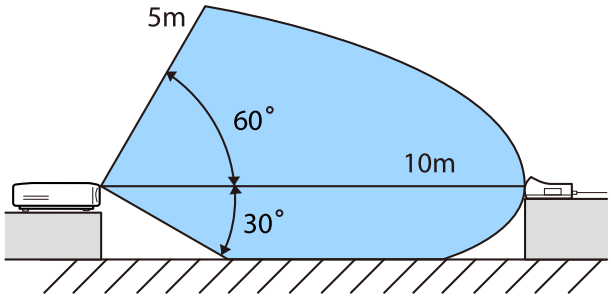


* Install the transmitter at 70° when you use it in Taiwan or Korea.

Vertical direction (suspended from a ceiling)

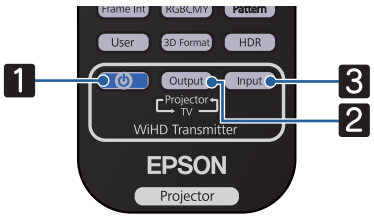


Vertical direction (placed on a table and so on)



- The wireless transmission range varies depending on the placement and material of the surrounding furniture and walls. The values given here are for your reference only.
- The projector cannot communicate through walls.
- The antennas are built-into the front of the projector and the WirelessHD Transmitter. Make sure the antennas face each other (face the front) when setting up the devices.
  Also, do not place any object over the front side of the projector and WirelessHD Transmitter.
- Do not install the transmitter on a metal shelf. The metal may make the signal unstable. Install on a shelf made from wood etc.
- When checking operations, place the projector and the WirelessHD Transmitter close to each other, and make sure there are no other projectors operating in the vicinity.
- Depending on the reception strength, the image's color information may be automatically discarded to avoid any interruptions and maintain a constant connection. To avoid any deterioration in image quality, adjust the position of the WirelessHD Transmitter so that the **Video Reception** is as strong as possible.
- Reception sensitivity varies depending on the resolution of the input image. Therefore, you may not be able to achieve the same reception sensitivity when inputting a 1080p image and when inputting a 4K image.

Operating the Remote Control



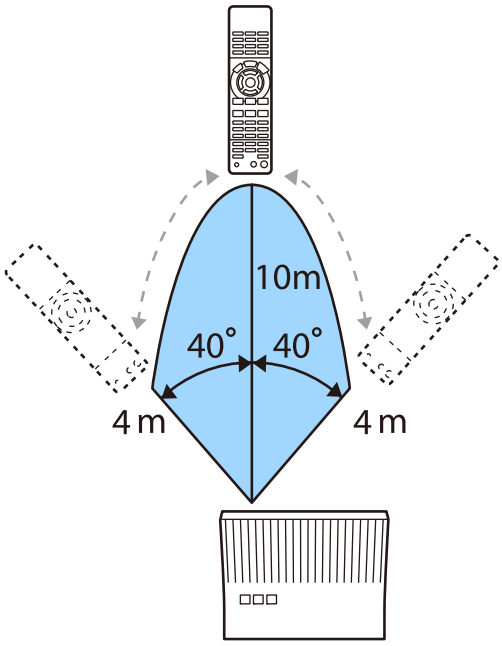
Name		Function
1	⏻	Turns the power for the WirelessHD Transmitter on or off.
2	Output	Switches the output image between a monitor device, such as a television, connected to the HDMI Out port on the WirelessHD Transmitter and the projector. ☛ p.59
3	Input	Switches the image source for the AV device connected to the WirelessHD Transmitter. ☛ p.60

Point the remote control towards the WirelessHD Transmitter.

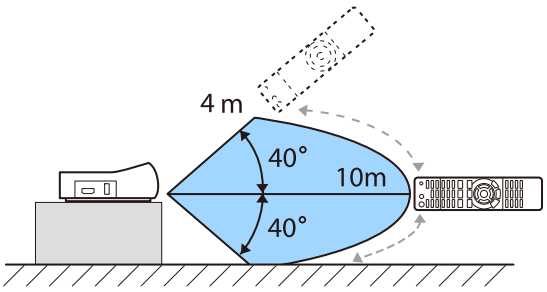
Remote Control Operating Range

The following shows the operating range between the remote control and the WirelessHD Transmitter.

Operating range (left to right)



Operating range (top to bottom)



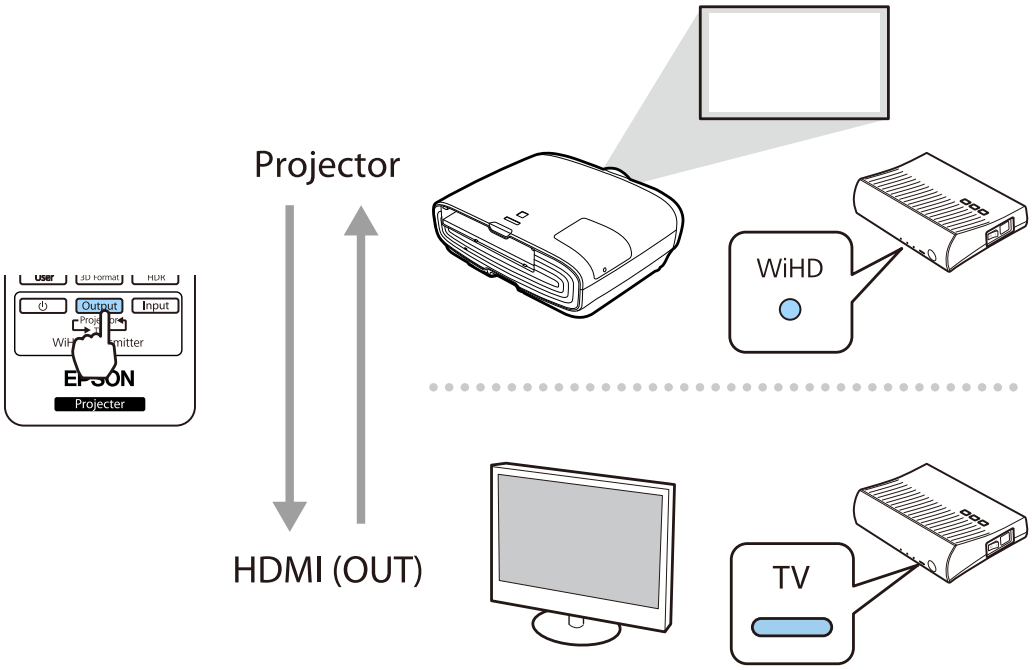
Switching the Input and Output

With the WirelessHD Transmitter, you can connect and switch between up to four multi-media players (input devices to be played back) and one monitor device (a monitor device displaying an image, such as a television).

Point the remote control at the WirelessHD Transmitter and press its Input button to switch between input devices and its Output button to switch between output devices.

Switching the target image

You can switch between a monitor device, such as a television, connected to the HDMI Out port on the WirelessHD Transmitter and the projector.

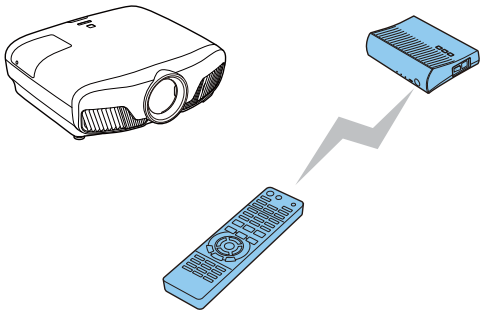


1. Turn on the projector or the monitor device, such as a television.

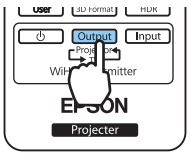
2. Turn on the WirelessHD Transmitter.

   The On/Standby indicator on the WirelessHD Transmitter turns on.

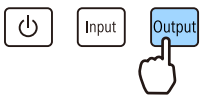
3. Point the remote control at the WirelessHD Transmitter, and then press the Output button on the remote control or the Output button on the WirelessHD Transmitter.



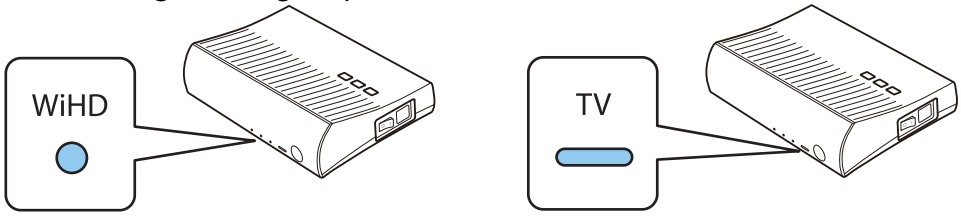
Remote control



WirelessHD Transmitter



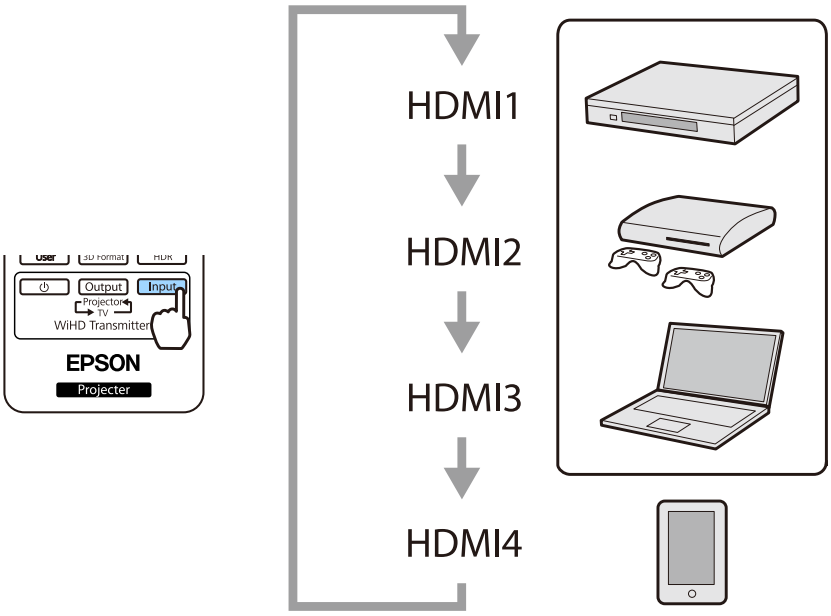
Depending on the output target, the indicators on the WirelessHD Transmitter indicate the following status. The output target projected last time is projected the next time the projector is turned on.
WiHD indicator On: The image is being output to the projector.
TV indicator On: The image is being output to the monitor device.



You can switch to the other monitor device even when the projector is off.

Switching the image source

Use the Input button on the remote control to switch the image source for the AV device connected to the WirelessHD Transmitter.



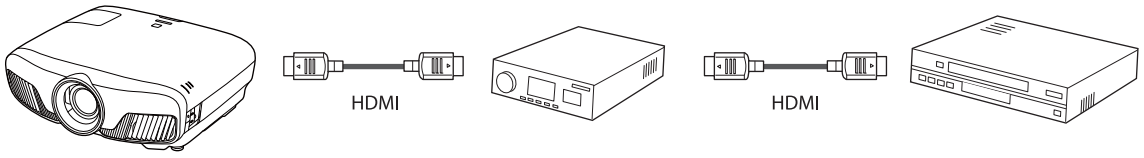
Using the HDMI Link Function

HDMI Link Function

When an AV device that meets the HDMI CEC standards is connected to the projector's HDMI port, you can perform linked operations such as linked power on and volume adjustment for the AV system from one remote control. Also, when projecting images in WirelessHD, you can use the HDMI link function (EH-TW9400W/EH-TW8400W only).

- As long as the AV device meets the HDMI CEC standards, you can use the HDMI link function even if the AV system in-between does not meet the HDMI CEC standards.
- Up to 3 multi-media players that meet the HDMI CEC standards can be connected at the same time.

Connection Example

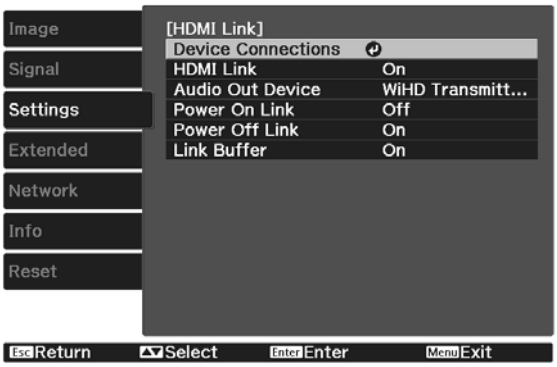


Projector　　Amplifier　　Multi-media players and so on

HDMI Link Settings

When **HDMI Link** is set to **On**, you can perform the following operations. ☛ **Settings** - **HDMI Link** - **HDMI Link** p.75

- Input Change Link
  Changes the input source of the projector to HDMI when content is played back on the connected device.
- Connected Devices Operations
  Using the projector's remote control, you can perform operations such as Play, Stop, Fast Forward, Rewind, Next Chapter, Previous Chapter, Pause, Volume Adjustment, and Audio Mute.



You can also select the following functions from the **HDMI Link** screen.

Function	Explanation
Audio Out Device*	Selects which device outputs audio. **AV System**: Select this setting when you output audio from an AV amplifier. **WiHD Transmitter (Optical)**: Select this to output audio from the device connected to the Optical Audio-Out port on the WirelessHD Transmitter. **WiHD Transmitter (HDMI)**: Select this to output audio from the device connected to the HDMI Out port on the WirelessHD Transmitter.
Power On Link	When **Power On Link** is set, operations are linked as shown below. • When the projector is turned on, the connected devices are also turned on. • Also, when the connected devices are turned on and content is played back, the projector turns on. However, the projector does not turn on when connected to the WirelessHD Transmitter even when the connected device is turned on.

Function	Explanation
Power Off Link	When **Power Off Link** is set to **On**, when the projector is turned off, the connected devices are also turned off. • This only works when the connected device's CEC power link function is enabled. • Note that depending on the status of the connected device (for example, if it is recording), the device may not power off.
Link Buffer	If HDMI Link is not working correctly, you may be able to improve it by changing the settings.

* EH-TW9400W/EH-TW8400W only.

To use the HDMI Link function, you must configure the connected device. See the documentation supplied with the connected device for more information.

Connecting

You can check the connected devices that are available for HDMI Link, and select on the device you want to project the image from. Devices that can be controlled by HDMI Link automatically become the selected device.

Before displaying the list of connected devices, check that **HDMI Link** is set to **On**. ☛ **Settings** - **HDMI Link** - **HDMI Link** p.75

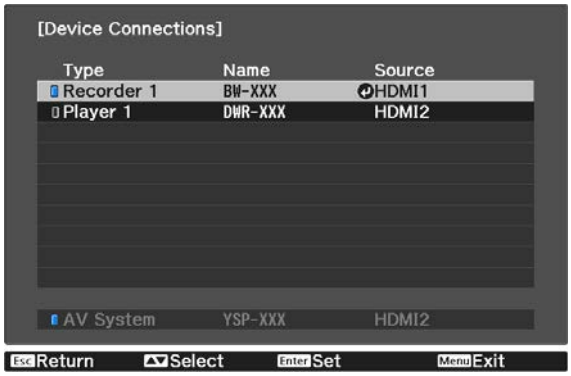
1 Press the HDMI Link button, and then select **Device Connections**.

The **Device Connections** list is displayed.

Devices that have an aqua icon to their left are linked by HDMI Link.

