





User's Guide

# EH-TW5825 EH-TW5705

Home Projector

Projector models sold vary by region or country.

# 💽 Using Each Guide

The guides for this projector are organized as shown below.

#### Safety Instructions

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.

#### 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 and avoid injury to persons or property.

The following shows the symbols and their meanings. Make sure that you understand these caution symbols before reading this guide.

# 🛕 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.
( <b>F</b>	Indicates a page where detailed information regarding a topic can be found.
Menu Name	Indicates Configuration menu items.
	Example: Image - Color Mode
[Hardware	Indicates the buttons on the remote control or the control panel.
Names]	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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## Equipped with High-quality Image Resolution Optimized for Full HD

You can project clear images that are rich in texture by using the noise reduction and detail enhancement features.
 p.34

## New Gaming Features that will Change the Way You Enjoy Games

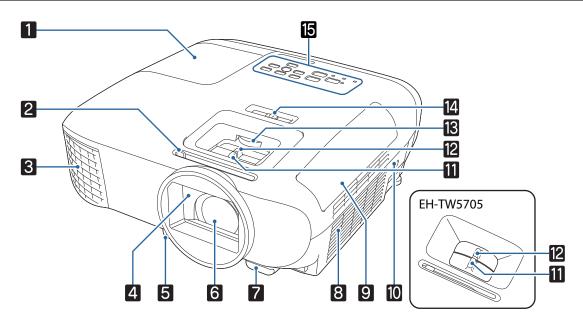
- With 21:9 input support, you can display game content to the full horizontal width of your screen.
- The Dark Gamma Uplift feature allows you to adjust dark areas for greater visibility. 🖝 p.38

## Genuine Living Room Theater Experience

- The built-in Android TV<sup>TM</sup> allows you to easily start viewing content by connecting to the Internet.
- Speaker enclosures allow you to enjoy realistic audio.

# Part Names and Functions

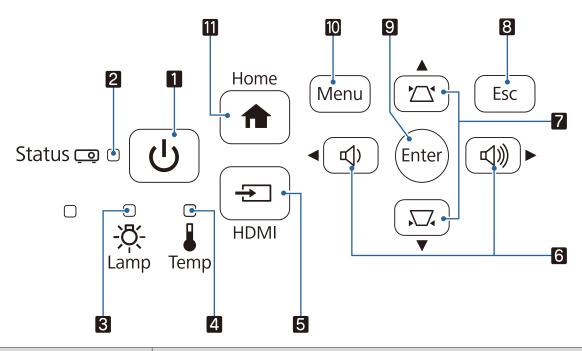
# Front/Top



	Name	Function
1	Lamp cover	Open when replacing the projector's lamp. 🖝 p.65
2	A/V mute slide lever	Slide the knob to open and close the lens cover.
		By closing during projection you can hide the image and audio.    p.31
3	Air exhaust vent	Exhaust vent for air used to cool the projector internally.
		Warning
		Do not look into the air exhaust vent. If the lamp explodes, scattered small shards of glass and released gas may cause an injury. If any glass gets into your eyes or mouth, contact your local physicians immediately.
		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, warp- ing, or accidents to occur.
4	Lens cover	Close when not using the projector to protect the lens from being scratched or soiled.   p.25
5	Foot release lever	Press the foot release lever to extend and retract the front adjustable foot. p.26
6	Lens	Images are projected from here.
7	Remote receiver	Receives signals from the remote control. 🖝 p.23
8	Air intake vent	Intake vent for air used to cool the projector internally.

	Name	Function
9	Air filter cover	When replacing the air filter, open this cover and remove the air filter. $\bigcirc$ p.65
10	Security slot ( 🛱 )	The security slot compatible with the MicroSaver security system manufac- tured by Kensington. For more details, visit the homepage of Kensington at http://www.kensington.com/.
0	Focus adjuster (EH- TW5825)	Adjusts the image focus. 🖝 p.26
	Focus ring (EH-TW5705)	
12	Zoom adjuster (EH- TW5825)	Adjusts the image size. 🖝 p.26
	Zoom ring (EH-TW5705)	
13	Lens shift dial (EH- TW5825 only)	Moves the position of the image vertically. 🖝 p.27
14	Horizontal keystone ad- juster	Performs horizontal keystone correction.    p.28
15	Control panel	Operates the projector. 🖝 p.7

Control Panel

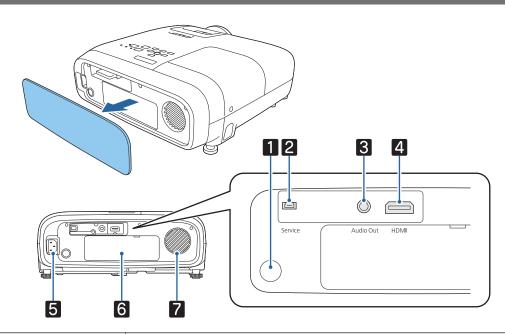


Name		Function		
1	Standby button (Standby indicator)	Turns the projector on or off. $\bigcirc$ p.24 Shows the projector's status through a combination of other indicators lit and flashing. $\bigcirc$ p.53		
2	Status indicator	Flashes blue to indicate the projector is warming up or cooling down. Shows the projector's status through a combination of other indicators lit and flashing. p.51		
3	Lamp indicator	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.51		

	Name	Function
4	Temperature indicator	Flashes orange if the internal temperature is too high. Shows the projector's errors through a combination of other indicators lit and flashing. (* p.51
5	[HDMI] button	Changes to the image from the HDMI port. 🖝 p.25
6	Volume (Left/Right) buttons	<ul> <li>Adjusts the volume.  p.31</li> <li>Selects menu items or adjustment values while displaying the projector's menu.</li> <li>Performs horizontal keystone correction when the Keystone screen is displayed.</li> <li>p.28</li> </ul>
7	Keystone (Up/Down) buttons	<ul> <li>Adjusts keystone distortion in projected images. p.28</li> <li>Selects menu items or adjustment values while displaying the projector's menu.</li> </ul>
8	[Esc] button	Returns to the previous menu level when a menu is displayed. 🖝 p.44
9	[Enter] button	Selects functions and settings when a menu is displayed. 🖝 p.44
10	[Menu] button	Displays and closes the Configuration menu. On the Configuration menu, you can make adjustments and settings for Sig- nal, Image, Input Signal, and so on. 🖝 p.44
11	[Home] button	Switches to the image from Android TV.

When the Illumination function is set to **Off**, all indicators are off under normal projection conditions. **Extended - Operation - Illumination** p.49

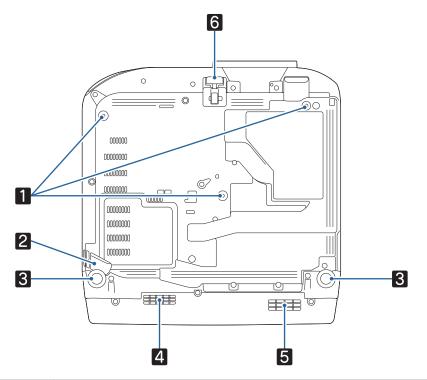
### Rear



	Name	Function
1	Remote receiver	Receives signals from the remote control. 🖝 p.23
2	Service port	Service port. This is not normally used.
3	Audio Out port	Outputs audio during playback to external speakers. 🖝 p.21
4	HDMI port	Connects HDMI compatible video equipment and computers. 🖝 p.19
5	Power inlet	Connects a power cord. 🖝 p.24

Name		Function		
6	Storage space cover	Remove the cover when connecting or removing a streaming media player. p.69		
7	Speaker	The projector's built-in speaker. Outputs audio.		

# Base

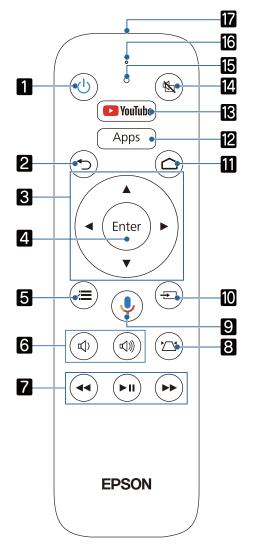


	Name	Function			
1	Ceiling mount fixing points (three points)	Attach the optional ceiling mount here when suspending the projector from a ceiling.   p.70			
2	Security cable sec- tion	Secure a commercially available anti-theft wire lock through this section. You can also attach a safety wire to prevent the projector from falling.			
3	Rear feet	When setting up on a surface such as a table, extend the feet to adjust horizontal tilt.  p.27			
4	Air exhaust vent	Air exhaust vent to cool the streaming media player.			
5	Air intake vent	Takes in air to cool the streaming media player.			
6	Front adjustable foot	When setting up on a surface such as a table, extend the foot to adjust the height of the image. ( p.27			

# **Remote Control**

#### Projector remote control

Remote control for operating the projector and Android TV<sup>TM</sup>. Unless stated otherwise, this guide describes operations for the projector remote control.

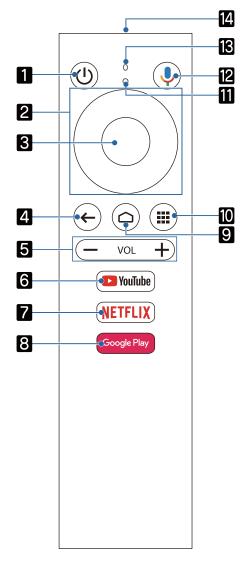


	Name	Function
1	Standby button	Turns the projector on or off. 🖝 p.24
2	Esc button	Closes the current function. Press when a menu is displayed to return to the previous menu level.  p.44
3	Up/Down/Left/Right buttons	Selects menu items and adjustment values. 🖝 p.44
4	[Enter] button	When a menu is displayed, it confirms the current item and moves to the next level.  p.44
5	Menu button	Displays and closes the Configuration menu. On the Configuration menu, you can make adjustments and settings for Signal, Image, and so on. 🖝 p.44
6	Volume buttons	Adjusts the volume. 🖝 p.31
7	Playback control but- tons	Operates Android TV and video devices compliant with the HDMI CEC standard. • p.42

	Name	Function
8	Keystone button	Corrects distortion in the image. 🖝 p.28
9	Google Assistant button	Use your voice to search for shows, control your TV, plan your day, and more. Just ask Google.
10	Source button	Changes to the image from each input port.
11	Home button	Displays or closes the Android TV home screen.
12	Apps button	Displays a list of apps for Android TV.
13	YouTube button	Opens the YouTube app.
14	A/V Mute button	Temporarily hides or shows the image and audio. 🖝 p.31
15	Indicator	Turns on while operating the remote control.
16	Microphone section	Speak into the microphone section after pressing the Google Assistant button to talk to Google.
17	Remote control light emitting area	Outputs remote control signals.

#### Remote control for Android TV

Remote control for operating Android TV.



	Name	Function
1	Standby button	Turns Android TV on or off.
2	Up/Down/Left/Right buttons	Selects the Android TV menu items.
3	Enter button	Confirms the current Android TV menu item and moves to the next level.
4	Esc button	Press while Android TV is displayed to return to the previous menu level.
5	Volume buttons	Adjusts the volume for Android TV.
6	YouTube button	Opens the YouTube app.
7	Netflix button	Opens the Netflix app. Membership registration is required to view content on Netflix.
8	Google Play button	Connects to Google Play. Log into your Google account to download apps on Google Play.
9	Home button	Displays the Android TV home screen.
10	Apps button	Displays a list of apps for Android TV.
11	Indicator	Turns on while operating the remote control.
12	Google Assistant button	Use your voice to jump to shows, control devices, and more - just ask Google.
13	Microphone section	This detects voice commands when you press the Mic button.
14	Remote control light emitting area	Outputs remote control signals.

