



androidtv



User's Guide

Home Projector

EH-LS800W

EH-LS800B

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Notations Used in This Guide

Safety Symbols

The projector and its manuals use graphical symbols and labels to indicate content that tells you how to use the projector safely.

Read and carefully follow the instructions that are marked with these symbols and labels to avoid injury to persons or damage to property.

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

General Information Notations

Attention	This label indicates procedures that may result in damage or injury if sufficient care is not taken.
	This label indicates additional information that may be useful to know.
	Indicates the buttons on the remote control or the projector. Example:  button
Menu/Setting name	Indicates projector menu and setting names. Example: Select the Image menu.  Image > Color
	This label indicates links to the related pages.
	This label indicates the projector's current menu level.

Using the Manual to Search for Information

The PDF manual allows you to search for information you are looking for by keyword, or jump directly to specific sections using the bookmarks. You can also print only the pages you need. This section explains how to use a PDF manual that has been opened in Adobe Reader X on your computer.

Searching by keyword

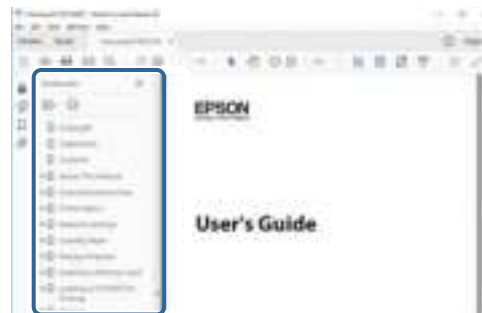
Click **Edit > Advanced Search**. Enter the keyword (text) for information you want to find in the search window, and then click **Search**. Hits are displayed as a list. Click one of the displayed hits to jump to that page.



Jumping directly from bookmarks

Click a title to jump to that page. Click + or > to view the lower level titles in that section. To return to the previous page, perform the following operation on your keyboard.

- Windows: Hold down **Alt**, and then press ←.
- Mac OS: Hold down the command key, and then press ←.

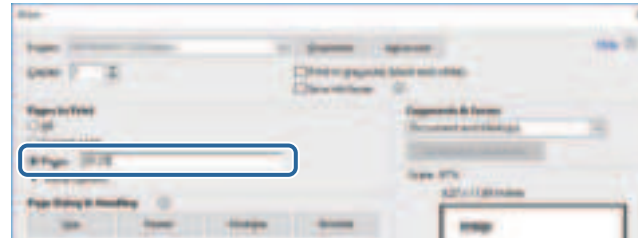


Printing only the pages you need

You can extract and print only the pages you need. Click **Print** in the **File** menu, and then specify the pages you want to print in **Pages** in **Pages to Print**.

- To specify a series of pages, enter a hyphen between the start page and the end page.
Example: 20-25

- To specify pages that are not in series, divide the pages with commas.
Example: 5, 10, 15



Introduction to Your Projector

See these sections to learn more about your projector.

» **Related Links**

- "Projector Parts and Functions" [p.9](#)

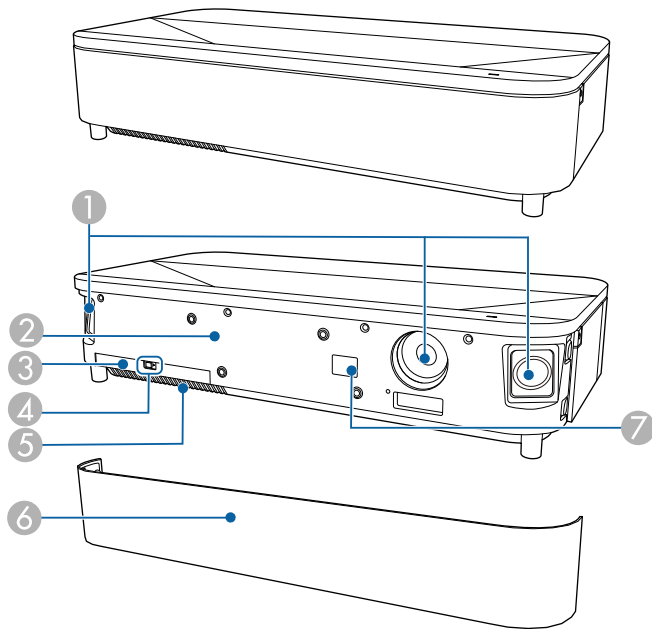
The following sections explain the projector parts and their functions.

» **Related Links**

- "Projector Parts - Front" [p.9](#)
- "Projector Parts - Top/Side" [p.10](#)
- "Projector Parts - Base" [p.11](#)
- "Projector Parts - Interface Ports" [p.12](#)
- "Projector Parts - Projector Remote Control" [p.13](#)

Name		Function
③	Air filter cover	Open to access the air filter.
④	Air filter cover latch	Slide to remove the air filter cover.
⑤	Air intake vent (air filter)	Takes in air to cool the projector internally.
⑥	Front cover	Open to access the air filter cover.
⑦	Remote receiver	Receives signals from the remote control.