If the device name cannot be determined this field is left blank.

2 Select the device you want to operate using the HDMI Link function.



- If the cable does not meet the HDMI standards, operations are not possible.
- Some connected devices or functions of those devices may not operate properly even if they meet the HDMI CEC standards. See the documentation and so on supplied with the connected device for more information.

Projecting Using Wired LAN

You can send images to your projector through a wired network.

To do this, connect the projector to your network, and then set up your projector and computer for network projection.

When you have finished making projector connection and network settings, install Epson iProjection (Windows/Mac) from the following Web site.
You can use Epson iProjection to project computer images over a network. You can also hold dynamic meetings by projecting images from multiple computers connected to the network at the same time. See the Epson iProjection Operation Guide (Windows/Mac) for more information.

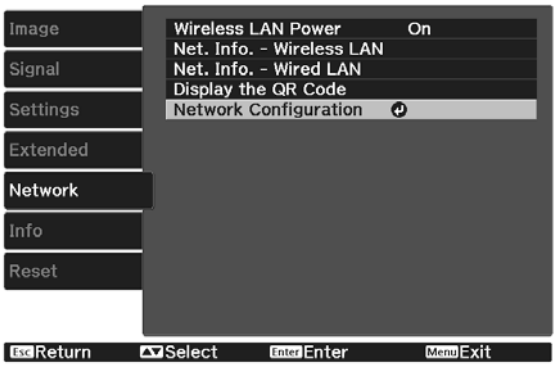
http://www.epson.com

Selecting Wired Network Settings

Before you can project from computers on your network, you need to select network settings on the projector.

Before making settings, connect a LAN cable to the LAN port, and connect the projector to the wired LAN.

1 Press the Menu button to display menus in the order **Network** - **Network Configuration**.



2 Select **Basic**, and then set the following as necessary.

- **Projector Name**: Enter a name up to 16 alphanumeric characters long to identify the projector over the network.
- **PJLink Password**: Set a password to use when you control the projector using compatible PJLink software. You can enter up to 32 single-byte alphanumeric characters.
- **Remote Password**: Set a password to use when you operate the projector from a smartphone or a tablet. You can enter up to 8 single-byte alphanumeric characters.
- **Monitor Password**: Set a password to use for plain-text authentication when command communication is performed over a network. You can enter up to 16 single-byte alphanumeric characters.
- **Display LAN Info.**: Set the display format for the projector's network information.

Use the displayed keyboard to enter the name, passwords and keyword. Press the buttons on the remote control to highlight characters, and then press the Enter button to enter them.

3 Select **Wired LAN**, and then press the Enter button.

4 Select the basic options as necessary.

- If your network uses DHCP, set **DHCP** to **On**.
- If you are not using DHCP, set **DHCP** to **Off**, and then enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address**.

5 When you have finished making settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

6 Press the LAN button on the remote control.

The settings are complete when you see the correct IP address on the LAN standby screen.

To prevent the IP address from being displayed on the LAN standby screen or the Home screen, set **IP Address Display** to **Off**. ☛ **Network** - **Network Configuration** - **Wired LAN** p.84

Projecting Using Wireless LAN

You can project images from smartphones, tablets, and computers over wireless LAN.

To project over wireless LAN, you need to make wireless network settings for the projector and the connected device in advance.

Use Epson iProjection to project images over wireless LAN. You can download Epson iProjection using any of the following methods; however, the customer is liable for any costs involved.

- You can download Epson iProjection (Windows/Mac) from the following Web site.
  http://www.epson.com

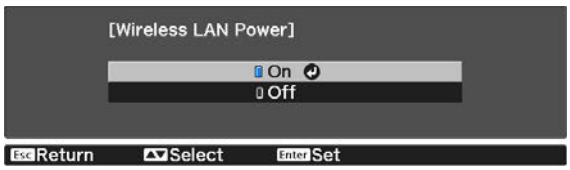
- You can download Epson iProjection (iOS/Android) from the App Store or Google Play.

Selecting Wireless Network Settings Manually

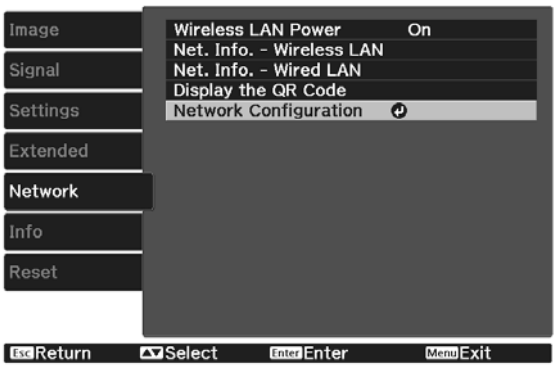
Before you can project from your wireless network, you need to select network settings for the projector.

1 Press the Menu button to display menus in the order **Network** - **Wireless LAN Power**.

2 Use the ◁ ▷ buttons to select **On**, and then press the Enter button.



3 Select **Network Configuration**, and then press the Enter button.



4 Select **Basic**, and then set the following as necessary.

- **Projector Name**: Enter a name up to 16 alphanumeric characters long to identify the projector over the network.
- **PJLink Password**: Set a password to use when you control the projector using compatible PJLink software. You can enter up to 32 single-byte alphanumeric characters.
- **Remote Password**: Set a password to use when you operate the projector from a smartphone or a tablet. You can enter up to single-byte 8 alphanumeric characters.
- **Monitor Password**: Set a password to use for plain-text authentication when command communication is performed over a network. You can enter up to 16 single-byte alphanumeric characters.
- **Display LAN Info.**: Set the display format for the projector's network information.

Use the displayed keyboard to enter the name, passwords and keyword. Press the ▲ ▼ ◀ ▶ buttons on the remote control to highlight characters, and then press the Enter button to enter them.

5 Select **Wireless LAN**, and then press the Enter button.

6 Select the **Connection Mode** setting.



- **Quick**: Lets you connect the projector to your smartphones, tablets, or computers directly using wireless communication. When you select **Quick**, go to step 10.
- **Advanced**: Lets you connect the projector to multiple smartphones, tablets, or computers over a wireless network access point. When you select **Advanced**, go to step 7.

7 Select **Network Configuration** - **Wireless LAN** - **Search Access Point**, to select the access point you want to connect to.



If you need to assign the SSID manually, select **SSID** to enter the SSID. In addition, configure the security settings in the **Security** menu.☛ p.68

8 Assign an IP address to the projector as necessary.

- If your network uses DHCP, select **IP Settings** to set the **DHCP** setting to **On**.
- If you are not using DHCP, select **IP Settings** to set the **DHCP** setting to **Off**, and then enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address**.



9 When you have finished selecting settings, select **Complete** and then follow the on-screen instructions to save your settings and exit the menus.

10 Press the LAN button on the remote control. The settings are complete when you see the correct IP address on the LAN standby screen.

When you have finished making wireless settings for your projector, you need to make wireless settings on the connected device. Then start the network software to send images to your projector through a wireless network.

To prevent the SSID and IP address from being displayed on the LAN standby screen or the Home screen, set **SSID Display** and **IP Address Display** to **Off**. ☛ **Network** - **Network Configuration** - **Wireless LAN** p.83

Selecting the Computer's Wireless LAN Settings

Before connecting to the projector, select the correct wireless network on your computer.

Selecting wireless network settings in Windows

1 To access your wireless utility software, double-click the network icon on the Windows taskbar.

2 When connecting in Advanced connection mode, select the network name (SSID) of the network the projector is connecting to.

3 Click **Connect**.

Selecting wireless network settings in OS X

1 Click the AirPort icon on the menu bar at the top of the screen.

2 When connecting in Advanced connection mode, make sure AirPort is turned on and select the network name (SSID) of the network the projector is connecting to.

Setting Up Wireless Network Security

You can set up security for your projector to use on a wireless network. Set up one of the following security options to match the settings used on your network:

- WPA2 security
- WPA/WPA2 security

1 Press the Menu button to display menus in the order **Network** - **Network Configuration** - **Security**.

2 Select the security settings to match your network settings.



3 When you have finished making settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

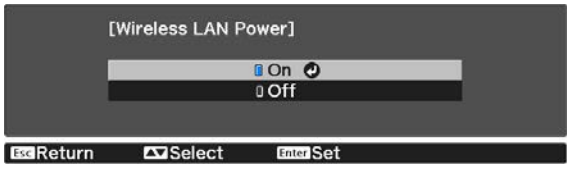
Projecting in Epson iProjection (iOS/Android)

You can display a QR code on the screen and project data easily from a smartphone or tablet using the Epson iProjection app (V1.3.0 or later).

- You can download Epson iProjection free of charge from App Store or Google Play. Any fees incurred when communicating with the App Store or Google play are the responsibility of the customer.
- When using Epson iProjection in **Quick** connection mode, we recommend making security settings.☛ p.68

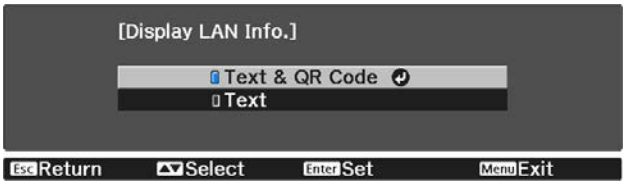
1 Press the Menu button to display menus in the order **Network** - **Wireless LAN Power**.

2 Use the ◁▷ buttons to select **On**, and then press the Enter button.



3 Display the **Network Configuration** - **Basic** - **Display LAN Info.** menu.

4 Use the ◁▷ buttons to select **Text & QR Code**, and then press the Enter button.



5 Press the LAN button on the remote control or select **Display the QR Code** in the projector's **Network** menu to display the QR code.

- If you press the Home button, you can also display the QR code from the Home screen. ☛ p.26
- If the projector is already receiving an image signal over the network, the QR code is not displayed even if you press the LAN button. Select **Display the QR Code** from the **Network** menu to display the QR code.
- To hide the QR code, press the Esc button.

6 Start Epson iProjection on your smartphone or tablet.

7 Read the projected QR code using Epson iProjection.

Read the code from in front of the screen so that the QR code fits into the guide. If you are too far from the screen, the code may not be read.

Once connected, go to ☰ and select the **Contents** menu, and then select a file you want to project.

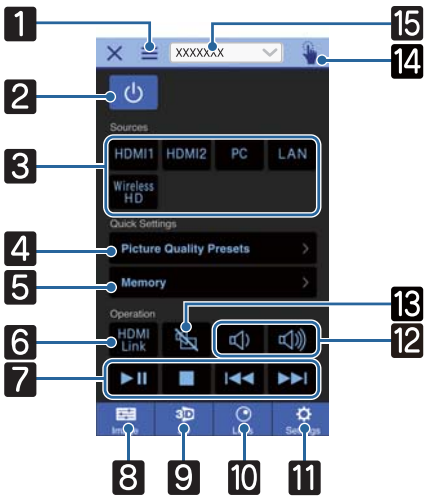
Operating using a smartphone (remote control function)

By using Epson iProjection, you can operate the projector from a smartphone or tablet.

Tap ☰ in Epson iProjection to display the menu.

Tap **Remote** on the menu to display the following screen.

When Remote Password is set, you need to enter the password. Once the password has been recognized, you do not need to enter it from the second time.



	Button	Function
1		Displays the menu.
2		Turns the projector on or off.
3		Changes to the image from each input port. ☛ p.26
4		Sets the image quality using the on-screen instructions.
5		Saves, loads, erases, or rename a memory. ☛ p.42
6		Turns HDMI Link on or off. ☛ p.61
7		When HDMI Link is On, you can perform operations such as Play, Stop, Fast Forward, Rewind, Next Chapter, Previous Chapter, and Pause.
8		Sets the **Color Mode**, **Frame Interpolation**, **Image Enhancement**, **Color Temp.**, **Gamma**, **RGBCMY**,**Lens Iris**, **Power Consumption**, and **Auto Iris**.
9		Specify **3D Display**, **3D Format**, **3D Depth**, **Diagonal Screen Size**, and **3D Brightness**.
10		Adjusts the focus, zoom, and lens shift. You can also register the lens position (Memory function) or display a test pattern (Pattern function).
11		Specify **Aspect**, **Image Processing**, **Keystone**, **Reset All Config**, **Reset Memory**, **Reset Lens Position**, **Lens Shift**, **Zoom**, **Focus**, **Test Pattern**.
12		When HDMI Link is set to On, you can adjust the volume.
13		When HDMI Link is set to On, you can turn the image and audio on/off temporarily. ☛ p.31
14		Opens the touch pad screen. You can operate the Configuration menu by touching your touch pad.
15		Selects the projector you want to control.

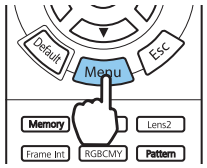
Configuration Menu Functions

Configuration Menu Operations

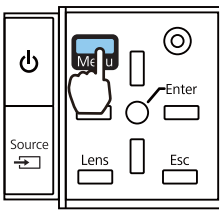
On the Configuration menu, you can make adjustments and settings for Signal, Image, Input Signal, and so on.

1 Press the Menu button.

Remote control



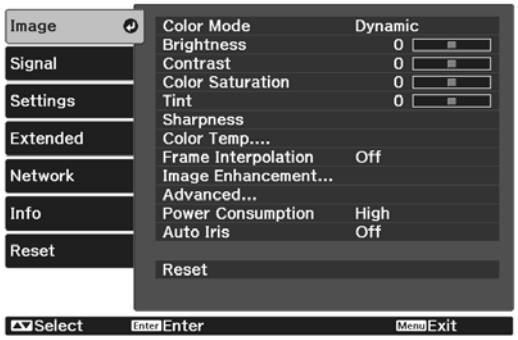
Control panel



The Configuration menu is displayed.

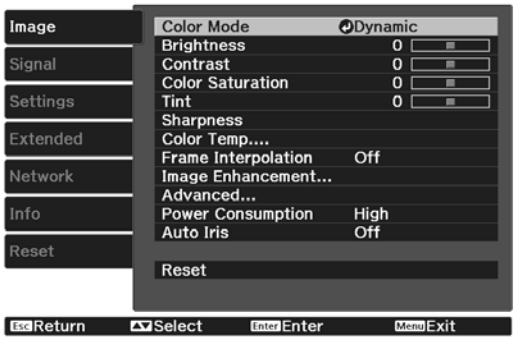
2 Use the ▲▼ buttons to select the top menu on the left, and then press the Enter button to confirm the selection.

When you select the top menu on the left, the sub menu on the right changes.



The line at the bottom is a guide for operations.

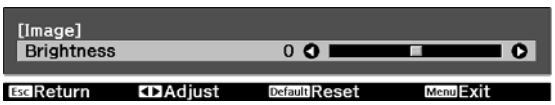
3 Use the ▲▼ buttons to select the sub menu on the right, and then press the Enter button to confirm the selection.



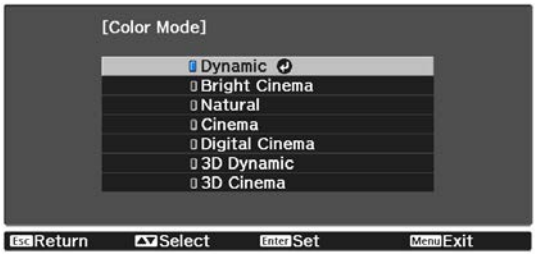
The adjustment screen for the selected function is displayed.