**WWW** 

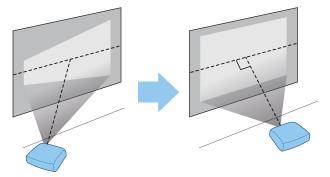


## Projected Image and Position of Projector

Install the projector as follows.

instanting in paramet mith the selection		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 parallel, use one of the following methods to adjust the projected image.

• Correct distortion in the image using the horizontal keystone adjuster or H/V-Keystone 🖝 p.28

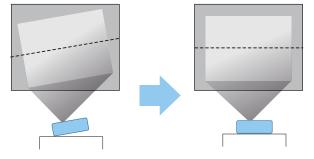
• Adjust the position of the projected image using lens shift (EH-TW5825 only )  $\bigcirc$  p.27

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 rear feet. 🖝 p.27



#### Various Setting Methods

# \Lambda 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.
- Failure to install the ceiling mount and projector may cause the projector to fall. Be sure to use the specific Epson mount that supports this projector, and secure it to all of the projector's ceiling mount fixing points. Also, make sure you secure the projector and the mount using wire and so on that is strong enough to hold their weight.
- Do not apply adhesives, oils, lubricants, detergents, solvents, chemicals, and so on to the projector case or the mount. Otherwise, the projector case may deteriorate or be damaged causing the projector to fall from the mount.
- Do not set up the projector in locations exposed to humidity or dust, or in locations exposed to oil smoke or steam such as on a kitchen counter, in the kitchen, or near a humidifier. 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.

#### Examples of environments that could cause the projector to fall due to case deterioration/damage

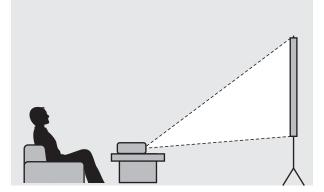
- Locations subject to oily smoke, such as factories, restaurant kitchens, or home kitchens
- Locations containing volatile solvents or chemicals, such as factories or laboratories
- Locations where oil, detergents, chemicals, and so on could adhere to the projector such as factories, restaurant kitchens, or home kitchens
- Locations in which aroma oils are often used, such as relaxation rooms
- Locations near devices that produce excessive smoke, airborne oil particles, or foam at events
- Do not install in locations where salt damage could occur, or in locations subject to corrosive gas such as sulphuric gas from hot springs. Otherwise, corrosion could cause the projector to fall. It could also cause the projector to malfunction.
- 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 the projector in a high position such as on a shelf, take measures against falling by using wires or belts to ensure safety in an emergency such as an earthquake, and to 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.
- Do not use or store the projector in dusty or dirty locations. Doing so could cause the quality of the projected image to deteriorate, or the air filter to become clogged with dust which can cause malfunctions or a fire to occur.

## Attention

- Do not project under the following conditions. Doing so could cause a malfunction or accident to occur.
  - Do not project by standing the projector vertically
  - Do not project from above or below
  - Do not project by tilting to the left or right
- Clean the air filter once every three months. Clean it more often if the environment is particularly dusty.
   p.62

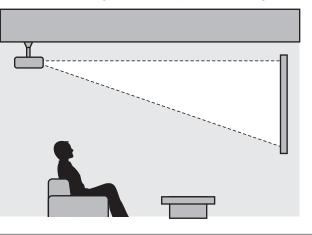
#### Placing on a table and projecting

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.



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When suspending from the ceiling and projecting, set **Projection** to **Front/Ceiling** or **Rear/ Ceiling**. **• Extended** - **Projection** p.49 

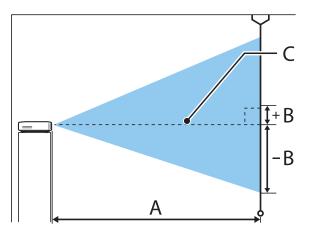
## Projection Distance and Lens Shift Maximum Values

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.



- A : Projection distance from the projector to the screen
- B : Height from the center of the lens to the bottom edge of the projected image
- C : Center of the lens

#### EH-TW5825

Unit: cm

16:9 Screen Size		Projection distance (A)		Lens shift maximum values (B)	
		Minimum (Wide)	Maximum (Tele)	Highest	Lowest
60"	133 x 75	176	286	-4	+7
80"	177 x 100	235	382	-5	+10
100"	221 x 125	295	478	-6	+12
120"	266 x 149	354	575	-7	+15
150"	332 x 187	443	719	-9	+19
200"	443 x 249	591	959	-12	+25
250"	553 x 311	740	1200	-16	+31
300"	664 x 374	888	1441	-19	+37

# EH-TW5705

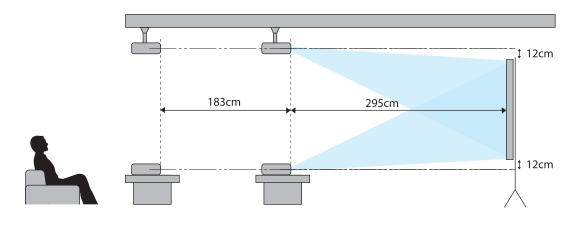
# Unit: cm

16:9 Scr	een Size		4	В*
		Minimum (Wide)	Maximum (Tele)	
60"	133 x 75	162	195	-5
80"	177 x 100	217	261	-7
100"	221 x 125	272	327	-8
150"	332 x 187	410	492	-12
200"	443 x 249	547	658	-16
250"	553 x 311	685	823	-20
332"	735 x 413	911	1094	-27

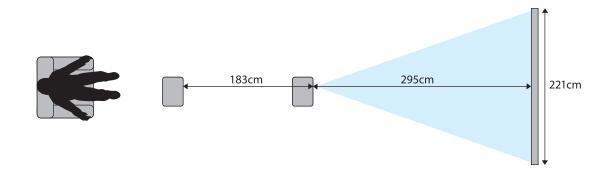
\* Lens shift is not supported.

Installation example (with 16:9 screen size, 100", and the EH-TW5825)

#### Side view



Overhead view





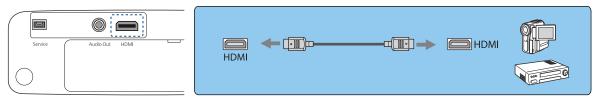
#### Attention

**WWW** 

- 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.

#### **Connecting Video Equipment**

To project images from DVD/Blu-ray players, connect to the projector using an HDMI cable (commercially available).



You can also connect your AV system to enjoy the audio from connected equipment.

#### **Connecting a Computer**

To project images from a computer, connect to the projector using an HDMI cable (commercially available).

Service Audio Out HDMI	

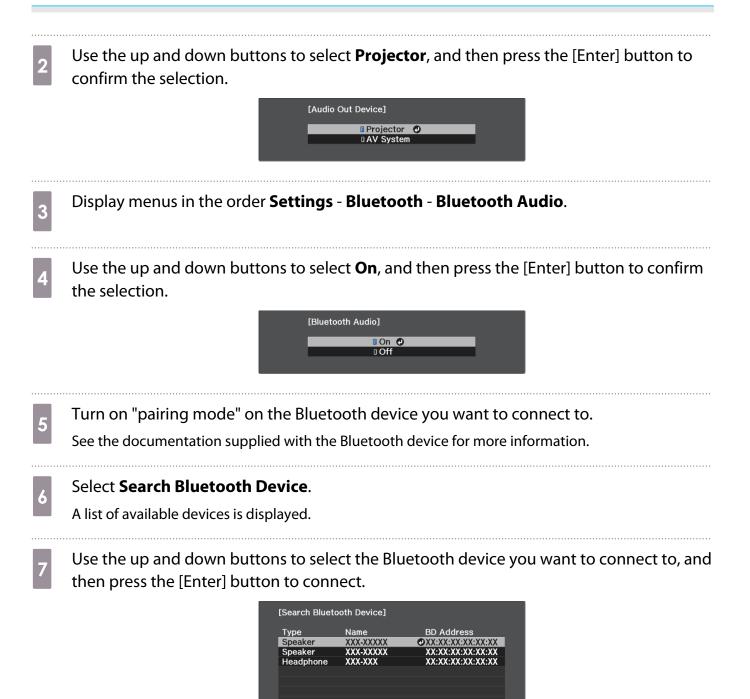
#### **Connecting External Equipment**

## Connecting Bluetooth<sup>®</sup> devices

By connecting a Bluetooth-compatible audio device, you can output audio from streaming media players or video devices.



Press the [Menu] button to display menus in the order **Settings** - **HDMI Link** - **Audio Out Device**.



The next time you turn on the projector, it automatically connects to the last device it connected to. To change the connected device, repeat the procedure from step 5.

#### **Bluetooth specifications**

Version	Bluetooth Ver. 3.0
Output	Class 2
Communication dis- tance	Approx. 10 m
Supported profiles	A2DP
Content protection	SCMS-T

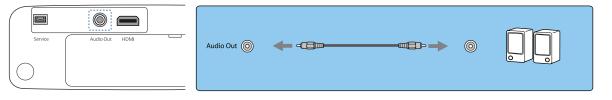
Frequency used	2.4 GHz band (2.402 to 2.480 GHz)
Supported codecs	SBC, Qualcomm <sup>®</sup> aptX <sup>™</sup> audio

# 🚹 Warning

- Electromagnetic interference may cause medical equipment to malfunction. Before using the device, make sure there is no medical equipment in the vicinity.
- Electromagnetic interference may cause automatically controlled equipment to malfunction which could cause an accident. Do not use the device near automatically controlled equipment such as automatic doors or fire alarms.
  - Connect a Bluetooth device that supports copyright protection (SCMS-T).
  - You may not be able to connect depending on the standard and type of device.
  - Even when connecting within the specified communication distance, connections can be lost due to the status of the signal.
  - The communication method for Bluetooth uses the same frequency (2.4 GHz) as wireless LAN (IEEE802.11b/g) or microwave ovens. Therefore, if these devices are used at the same time, radio wave interference may occur, the image and audio may be interrupted, or communication may not be possible. If you do need to use these devices at the same time, make sure there is enough distance between them and the Bluetooth device.
  - You cannot connect multiple Bluetooth devices to the projector at the same time.
  - There is a delay in the audio output from any Bluetooth audio devices.

#### Connecting external speakers

To output audio from external speakers, connect the speakers to the projector's Audio Out port with a commercially available audio cable.



- To output audio from external speakers, set Audio Out Device to Projector. Settings HDMI
   Link Audio Out Device p.46
  - When an AV system is not connected to the projector, audio is output from the external speakers, even if **Audio Out Device** is set to **AV System**.

# Preparing the Remote Control

# Installing the Remote Control Batteries

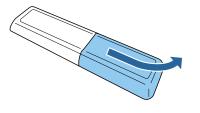
#### Attention

- 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 AAA size manganese or alkaline.



Remove the battery cover.

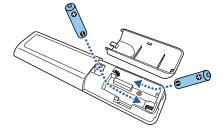
While pushing the battery compartment cover catch, lift the cover up.



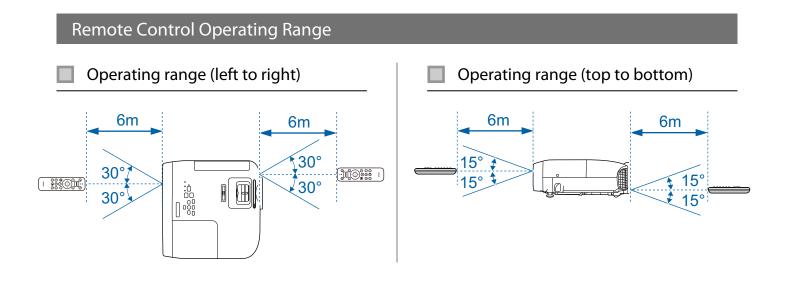
2

Replace the old batteries with new batteries.