Projector Parts - Front

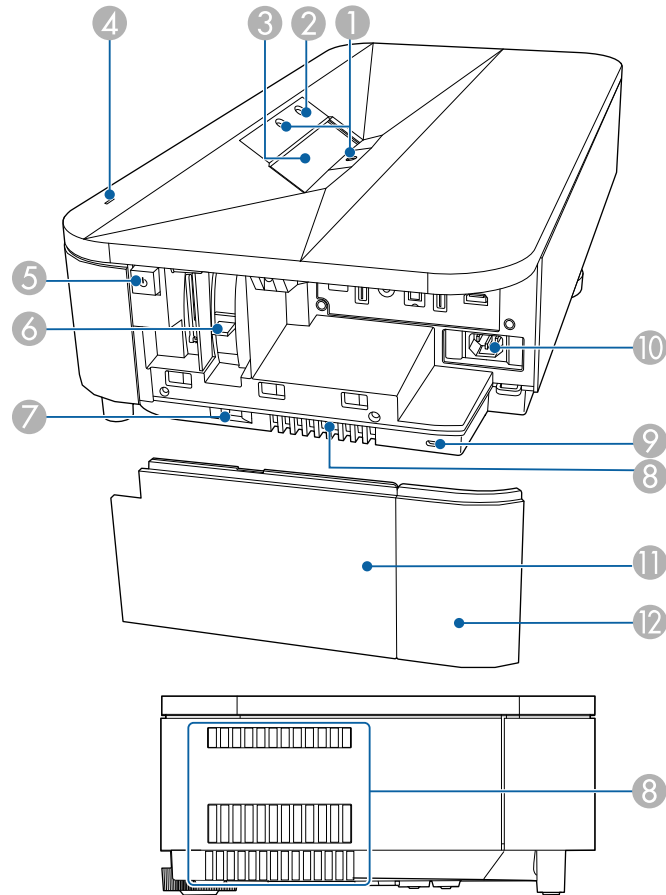


» **Related Links**

- "Air Filter and Vent Maintenance" [p.90](#)
- "Remote Control Operation" [p.30](#)
- "Adjusting the Light Source Brightness Based on the Brightness of Your Surroundings" [p.44](#)

Name		Function
①	Speaker	Outputs audio.
②	Illumination sensor	Detects the brightness of the surroundings, and automatically adjusts the brightness of the screen.

Projector Parts - Top/Side



Name	Function
① Obstacle sensors	Detects obstacles that are interfering with the projection area and reduces the brightness of the light source for safety.

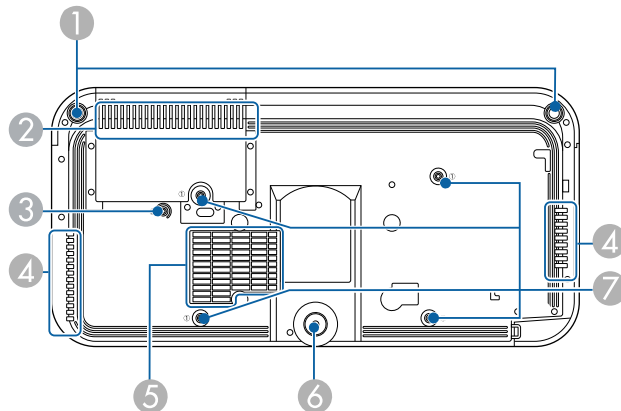
Name	Function
② Motion sensor	Detects movement near the projection window and reduces the brightness of the light source for safety.  - The detection range may vary depending on the temperature of the surroundings. - Movement may not be detected through transparent material such as glass.
③ Projection window	Images are projected from the lens inside the projector.  Warning - Do not look into the projection window while projecting. - Do not place any objects or put your hand near the projection window. It could cause burns, fire, or the object to warp because this area reaches a high temperature due to the concentrated projection light.
④ Status indicator	Indicates the projector's status.
⑤ Power button	Turns the projector on or off.
⑥ Focus lever	Adjusts the image focus.
⑦ Side cover latch	Slide to remove the side cover.
⑧ Air exhaust vent	Exhaust vent for air used to cool the projector internally.  Caution While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.

Name	Function
⑨ Security slot	The security slot is compatible with the Microsaver Security System manufactured by Kensington.
⑩ Power inlet	Connects the power cord to the projector.
⑪ Side cover A	Open to access the interface ports and focus lever.
⑫ Side cover B	The side cover can be divided into two parts; side cover A and side cover B. This allows you to use just side cover A if necessary, such as when you want to connect a streaming media player.