4 Use the ▲▼◀▶ buttons to adjust the settings.

Ex.) Adjustment bar



Ex.) Choices



Press the Enter button on an item displaying this ↵ icon to change to the selection screen for that item.

Press the Esc button to return to the previous level.

5 Press the Menu button to exit the menu.

For items adjusted using an adjustment bar, such as the brightness level, you can press the Default button while the adjustment screen is displayed to return the adjustment value to its default value.

Configuration Menu Table

If there is no image signal being input, you cannot adjust items related to the **Image** or **Signal** in the Configuration menu. Note that the items displayed for the **Image**, **Signal**, and **Info** vary depending on the image signal being projected.

Image menu

Function	Menu/Settings		Explanation
Color Mode	Dynamic, Bright Cinema, Natural, Cinema, Digital Cinema, 3D Dynamic, 3D Cinema		Select a color mode based on your surroundings and the image you are projecting. ☛ p.32
Brightness			Adjusts the brightness when the image appears too dark.
Contrast			Adjusts the contrast between light and shade in the images. By increasing the contrast, the images become vivid.
Color Saturation			Adjusts the color saturation for the images.
Tint			Adjusts the tint for the images.
Sharpness			Adjusts the image sharpness.
Color Temp.	Color Temp.		Adjusts the tint for the images. The image is tinted blue for high values, and tinted red for low values.
	Skin Tone		Adjusts the skin tone. The image becomes greener when set to a positive value and redder when set to a negative value.
	Custom		Adjusts the offset and gain for each R, G, and B color.
	Grayscale	Adjustment Level, Red, Green, Blue, Brightness	Adjusts red, green, blue, and brightness for the selected adjustment level.
Frame Interpolation*1	Off, Low, Normal, High		Adjusts the smoothness of movement of the image.

Function	Menu/Settings		Explanation
Image Enhancement*2	4K Enhancement	On, Off	You can project at a doubled resolution.
	Image Preset Mode	Off, Preset 1 to Preset 5	Select the settings prepared in advance as the settings for **Noise Reduction**, **MPEG Noise Reduction**, **Super-resolution**, and **Detail Enhancement**.
	Noise Reduction		Adjusts the roughness of the image.
	MPEG Noise Reduction		Smoothes out rough images in MPEG format.
	Super-resolution	Fine Line Adjust, Soft Focus Detail	Adjusts the amount of enhancement for complicated images and backgrounds.
	Detail Enhancement		Creates a more emphatic texture and material feel of the image.
Advanced	Gamma	2, 1, 0, -1, -2, Custom*3, Reset	Performs gamma adjustments. You can select a raw value or adjust using a custom value. ☛ p.40
	RGBCMY / R/G/B/C/M/Y	Hue, Saturation, Brightness 	Adjusts the hue, saturation, and brightness for each R, G, B, C, M, and Y color. ☛ p.38
	Deinterlacing	Off, Video, Film/Auto	(This can only be set when **Image Processing** is set to **Fine** or when receiving 480i, 576i, or 1080i signal input from the HDMI1, or HDMI2 ports or from WirelessHD.) Converts the signal from interlaced (i) to progressive (p) using a method appropriate for the image signal. • **Off**: This is ideal for dynamic motion images. • **Video**: This is ideal for viewing general video images. • **Film/Auto**: Performs the optimal conversion for film, CG, or animation input signals.
	Lens Iris		Adjusts the amount of light entering the lens with the lens diaphragm, which adjusts the contrast of the image.
Power Consumption	High, Medium, ECO		You can set the lamp brightness to one of three settings. Select **ECO** if the images being projected are too bright. When **ECO** is selected, power consumption during projection decreases, and fan rotation noise is reduced.
Auto Iris	Off, Normal, High Speed		You can change the luminance adjustment tracking for changes in brightness in the displayed image. ☛ p.36
Reset	Yes, No		Resets the adjustment values of **Image** set in the current Color Mode to the default settings.

*1 Only when an HDMI1, HDMI2, WirelessHD image signal is being input.

*2 Only when an HDMI1, HDMI2, WirelessHD, or PC image signal is being input.
*3 Settings are saved for each type of input source or Color Mode.

Signal menu

The Signal menu cannot be set when a LAN image signal is being input.

Function	Menu/Settings		Explanation
3D Setup*1	3D Display	Auto, 3D, 2D	To view 3D images, set this to **Auto** or **3D**. ☛ p.44
	3D Format	Side by Side, Top and Bottom	Sets the 3D format for the input signal.
	3D Depth	-10 to 10	Sets the depth for the 3D image.
	Diagonal Screen Size	60 to 300	Sets the projection size for the 3D image. By matching this to the actual size, you can achieve the optimum 3D effect.
	3D Brightness	Low, Medium, High	Sets the brightness for the 3D image.
	Inverse 3D Glasses	Yes, No	Reverses the synchronization timing for the left/right shutters on the 3D Glasses and the left/right images. Enable this function if the 3D effect is not displayed correctly.
	3D Viewing Notice	On, Off	Turns the notice that appears when viewing 3D content on or off.
Aspect*2	Auto*1, Normal, Full, Zoom, Anamorphic Wide*3, Horiz. Squeeze*3		Selects the aspect mode. ☛ p.33
Tracking*2 *4	Varies depending on the input signal.		Adjusts computer images when vertical stripes appear in the images.
Sync.*2 *4	0 to 31		Adjusts computer images when flickering, fuzziness, or interference appear in the images. • Adjusting the **Brightness**, **Contrast**, or **Sharpness** may cause flickering or fuzziness. • When adjusting **Sync.** after adjusting the **Tracking**, you can create a more vivid image.
Position*2 *4			Adjusts the display position up, down, left, and right when a part of the image is missing so that the whole image is projected.
Auto Setup*4	On, Off		Sets whether or not to automatically adjust the image whenever the input signal is changed. When enabled, the Tracking, Position, and Sync. are automatically configured.
Overscan*1 *2	Auto, Off, 4%, and 8%		Changes the output image ratio (the range of the projected image). • **Off**, **4%**, **8%**: Sets the range of the image. When set to **Off**, the entire range of the image is projected. Depending on the image signal, you may notice noise at the top and bottom of the image. • **Auto**: Automatically sets to **Off** or **8%** depending on the input signal.
Color Space*1	Auto, BT.709, BT.2020		Sets the conversion system for the color space.

Function	Menu/Settings		Explanation
Dynamic Range*1	Dynamic Range	Auto, SDR, HDR10, HLG	Lets you change the range of dark and bright areas in images.
	Signal Status	-	Displays the image signal.
	HDR10 Setting	1 to 16	Lets you change the PQ curve of the dynamic range in the HDR PQ method.
	HLG Setting	1 to 16	Lets you change the HLG curve of the dynamic range in the HDR HLG method.
Advanced	Video Range*1 *2	Auto, Limited (16-235), Full (0-255)	When set to **Auto**, the video level for the DVD input signal to the HDMI1 or HDMI2 ports is automatically detected and set. If you experience under or overexposure when set to **Auto**, set the video level of the projector to match that of the DVD/Blu-ray disc player's video level. Your player may be set to Normal (Limited) or Expand (Full).
	EDID*5	Normal, Expanded	Lets you change the EDID settings. **Normal** supports 3840 x 2160 30Hz signals, and **Expanded** supports 3840 x 2160 60 Hz signals.
	Image Processing	Fine, Fast	Improves the response speed for images projected at high-speed, such as games.
Reset	Yes, No		Resets all **Signal** settings except for **Diagonal Screen Size**, **3D Viewing Notice**, and **Aspect**.

*1 Only when an HDMI1, HDMI2, WirelessHD image signal is being input.
*2 Settings are saved for each type of input source or signal.
*3 EH-TW9400W/EH-TW9400 only.
*4 Only when a PC image signal is being input.
*5 Only when an HDMI1 or HDMI2 image signal is being input.

Settings menu

Function	Menu/Settings		Explanation
Keystone	Keystone	-60 to 60	Corrects keystone distortion. ☛ p.31
Blanking			Covers part of the image with a blank (black screen). You can set the top, bottom, left, or right of the image.

Function	Menu/Settings		Explanation
HDMI Link	Device Connections	-	Displays a list of devices connected from the HDMI1 or HDMI2 ports, or from WirelessHD*.
	HDMI Link	On, Off	Enables or disables the HDMI Link function.
	Audio Out Device*	AV System,WiHD Transmitter (Optical), WiHD Transmitter (HDMI)	Selects which device outputs audio. ☛ p.61
	Power On Link	Off, Bidirectional, Device -> PJ, PJ -> Device	Sets the link function when the power is turned on. • When linking operations to the connected device and turning on the projector, select **Bidirectional** or **Device -> PJ**. • When linking power on for the projector to the connected device, select **Bidirectional** or **PJ -> Device**.
	Power Off Link	On, Off	Sets whether or not to power off connected devices when the projector is turned off.
	Link Buffer	On, Off	If HDMI Link is not working correctly, you may be able to improve it by changing the settings.
WirelessHD*	Connected Device	-	Displays the MAC address of WirelessHD devices that can be connected.
	WirelessHD	On, Off	Enables or disables the WirelessHD function.
	Video Reception		Indicates the connection status with the WirelessHD Transmitter. While connected, Transmitter detected is displayed.
	Reset	Yes, No	Resets **WirelessHD** settings to their default settings. Note that even if you reset the projector, the WirelessHD Transmitter settings are not reset.

Function	Menu/Settings		Explanation
Lock Setting	Lens Lock	On, Off	When set to **On**, the focus, zoom, and lens shift settings are locked at their current settings. If you press the Lens button when **Lens Lock** is set to **On**, is displayed on the screen.
	Child Lock	On, Off	This locks the button on the projector's control panel to prevent children from turning on the projector by accident. You can turn on the power when locked by holding down the button for approximately three seconds. You can still turn off the device using the button, or perform operations with the remote control as usual. If changed, this setting is enabled after you power off the projector and the cool-down process is complete. Note that even if **Child Lock** is set to **On**, the projector still turns on when the power cord is connected if **Direct Power On** is set to **On**.
	Control Panel Lock	Full Lock, Partial Lock, Off	**Full Lock**: Disables all of the projector's buttons. **Partial Lock**: Disables all of the projector's buttons except for the button. is displayed on the screen if buttons are pressed while the projector is locked. To unlock, press and hold the button on the control panel for at least 7 seconds. If changed, this setting is enabled once you close the Configuration menu.
User Button	Fine/Fast, 3D Display, Power Consumption, Info, WiHD Video Reception*		Select a Configuration menu item to assign to the User button on the remote control. By pressing the User button, the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments.

Function	Menu/Settings		Explanation
Memory	Load Memory	Memory1 to Memory10	Loads the settings saved in Save Memory to adjust the image.
	Save Memory	Memory1 to Memory10	Saves the settings made in **Image** to a memory.
	Erase Memory	Memory1 to Memory10	Erases a saved memory.
	Rename Memory	Memory1 to Memory10, Default, DVD, VCR, SDTV, HDTV, Cinema, Sports, Music, Anime, Game, Custom	Changes the saved memory name.
	Load Lens Position	Memory1 to Memory10	Loads the settings created in Save Lens Position allowing you to adjust the lens position.
	Save Lens Position	Memory1 to Memory10	Registers the adjustment values for zoom, focus, lens shift, and blanking that were created using the lens adjustment function as the lens position.
	Erase Lens Position	Memory1 to Memory10	Erases the registered lens position.
	Rename Lens Position	Memory1 to Memory10	Changes the name registered for the lens position.
Reset	Yes, No		Resets all **Settings** except for **Audio Out Device**, **Power On Link**, **Power Off Link**, **Link Buffer**, **User Button**, and **Memory**.

* EH-TW9400W/EH-TW8400W only.

Extended menu

Function	Menu/Settings		Explanation
Home Screen	Home Screen Auto Disp.	On, Off	Selects whether or not to display the Home screen automatically when the projector turns on. The Home screen is not displayed when the selected source has an image signal when the projector turns on.
	Custom Function 1	Power Consumption, Auto Iris, Keystone, Info	Select the function assigned to the Home screen.
	Custom Function 2		

Function	Menu/Settings		Explanation
Display	Menu Position	-	Sets the position where the menu should be displayed.
	Messages	On, Off	Sets whether or not to display the following messages (On or Off). • Item names for image signals, color modes, and aspect ratios. • If the internal temperature is rising when no image signal is being input or an unsupported signal is detected.
	Display Background	Black, Blue, Logo	Selects the screen status when no image signal is being input.
	Startup Screen	On, Off	Sets whether or not to show a startup screen when projection begins (On or Off). If changed, this setting is enabled after you power off the projector and the cool-down process is complete.
	Standby Confirmation	On, Off	Sets whether or not to display a standby confirmation message (On or Off). ☛ p.27
	Panel Alignment	-	☛ p.81
	Color Uniformity	Color Uniformity: On, Off	Enables or disables Color Uniformity.
		Adjustment Level: 	There are eight levels from white, through gray, and up to black. You can adjust each level individually.
		Start Adjustments: Red, Green, Blue	Starts making Color Uniformity adjustments.
		Reset: Yes, No	Resets all adjustments and settings for Color Uniformity to their default values.
Projection	Front, Front/Ceiling, Rear, Rear/Ceiling		Change this setting depending on how the projector is installed.

Function	Menu/Settings		Explanation
Operation	Direct Power On	On, Off	You can set up the projector so that projection starts as soon as the power cord is plugged in without any button operations. Note that when this is set to **On**, projection starts if power is restored after a blackout or other power outage and the power cord is still plugged into the projector.
	Sleep Mode	On, Off	If the set time is exceeded and no signal is input, the projector is automatically turned off and enters standby mode. When in standby mode, press the (I) button on the remote control or the ⏻ button on the control panel to start projection.
	Sleep Mode Timer	1 to 30	Sets the interval for **Sleep Mode**.
	Illumination	On, Off	Set this to **Off** if the light from the indicators on the control panel bother you when watching a movie in a dark room. When set to **Off**, the WiHD transmitter indicator also turns off while standing by.
	Trigger Out	Off, Power, Anamorphic Wide*1 On, Off*2	Set the Trigger Out function to communicate the projector's power on status and so on to external devices. When set to **Off**, no voltage is output from the Trigger Out port. When set to **On** or **Power**, voltage is output from the Trigger Out port when the projector is on. If you change this setting, the new setting will take effect the next time you turn the projector on. For **Anamorphic Wide**, when the projector is on and **Aspect** is set to **Anamorphic Wide** or **Horiz. Squeeze**, voltage is output from the Trigger Out port. If you change this setting, the new setting will take effect the next time you turn the projector on.
	High Altitude Mode	On, Off	Set this to **On** if you are using the projector above an altitude of 1500 meters.
Standby Mode	Communication Off, Communication On		**Communication On** indicates that the projector can be monitored over a network when the projector is in standby mode.

Function	Menu/Settings	Explanation
Language	-	Selects the display language.
Reset	Yes, No	Resets all **Extended** settings except for **Memory**, **Projection**, **High Altitude Mode**, **Standby Mode**, and **Language**.

*1 EH-TW9400W/EH-TW9400 only.
*2 EH-TW8400W/EH-TW8400 only.