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



- 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. Replace with two new batteries (AAA size manganese or alkaline batteries).
  You need to pair (connect) the
  - Fou need to pair (connect) the projector's remote control to the Android TV to operate it with the remote control. To perform pairing, follow the on-screen instructions and hold down the home button and the [Enter] button on the remote control at the same time for approximately three seconds.
    - - The remote control indicator flashes while pairing.





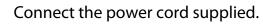
### Turning On the Projector



2

3

# Connect the equipment to the projector.



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

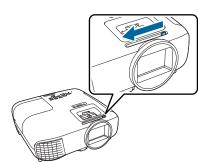
Remote control

Control panel

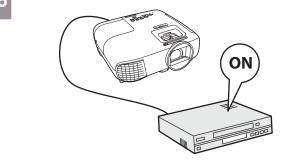
The projector's status indicator flashes blue as the projector warms up. Once the projector is warmed up, the standby indicator and the status indicator turn blue.

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.49

#### Open the lens cover.



5 Turn on the connected equipment.



# 🕂 Warning

- Do not use the projector in locations where flammable or explosive gases such as those used in air dusters or insecticides may be present in the atmosphere. If flammable sprays have been used around the projector, be sure to ventilate the area thoroughly before turning on the projector.
- 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.
- Do not block the light from the projector with a book and so on during projection. Blocking the light from the projector may cause the item exposed to the light to become hot and melt, or cause burns or a fire to occur. Also, when light is reflected back into the projector, it can cause the lens to become hot and a malfunction to occur. If you need to stop projecting, use A/V Mute or turn off the projector.

- 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.46
  - When using at an altitude of 1500 m or more, set **High Altitude Mode** to **On**. **Carter Extended Operation High Altitude Mode** p.49

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 source button and select the target port.

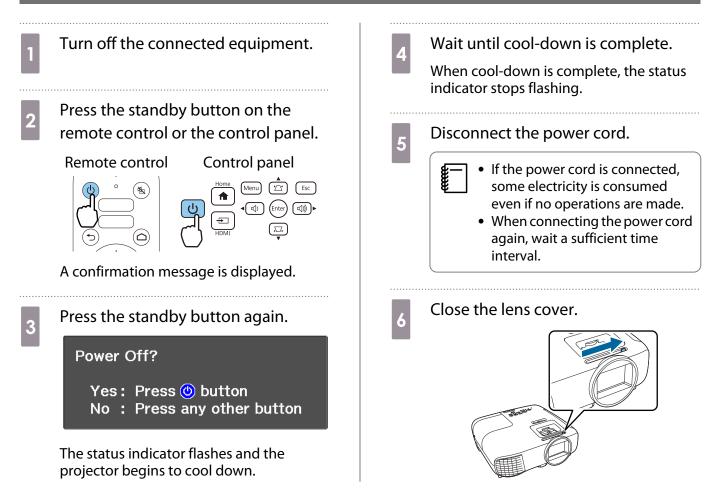
#### **Control panel**

Press the [Home] button to switch to the image from Android TV.

Press the [HDMI] button to switch to the image from the HDMI port.



## **Turning Off**



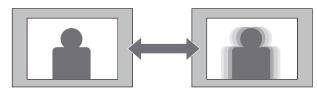
**W** 

# Adjusting the Projected Image

Since images are unstable immediately after the projector is turned on, before you make focus, zoom, or lens shift settings, we recommend waiting 30 minutes or more after starting to project the images.

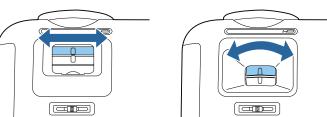
## Adjusting the Focus

Adjust the focus using the focus adjuster or the focus ring.



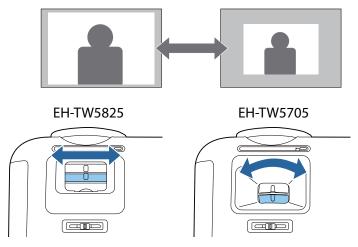
EH-TW5705

EH-TW5825



## Adjusting the Projection Size (Adjust Zoom)

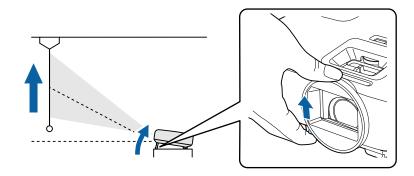
Adjust the size of the projected image using the zoom adjuster or the zoom ring.



# Adjust the Height of the Image

Press the foot release lever to extend the front adjustable foot. You can tilt the projector up to 11° to adjust image height.

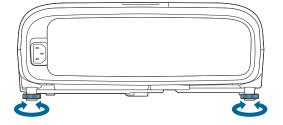
*Rest* 



It becomes more difficult to focus the higher the tilt angle is. Use a moderate tilt angle.

## Adjusting the Projector's Tilt

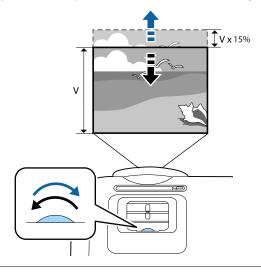
If the projected image is horizontally tilted (the left and right sides of the projected image are at different heights) when the projector is setup on a table, adjust the rear feet so that both sides are level with each other.



# Adjusting the Position of the Image (Lens Shift)(EH-TW5825 Only)

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

Turn the lens shift dial on the projector to adjust the position of the image.



- When using lens shift to adjust the position of the image, adjust the image by moving it upward.
- When adjusting the projection position using the lens shift, you are recommended to install the projector in parallel with the screen.

**\*\*** 

#### Correcting Keystone Distortion

Correct automatically	Auto V-Keystone	Automatically correct vertical keystone distortion.
Correct manually	H-Keystone Adjuster	Correct horizontal keystone distortion with the horizontal keystone adjuster.
	H/V-Keystone	Manually correct distortion in the horizontal and vertical di- rections independently.
	Quick Corner	Adjust the four corners of the projected image individually.

You can correct keystone distortion using one of the following methods.

- The projected image becomes smaller after correcting distortion. Increase the projection distance to fit the projected image to the screen size.
  - Install the projector parallel with the screen without any loss in image quality. If you cannot install the projector parallel to the screen, adjust the shape of the image using H/V-Keystone correction.
  - When correcting distortion, rotate the lens shift dial to adjust the lens position to the top edge. If the lens position is incorrect, the projection screen may be warped (EH-TW5825 only).

#### Correct automatically (Auto V-Keystone)

When the projector detects that it is tilted during projection, Auto V-Keystone automatically corrects any vertical keystone distortion. Two seconds after the projector is tilted, it displays an adjustment screen and then automatically corrects the projected image.

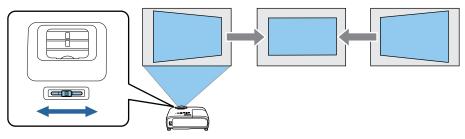
Auto V-Keystone can correct the projected image distortion in these conditions:

- Projection angle is less than 30° up or down.
- Projection is set to Front. Factor Projection p.49

If you do not want to use the Auto V-Keystone function, set **Auto V-Keystone** to **Off.** Settings - Keystone - H/V-Keystone - Auto V-Keystone p.46

#### Correct manually (H-Keystone Adjuster)

Move the horizontal keystone adjuster to the right or left to perform horizontal keystone correction.



When Keystone is set to Quick Corner, the H-Keystone Adjuster does not function. Set it to H/V-Keystone. Settings - Keystone p.46

• You can correct images up to 30° left or right.

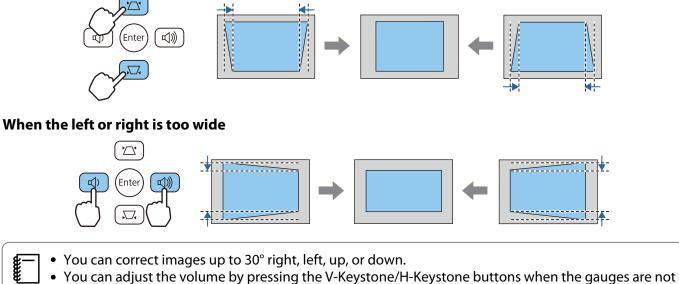
#### Correct manually (H/V-Keystone)

You can use the up/down/left/right buttons on the control panel to correct vertical and horizontal keystone distortion.

Press the up or down button to display the V-Keystone/H-Keystone gauges.

When the gauges are displayed, press the up and down buttons to perform vertical correction, and press the left and right buttons to perform horizontal correction.

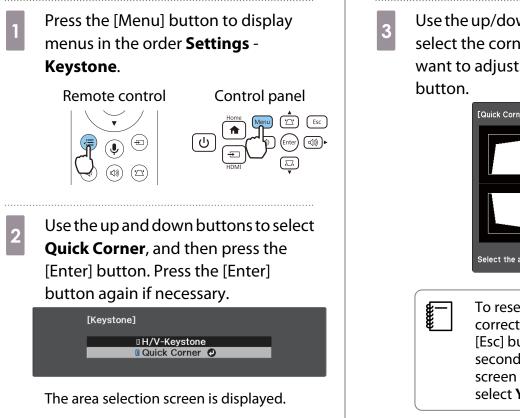
#### When the top or bottom is too wide



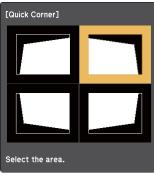
- You can adjust the volume by pressing the V-Keystone/H-Keystone buttons when the gauges are not displayed. 
   p.31
- You can also set H/V-Keystone from the Configuration menu. Settings Keystone H/V-Keystone V-Keystone/H-Keystone p.46

#### Correct manually (Quick Corner)

You can use the projector's Quick Corner setting to correct the shape and size of an image that is unevenly rectangular.



Use the up/down/left/right buttons to select the corner of the image you want to adjust. Then press the [Enter] button.

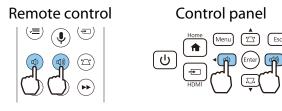


To reset the Quick Corner corrections, hold down the [Esc] button for about two seconds while the area selection screen is displayed, and then select **Yes**.

Press the up/down/left/right buttons Repeat steps 3 and 4 as needed to 5 4 to adjust the shape of the image as adjust any remaining corners. necessary. Press the [Enter] button to return to the area selection screen. When you are finished, press the 6 [Esc] button. If you see this screen, you cannot adjust the shape any further in the After executing Quick Corner, the **William** direction indicated by the gray Keystone setting is now set to triangle. **Quick Corner** in the projector's **Settings** menu. When you press [Quick Corner] the up/down buttons on the control panel or the keystone button on the remote control, the area selection screen is displayed. Cannot adjust any further.

## Adjusting the Volume

You can adjust the volume by using the volume buttons on the remote control or on the control panel.



- You can also adjust the volume from the Configuration menu. Settings Sound Volume p.46
  When an AV System is connected to the projector and you want to adjust the volume for the AV system,
- set HDMI Link to On and Audio Out Device to AV System. C Settings HDMI Link p.46 • If you have used the remote control for Android TV to mute the volume on the Android TV, you will
- If you have used the remote control for Android TV to mute the volume on the Android TV, you will
  not be able to turn it up using the projector remote control. Increase the volume using the remote
  control for Android TV before you make adjustments.

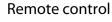


Do not start at high volume.

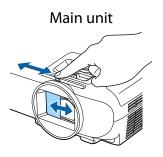
A sudden excessive volume may cause loss of hearing. Always lower the volume before powering off, so that you can power on and then gradually increase the volume.

#### Hiding the Image and Muting the Audio Temporarily (A/V Mute)

You can temporarily stop projection and mute any sound by pressing the A/V Mute button on the remote control or by closing the lens cover. To turn the image and sound back on, press the button again or open the lens cover.







- For movies, the image and audio continue to play even during A/V Mute. You cannot resume projection from the point that you muted the video and audio using the A/V mute button.
  - When outputting audio from an AV system and you want to adjust the volume for the AV system, set **HDMI Link** to **On** and **Audio Out Device** to **AV System**. Call System. Call System **DMI Link** p.46

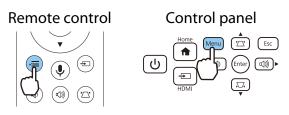
2

# Adjusting the Image

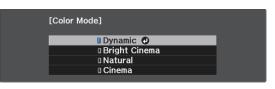
# Selecting the Projection Quality (Color Mode)

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

Press the [Menu] button to display menus in the order Image - Color Mode.



Use the up and down buttons to select a mode, and then press the [Enter] button to confirm the selection.



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.
Cinema	Best for enjoying content such as movies.

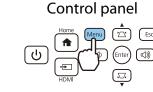
# Switching the Screen Between Full and Zoom (Aspect)

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

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 public viewing with the aim of making a profit may infringe upon the rights of the copyright holder of that image based on copyright law.

Press the [Menu] button to display menus in the order **Signal** - **Aspect**. Remote control Control panel



**WWW** 

2 Use the up and down buttons to select the aspect mode, and then press the [Enter] button to confirm the selection.

[Aspect]		
	🛙 Auto 🛛 🕘	
	🛛 Normal	
	0 Full	
	🛛 Zoom	

Auto may not be available depending on the type of 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.

Aspect Mode	Aspect Ratio for Input Signal		
	16:10	16:9	4:3
Normal			
Full			
Zoom			

# Adjusting the Sharpness

You can make the image clearer.

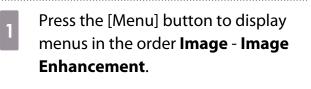
Press the [Menu] button to display menus in the order <b>Image</b> -	2 Use the left and right buttons to make adjustments.
Sharpness. Remote control Control panel	The image is enhanced when moved to the right (positive) and softer when moved to the left (negative).
The <b>Sharpness</b> adjustment screen is displayed.	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 contents can be adjusted.

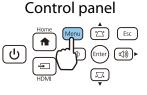
Image Preset Mode	Select the settings prepared in advance as the settings for <b>Noise Re-</b> duction, MPEG Noise Reduction, and Detail Enhancement.
Noise Reduction*	Smoothes out rough images.
MPEG Noise Reduction*	Reduces dot and block noise that occurs in outlines when projecting MPEG movies.
Detail Enhancement*	Enhances the contrast in an image to create a more emphatic texture and material feel.

\* This can be set at any time except when **Image Preset Mode** is set to **Off**.

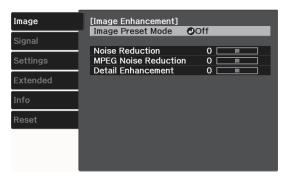


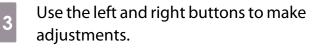


2



Use the up and down buttons to select the item you want to adjust, and then press the [Enter] button to confirm the selection.





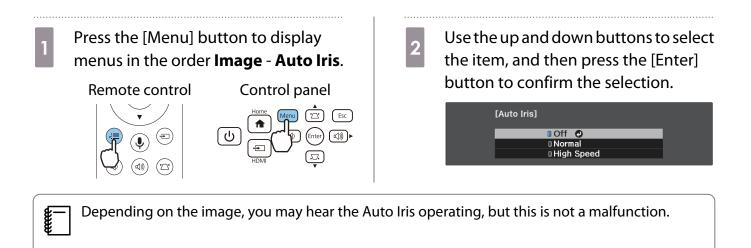
Press the [Esc] button to adjust another item.

[Image Enhancement] Noise Reduction 0 0

Press the [Menu] 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**.





## Adjusting the Color Temp.

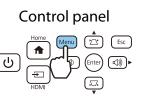
Adjusts the tint for the images. Make adjustments if the image is a little too blue or too red and so on.

2

## Press the [Menu] button to display menus in the order **Image** - **White Balance** - **Color Temp.**

Remote control





Use the left and right buttons to make adjustments.

Blue tints grow stronger as the value is increased, and red tints grow stronger as the value is reduced.

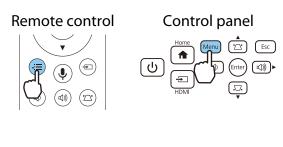
ОН

[White Balance] Color Temp. 8 L 🔮 🗖 🗖

## 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 order **Image** - **White Balance** - **Custom**.



2 Use the up and down buttons to select the item, and then use the left and right buttons to make the adjustments.

> The image becomes brighter when moved to the right (positive) and darker when moved to the left (negative).

[Custom]			
Offset R	50 🔿 🗖 🗖		
Offset G	50 🔇 📃		
Offset B	50 🔇 📃	<b>I</b>	
Gain R	50 🔇 📃		
Gain G	50 🔇 📃		
Gain B	50 🜒 📃 🗌	F	

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.

## 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.

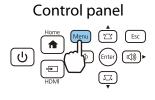
3

5

Press the [Menu] button to display menus in the order **Image** -**Advanced** - **RGBCMY**.

Remote control

(=)



2

Use the up and down buttons to select the color you want to adjust, and then press the [Enter] button to confirm the selection.

[RG	BCMY]		
	Hue	Saturation	Brightness
R	50 🗖	50	50 🔲 🔳
G	50	50	50
в	50 📃	50 📃	50 📃
С	50 📃	50 📃	50 📃
М	50 📃	50 📃	50 📃
Y	50 🔲 🔳	50	50 🔲

Use the up and down buttons to select **Hue**, **Saturation**, or **Brightness**.

4 Use the left and right buttons to make adjustments.



Press the [Esc] button to adjust another color.

Press the [Menu] 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.

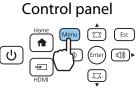
You can set it by using one of the following methods.

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

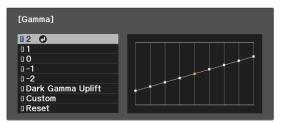
Select and adjust the correction value

Press the [Menu] button to display menus in the order **Image** -**Advanced** - **Gamma**.





2 Use the up and down 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.

- **\*\*\*\***
- shows the output signal level.
  Select **Dark Gamma Uplift** to adjust the tone of dark areas for greater visibility.

• The horizontal axis of the gamma adjustment graph shows the input signal level, and the vertical axis

• Select **Reset** to return the adjustments to their default values.

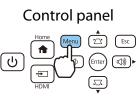
## Adjust using the gamma adjustment graph

Select a tone point on the graph and make adjustments.



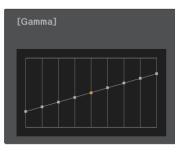
Press the [Menu] button to display menus in the order Image -Advanced - Gamma - Custom.





2

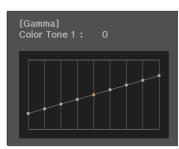
Use the left and right buttons to select the tone you want to adjust from the graph.



Select the left side of the graph to adjust the dark areas of the image. Select the right side of the graph to adjust the light areas of the image.

3

Use the up and down buttons to adjust the brightness, and then press the [Enter] button to confirm the selection.



Raise the tone point to make it brighter, and lower it to make it darker.

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

## Saving a Memory

By using the memory function, you can register settings for **Image** from the Configuration menu, and then load them when necessary.

4

1	Make the settings or adjustments you want to register.
•••••	

Press the [Menu] button to display menus in the order **Settings** -**Memory**.

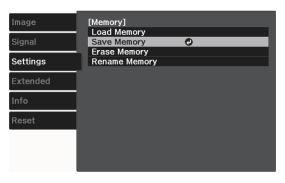
**Control panel** 





2

Use the up and down buttons to select **Save Memory**, and then press the [Enter] button to confirm the selection.



Use the up and down buttons to select the memory name you want to save, and then press the [Enter] button to confirm the selection.

[Save Memory]	
Memory1	ODynamic
Memory2	
🛛 Memory3	
Memory4	
🛛 Memory5	
🛛 Memory6	
🛛 Memory7	
0 Memory8	
🛛 Memory9	
D Memory10	

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.

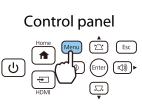
# Loading, Deleting, and Renaming a Memory

You can load, delete, and rename registered memories.



Press the [Menu] button to display menus in the order **Settings** -**Memory**.





# Select the target function on the screen displayed.

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 a saved memory. When you select a memory name and press the [Enter] button, a message is displayed. Select <b>Yes</b> , 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.
	When you have finished, move the cursor over Finish, and then press the [Enter] button.

2

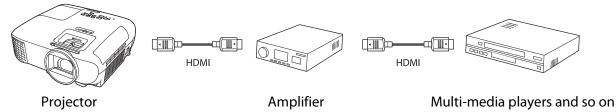
# Using the HDMI Link Function

## **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 amplifier from one remote control.

- As long as the AV device meets the HDMI CEC standards, you can use the HDMI link function even if the AV amplifie in-between does not meet the HDMI CEC standards.
  - Up to 2 multi-media player that meets the HDMI CEC standards can be connected at the same time.

#### **Connection Example**



## **HDMI Link Settings**

When **HDMI Link** is set to **On**, you can perform the following operations. **C Settings** - **HDMI Link** - **HDMI Link** p.46

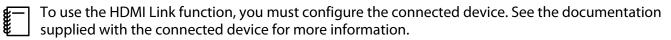
- Input Change Link Switches the input source of the projector to HDMI when content is played back on the connected device.
- Connected Devices Operations
   Using the projector's remote control, you can perform operations such as Play, Stop, Fast Forward, Rewind, Next
   Chapter, Previous Chapter, Pause,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

Image	[HDMI Link]	
Signal	Device Connections HDMI Link	On
Settings	Audio Out Device Power On Link	AV System PJ -> Device
Extended	Power Off Link	On
Info		
Reset		

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

Function	Explanation
Audio Out Device	Selects which device outputs audio.
	<b>Projector</b> : Select this to output audio from the projector's built-in speakers or from an external speaker connected to the Audio Out port.
	<b>AV System</b> : Select this to output audio from an AV amplifier that supports the HDMI CEC standards.
Power On Link	<ul> <li>When <b>Power On Link</b> is set, operations are linked as shown below.</li> <li>When the projector is turned on, the connected devices are also turned on.</li> <li>Also, when the connected devices are turned on and content is played back, the projector turns on.</li> </ul>

Function	Explanation
Power Off Link	When <b>Power Off Link</b> is set to <b>On</b> , when the projector is turned off, the connected devices are also turned off.
	<ul> <li>This only works when the connected device's CEC power link function is enabled.</li> <li>Note that depending on the status of the connected device (for example, if it is recording), the device may not power off.</li> </ul>



#### 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**. **C** Settings - HDMI Link - HDMI Link p.46

Press the [Menu] button to display menus in the order <b>HDMI Link</b> - <b>Device Connections</b> .	2 Select the device you want to ope using the HDMI Link function.	rate
Remote control	Type Name Source Recorder 1 BN-XXX HDMI1 Player 1 DWR-XXX HDMI2	
The <b>Device Connections</b> list is displayed. Devices that have an aqua icon to their left are linked by HDMI Link.	AV System YSP-XXX HDMI2	
If the device name cannot be determined this field is left blank.		