Panel Alignment menu

Menu/Settings				Explanation
Panel Alignment	Panel Alignment	On, Off		Enables or disables Panel Alignment.
	Select Color	R, B		Select the color to correct.
	Pattern Color	R/G/B, R/G, G/B		Select the pattern used for correction.
	Start Adjustments	-		Starts Panel Alignment. ☛ p.106
	Memory	Load Panel Alignment	Memory1, Memory2, Memory3	Loads settings saved using the Save Panel Alignment function.
		Save Panel Alignment	Memory1, Memory2, Memory3	Saves the settings made in Panel Alignment to a memory.
		Erase Panel Alignment	Memory1, Memory2, Memory3	Erases memories registered using the Panel Alignment function.
		Rename Panel Alignment	Memory1, Memory2, Memory3	Renames Panel Alignment memories.
	Reset	Yes, No		Resets the correction value.

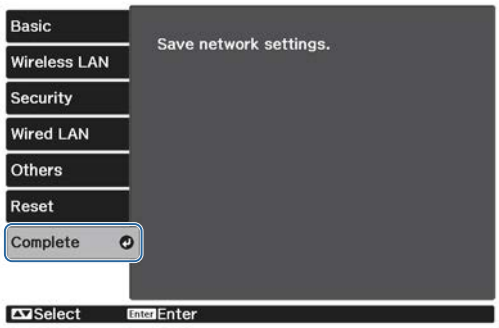
Network menu

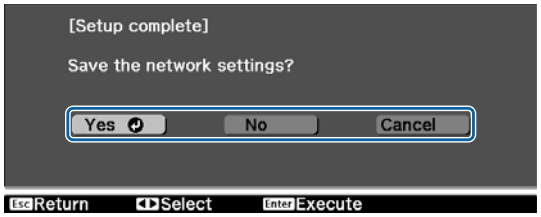
Function	Menu/Settings	Explanation
Wireless LAN Power	On, Off	Sets whether or not to use a Wireless LAN Power (**On** or **Off**).
Net. Info. - Wireless LAN	-	Displays the following network settings. • Connection Mode • Wireless LAN system • Antenna Level • Projector Name • SSID • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address • Region Code
Net. Info. - Wired LAN	-	Displays the following network setting status information. • Projector Name • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address
Display the QR Code	-	Displays network information for the projector with a QR code.
Network Configuration	-	Displays the screen to set the network. ☛ p.83

Notes on operating the Network menu

Basic operations are made in the same way as when using the Configuration menu.

However, be sure to select the **Complete** menu to save your settings when done.





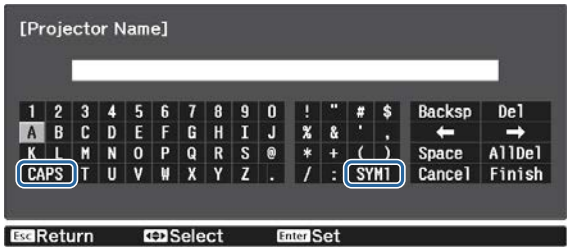
Yes: Saves the settings and exits the Network menu.

No: Exits the Network menu without saving the settings.

Cancel: Continues displaying the Network menu.

Soft Keyboard Operations

In the Network menu, the soft keyboard appears when you need to enter numbers and characters. Press the buttons on the remote control or the buttons on the control panel to select keys, and then press the Enter button to input them. Press **Finish** to confirm your input, or **Cancel** to cancel your input.



CAPS key: Switches between uppercase and lowercase letters.

SYM1/2 key: Switches the symbol keys.

Basic menu

Function	Menu/Settings	Explanation
Projector Name	Up to 16 alphanumeric characters	Enter a name to identify the projector over a network.
PJLink Password	Up to 32 alphanumeric characters	Set a password to use when you control the projector using compatible PJLink software. ☛ p.110
Remote Password	Up to 8 alphanumeric characters	Set a password to use when you operate the projector from a smartphone or a tablet.
Monitor Password	Up to 16 alphanumeric characters	Set a password to use for plain-text authentication when command communication is performed over a network.
Display LAN Info.	Text & QR Code, Text	Set the display format for the projector's network information.

Wireless LAN menu

Function	Menu/Settings	Explanation
Connection Mode	Quick, Advanced	Determines how the wireless LAN is connected. **Quick**: Using Epson iProjection allows you to connect to smartphones, tablets, or computers directly using wireless communication. The projector becomes a simple access point. (Make sure the number of devices connected to the projector is six or less.) It may take longer to update the projected image if the number of connected devices exceeds this number. **Advanced**: Lets you connect to multiple smartphones, tablets, or computers over a wireless network access point.
Channel	1ch, 6ch, 11ch	(This can only be set when **Connection Mode** is set to **Quick**.) Select the frequency bandwidth used by the wireless LAN.
SSID	Up to 32 alphanumeric characters	(This can only be set when **Connection Mode** is set to **Advanced**.) Enter an SSID. When an SSID is provided for the wireless LAN system in which the projector participates, enter the SSID.

Function	Menu/Settings	Explanation
Search Access Point	To Search View	(This can only be selected when **Connection Mode** is set to **Advanced**.) Search for available wireless network access points. indicates currently connected access points. indicates the access points where security is set. If you select an access point which has security, Security menu appears. ☛ p.84
IP Settings (This can only be set when **Connection Mode** is set to **Advanced**.)	DHCP	Sets whether or not to use DHCP (On or Off). If this is set to **On**, you cannot set any more addresses.
	IP Address	Inputs the IP address for the projector. The following IP addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
	Subnet Mask	Inputs the subnet mask for the projector. The following subnet masks cannot be used. 0.0.0.0, 255.255.255.255
	Gateway Address	Inputs the gateway IP address of the projector. The following gateway addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
SSID Display	On, Off	Sets whether or not to display the SSID on the LAN Standby screen and the Home screen (On or Off).
IP Address Display	On, Off	Sets whether or not to display the IP address on the LAN Standby screen and the Home screen (On or Off).

Security menu

Function	Menu/Settings	Explanation
Security	No, WPA2-PSK, WPA/WPA2-PSK	Sets the security. In **Quick**, **WPA2-PSK** is selectable. In **Advanced**, **WPA2-PSK**/**WPA/WPA2-PSK** is selectable.
Passphrase	From 8 to 32 single-byte alphanumeric characters	Inputs the passphrase. It is recommended to change the passphrase periodically for the purpose of security.

Wired LAN menu

Function	Menu/Settings	Explanation
DHCP	On, Off	Set whether or not (**On**/**Off**) to use DHCP. If this is set to **On**, you cannot set any more addresses.
IP Address	Number from 0 to 255	Enter the IP address assigned to the projector. You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)

Function	Menu/Settings	Explanation
Subnet Mask	Number from 0 to 255	Enter the projector's subnet mask. You can enter a number from 0 to 255 in each field of the address. However, the following subnet masks cannot be used. 0.0.0.0, 255.255.255.255
Gateway Address	0 to 255 characters	Enter the projector's gateway IP address. You can enter a number from 0 to 255 in each field of the address. However, the following gateway addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
IP Address Display	On, Off	Set to Off to prevent the IP address from being displayed on the **Net. Info. - Wired LAN** screen.

Others menu

Function	Menu/Settings	Explanation
Remote Control Function	On, Off	Set this to **On** when operating the projector from a smartphone or a tablet. When changing this from **Off** to **On**, you need to enter the Remote Password.
PJLink	On, Off	Set this to **On** when using the PJLink function.
PJLink Notification	On, Off	To use the notification function of PJLink, select **On**.
Notified IP Address	Number from 0 to 255	Enter the IP address of a computer to be notified of the projector's operating status using the PJLink notification function. You can enter numbers from 0 to 255. The following IP addresses cannot be used. 127.x.x.x, 224.0.0.0 to 255.255.255.255 (x is a number from 0 to 255)
AMX Device Discovery	On, Off	When you want to allow the projector to be detected by AMX Device Discovery, set this to **On**. Set this to **Off** if you are not connected to an environment controlled by a controller from AMX or AMX Device Discovery.
Control4 SDDP	On, Off	When you want to allow the projector to be detected by Control4 SDDP, set this to **On**. Set this to **Off** if you are not connected to an environment controlled by a controller from Control4 or Control4 SDDP.

Reset menu

Function	Explanation
Reset network settings.	You can reset all adjustment values for **Network** to their default settings.

Attention

If you perform **Reset network settings.**, all of the passwords that have been set for the **Network** menu are also reset and you need to set them again.

Info menu

Function	Menu/Settings	Explanation
Projector Info	Lamp Hours	Displays the cumulative lamp operating time.
	Source	Displays the current input source.
	Input Signal	Displays the input signal setting of the current input source.
	Resolution	Displays the resolution.
	Scan Mode	Displays the scan mode.
	Refresh Rate	Displays the refresh rate.
	3D Format	Displays the 3D format of the signal input during 3D projection (Frame Packing, Side by Side, or Top and Bottom).
	Sync Info	Displays the image signal information. This information may be needed if service is required.
	Color Depth	Displays the color depth and color difference.
	Color Format	Displays information on the color space and dynamic range.
	Status	This is information about errors that have occurred on the projector. This information may be needed if service is required.
	Serial Number	Displays the projector's serial number.
	Event ID	The application error log appears. ☛ p.98
Version	Main	Displays the firmware version of the projector.
	Video2	

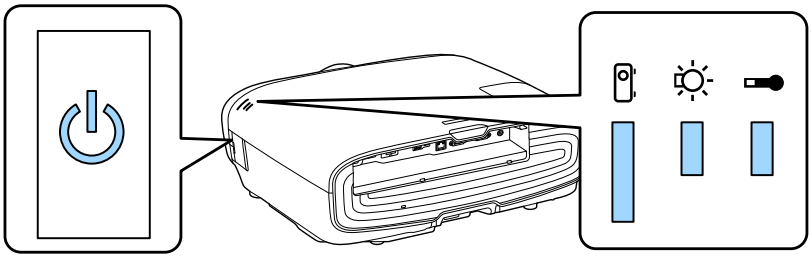
Reset menu

Function	Explanation
Reset Lamp Hours	Resets the cumulative lamp hours use time to **0 H**. Reset when you replace the lamp.
Reset Memory	Resets all items for **Memory** to their default settings.
Reset Lens Position	Resets all settings saved using the **Save Lens Position** function.
Reset All Config	Resets all items in the Configuration menu to their default settings. The following adjustment values are not reset to their defaults: **Memory**, **Panel Alignment**, **Color Uniformity**, **Lamp Hours**, **Language**, and **Network Settings**.

Problem Solving

Reading the Indicators

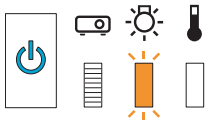
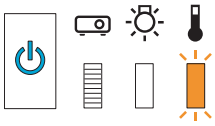
You can check the status of the projector from the flashing and lit , , and on the control panel.

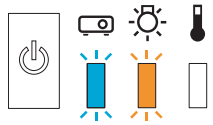
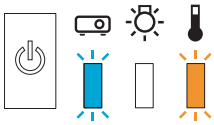
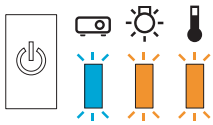
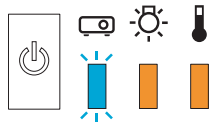
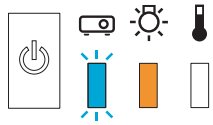
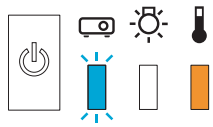


Refer to the following table to check the projector's status and how to remedy problems shown by the indicators.

Indicator status during an error/warning

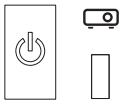
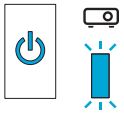
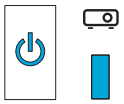
: Lit : Flashing : Status maintained : Off

Indicators	Status	Remedy
 (blue)/(orange)	Replace Lamp	It is time to replace your lamp. Replace the lamp with a new lamp as soon as possible. p.103 The lamp may explode if you continue to use it in this status.
 (blue)/(orange)	High Temp Warning	You can continue projecting. If the temperature rises too high again, projection stops automatically. • If the projector is installed next to a wall, make sure there is at least 20 cm between the wall and the projector's exhaust vent. • If the air filter is clogged, clean it. p.100 • Make sure that nothing is blocking the area around the inlet and that the temperature around the inlet is not too high. p.116

Indicators	Status	Remedy
 (blue)/(orange)	Internal Error	The projector has malfunctioned. Remove the power plug from the electrical outlet, and contact your local dealer or the nearest Epson repair center. ☛ *Epson Projector Contact List*
 (blue)/(orange)	Fan Error Sensor Error	
 (blue)/(orange)	Cinema Filter Error Auto Iris Error	
 (blue)/(orange)	Power Err. (Ballast)	
 (blue)/(orange)	Lamp Error Lamp Failure	There is a problem with the lamp, or it failed to turn on. • Disconnect the power cord, and then check if the lamp is cracked. ☛ p.103 If it is not cracked, reinstall the lamp and turn on the power. If reinstalling the lamp does not fix the problem, or if the lamp is cracked, remove the power plug from the electrical outlet, and contact your local dealer or the nearest Epson repair center. ☛ *Epson Projector Contact List* • Check that the lamp cover has been properly closed. • If the air filter is clogged, clean it. ☛ p.100 • When using at an altitude of 1500 m or more, set **High Altitude Mode** to **On**. ☛ **Extended** - **Operation** - **High Altitude Mode** p.78
 (blue)/(orange)	High Temp Error (Overheating)	The internal temperature is too high. • The lamp turns off automatically and projection stops. Wait for about five minutes. When the fan has stopped, disconnect the power cord. • If the projector is installed next to a wall, make sure there is at least 20 cm between the wall and the projector's exhaust vent. • If the air filter is clogged, clean it. ☛ p.100 • Make sure that nothing is blocking the area around the inlet and that the temperature around the inlet is not too high. ☛ p.116 • If turning the power back on does not clear the problem, stop using the projector and remove the power plug from the electrical outlet. Contact your local dealer or the nearest Epson repair center. ☛ *Epson Projector Contact List*

Indicator status during normal operation

: Lit : Flashing : Off

Indicators	Status	Remedy
	Standby condition	When you press the (I) button on the remote control, or the ⏻ button on the control panel, projection starts after a short wait.
 (blue)	Warm-up in progress	Warm-up time is about 30 seconds. The power-off operation is disabled while the projector is warming-up.
	Cool-down in progress	All operations are disabled while the projector is cooling-down. The projector enters standby condition when cool-down is complete. If for any reason the power cord is disconnected during cool-down, wait until the lamp has cooled down sufficiently (about 10 minutes), reconnect the power cord, and then press the (I) button on the remote control, or the ⏻ button on the control panel.
 (blue)	Projection in progress	The projector is operating normally.

- Under normal operating conditions, the and indicators are off.
- When the Illumination function is set to **Off**, all indicators are off under normal projection conditions. ☛ **Extended** - **Operation** - **Illumination** p.78

When the Indicators Provide No Help

Check the problem

Check the following table to see if your problem is mentioned, and go to the appropriate page for information on handling the problem.