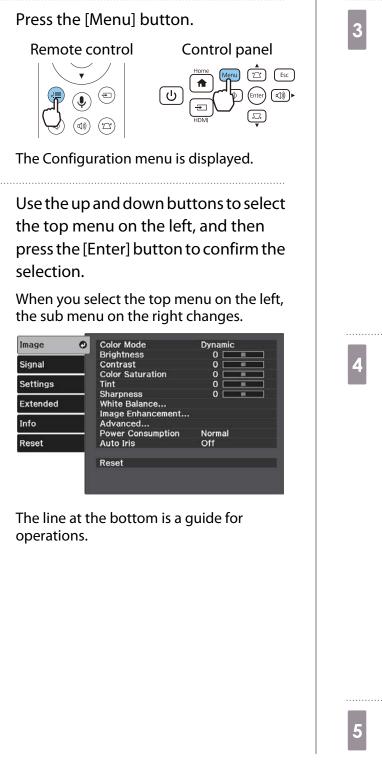
• Some connected devices or functions of those devices may not operate properly even if they meet the HDMI CEC standards. See the documentation and so on supplied with the connected device for more information.

2

# Configuration Menu Functions

## **Configuration Menu Operations**

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



3 Use the up and down buttons to select the sub menu on the right, and then press the [Enter] button to confirm the selection.

Sharpness		
Color Saturation Settings Tint Sharpness		2
Settings Tint Sharpness	0	
Sharpness	• <u> </u>	
	0 💷	
Extended White Balance		
Image Enhancement		
Info Advanced		
Power Consumption	Normal	
Reset Auto Iris	Off	
Reset		

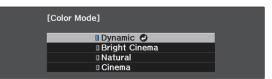
The adjustment screen for the selected function is displayed.

Use the up/down/left/right buttons to adjust the settings.

Ex.) Adjustment bar

[Image] Brightness 0 🔿 🗖 🗖 🚺

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.

Press the [Menu] button to exit the menu.

# 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			Select a color mode based on your sur- roundings and the image you are projec- ting.		
Brightness					Adjusts the brightness when the image appears too dark.
Contrast	0==0				Adjusts the contrast between light and shade in the images. By increasing the contrast, the images become vivid.
Color Satura- tion					Adjusts the color saturation for the images.
Tint	0==0				Adjusts the tint for the images.
Sharpness					Adjusts the image sharpness.
White Balance	ance Color Temp.				Adjusts the overall color of the image. The image is tinted blue for high values, and tinted red for low values.
	Custom				Adjusts the offset and gain for each R, G, and B color.
lmage En- hancement	Image Preset Mode		Off, Preset 1 to Preset 5		Select the settings prepared in advance as the settings for <b>Noise Reduction</b> , <b>MPEG</b> <b>Noise Reduction</b> , and <b>Detail Enhance-</b> <b>ment</b> .
	Noise Reduction		0==0		Adjusts the roughness of the image.
	MPEG Noise Reduction				Smoothes out rough images in MPEG for- mat.
	Detail Enha	ancement	Strength, R	ange	Creates a more emphatic texture and ma- terial feel of the image.
Advanced	Gamma			2, Dark Gam- Custom <sup>*</sup> , Re-	Performs gamma adjustments. You can select a raw value or adjust using a custom value.  Page p.38
	RGBCMY	R/G/B/C/M/Y	Hue, Satura- tion, Bright- ness		Adjusts the Hue, Saturation, and Bright- ness for each R, G, B, C, M, and Y col- or. • p.37
Power Con- sumption	Normal, ECO		You can set the lamp brightness to one of two settings. Select <b>ECO</b> if the images being projected are too bright. When <b>ECO</b> is selected, pow- er consumption during projection decrea- ses, and fan rotation noise is reduced.		

Function	Menu/Settings	Explanation
Auto Iris	Off, Normal, High Speed	You can change the luminance adjust- ment tracking for changes in brightness in the displayed image.  p.34
Reset	Yes, No	Resets the adjustment values of <b>Image</b> set in the current Color Mode to the default settings.

\* Settings are saved for each type of input source or Color Mode.

#### Signal menu

Function	Menu/	Settings	Explanation
Aspect <sup>*1</sup>	Auto <sup>*2</sup> , Normal, Full	, Zoom	Selects the aspect mode. 🖝 p.32
Overscan <sup>*1</sup>	Auto, Off, 4%, and 8%		Changes the output image ratio (the range of the projected image).
			<ul> <li>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.</li> <li>Auto: Automatically sets to Off or 8% depending on the input signal.</li> </ul>
Advanced	Video Range <sup>*1</sup>	Auto, Limited (16-235), Full (0-255)	When set to <b>Auto</b> , the video level for the DVD input signal is automatically detected and set. If you experience under or overexposure when set to <b>Auto</b> , 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 Normal, 21:9		Lets you change the EDID settings. Restart the projector after changing the EDID.
Reset	Yes, No		Resets all Signal settings except for Aspect.

\*1 Settings are saved for each type of input source or signal.

\*2 You may not be able to make selections depending on the source or type of signal.

#### Settings menu

Function	Menu/Settings			Explanation
Keystone	H/V-Keystone	V-Keystone H-Keystone Auto V-Key- stone H-Keystone	-60 to 60 -60 to 60 On, Off On, Off	<ul> <li>Corrects keystone distortion. p.28</li> <li>H/V-Keystone: Manually corrects horizontal and vertical distortions. p.28</li> <li>Quick Corner: Corrects the corners of the projected image individually. p.29</li> </ul>
	Quick Corner	Adjuster		

Function	Menu/S	Settings	Explanation
Sound	Volume	0 to 20	Adjusts the volume of the projector's built-in speaker. You can also adjust the volume for the Bluetooth audio device connected to the pro- jector. You need to adjust the volume of the built- in speaker and the Bluetooth audio device indi- vidually.
	Sound Mode	Standard, Vocal, Music, Movie	Selects the sound mode according to the con- tent you want to play.
			This is not available when audio is being output from a Bluetooth audio device.
HDMI Link	Device Connections	-	Displays a list of devices connected to the HDMI ports.
	HDMI Link	On, Off	Enables or disables the HDMI Link function.
	Audio Out Device	Projector, AV Sys- tem	Selects which device outputs audio. 🖝 p.42
	Power On Link	Off, Bidirectional, Device -> PJ, PJ -> Device	<ul> <li>Sets the link function when the power is turned on.</li> <li>To turn on the projector when you operate the connected device, select <b>Bidirectional</b> or <b>Device -&gt; PJ</b>.</li> <li>To turn on the connected device when you turn on the projector, select <b>Bidirectional</b> or <b>PJ -&gt; Device</b>.</li> </ul>
	Power Off Link	On, Off	Sets whether or not to power off connected de- vices when the projector is turned off.
Bluetooth	Search Bluetooth Device	-	Searches for available Bluetooth devices and displays them as a list.
	Bluetooth Audio	On, Off	<ul> <li>Enables or disables audio output from Bluetooth audio devices.</li> <li>Setup cannot be performed in the following cases.</li> <li>When Audio Out Device from the HDMI Link menu is set to AV System</li> </ul>
	Connected Device	-	Displays information on the connected Blue- tooth audio device.

Function	Menu/S	Settings	Explanation
Lock Setting	Child Lock	On, Off	This locks the standby 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 standby button for approximately three seconds. You can still turn off the device using the standby 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 <b>Child Lock</b> is set to <b>On</b> , the projector still turns on when the power cord is connected if <b>Direct Power On</b> is set to <b>On</b> .
	Control Panel Lock	Full Lock, Partial Lock, Off	<b>Full Lock</b> : Disables all of the projector's buttons. <b>Partial Lock</b> : Disables all of the projector's but- tons except for the standby button.
			is displayed on the screen if buttons are pressed while the projector is locked. To unlock, press and hold the standby button on the control panel for at least 7 seconds. If changed, this setting is enabled once you close the Configuration menu.
Memory	Load Memory	Memory1 to Memo- ry10	Loads the settings saved in Save Memory to adjust the image.
	Save Memory	Memory1 to Memo- ry10	Saves the settings made in <b>Image</b> to a memory.
	Erase Memory	Memory1 to Memo- ry10	Erases a saved memory.
	Rename Memory	Memory1 to Memo- ry10, Default, DVD, VCR, SDTV, HDTV, Cinema, Sports, Mu- sic, Anime, Game, Custom	Changes the saved memory name.
Reset	Yes, No		Resets all Settings except for Audio Out De- vice, Power On Link, Power Off Link, and Mem- ory.

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## Extended menu

Function	N	lenu/Settings	Explanation
Display	Messages	On, Off	<ul> <li>Sets whether or not to display the following messages (On or Off).</li> <li>Item names for image signals, color modes, and aspect ratios.</li> </ul>
			<ul> <li>If the internal temperature is rising when no im- age signal is being input or an unsupported sig- nal is detected.</li> </ul>
	Display Back- ground	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 com- plete.
Projection	Front, Front/Ceiling, Rear, Rear/Ceiling		Changes this setting depending on how the pro- jector is installed.
Operation	Direct Power On	On, Off	<ul> <li>Sets up the projector so that projection starts as soon as the power cord is plugged in without any button operations.</li> <li>Note that when this is set to <b>On</b>, projection starts if power is restored after a blackout or other power outage and the power cord is still plugged into the projector.</li> </ul>
	Sleep Mode	On, Off	If the set time is exceeded and no signal is input, the projector is automatically turned off and en- ters standby mode. When in standby mode, press the standby button on the remote control or the control panel to start projection.
	Sleep Mode Timer	1 to 30 mins.	Sets the interval for <b>Sleep Mode</b> .
	Illumination	On, Off	Set this to <b>Off</b> if the light from the indicators on the control panel bother you when watching a movie in a dark room.
	High Altitude Mode	On, Off	Set this to <b>On</b> if you are using the projector above an altitude of 1500 meters.
Language	-		Selects the display language.
Reset	Yes, No		Resets all <b>Extended</b> settings except for <b>Projec-</b> tion, High Altitude Mode, and Language.

#### 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 format of the current input source.
	Resolution	Displays the resolution.
	Scan Mode	Displays the scan mode.
	Refresh Rate	Displays the refresh rate.
	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.
	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.
Version	Main	Displays the firmware version of the projector.

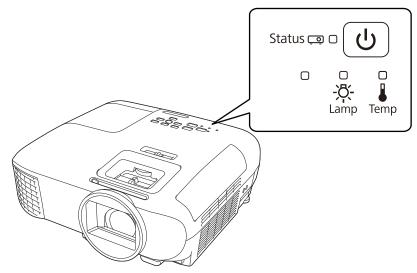
### Reset menu

Function	Explanation
Reset Lamp Hours	Resets the cumulative lamp hours to 0 H. Reset when you replace the lamp.
Reset Memory	Resets all items for <b>Memory</b> to their default settings.
Reset All Config	Resets all items in the Configuration menu to their default settings. The following items are not reset to their defaults: <b>Memory</b> , <b>Lamp Hours</b> , and <b>Language</b> .



## **Reading the Indicators**

You can check the status of the projector from the flashing and lit status indicator, standby indicator, lamp indicator, and temperature indicator 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

⊖O : Flashing O : Lit ⊜ : Status maintained O : Off

Indicators	Status	Remedy
Status 💿 🖨 🕖	Replace Lamp	It is time to replace your lamp. Replace the lamp with a new lamp as soon as possible. The lamp may explode if you continue to use it in this status.
ੇ <b>਼</b> -ਠੋ-		
(orange)		
Status 💿 🖨 🔁	High Temp Warning	You can continue projecting. If the temperature rises too high again, projection stops automatically.
(blue)		• 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.
□ <b>〕</b> -☆- Ⅰ		<ul> <li>If the air filter is clogged, clean it.  p.62</li> <li>Make sure that nothing is blocking the area around the inlet</li> </ul>
(orange)		and that the temperature around the inlet is not too high.
(erange)		- pr/s

Indicators	Status	Remedy
Status (blue) (blue) 	Internal Error	The projector has malfunctioned. Remove the power plug from the electrical outlet, and con- tact your local dealer or the nearest Epson repair center. <i>Epson Projector Contact List</i>
Status (blue) -Ö- (orange)	Fan Error Sensor Error	
Status (blue) (blue) -Ö,-	Auto Iris Error	
Status (blue) (blue) 	Power Err. (Ballast)	
Status (blue)	Lamp Error Lamp Failure Lamp Cover Open	<ul> <li>There is a problem with the lamp, or it failed to turn on.</li> <li>Disconnect the power cord, and then check if the lamp is cracked.  <ul> <li>p.65</li> <li>If it is not cracked, reinstall the lamp and turn on the power.</li> <li>If reinstalling the lamp does not fix the problem, or if the lamp is cracked, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest Epson repair center.  <ul> <li>Epson Projector Contact List</li> <li>Check that the lamp cover has been properly closed.</li> </ul> </li> </ul></li></ul>

Line line

Indicators	Status	Remedy
Status (blue) (blue) 	High Temp Error (Overheating)	<ul> <li>The internal temperature is too high.</li> <li>The lamp turns off automatically and projection stops. Wait for about five minutes. When the fan has stopped, disconnect the power cord.</li> <li>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.</li> <li>If the air filter is clogged, clean it. p.62</li> <li>Make sure that nothing is blocking the area around the inlet and that the temperature around the inlet is not too high.</li> <li>p.73</li> <li>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. <i>Epson Projector Contact List</i></li> <li>When using at an altitude of 1500 m or more, set High Altitude Mode to On. Extended - Operation - High Altitude Mode p.49</li> </ul>

Indicator status during normal operation

: Flashing 🖸 : Lit 🔾 : Off

Indicators	Status	Remedy
Status 📼 🔿 🕑	Standby condition	When you press the standby button on the remote control or on the control panel, projection starts after a short wait.
(blue)		
Status 🗨 🕑	Warm-up in progress	Warm-up time is about 30 seconds. The power-off operation is disabled while the projector is warming-up.
(blue)	Cool-down in pro- gress	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 discon- nected during cool-down, wait until the lamp has cooled down sufficiently (about 10 minutes), reconnect the power cord, and then press the standby button on the remote con- trol or on the control panel.
Status 📮 🕒	Projection in pro- gress	The projector is operating normally.
(blue)		

• When the projector is operating normally, the temperature and lamp indicators are off.

When the Illumination function is set to Off, all indicators are off under normal projection conditions.
 Extended - Operation - Illumination p.49

# 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 im-	No images appear	p.55
ages	Projection does not start, the projection area is completely black, or the projection area is completely blue.	
	Moving images are not displayed	p.55
	"Not supported" is displayed	p.55
	"No Signal" is displayed	p.56
	Keystone distortion of projected image	p.56
	Images are fuzzy or out of focus	p.56
	Interference/distortion appear in images	p.56
	The image is truncated (large) or small, or only a part of the image is projected.	p.57
	Image colors are not right	p.57
	The whole image appears purplish or greenish, images are black & white, or colors appear dull.*	
	Images appear dark	p.57
	Projection stops automatically	p.58
Noise problems	No audio, or the audio is too low	p.58
Problems when projection starts	The projector does not turn on	p.58
Problems with the remote control	The remote control does not respond	p.59
Problems with the control panel	Cannot operate on the control panel	p.59
Problems with HDMI	HDMI Link does not function	p.59
	The device name is not displayed under Device Connections	p.60
Bluetooth device prob-	Cannot Connect Bluetooth Device	p.60
lems	The audio and connection for the Bluetooth device disconnects	p.60
Problems with a streaming media player	Cannot view images from a streaming media player	p.61

\* 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.

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# Problems relating to images

# No images appear

Check	Remedy
Is the power turned on?	Press the standby button on the remote control or the control panel.
Is the power cord connected?	Connect the power cord.
Are the indicators switched off?	Disconnect and then reconnect the projector's power cord. Check that pressing the standby button after connection sup- plies the projector with power.
Is an image signal being input?	Check that the connected device is turned on. When <b>Messag-</b> es is set to <b>On</b> from the Configuration menu, image signal mes- sages are displayed. <b>Extended</b> - <b>Display</b> - <b>Messages</b> p.49
Has the power to the AV amplifier been dis- connected?	If an AV amplifier is connected, check the AV amplifier's power supply.
Is an image signal being sent from the device?	Check that an image signal is being sent from the connected device.
Are the Configuration menu settings correct?	Reset all of the settings. 🖝 Reset - Reset All Config p.50
(Only when projecting computer image sig- nals) Was the connection made while the power of	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.
the projector or the computer was already turned on?	

# Moving images are not displayed

Check	Remedy
(Only when projecting computer image sig- nals) 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 out- put 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 sup- plied with the computer.

## "Not supported" is displayed

Check	Remedy
(Only when projecting computer image signals)	Check the image signal being input in <b>Resolution</b> from the Con- figuration menu, and check that it matches the projector's reso-
Do the image signal's frequency and resolu-	lution. 🖝 Info - Projector Info p.50
tion correspond to the mode?	"Supported Resolutions" p.71

# "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?	Press the source button on the remote control or the [Home]/ [HDMI] button on the control panel to switch between input im- ages. To p.25
Is the connected device turned on?	Turn on the device.
(Only when projecting computer image sig- nals) 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 sup- plied 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 off the power for the computer and the projector and then back on again.

# Keystone distortion of projected image

Check	Remedy
Is keystone distortion adjusted within the cor- rection range?	If projecting the image from outside of the correctable range, you may not be able to correct the keystone distortion completely. Install the projector horizontally in front of the screen and parallel to the screen as much as possible, and then adjust the projection position using lens shift. The projection position using lens shift.

# Images are fuzzy or out of focus

Check	Remedy
Has the focus been adjusted?	Adjust the focus. 🖝 p.26
Is the lens cover closed?	Open the lens cover.
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

Check	Remedy
Is an extension cable being used?	If an extension cable is used, electrical interference may affect the signals.
(Only when projecting computer image signals)	Set the computer so that the signals being output are compatible with the projector.   p.71
Is the correct resolution selected?	

# Part of the image is truncated (large) or small

Check	Remedy
Is the correct <b>Aspect</b> selected?	Select the aspect mode to match the input signal in <b>Aspect</b> from the Configuration menu. <b>Signal</b> - <b>Aspect</b> p.46
(Only when projecting computer image sig- nals)	Set the computer so that the signals being output are compatible with the projector. $\bigcirc$ p.71
Is the correct resolution selected?	

# 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
Is the contrast adjusted correctly?	Adjust the <b>Contrast</b> setting from the Configuration menu. <b>Image</b> - <b>Contrast</b> p.45
Is the color adjusted correctly?	Adjust the <b>Advanced</b> setting from the Configuration menu.
(Only when projecting images from a video device)	Adjust the <b>Color Saturation</b> and <b>Tint</b> settings from the Config- uration menu. ( Image - Color Saturation/Tint p.45
Are the color saturation and tint adjusted correctly?	

# Images appear dark

Check	Remedy
Is the image brightness set correctly?	Adjust the <b>Brightness</b> setting from the Configuration menu.
Is the contrast adjusted correctly?	Adjust the <b>Contrast</b> setting from the Configuration menu. <b>Image</b> - <b>Contrast</b> p.45
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images be- come darker and the color quality becomes poorer. When this happens, replace the lamp with a new lamp. <b>•</b> p.65

# Projection stops automatically

Check	Remedy
Is <b>Sleep Mode</b> enabled?	If the set time is exceeded and no signal is input, the lamp is automatically turned off and the projector enters standby mode. Press the standby button on the remote control or on the control panel to turn on the projector. If you want to disable <b>Sleep</b> <b>Mode</b> , change the setting to <b>Off. Textended</b> - <b>Operation</b> - <b>Sleep Mode</b> p.49

Noise problems

## No audio, or the audio is too low

Check	Remedy
Is the audio cable connected correctly?	Try disconnecting the cable from the Audio Out port, and then reconnecting.
Is the volume too low?	Adjust the volume so that you can hear the audio. 🖝 p.31
Is it connected with an HDMI cable?	If no audio is output when connecting via an HDMI cable, set the connected equipment to PCM output.
Are the <b>Audio Out Device</b> settings correct?	Check that the <b>Audio Out Device</b> settings are correct on the Configuration menu. Configuration menu. Settings - HDMI Link - Audio Out De- vice p.46
Are the <b>Bluetooth Audio</b> settings correct?	<ul> <li>Make the following settings when connecting a Bluetooth audio device.</li> <li>To output audio from the projector's speaker or an amplifier, set Bluetooth Audio to Off.</li> <li>To output audio from Bluetooth audio devices, set Bluetooth Audio to On.</li> <li>Settings - Bluetooth - Bluetooth Audio p.46</li> </ul>

# Problems when projection starts

## The projector does not turn on

Check	Remedy
Is the power turned on?	Press the standby button on the remote control or the control panel.
Is <b>Child Lock</b> set to <b>On</b> ?	When <b>Child Lock</b> is set to <b>On</b> from the Configuration menu, hold down the standby button on the control panel for approximately three seconds, or perform operations from the remote control. <b>Settings</b> - <b>Lock Setting</b> - <b>Child Lock</b> p.46
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. Contact List

Check	Remedy
Are the lamp cover and lamps installed cor- rectly?	If the lamp or lamp cover is installed incorrectly, the projector cannot be turned on. Check how it is installed. <b>•</b> p.65

## 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.23
Is the remote control too far from the projec- tor?	Check the operating range. <b>•</b> p.23
Is direct sunlight or strong light from fluores- cent 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 bat- teries with new ones if necessary.
Has the streaming media player been paired?	<ul> <li>When the pairing screen is displayed, hold down the [Enter] button and the home button on the remote control at the same time for approximately three seconds to pair the devices.          <ul> <li>p.22</li> </ul> </li> <li>If the pairing screen is not displayed, make sure that the projector and the streaming media player are on, and then hold down the Esc button and the right button on the remote control for approximately seven seconds. This should display the pairing screen and allow you to perform pairing.          <ul> <li>p.22</li> </ul> </li> </ul>
Are you using the remote control for Android TV to perform operations?	Check that you are not using the remote control for Android TV. Use the projector remote control.

#### Problems with the control panel

#### Cannot operate on the control panel

Check	Remedy
Is <b>Control Panel Lock</b> set to <b>Full Lock</b> or <b>Par-</b> <b>tial Lock</b> ?	When <b>Control Panel Lock</b> is set to <b>Full Lock</b> in the Configura- tion menu, all button operations on the control panel are disa- bled; when <b>Partial Lock</b> is set, only the standby button on the control panel is available. Perform operations from the remote control. <b>Control Panel Lock</b> p.46

## 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, check if the device is available under <b>Device Connec-</b> <b>tions.</b> • p.43
Are the cables connected correctly?	Check that all the cables required to use HDMI Link are securely connected.   p.42
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 con- nection 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 2 multi-media player that meets the HDMI CEC standards can be connected at the same time.

# The device name is not displayed under Device Connections

Check	Remedy
	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.