Problem		Page
Problems relating to images	No images appear. Projection does not start, the projection area is completely black, or the projection area is completely blue.	p.90
	Moving images being projected from a computer are not projected.	p.91
	"Not supported" is displayed	p.91
	"No Signal " is displayed	p.91
	Images are fuzzy or out of focus.	p.92
	Interference or distortion appears in the images.	p.92
	The image is truncated (large) or small, or only a part of the image is projected.	p.92
	Image colors are not right. The whole image appears purplish or greenish, images are black & white, or colors appear dull.*	p.93
	Images appear dark.	p.93
	Projection stops automatically.	p.93
Problems when projection starts	The projector does not turn on.	p.94
Problems with the remote control	The remote control does not respond.	p.94
Problems with the control panel	Cannot make settings on the control panel.	p.94
Problems with 3D	Cannot project correctly in 3D.	p.95
Problems with HDMI	HDMI Link does not function.	p.95
	The device name is not displayed under device connections.	p.96
Problems with WirelessHD	**"Transmitter not found."** is displayed	p.96
	Cannot project WirelessHD images.	p.96
	Interference, distortion, or interruption appear in WirelessHD.	p.97
	Half of the image on the left or right stops projecting or the image is doubled up.	p.97
Network problems	Cannot access the network via wireless LAN.	p.98
	The image contains static during network projection.	p.98

* Because color reproduction differs between monitors and computer LCD screens, the image projected by the projector and the color tones displayed on the monitor may not match, however this is not a fault.

Problems relating to images

No images appear

Check	Remedy
Is the projector turned on?	Press the ⏽ button on the remote control or the ⏻ button on the control panel.
Is the power cord connected?	Connect the power cord.

Check	Remedy
Are the indicators switched off?	Disconnect and then reconnect the projector's power cord. Check that pressing the power button after connection supplies the projector with power.
Is an image signal being input?	Check that the connected device is turned on. When **Messages** is set to **On** from the Configuration menu, image signal messages are displayed.☛ **Extended** - **Display** - **Messages** p.78
Are the Configuration menu settings correct?	Reset all of the settings. ☛ **Reset** - **Reset All Config** p.86
(Only when projecting computer image signals) Was the connection made while the power of the projector or the computer was already turned on?	If the connection is made while the power is already turned on, the Fn key (Function key) that changes the computer's image signal to external output may not work. Turn off the power for the computer and the projector and then turn it back on again.

Moving images are not displayed

Check	Remedy
(Only when projecting computer image signals) Is the computer's image signal set to external output and to output to the LCD monitor at the same time?	Depending on the computer's specifications, moving images may not be displayed when the computer is set to external output and to the LCD monitor output at the same time. Change it so that the image signal is set to external output only. For the computer's specifications, see the documentation supplied with the computer.

"Not supported" is displayed

Check	Remedy
(Only when projecting computer image signals) Do the image signal's frequency and resolution correspond to the mode?	Check the image signal being input in **Resolution** from the Configuration menu, and check that it corresponds to the projector's resolution. ☛**Info** - **Projector Info** p.86 ☛ p.112

"No Signal " is displayed

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ p.19
Is the correct image input port selected?	Change the image with the source buttons on the remote control, or the [⇨] button on the control panel. ☛ p.26
Is the connected device turned on?	Turn on the device.

Check	Remedy
(Only when projecting computer image signals) Are the image signals being output to the projector?	Change it so that the image signal is set to external output, and not just the computer's LCD monitor. For some models, when the image signals are output externally, they no longer appear on the LCD monitor. For the computer's specifications, see the documentation supplied with the computer.
	If the connection is made while the power of the projector or the computer is already turned on, the Fn key (Function key) that changes the computer's image signal to external output may not work. Turn the power for the computer and the projector off and then back on again.

Images are fuzzy or out of focus

Check	Remedy
Has the focus been adjusted?	Adjust the focus. ☛ p.29
Is the projector at the correct distance?	Check the recommended projection range. ☛ p.16
Has condensation formed on the lens?	If the projector is suddenly taken from a cold environment to a warm environment, or if sudden ambient temperature changes occur, condensation may form on the surface of the lens, and this may cause the images to appear fuzzy. Set the projector up in the room about one hour before it is used. If the projector is wet from condensation, turn off the projector, disconnect the power cord, and leave it for a while.

Interference or distortion appear in images

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ p.19
Is an extension cable being used?	If an extension cable is used, electrical interference may affect the signals.
(Only when projecting computer image signals) Are the **Sync.** and **Tracking** settings adjusted correctly?	The projector uses automatic adjustment functions to project at the optimum status. However, depending on the signal, some may not be adjusted correctly even after performing self corrections. If this happens, adjust the **Tracking** and **Sync.** settings from the Configuration menu. ☛ **Signal** - **Tracking**/**Sync.** p.74
(Only when projecting computer image signals) Is the correct resolution selected?	Set the computer so that the signals being output are compatible with the projector. ☛ p.112

Part of the image is truncated (large) or small

Check	Remedy
Is the correct **Aspect** selected?	Select the aspect mode to match the input signal in **Aspect** from the Configuration menu. ☛ **Signal** - **Aspect** p.74
Is the image **Position** adjusted correctly?	Adjust the **Position** setting from the Configuration menu. ☛ **Signal** - **Position** p.74

Check	Remedy
(Only when projecting computer image signals) Is the correct resolution selected?	Set the computer so that the signals being output are compatible with the projector. ☛ p.112

Image colors are not right

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.☛ p.19 For the PC port, make sure the connector is the same color as the cable port. ☛ p.20
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.72
Is the color adjusted correctly?	Adjust the **Advanced** setting from the Configuration menu. ☛ **Image** - **Advanced** p.72
(Only when projecting images from a video device) Are the color saturation and tint adjusted correctly?	Adjust the **Color Saturation** and **Tint** settings from the Configuration menu. ☛**Image** - **Color Saturation**/**Tint** p.72

Images appear dark

Check	Remedy
Is the image brightness set correctly?	Adjust the **Brightness** setting from the Configuration menu. ☛ **Image** - **Brightness** p.72
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.72
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images become darker and the color quality becomes poorer. When this happens, replace the lamp with a new lamp. ☛ p.103

Projection stops automatically

Check	Remedy
Is **Sleep Mode** enabled?	If the set time is exceeded and no signal is input, the lamp is automatically turned off and the projector enters standby mode. The projector returns from standby status when you press the ⏻ button on the remote control or the ⏻ button on the control panel. If you want to disable **Sleep Mode**, change the setting to **Off**.☛ **Extended** - **Operation** - **Sleep Mode** p.78

Problems when projection starts

The projector does not turn on

Check	Remedy
Is the power turned on?	Press the ⏻ button on the remote control or the ⏻ button on the control panel.
Is **Child Lock** set to **On**?	When **Child Lock** is set to **On** from the Configuration menu, hold down the ⏻ button on the control panel for approximately three seconds, or perform operations from the remote control.☛ **Settings** - **Lock Setting** - **Child Lock** p.75
Do the indicators turn on and off when the power cord is touched?	Turn off the projector, and then disconnect and reconnect the projector's power cord. If the problem continues, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest projector information center. ☛ *Epson Projector Contact List*
Are the lamp cover and lamps installed correctly?	If the lamp or lamp cover is installed incorrectly, the projector cannot be turned on. Check how it is installed. ☛ p.103

Problems with the remote control

The remote control does not respond

Check	Remedy
Is the remote control light-emitting area pointing towards the remote receiver on the projector during operation?	Point the remote control towards the remote receiver. Also, check the operating range. ☛ p.24
Is the remote control too far from the projector?	Check the operating range. ☛ p.24
Is direct sunlight or strong light from fluorescent lamps shining onto the remote receiver?	Set the projector up in a location where strong light does not shine onto the remote receiver.
Are the batteries dead or have the batteries been inserted correctly?	Make sure the batteries are inserted correctly or replace the batteries with new ones if necessary. ☛ p.23
Is the remote control pointed at the WirelessHD Transmitter when operating the WirelessHD Transmitter control button? (EH-TW9400W/EH-TW8400W only)	Make sure you point the remote control at the WirelessHD Transmitter when using the WirelessHD Transmitter control button on the remote control. ☛ p.58

Problems with the control panel

Cannot make settings on the control panel

Check	Remedy
Is **Control Panel Lock** set to **Full Lock** or **Partial Lock**?	When **Control Panel Lock** is set to **Full Lock** in the Configuration menu, all button operations on the control panel are disabled; when **Partial Lock** is set, only the ⏻ button on the control panel is available. Perform operations from the remote control. ☛ **Settings** - **Lock Setting** - **Control Panel Lock** p.75

Problems with 3D

Cannot project correctly in 3D

Check	Remedy
Are the 3D Glasses turned on?	Turn on the 3D Glasses.
Are the 3D Glasses fully charged?	Charge the 3D Glasses.
Is a 3D image being projected?	If the projector is projecting a 2D image, or if an error occurs on the projector that prevents the 3D image from being projected, you cannot view 3D images even if you are wearing the 3D Glasses.
Is the input image in 3D?	Check that the input image is 3D compatible. Since most TV broadcasts do not contain a 3D format signal, 3D reception must be set manually.
Is **3D Display** set to **2D**?	If **3D Display** is set to **2D** from the Configuration menu, the projector does not automatically change to 3D even when a 3D image is input. Set **3D Display** to either **3D** or **Auto**.☛ **Signal** - **3D Setup** - **3D Display** p.74
Is **3D Format** set correctly?	Unless the 3D format of the AV device and **3D Format** of the projector are the same, part of the image may not be displayed. Check that the projector's **3D Format** setting matches the 3D format setting for the AV device. ☛ **Signal** - **3D Setup** - **3D Format** p.74 When changing the **3D Format**, set **3D Display** to **3D**, and then press the 3D Format button.
Are you viewing within the reception range?	If the distance between the projector and the 3D Glasses exceed 10 m, the connection may be lost. Move the 3D Glasses closer to the projector.
Has pairing been performed correctly?	See the user's guide supplied with your 3D Glasses and perform pairing.
Are there any devices that cause radio wave interference in the vicinity?	When using other devices at the same time with the frequency band (2.4 GHz) such as Bluetooth communication devices, wireless LAN (IEEE802.11b/g), or microwave ovens, radio wave interference may occur, the image may be interrupted, or communication may not be possible. Do not use the projector near these devices.

Problems with HDMI

HDMI Link does not function

Check	Remedy
Are you using a cable that meets the HDMI standards?	Operations are not possible with cables that do not meet the HDMI standards.

Check	Remedy
Does the connected device meet the HDMI CEC standards?	If the connected device does not meet the HDMI CEC standards, it cannot be operated even if it is connected to the HDMI port. See the documentation and so on supplied with the connected device for more information. Also, press the HDMI Link button, and then check if the device is available under **Device Connections**. ☛ p.62
Are the cables connected correctly?	Check that all the cables required to use HDMI Link are securely connected. ☛ p.61
Is the power for the amplifier or DVD recorder and so on turned on?	Put each device in standby status. See the documentation and so on supplied with the connected device for more information. If you have connected a speaker and so on, set the connected equipment to PCM output.
Was a new device connected, or was the connection changed?	If the CEC function for a connected device needs to be set again, for example when a new device is connected or the connection is changed, you may need to restart the device.
Are many multi-media players connected?	Up to 3 multi-media players that meet the HDMI CEC standards can be connected at the same time.

The device name is not displayed under Device Connections

Check	Remedy
Does the connected device meet the HDMI CEC standards?	If the connected device does not meet the HDMI CEC standards, it is not displayed. See the documentation and so on supplied with the connected device for more information.

Problems with WirelessHD (EH-TW9400W/EH-TW8400W only)

"Transmitter not found." is displayed

Check	Remedy
Is the power switch on the side of WirelessHD Transmitter turned on?	Check the On/Standby indicator on the WirelessHD Transmitter. If there is no power being supplied, make sure the connector for the AC adapter is securely connected, and then turn on the power switch. It may take a while to receive signal.

Cannot project WirelessHD images

Check	Remedy
Does the cable connecting the supplied WirelessHD Transmitter meet the HDMI standards?	If the cable does not meet the HDMI standards, operations are not possible.
Is **WirelessHD** set to **Off**?	When **WirelessHD** is set to **Off** from the Configuration menu, projection is not possible for WirelessHD input signals. Set **WirelessHD** to **On** and press the WirelessHD button.☛ **Settings** - **WirelessHD** - **WirelessHD** p.75
Are signals being received within the WirelessHD transmission range?	Check the range within which the WirelessHD's transceiver can communicate, and view within that range. ☛ p.57

Check	Remedy
Is the power switch on the side of the supplied WirelessHD Transmitter turned on?	Check the On/Standby indicator on the WirelessHD Transmitter. If there is no power being supplied, make sure the connector for the AC adapter is securely connected, and then turn on the power switch.
Is the WirelessHD indicator for the supplied WirelessHD Transmitter off?	The WirelessHD cannot communicate with the projector. Check the range within which the WirelessHD's transceiver can communicate, and setup within that range.
Is the Link indicator for the supplied WirelessHD Transmitter off?	No signal is output from the AV device connected to the WirelessHD Transmitter. Check that the cables from the AV device and the WirelessHD Transmitter are securely connected.
Are the projector and the WirelessHD Transmitter facing the correct way?	Setup the projector and the WirelessHD Transmitter so that they are facing each other.

Interference, distortion, or interruption appear in WirelessHD

Check	Remedy
Are signals being received within the WirelessHD transmission range?	Check the range within which the WirelessHD's transceiver can communicate, and view within that range. ☛ p.57
Are there any obstructions between the WirelessHD Transmitter and the projector?	Because WirelessHD communicates using a tight beamed electromagnetic wave, if there are any people or objects and so on obstructing the communication path, this could have an adverse affect on the image. Make sure that there are no obstacles between the WirelessHD Transmitter and the projector within the WirelessHD transmission range. ☛ p.57
Is the reception too low?	If the transmissions are not strong enough, communication may be unstable. Check **Video Reception** as you set up the transmitter as it is sometimes possible to improve the strength of the transmission by moving the WirelessHD Transmitter or changing its direction.☛ **Settings** - **WirelessHD** - **Video Reception** p.75
	Transmission strength may differ depending on the surroundings, or they may be unstable. While checking **Video Reception**, set up the transmitter at a location where the displayed value stabilizes.☛ **Settings** - **WirelessHD** - **Video Reception** p.75

Half of the image on the left or right stops projecting or the image is doubled up

Check	Remedy
Is the reception too low?	Check **Video Reception** as you set up the transmitter as it is sometimes possible to improve the strength of the transmission by moving the WirelessHD Transmitter or changing its direction.☛ **Settings** - **WirelessHD** - **Video Reception** p.75

Network problems

Cannot access the network via wireless LAN

Check	Remedy
Is **Wireless LAN Power** set to **Off**?	Set **Wireless LAN Power** to **On** in the Configuration menu. If this is already set to **On**, set **Wireless LAN Power** to **Off**, and then set it to **On** again. ☛ **Network** - **Wireless LAN Power** p.82
Is the passphrase correct?	Note that the passphrase is case sensitive; upper case and lower case letters are treated as different characters. If you have forgotten your passphrase, set a new one. ☛ **Network** - **Network Configuration** - **Security** - **Passphrase** p.84
Have you checked the Event ID?	Check the Event ID number and perform the following steps. ☛**Info** - **Projector Info** - **Event ID** p.86 ☛ p.98

The settings cannot be modified using the remote controller function for Epson iProjection.