## Bluetooth device problems

П

#### Cannot Connect Bluetooth Device

Check	Remedy
Was a device search performed?	When connecting a Bluetooth device for the first time, or when changing to another Bluetooth device, perform <b>Search Blue-tooth Device</b> .  p.19
Does the device support copyright protection (SCMS-T)?	You cannot connect a Bluetooth device that does not support copyright protection (SCMS-T).
Is the device based on A2DP?	You cannot connect a Bluetooth device that does not support A2DP.

## The audio and connection for the Bluetooth device disconnects

Check	Remedy
Are there any obstacles between the projec- tor and the Bluetooth device?	Check for any obstacles between the projector and the Bluetooth device, and change their positions to improve communication.
Is the device connected within the specified communication distance?	If the distance between the projector and the Bluetooth device exceed 10 m, the connection may be lost. Move the Bluetooth device closer to the projector.

Check	Remedy
Are there any wireless equipment or micro- wave ovens in the vicinity?	If the device is used at the same time as other wireless equipment or microwave ovens, radio wave interference may occur, and the image and audio may be interrupted. Avoid equipment that could cause interference.

# Problems with a streaming media player

# Cannot view images from a streaming media player

Check	Remedy					
Is the device connected to the Internet?	You need an Internet connection to view online content. Make sure you can connect to Wi-Fi.					
Can you perform screen operations using the remote control or the control panel?	If you cannot perform operations, restart the projector.					



## **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.
- Do not use the projector in locations where flammable or explosive gases such as those used in air dusters or insecticides may be present in the atmosphere. The lamp inside the projector is hot.

Combustible components contained in air dusters, insecticides, deodorants, and so on could be sucked into the projector and ignite causing fire and burns to occur. If flammable sprays have been used around the projector, be sure to ventilate the area thoroughly before turning on the projector.

### 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

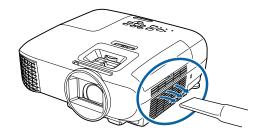
• If dust collects on the air filter, it can cause the internal temperature of the projector to rise, and this can lead to problems with operation and shorten the optical engine's service life. It is recommended that you clean the air filter at least once every three months. Clean them more often than this if using the projector in a particularly dusty environment.

2

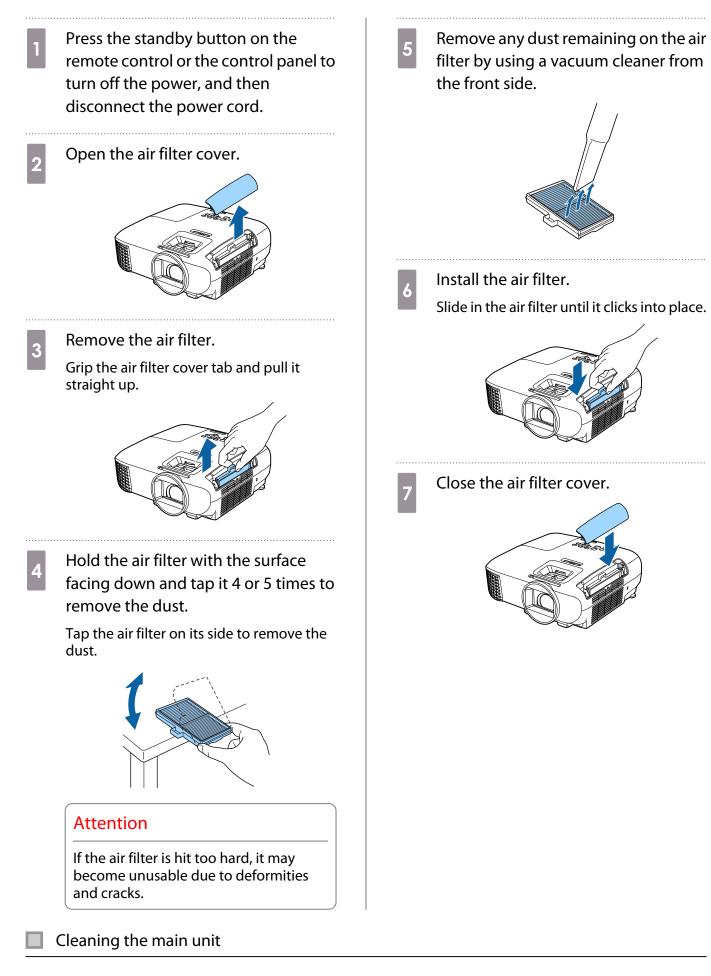
- Do not rinse the air filter in water. Do not use detergents or solvents.
- Do not use an air duster. Combustible material may remain, and dust may enter the precision parts.

#### For EH-TW5705 (ELPAF54)

Press the standby button on the remote control or the control panel to turn off the power, and then disconnect the power cord. Remove any dust on the air filter by using a vacuum cleaner from the front side.



For EH-TW5825 (ELPAF55)



Before cleaning, make sure you unplug the power cord 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 power cord from the outlet.

Use a commercially available cloth for cleaning glasses to gently wipe off dirt from the lens.

#### 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**

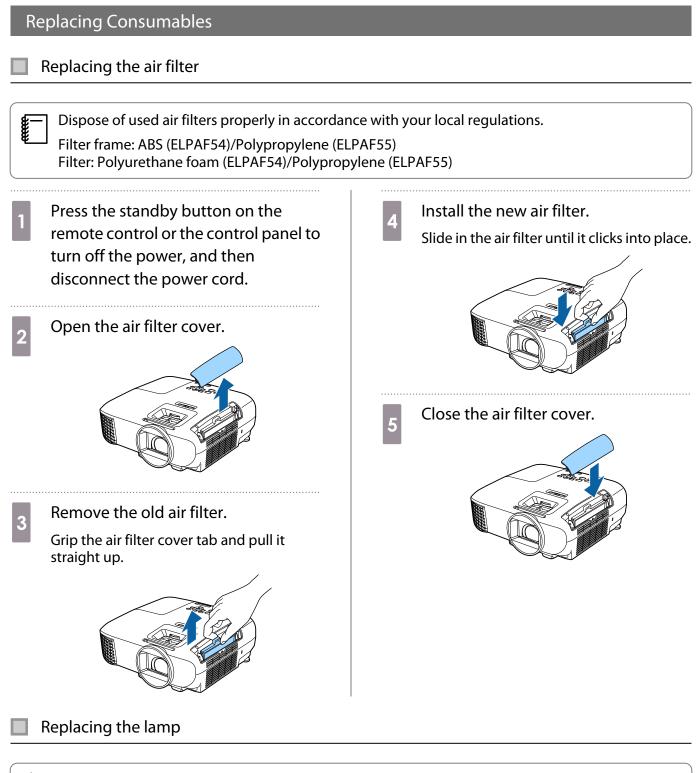
Air filter replacement period

If the replacement message is displayed even though the air filter has been cleaned 🖝 p.62

#### Lamp replacement period

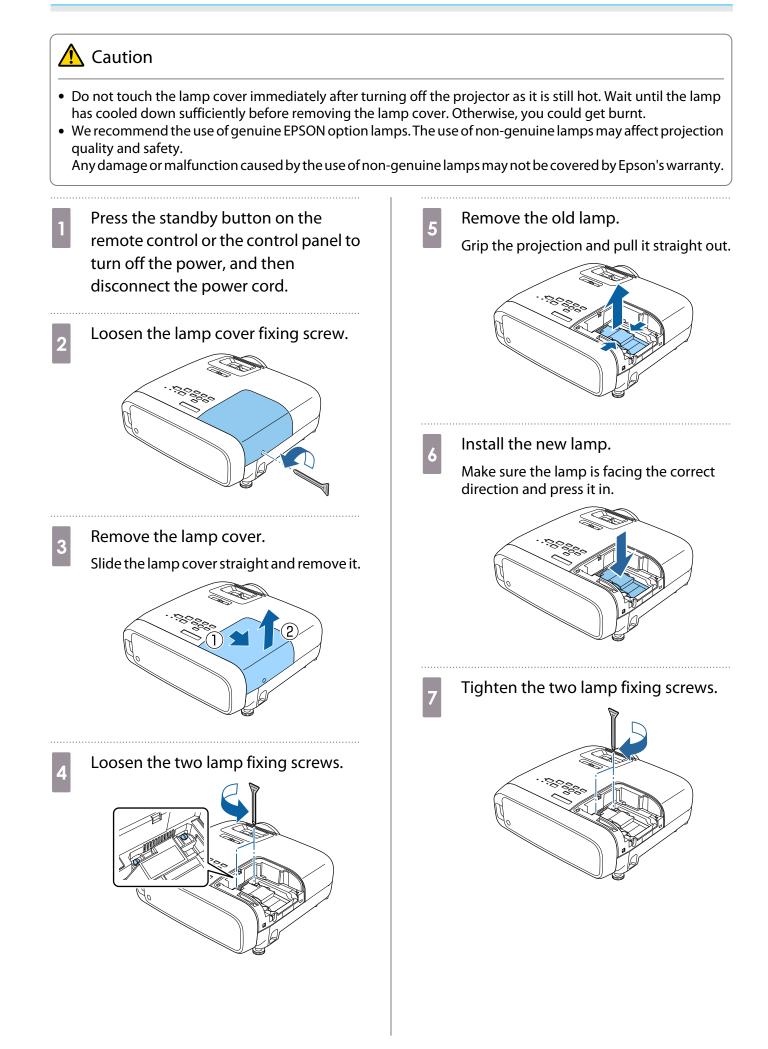
• When the following message is displayed when projection starts: It is time to replace your lamp. Please contact your Epson projector reseller or visit www.epson.com to purchase."

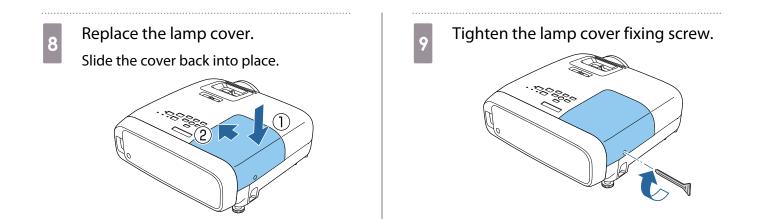
- When the projected image gets darker or starts to deteriorate.
- When the lamp replacement message is displayed. The message is displayed when the lamp usage reaches 100 hours before its life expectancy, and disappears after 30 seconds.
  - The brightness of the projected image declines with the passage of projection time. The lamp replacement message is displayed to help you maintain the brightness and image quality of the initial image. The message display time differs depending on the menu settings, the environmental conditions, and the usage conditions.
     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 is displayed, 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
    - 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.



# 🕂 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.





# 🕂 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.

## <u> C</u>aution

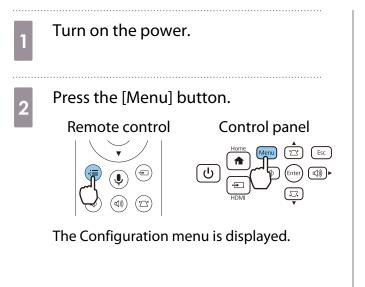
- Make sure you install the lamp and lamp cover securely. If they are not installed correctly, the power does not turn on.
- The lamp contains mercury (Hg). Dispose of used lamps in accordance with your local laws and regulations. When using in a company, observe your companies rules and regulations.

#### **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.

3





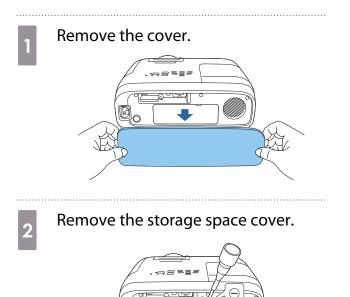
4

## Use the left and right buttons to select **Yes**, and then press the [Enter] button to execute.

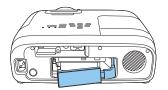
The lamp hours are reset.