Check	Remedy
Is the connected network device turned on?	When the projector is in the standby mode with **Standby Mode** set to **Communication On**, check to see if the connected network device is powered on. After powering on the network device, try starting the projector again. ☛ **Extended**-**Standby Mode** p.78

The image contains static during network projection

Check	Remedy
Are there any obstacles between the access point and the connected device?	Check for any obstacles between the access point, the mobile device, the computer, and the projector, and change their positions to improve communication.
Is the distance between the access point and the connected device too far?	Make sure that the access point, the mobile device, the computer, and the projector are not too far apart. Move them closer together and try to connect again.
Are there any Bluetooth devices or microwave oven in the vicinity?	If the wireless connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.
Are too many devices connected?	Reduce the number of connected devices if the connection speed declines.

About Event ID

Check the event ID and perform the remedy given below. If you cannot resolve the problem, contact your local dealer or the nearest Epson repair center.

☛ *Epson Projector Contact List*

Event ID	Cause	Remedy
0022 0027 0028 0029 0030 0031 0035 0434 0481 0482 0485	Network communication is unstable.	Check the network communication status, and reconnect after waiting for a while.
0432 0435	Failed to start the network software.	Restart the projector.
0433	An image that was transferred cannot be reproduced.	Restart the network software.
0484	Communications was cut off from the computer.	
04FE	The network software ended unexpectedly.	Check the status of network communications. Wait for a while and then try connecting again.
0479 04FF	A system error occurred in the projector.	Restart the projector.
0891	The same SSID access point cannot be found.	Set the computer, the access point, and the projector to the same SSID.
0892	WPA and WPA2 authentication type mismatch.	Check the setting of wireless LAN security to see if it is correct.
0894	Communications was cut off because a connection was made to the wrong access point.	Check with the network administrator and follow their instructions.
0898	Failed to acquire the DHCP.	Check that the DHCP server is operating correctly. Turn off the DHCP setting if you do not use DHCP.☛ **Network** - **Network Configuration** - **Wireless LAN** - **IP Settings** - **DHCP** p.82
0020 0026 0032 0036 0037 0038 0899	Other connection errors	If restarting the projector or network software does not solve the problem, contact your local dealer or the nearest address provided in the Epson Projector Contact List.☛ *Epson Projector Contact List*

Maintenance

Cleaning the Parts

You should clean the projector if it becomes dirty or if the quality of projected images starts to deteriorate.

> **Warning**
>
> Do not use sprays that contain flammable gas to remove dirt and dust from the projector's lens, air filter, and so on. The projector may catch fire due to the high internal temperature of the lamp. Use a vacuum or a manual air blower to remove dirt and dust attached to the lens and the air filter.

Cleaning the air filter

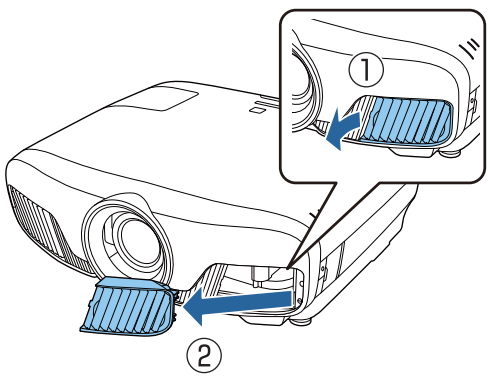
Clean the air filter if dust has accumulated on the air filter or when the following message is displayed.
"The projector is overheating. Make sure nothing is blocking the air vent, and clean or replace the air filter."

> **Attention**
>
> - If dust collects on the air filter, it can cause the internal temperature of the projector to rise, and this can lead to problems with operation and shorten the optical engine's service life. It is recommended that you clean the air filter at least once every three months. Clean them more often than this if using the projector in a particularly dusty environment.
> - Do not rinse the air filter in water. Do not use detergents or solvents.
> - Lightly brush the air filter to clean it. If it is brushed too strongly, dust will be ground into the air filter and cannot be removed.
> - Do not use an air duster. Combustible material may remain, and dust may enter the precision parts.

1 Press the ⏻ button on the remote control or the ⏻ button on the control panel to turn off the power, and then disconnect the power cord.

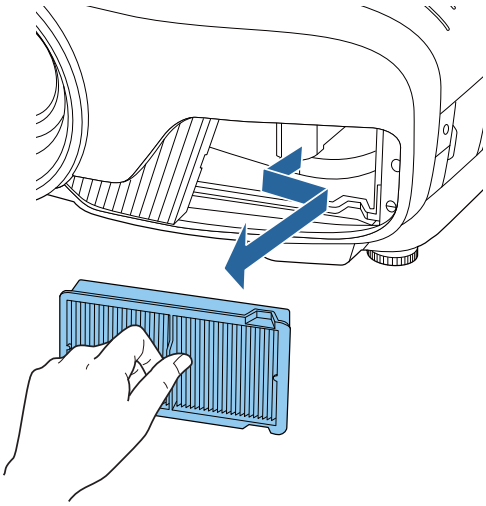
2 Remove the air filter cover.

Hook your finger into the tab on the air filter cover, and remove it from the lens side.



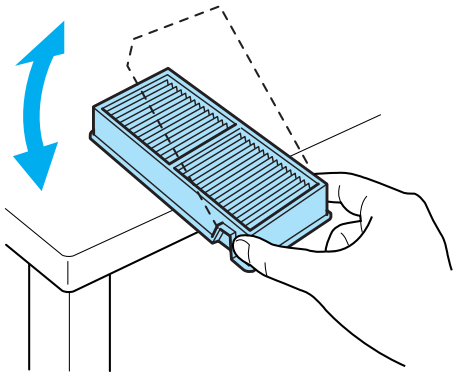
3 Remove the air filter.

Grip the knob in the center of the air filter and pull it out.



4 Hold the air filter with the surface facing down and tap it 4 or 5 times to remove the dust.

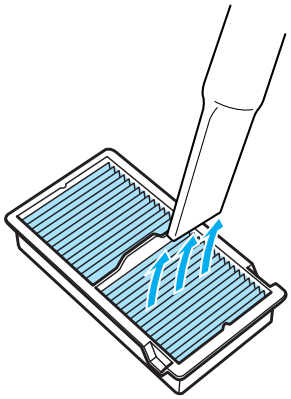
Turn it over and tap the other side in the same way.



Attention

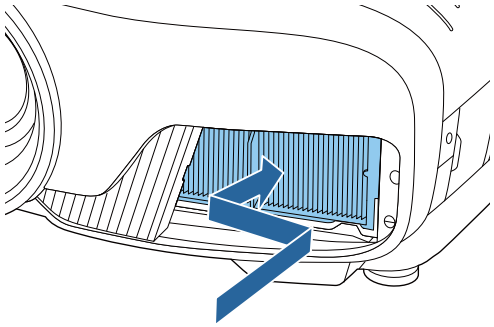
If the air filter is hit too hard, it may become unusable due to deformities and cracks.

5 Remove any dust remaining on the air filter by using a vacuum cleaner from the front side.



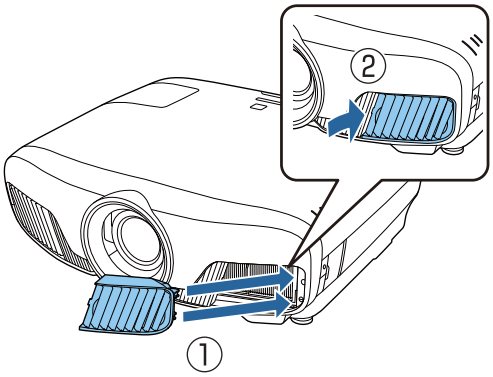
6 Install the air filter.

Grip the air filter by the knob in the center and insert it at an angle.



7 Install the air filter cover.

Secure the tab on the outside first, and then secure the tab on the lens side.



Cleaning the main unit

Before cleaning, make sure you unplug the charging adapter from the outlet.

Clean the projector's surface by wiping it gently with a soft cloth.

If it is particularly dirty, use a piece of well-wrung cloth moistened with water and wipe the surface again with a dry cloth.

Attention

Do not use detergent for kitchen or volatile substances such as wax, benzine and thinner to clean the projector's surface. The quality of the outer case may change or the paint may peel off.

Cleaning the lens

Before cleaning, make sure you unplug the charging adapter from the outlet.

After manually opening the lens shutter, carefully wipe away any dirt on the lens with a cloth for cleaning glasses and so on.

After cleaning, close the lens shutter.

Attention

- Do not rub the lens with harsh materials or handle the lens too roughly as it can easily become damaged.
- Do not use an air duster. Combustible material may remain, and dust may enter the precision parts.

Replacement Periods for Consumables

Air filter replacement period

- If the message is displayed even though the air filter has been cleaned ☛ p.100

Lamp replacement period

- The following message is displayed when projection starts:
  "It is time to replace your lamp. Please contact your Epson projector reseller or visit www.epson.com to purchase."
- The projected image gets darker or starts to deteriorate.

- The lamp replacement message is set to appear after 3400 H in order to maintain the initial brightness and quality of the projected images. The message display time changes depending on the usage situation, such as the color mode setting and so on.
  If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may explode increases. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.
- Depending on the characteristics of the lamp and the way it has been used, the lamp may become darker or stop working before the lamp warning message appears. You should always have a spare lamp unit ready in case it is needed.

Replacing Consumables

Replacing the air filter

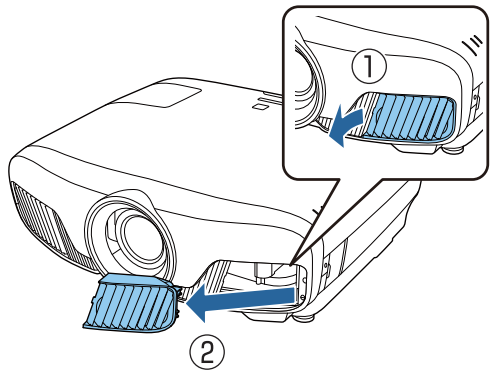
Dispose of used air filters properly in accordance with your local regulations.

- Filter frame: Polypropylene
- Filter: Polypropylene

1 Press the ⏻ button on the remote control or the ⏻ button on the control panel to turn off the power, and then disconnect the power cord.

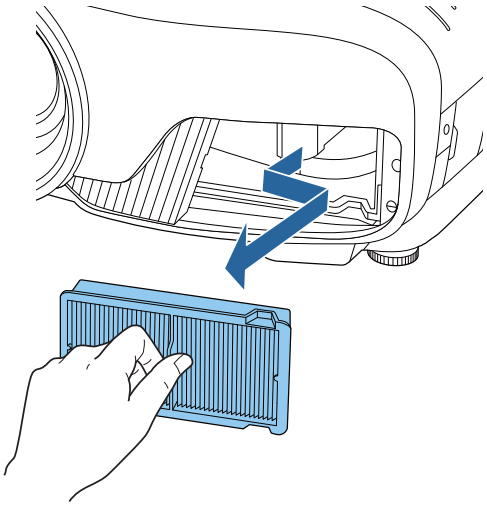
2 Remove the air filter cover.

Hook your finger into the tab on the air filter cover, and remove it from the lens side.



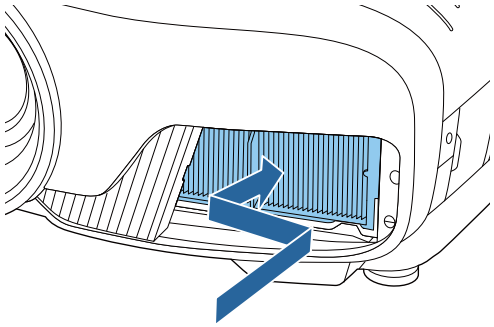
3 Remove the old air filter.

Grip the knob in the center of the air filter and pull it out.



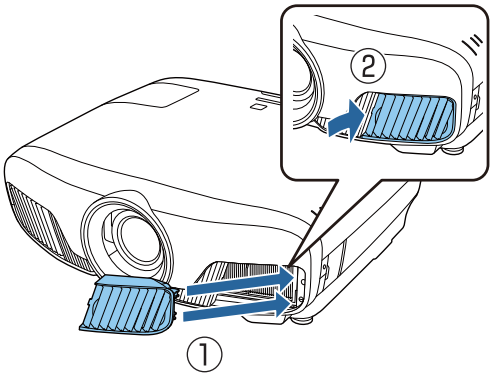
4 Install the new air filter.

Grip the air filter by the knob in the center and insert it at an angle.



5 Install the air filter cover.

Secure the tab on the outside first, and then secure the tab on the lens side.



Replacing the lamp

Warning

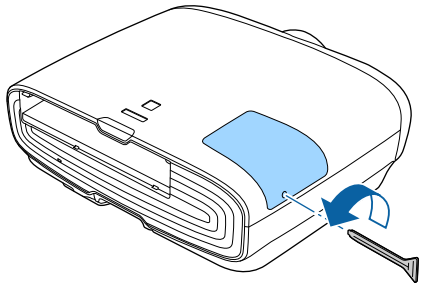
When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken. If replacing the lamp of a projector that has been suspended from the ceiling, you should always assume that the lamp is cracked, and remove the lamp cover with care. When you open the lamp cover, small shards of glass could fall out. If any shards of glass get into your eyes or mouth, contact a doctor immediately.

Caution

- Do not touch the lamp cover immediately after turning off the projector as it is still hot. Wait until the lamp has cooled down sufficiently before removing the lamp cover. Otherwise, you could get burnt.
- We recommend the use of genuine EPSON option lamps. The use of non-genuine lamps may affect projection quality and safety.
  Any damage or malfunction caused by the use of non-genuine lamps may not be covered by Epson's warranty.

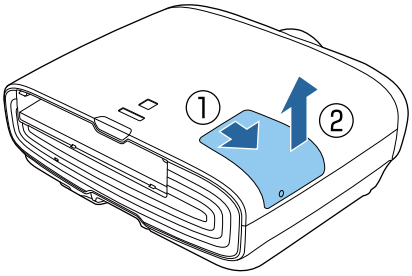
1 Press the ⏻ button on the remote control or the ⏻ button on the control panel to turn off the power, and then disconnect the power cord.

2 Loosen the lamp cover fixing screw.

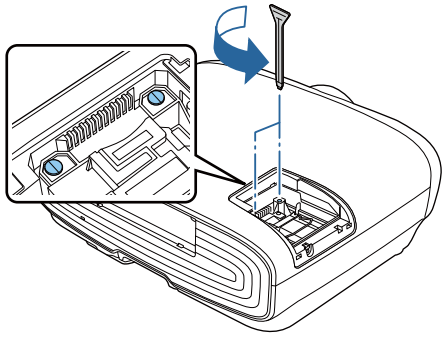


3 Remove the lamp cover.

Slide the lamp cover straight forward and remove it.

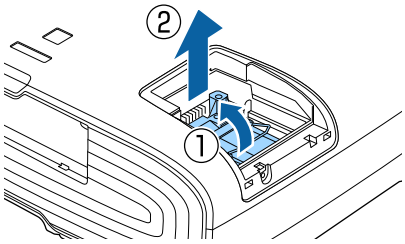


4 Loosen the two lamp fixing screws.



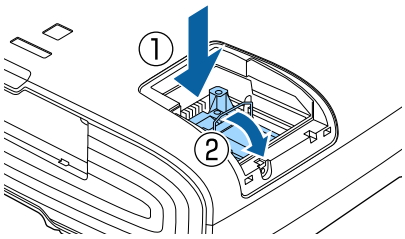
5 Remove the old lamp.

Raise the handle on the lamp, and then pull it straight up.

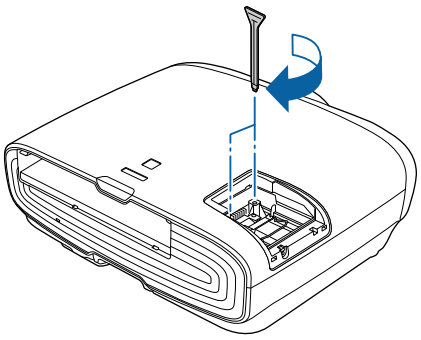


6 Install the new lamp.

Insert the lamp in the correct direction, and then lower the handle.

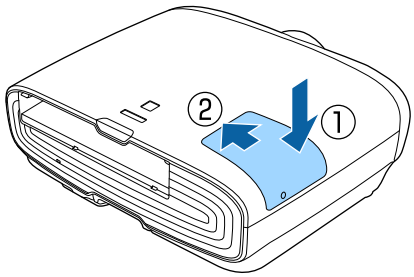


7 Tighten the two lamp fixing screws.

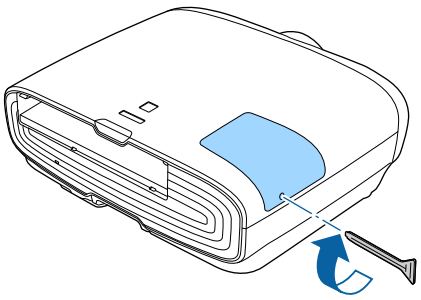


8 Replace the lamp cover.

Slide the cover back into place.



9 Tighten the lamp cover fixing screw.



Warning

Do not disassemble or remodel the lamp. If a modified or disassembled lamp is installed in the projector and used, it could cause a fire, electric shock, or an accident.

Caution

- Make sure you install the lamp and lamp cover securely. If they are not installed correctly, the power does not turn on.
- The lamp contains mercury (Hg). Dispose of used lamps in accordance with your local laws and regulations on disposing of fluorescent tubing.

Resetting lamp hours

After replacing the lamp, make sure you reset the lamp hours.

The projector records how long the lamp is turned on and a message and indicator notify you when it is time to replace the lamp.

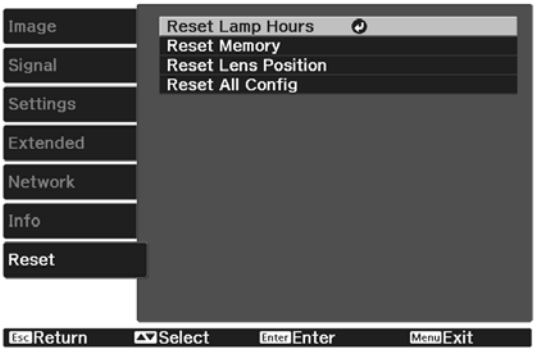
1 Turn on the power.

2 Press the Menu button.

The Configuration menu is displayed.

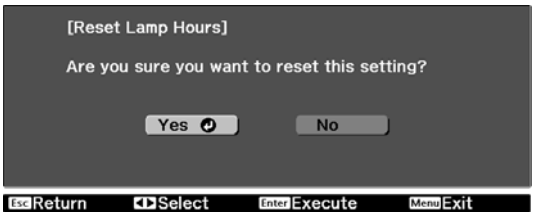
3 Select **Reset** - **Reset Lamp Hours**.

A reset confirmation message is displayed.



4 Use the ◀▶ buttons to select **Yes**, and then press the Enter button to execute.

The lamp hours are reset.



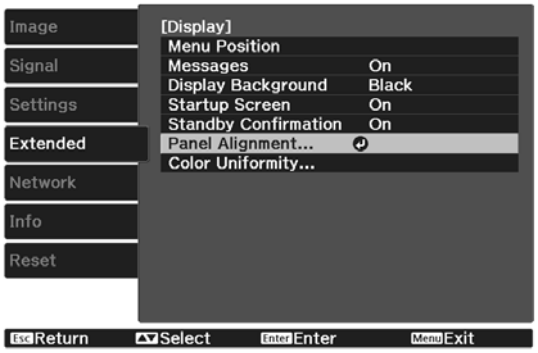
Panel Alignment

Adjusts the pixel color shift of the LCD display. You can adjust the pixels horizontally and vertically by 0.125 pixel within a range of ±3 pixel.

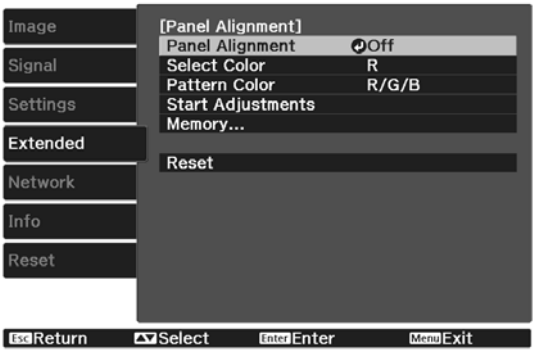
- Image quality may decline after performing LCD alignment.
- Images for pixels that extend beyond the edge of the projected screen are not displayed.

1 Press the Menu button while projecting, and then select **Display** from **Extended**.

2 Select **Panel Alignment**, and then press the Enter button.



3 Enable **Panel Alignment**.



(1) Select **Panel Alignment**, and then press the Enter button.

(2) Select **On**, and then press the Enter button.

(3) Press the Esc button to return to the previous screen.

4 Select the color you want to adjust.

(1) Select **Select Color**, and then press the Enter button.

(2) Select **R** (red) or **B** (blue), and then press the Enter button.

(3) Press the Esc button to return to the previous screen.

5 Select the grid color displayed when making adjustments from **Pattern Color**.

(1) Select **Pattern Color**, and then press the Enter button.

(2) Select a combination of R (red), G (green), and B (blue) for the grid color.

R/G/B: Displays a combination all three colors; red, green and blue. The actual color of the grid is white.

R/G: This is available when **R** is selected from **Select Color**. Displays a combination of two colors; red and green. The actual color of the grid is yellow.

G/B: This is available when **B** is selected from **Select Color**. Displays a combination of two colors; green and blue. The actual color of the grid is cyan.

(3) Press the Esc button to return to the previous screen.

6 Select **Start Adjustments**, and then press the Enter button.

First, select **Shift the whole panel** and adjust the entire LCD display. When a confirmation message is displayed, press the Enter button to start the adjustment.

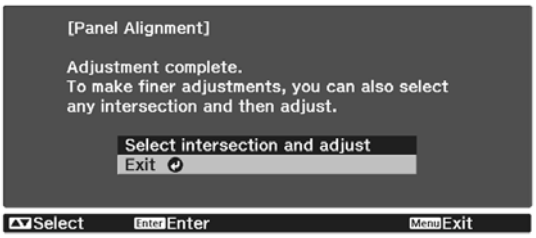
> The image may become distorted while adjusting. The image is restored once adjustments are complete.

7 Use the ▲▼◀▶ buttons to adjust and then press the Enter button.

8 To make more detailed adjustments, select the **Adjust the four corners** and then press the Enter button to confirm.

9 Use the ▲, ▼, ◀, and ▶ buttons to make adjustments, and then press the Enter button to move to the next adjustment point.

10 When you have adjusted all four corners, select **Exit**, and then press the Enter button.



If you feel you still need to make adjustments after correcting all four points, select **Select intersection and adjust** and then continue making adjustments.

Color Uniformity

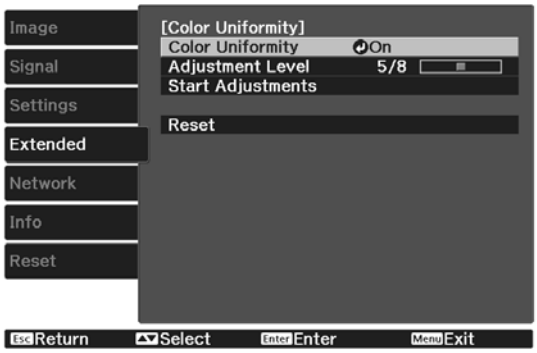
If colors in the projected image are uneven, you can adjust the color tone of the whole image in **Color Uniformity**.

> The color tone may not be uniform even after performing color uniformity.

1. Press the Menu button while projecting, and then select **Display** from **Extended**.

2. Select **Color Uniformity**, and then press the Enter button.

   The following screen is displayed.



   Color Uniformity: Turns color uniformity on or off.

   Adjustment Level: There are eight levels from white, through gray, and up to black. You can adjust each level individually.

   Start Adjustments: Starts making color uniformity adjustments.

   Reset: Resets all adjustments and settings for **Color Uniformity** to their default values.

   > The image may become distorted while adjusting **Color Uniformity**. The image is restored once adjustments are complete.

3. Select **Color Uniformity**, and then press the Enter button.

4. Set this to **On**, and then press the Esc button.

5. Select **Adjustment Level**, and then press the Enter button.

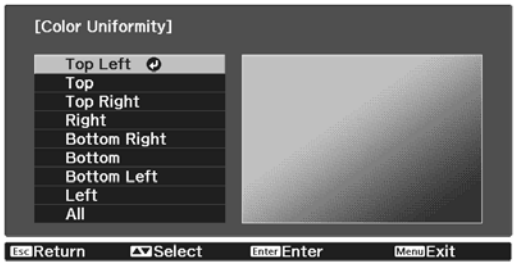
6. Use the ◀▶ buttons to set the adjustment level.

7. Press the Esc button to return to the previous screen.

8. Select **Start Adjustments**, and then press the Enter button.

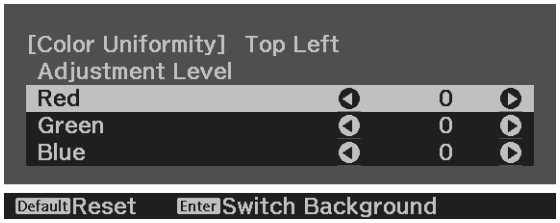
9. Select the area you want to adjust, and then press the Enter button.

   Adjust the outer areas first, and then adjust the whole screen.



10 Use the ▲▼ buttons to select the color you want to adjust, and then use the ◀▶ buttons to adjust.

Press the ◀ button to weaken the color tone. Press the ▶ button to strengthen the color tone.



11 Return to step 5 and adjust each level.

12 To complete the adjustment, press the Menu button.

About PJLink

PJLink was established by the JBMIA (Japan Business Machine and Information System Industries Association) as a standard protocol for controlling network-compatible projectors as part of their efforts to standardize projector control protocols.

This projector complies with the PJLink Class2 standard established by the JBMIA.

The port number used by the search function of PJLink is 4352 (UDP).

You need to make network settings before you can use PJLink. See the following for more information on network settings. ☛ p.82

It supports all commands defined by PJLink Class2 except for the following commands. The compliance is confirmed by the PJLink standard adaptability verification.

URL:http://pjlink.jbmia.or.jp/english/

- **Non-compatible commands**

Function		PJLink Command
Mute settings	Image muting set	AVMT 11
	Audio muting set	AVMT 21

- **Correspondence table for port name and source number**

Port name	Source number
PC	11
HDMI1	32
HDMI2	33
WirelessHD*	34
LAN	52

* EH-TW9400W/EH-TW8400W only

- Manufacturer name displayed for "Manufacture name information query"

  EPSON

- Model name displayed for "Product name information query"

  EPSON TW9400/PC6050UB
  EPSON TW9400W
  EPSON TW8400/HC5050UB
  EPSON TW8400W/HC5050UBe

Optional Accessories and Consumables

The following optional accessories/consumables are available for purchase if required. This list of optional accessories/consumables is current as of November 2018. Details of accessories are subject to change without notice.

Varies depending on country of purchase.

Optional Items

Name	Model No.	Explanation
Ceiling mount*	ELPMB22 ELPMB30	Use when installing the projector on a ceiling.
Ceiling pipe 450 (450 mm white)*	ELPFP13	Use when installing the projector on a high ceiling.
Ceiling pipe 700 (700 mm white)*	ELPFP14	
Cable cover	ELPCC05	Use this when installing the projector on a ceiling to cover the cables and improve the overall appearance. Do not attach the cable cover when the cable is secured with an HDMI cable clamp.
Computer cable (1.8 m)	ELPKC02	Use when projecting a computer's screen.
Computer cable (3.0 m)	ELPKC09	
Computer cable (20.0 m)	ELPKC10	
Wireless LAN unit	ELPAP10	Use when connecting an external device to the projector via a wireless LAN to project images.

* Special expertise is required to suspend the projector from a ceiling. Contact your local dealer.

Consumables

Name	Model No.	Explanation
Lamp unit	ELPLP89	Use as a replacement for used lamps. (1 lamp)
Air filter	ELPAF39	Use as a replacement for used air filters. (1 air filter)

Supported Resolutions

If the projector receives higher resolution signals than the resolution of the projector panel, the image quality may be degraded.

The projector supports signals marked with a check symbol.

PC

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI							
					RGB	RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
VGA	640	480	60	25.175	✓	✓							
SVGA	800	600	60	40.000	✓								
XGA	1024	768	60	65.000	✓								
WXGA	1280	768	60	79.500	✓								
	1280	800	60	83.500	✓								
	1366	768	60	85.500	✓								
WXGA++	1600	900	60	108.000	✓								
SXGA	1280	960	60	108.000	✓								
	1280	1024	60	108.000	✓								

SD

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI							
					RGB	RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
SDTV (480i)	720	480	59.94	13.500		✓	✓	✓	✓	✓	✓		
SDTV (576i)	720	576	50	13.500		✓	✓	✓	✓	✓	✓		
SDTV (480p)	720	480	59.94	27.000		✓	✓	✓	✓	✓	✓		
SDTV (576p)	720	576	50	27.000		✓	✓	✓	✓	✓	✓		

HD

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI							
					RGB	RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
HDTV (720p)	1280	720	50	74.250		✓	✓	✓	✓	✓	✓		
			59.94	74.176		✓	✓	✓	✓	✓	✓		
			60	74.250		✓	✓	✓	✓	✓	✓		
HDTV (1080i)	1920	1080	50	74.250		✓	✓	✓	✓	✓	✓		
			59.94	74.176		✓	✓	✓	✓	✓	✓		
			60	74.250		✓	✓	✓	✓	✓	✓		
HDTV (1080p)	1920	1080	23.98	74.176		✓	✓*2	✓	✓*2	✓	✓*2		
			24	74.250		✓	✓*2	✓	✓*2	✓	✓*2		
			29.97	74.176		✓	✓*2	✓	✓*2	✓	✓*2		
			30	74.250		✓	✓*2	✓	✓*2	✓	✓*2		
			50	148.500		✓	✓*1	✓	✓*1	✓	✓*1, 2		
			59.94	148.352		✓	✓*1	✓	✓*1	✓	✓*1, 2		
			60	148.500		✓	✓*1	✓	✓*1	✓	✓*1, 2		

*1 Signals from HDMI1/HDMI2 ports are supported. WirelessHD Transmitter supports pass-through only.

*2 HDR is supported. (For HDR, HDR10 and HLG are supported.)