[Reset Lamp Hours]
Are you sure you want to reset this setting?
Yes O No

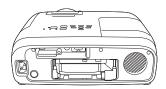
### Disconnecting a Streaming Media Player



Pull out the streaming media player, and disconnect the USB power cable.



Disconnect the HDMI cable.



#### Attention

**Line** 

- When using the projector, make sure you connect the built-in streaming media player.
- The built-in streaming media player is dedicated to this projector. Depending on the video equipment you are connecting, it may not work correctly.

3

If the built-in streaming media player is sent for repairs, it may be reset when it is returned. Make sure you save any account information for your online services before sending it for repairs.

# Optional Accessories and Consumables

The following optional accessories and consumables are available for purchase if required. This list of optional accessories and consumables is current as of February 2020. Details of accessories are subject to change without notice.

Varies depending on country of purchase.

### **Optional Items**

Name	Model No.	Explanation
Ceiling mount (white)	ELPMB23	Use when installing the projector on a ceiling.
Safety wire attachment	ELPWR01	Connects the projector to the ceiling mount to prevent it from falling.
Ceiling pipe 450 (450 mm white)	ELPFP13	Use when installing the projector on a high ceil-
Ceiling pipe 700 (700 mm white)	ELPFP14	ing.

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

## Consumables

Name	Model No.	Explanation
Lamp unit	ELPLP97	Use as a replacement for used lamps. (1 lamp)
Air filter	ELPAF54 (for EH- TW5705) ELPAF55 (for EH- TW5825)	Use as a replacement for used air filters. (Contains 2 air filters)

# 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 For- mat (Dot)					HDMI								
			(Hz)	(Hz) (MHz)	RGB		YCbCr							
							4:4:4		4:2:2		4:2:0			
						8	10, 12	8	10, 12	8	10, 12	8	10, 12	
	VGA60	640	480	60	25.175	/								
	UWHD	2560	1080	60	198.000	1								

SD

Signal For-	Resolution V Sync (Dot) (Hz)		V Sync Dotclk		HDMI								
mat			(Hz)	(MHz)	RGB		YCbCr						
								4:4:4		4:2:2		:2:0	
					8 10, 12		8	10, 12	8	10, 12	8	10, 12	
SDTV (480i)	720	480	59.94	13.500	/	1	1	1	1	1			
SDTV (576i)	720	576	50	13.500	1	1	1	1	1	1			
SDTV (480p)	720	480	59.94	27.000	1	1	1	1	1	1			
SDTV (576p)	720	576	50	27.000	/	1	1		/	1			

## HD

Signal For-	Resolution (Dot)		V Sync Dotclk		HDMI								
mat			(Hz)	(Hz) (MHz)	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	1	1	1	1	1	1			
HDTV (720p)	1280	720	59.94	74.176	1	1	1	1	1	1			
HDTV (720p)	1280	720	60	74.250	1	1	1	1	1	1			
HDTV (1080i)	1920	1080	50	74.250	1	1	1	1	1	1			
HDTV (1080i)	1920	1080	59.94	74.176	1	1	1	1	1	1			
HDTV (1080i)	1920	1080	60	74.250	1	1	1	1	1	/			
HDTV (1080p)	1920	1080	23.98	74.176	1	1	1	1	/	1			

Signal For-		lution	V Sync	Dotclk	HDMI							
mat	(Dot)		(Hz)	(MHz)	RGB		YCbCr					
				4:4:4		2	4:2:2 4:2		:2:0			
					8	10, 12	8	10, 12	8	10, 12	8	10, 12
HDTV (1080p)	1920	1080	24	74.250	1	1	1		1	1		
HDTV (1080p)	1920	1080	29.97	74.176	1	1	1		1	1		
HDTV (1080p)	1920	1080	30	74.250	1	1	1		1	1		
HDTV (1080p)	1920	1080	50	148.500	1	1	1	1	1	1		
HDTV (1080p)	1920	1080	59.94	148.352	1	1	1	1	1	1		
HDTV (1080p)	1920	1080	60	148.500	1	1	1		1	1		

# Specifications

#### EH-TW5825/EH-TW5705

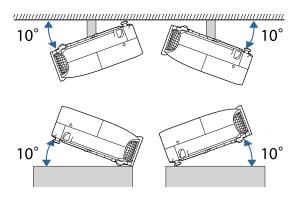
Product name		EH-TW	/5825		EH-TW5705		
Appearance		309 (W) x 107 (H) x 308 (D) mm (not including adjustable foot)					
Panel size		0.61" \	0.61" wide				
Display meth	od	Polysi	Polysilicon TFT active matrix				
Resolution		1920 (	W) x 108	0 (H) x 3			
Focus adjustr	nent	Manua	al				
Zoom adjusti	ment	Manua	al (Appro	x. 1 to 1.6)	Manual (Approx. 1 to 1.2)		
Lamp (light s	ource)	UHE la	mp 200	W			
Lamp life exp	ectancy		When Power Consumption is set to High from the Image menu: approx. 4,500 hours				
		When Power Consumption is set to ECO from the Image menu: approx. 7,500 hours					
Power supply		100 - 240 V AC±10%, 50/60 Hz, 3.2 - 1.4 A					
Power con-	100 to 120 V area	Rated power consumption: 310 W					
sumption		Power consumption when standing by: 0.3 W					
	220 to 240 V area	Rated power consumption: 297 W					
		Power consumption when standing by: 0.3 W					
Operating alt	itude	Altitude 0 to 3048 m					
Operating ter	mperature	+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 temp	perature	-10 to +60°C (No condensation)					
Mass		Approx. 3.8 kg Approx. 3.6 kg			Approx. 3.6 kg		
Speaker		10 W x 1 (enclosure)					
Connectors	HDMI port	1		HDMI HDCP1.4 supp PCM supported, Dee	orted, CEC signals supported, Linear p Color		
	Audio Out port			Stereo mini jack (3.5Φ)			
	Service port*	1		USB connector (Type B)			

\* 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.

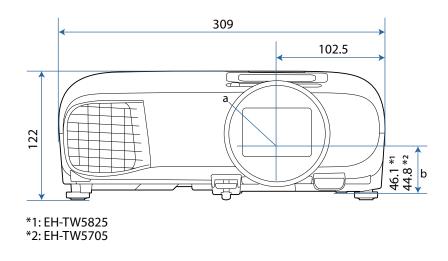
#### Angle of tilt

If you use the projector tilted at an angle of more than 10°, the projector could be damaged or it may lead to an accident.

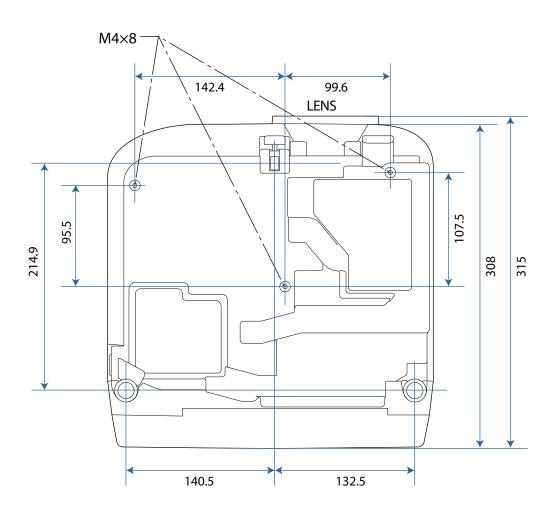


# Appearance

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 stand- ards	Meaning
	IEC60417 No.5007	"ON" (power) To indicate connection to the mains.
Ο	IEC60417 No.5008	"OFF" (power) To indicate disconnection from the mains.
Ċ	IEC60417 No.5009	Standby 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.
$\triangle$	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.
Â	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.
$ \bigcirc \odot \diamondsuit $	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 cover for the bat- tery 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.
(+ -		טו נוופ נפוו(ג) וווגועפ נוופ שמננפוץ ווטועפו.
	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 stand- ards	Meaning
$\sim$	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.
$\bigcirc$	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.
<b>(-X-)</b>		Never look into the projection lens while the projector is on.
		To indicate that you must never place anything on the 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.
Ü	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 ac- cording to protection standards.
<u></u>	IEC 60417-6056	Caution (movable fan blades) To indicate that you must keep away from the blades of the mov- able fan according to protection standards.
ME	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.
	ISO7010 No. W027 ISO 3864	Warning, light emission (UV, visible light, IR and so on) To indicate that you must be careful not to injure your eyes or skin when near light emitting sections.
$\mathbf{X}$	IEC60417 No.5109	Not to be used in residential areas To indicate that the electrical equipment/device is not suitable for use in a residential area.



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 <sup>™</sup>	An abbreviation for High Definition Multimedia Interface. This is the standard by which HD images and multichannel audio signals are digitally transmitted.
	HDMI <sup>™</sup> 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.
	<ul> <li>Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace)</li> <li>Screen aspect of 16:9 Dolby Digital audio reception and playback (or output)</li> </ul>
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.
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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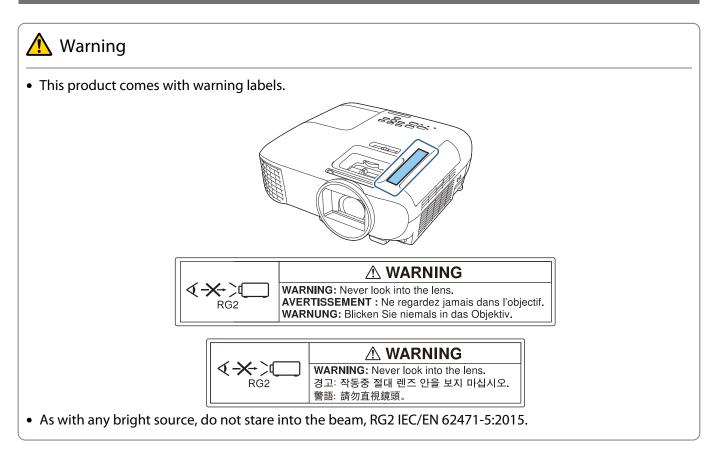
The contents of this guide may be changed or updated without further notice.

Illustrations in this guide and the actual projector may differ.

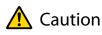
#### **Restriction of Use**

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc; or functional/ precision devices etc, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care etc, please make your own judgment on this product's suitability after a full evaluation.

#### Warning Labels



#### Disposal



Do not disassemble the projector when disposing of it. Dispose of the projector in accordance with your country's regulations or local regulations.

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#### Indication of the manufacturer and the importer in accordance with requirements of EU directive

Manufacturer: SEIKO EPSON CORPORATION

Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan

Telephone: 81-266-52-3131

http://www.epson.com/

Importer: EPSON EUROPE B.V.

Address: Atlas Arena, Asia Building, Hoogoorddreef 5, 1101 BA Amsterdam Zuidoost The Netherlands

Telephone: 31-20-314-5000

http://www.epson.eu/

# Indication of the manufacturer and the importer in accordance with requirements of United Kingdom directive

Manufacturer: SEIKO EPSON CORPORATION

Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan

Telephone: 81-266-52-3131

http://www.epson.com/

Importer: Epson (UK) Ltd.

Address: Westside, London Road, Hemel Hempstead, Hertfordshire, HP3 9TD, United Kingdom

http://www.epson.co.uk

	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.
Located at:	3131 Katella Avenue, Los Alamitos, CA
Tel:	562-981-3840

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:	HA87C/HA88C

#### **FCC Compliance Statement**

#### **For United States Users**

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

This equipment has been tested and found to comply with the limits for a Class 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.

#### 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.

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