4K

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	Computer/BNC	HDMI							
					RGB	RGB		YCbCr					
								4:4:4		4:2:2		4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
3840x2160	3840	2160	23.98	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			24	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			25	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			29.97	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			30	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			50	297.000								✓	✓*1, 2, 3
			59.94	296.703								✓	✓*1, 2, 3
			60	297.000								✓	✓*1, 2, 3
			50	594.000		✓*1		✓*1		✓*1	✓*1, 2		
			59.94	593.407		✓*1		✓*1		✓*1	✓*1, 2		
			60	594.000		✓*1		✓*1		✓*1	✓*1, 2		
4096x2160	4096	2160	23.98	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			24	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			25	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			29.97	296.703		✓	✓*2	✓	✓*2	✓	✓*2		
			30	297.000		✓	✓*2	✓	✓*2	✓	✓*2		
			50	297.000								✓	✓*1, 2, 3
			59.94	296.703								✓	✓*1, 2, 3
			60	297.000								✓	✓*1, 2, 3
			50	594.000		✓*1		✓*1		✓*1	✓*1, 2		
			59.94	593.407		✓*1		✓*1		✓*1	✓*1, 2		
			60	594.000		✓*1		✓*1		✓*1	✓*1, 2		

*1 Signals from HDMI1/HDMI2 ports are supported. WirelessHD Transmitter supports pass-through only.

*2 HDR is supported. (For HDR, HDR10 and HLG are supported.)

*3 Signals from HDMI1/HDMI2 ports are supported. Signals from WirelessHD Transmitter are converted from 4:2:0 to 4:2:2.

3D

Signal Format	Resolution (Dots)		V Sync (Hz)	Dotclk (MHz)	3D Format	HDMI							
						RGB		YCbCr 4:4:4		YCbCr 4:2:2		YCbCr 4:2:0	
						8	10,12	8	10,12	8	10,12	8	10,12
HDTV (720p)	1280	720	60	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (720p)	1280	720	59.94	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (720p)	1280	720	50	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (1080i)	1920	1080	60	148.500	Frame Packing								
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom								
HDTV (1080i)	1920	1080	59.94	148.500	Frame Packing								
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom								
HDTV (1080i)	1920	1080	50	148.500	Frame Packing								
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom								
HDTV (1080p)	1920	1080	24	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (1080p)	1920	1080	23.98	148.500	Frame Packing	✓	✓*1	✓	✓*1	✓	✓*1		
				74.250	Side by Side	✓	✓	✓	✓	✓	✓		
				74.250	Top and Bottom	✓	✓	✓	✓	✓	✓		
HDTV (1080p)	1920	1080	60	297.000	Frame Packing								
				148.500	Side by Side	✓	✓*1	✓	✓*1	✓	✓*1		
				148.500	Top and Bottom								
HDTV (1080p)	1920	1080	59.94	297.000	Frame Packing								
				148.500	Side by Side	✓	✓*1	✓	✓*1	✓	✓*1		
				148.500	Top and Bottom								
HDTV (1080p)	1920	1080	50	297.000	Frame Packing								
				148.500	Side by Side	✓	✓*1	✓	✓*1	✓	✓*1		
				148.500	Top and Bottom								

*1 Signals from HDMI1/HDMI2 ports are supported. WirelessHD Transmitter supports pass-through only.

3D Input Signals MHL (via a WirelessHD Transmitter*)

Signal	Refresh Rate (Hz)	Resolution (dots)	3D Format		
			Frame Packing	Side by Side	Top and Bottom
HDTV (720p)	50/60	1280 x 720	-	✓	✓
HDTV (1080i)	50/60	1920 x 1080	-	✓	-
HDTV (1080p)	50/60	1920 x 1080	-	-	-
HDTV (1080p)	24	1920 x 1080	-	✓	✓

* HDMI4 port only

WirelessHD Input Signal MHL*

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480i)	60	720 x 480
SDTV (576i)	50	720 x 576
SDTV (480p)	60	720 x 480
SDTV (576p)	50	720 x 576
HDTV (720p)	50/60	1280 x 720
HDTV (1080i)	50/60	1920 x 1080
HDTV (1080p)	24/30/50/60	1920 x 1080
4K x 2K	24/25/30	3840 x 2160

* HDMI4 port only

Specifications

Product name		EH-TW9400W/EH-TW9400/EH-TW8400W/EH-TW8400
Appearance		520 (W) x 170 (H) x 450 (D) mm (not including adjustable foot)
Panel Size		0.74" wide
Display method		Polysilicon TFT active matrix
Resolution		1920 (W) x 1080 (H) x 3
Focus adjustment		Motorized
Zoom adjustment		Motorized (Approx. 1 to -2.1)
Lamp (light source)		UHE lamp 250 W, Model No.: ELPLP89
Lamp replacement time		3400 hours
Power supply		100 - 240 V AC ±10%, 50/60 Hz, 3.8 - 1.7 A
Power consumption	100 to 120 V area	Rated power consumption: 373 W
		Standby power consumption (Communication On): 2.0 W
		Standby power consumption (Communication Off): 0.3 W
	220 to 240 V area	Rated power consumption: 355 W
		Standby power consumption (Communication On): 2.0 W
		Standby power consumption (Communication Off): 0.3 W
Operating altitude		Altitude 0 to 3048 m
Operating temperature		+5 to +35°C (No condensation) (at an altitude of 0 to 2286 m) +5 to +30°C (No condensation) (at an altitude of 2287 to 3048 m)
Storage temperature		-10 to +60°C (No condensation)
Mass		Approx. 11 kg

The rating label is attached on the bottom of the projector.

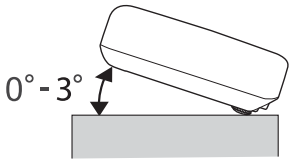
Connectors	PC port	1	Mini D-Sub15-pin (female) blue
	HDMI port	2	HDMI HDCP2.2 supported,CEC signals supported, 3D signals supported, Deep Color
	RS-232C port	1	Mini D-Sub 9-pin (male)
	Trigger Out port	1	Stereo mini jack (3.5Φ)
	LAN port	1	RJ-45
	Service port*	1	USB connector (Type B)
	USB-A port *	1	USB connector (Type A)
	USB port (for Opt.HDMI power supply)*	1	

* Supports USB 2.0. However, USB ports are not guaranteed to operate all devices that support USB.

This product is also designed for IT power distribution system with phase-to-phase voltage 230V.

Angle of tilt

If you use the projector tilted at an angle of more than 3°, the projector could be damaged or it may lead to an accident.



Supplier's DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or

CPU Boards and Power Supplies used with Class B Personal Computers

We:	Epson America, Inc.
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Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.906. 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.

Trade Name:	EPSON
Type of Product:	LCD Projector
Model:	H928C/H929C/H930C/H931C

FCC Compliance Statement

For United States Users

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.

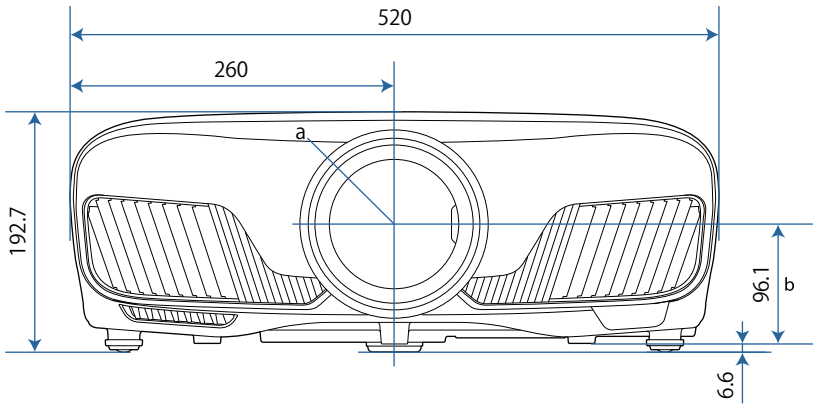
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

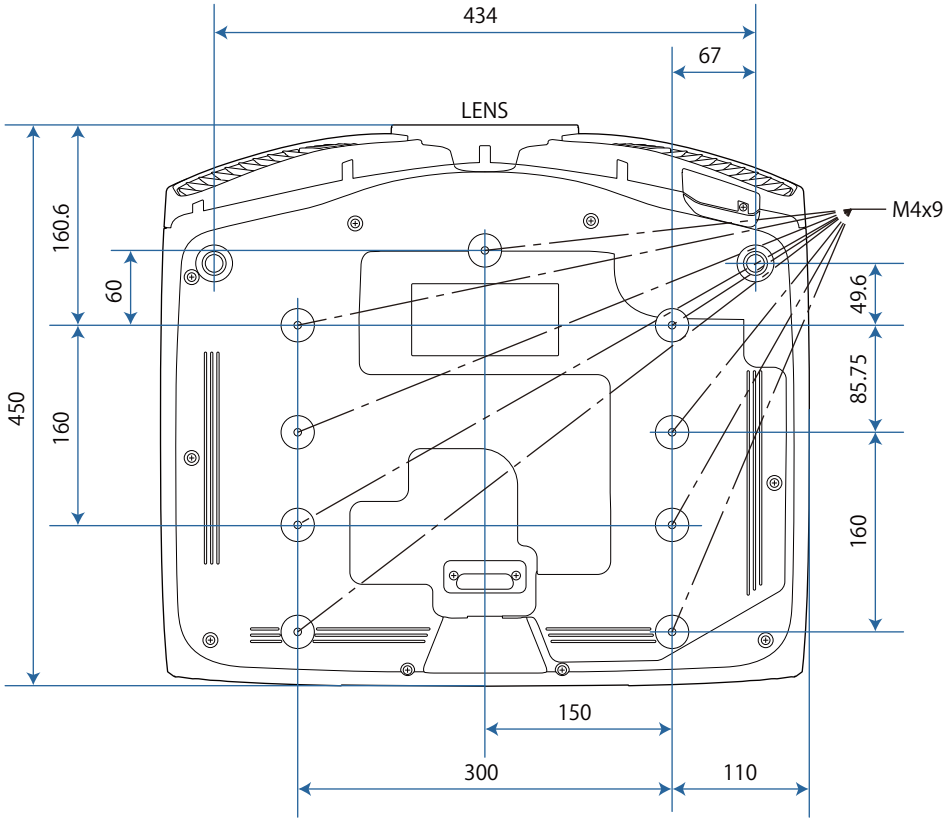
Appearance

Units: mm



a Center of lens

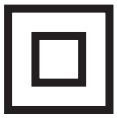
b Distance from center of lens to suspension bracket fixing point



List of Safety Symbols

The following table lists the meaning of the safety symbols labeled on the equipment.

Symbol mark	Approved standards	Meaning
	IEC60417 No. 5007	"ON" (power) To indicate connection to the mains.
	IEC60417 No. 5008	"OFF" (power) To indicate disconnection from the mains.
	IEC60417 No. 5009	Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
	ISO7000 No. 0434B IEC3864-B3.1	Caution To identify general caution when using the product.
	IEC60417 No. 5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
	IEC60417 No. 6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
	IEC60417 No. 5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
	IEC60417 No. 5926	Polarity of d.c. power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a d.c. power supply may be connected.
	---	
	IEC60417 No. 5001B	Battery, general On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
	IEC60417 No. 5002	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
	---	
	IEC60417 No. 5019	Protective earth To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
	IEC60417 No. 5017	Earth To identify an earth (ground) terminal in cases where neither the symbol  is explicitly required.

Symbol mark	Approved standards	Meaning
	IEC60417 No. 5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
	IEC60417 No. 5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
	IEC60417 No. 5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
	ISO 3864	General prohibition To identify actions or operations that are prohibited.
	ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
	---	Never look into the projection lens while the projector is on.
	---	To indicate that the marked item don't place anything on projector.
	ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.
	ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
	IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
	ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.
	IEC 60417-6056	Caution (movable fan blades) To indicate that you must keep away from the blades of the movable fan according to protection standards.
	IEC 60417-6043	Caution (sharp corners) To indicate that you must not touch the sharp corners of the product according to protection standards.
	--	Never look into the projection lens while the projector is on.

Glossary

This section briefly explains the difficult terms that are not explained in context in the text of this guide. For details, refer to other commercially available publications.

Aspect Ratio	The ratio between an image's length and its height. Screens with a horizontal:vertical ratio of 16:9, such as HDTV screens, are known as wide screens. SDTV and general computer displays have an aspect ratio of 4:3.
HDCP	HDCP is an abbreviation for High-bandwidth Digital Content Protection. It is used to prevent illegal copying and protect copyrights by encrypting digital signals sent over DVI and HDMI ports. Because the HDMI port on this projector supports HDCP, it can project digital images protected by HDCP technology. However, the projector may not be able to project images protected with updated or revised versions of HDCP encryption.
HDMI™	An abbreviation for High Definition Multimedia Interface. This is the standard by which HD images and multichannel audio signals are digitally transmitted. HDMI™ is a standard aimed at digital consumer electronics and computers. By not compressing the digital signal, the image can be transferred at the highest quality possible. It also provides an encryption function for the digital signal.
HDTV	An abbreviation for High-Definition Television. This refers to high-definition systems which satisfy the following conditions. • Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace) • Screen aspect of 16:9 Dolby Digital audio reception and playback (or output)
Interlace	Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom. Images are more likely to flicker because one frame is displayed every other line.
MHL	An abbreviation for Mobile High-definition Link, which is a standard high-definition interface that enables high-speed transfer of video signals on mobile devices. It is a standard targeting smartphones and tablets that transfers uncompressed digital signals without loss of quality and also enables simultaneous charging of such devices.
Pairing	Register devices in advance when connecting with Bluetooth devices to ensure mutual communication.
SDTV	An abbreviation for Standard Definition Television. This refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.
SVGA	A screen size standard with a resolution of 800 (horizontal) x 600 (vertical) dots.
SXGA	A screen size standard with a resolution of 1,280 (horizontal) x 1,024 (vertical) dots.
VGA	A screen size standard with a resolution of 640 (horizontal) x 480 (vertical) dots.
XGA	A screen size standard with a resolution of 1,024 (horizontal) x 768 (vertical) dots.
YCbCr	In component image signals for SDTV, Y is the brightness, while Cb and Cr indicate the color difference.
YPbPr	In component image signals for HDTV, Y is the brightness, while Pb and Pr indicate the color difference.

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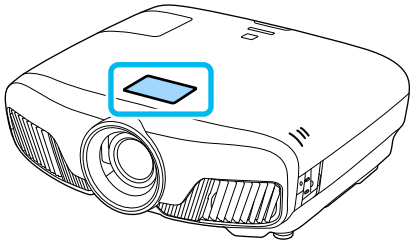
Restriction of Use

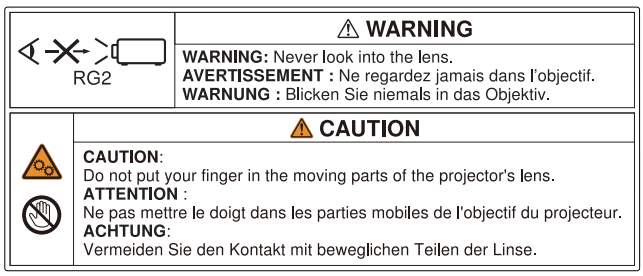
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Warning Labels

Warning

- This product comes with warning labels.







- As with any bright source, do not stare into the beam, RG2 IEC/EN 62471-5:2015.

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Indication of the manufacturer and the importer in accordance with requirements of directive 2011/65/EU (RoHS)

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