» Related Links

- "Air Filter and Vent Maintenance" [p.90](#)
- "Projector Indicator Status" [p.96](#)
- "Turning On the Projector" [p.35](#)
- "Cleaning the Obstacle Sensor and Motion Sensor" [p.88](#)
- "Cleaning the Projection Window" [p.87](#)
- "Focusing the Image Using the Focus Lever" [p.40](#)
- "Installing a Security Cable" [p.71](#)
- "Attaching and Removing the Side Cover" [p.29](#)

Projector Parts - Base

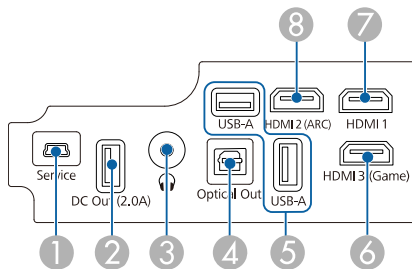


Name	Function
① Front adjustable feet	When the projector is setup on a surface such as a desk, turn the feet to correct image distortion. Caution Remove all feet when you install the projector on the ceiling.
② Air intake vent (air filter)	Takes in air to cool the projector internally.
③ Wire clamp fixing point	When you use the optional ceiling mount, fix the carabiner here to attach the safety wire and prevent the projector from falling from the ceiling. This point is marked with a ② on the projector.
④ Air exhaust vent	Exhaust vent for air used to cool the projector internally. Caution While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.
⑤ Air intake vent	Takes in air to cool the projector internally.
⑥ Rear adjustable foot	When setup on a surface such as a desk, extend the foot to adjust the position of the image. Caution Remove all feet when you install the projector on the ceiling.
⑦ Ceiling mount fixing points (four points)	Attach the optional ceiling mount here when suspending the projector from a ceiling. This point is marked with a ① on the projector.

» Related Links

- "Air Filter and Vent Maintenance" [p.90](#)
- "Installing the Safety Wire" [p.21](#)

Projector Parts - Interface Ports



Name	Function
① Service port	This port is used by service technicians and should not normally be used.
② DC Out (2.0A) port	Provides a connection for an optional or commercially available streaming media player allowing you to power it. USB data transfer is not available.
③ Audio Out port	Outputs audio from the current input source to headphones.
④ Optical Out port	Outputs audio from the current input source to an external audio device by connecting an optical digital audio cable.

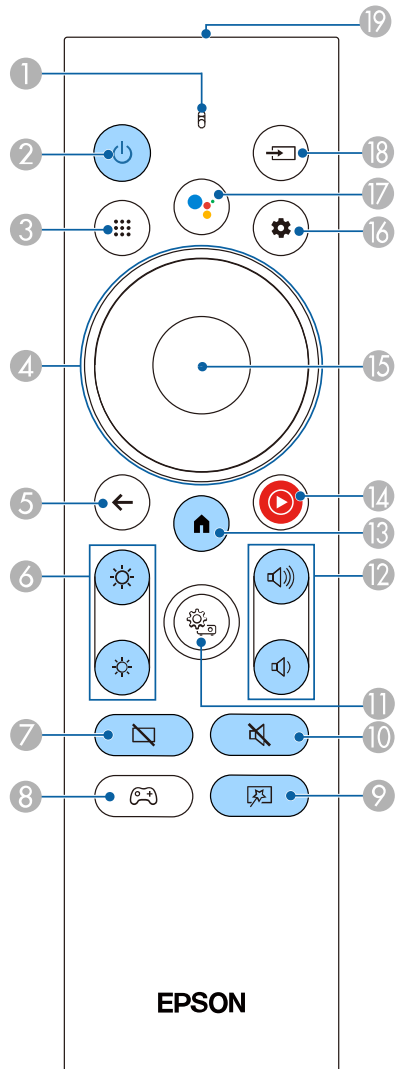
Name	Function
⑤ USB-A port	Connects a commercially available USB device such as a webcam, microphone, external HDD, USB memory, and receivers for microphones or game controllers. Connects a commercially available RJ45 adapter to enable wired LAN connections.  This port is not guaranteed to operate for all devices that support USB.
⑥ HDMI3 (Game) port	Connects a gaming device. Suitable for enjoying games that require fast response times. Compatible with HDCP 2.3.
⑦ HDMI1 port	Inputs video signals from HDMI compatible video equipment and computers. Compatible with HDCP 2.3.
⑧ HDMI2 (ARC) port	Inputs video signals from HDMI compatible video equipment and computers. Compatible with HDCP 2.3 and HDMI ARC.

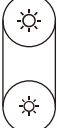
» Related Links

- "Connecting to Video Sources" [p.24](#)
- "Connecting to External USB Devices" [p.24](#)
- "Connecting to External Audio Devices" [p.25](#)
- "Connecting to a Streaming Media Player" [p.25](#)
- "Connecting to an ARC Compatible AV System" [p.26](#)
- "Connecting to a Gaming Device" [p.27](#)
- "Connecting Headphones" [p.28](#)

Projector Parts - Projector Remote Control

When the input source is set to HDMI3 (Game), you can only use the remote control buttons that have been shaded in blue in the following image.



Name	Function
① Indicator/Microphone	Turns on when outputting signals from the remote control. Detects audio when you press the Google Assistant button.
② Power button 	Turns the projector on or off. Hold down this button to display menus for turning off and restarting. The capture function is not supported.
③ Apps button * 	Displays a list of applications.
④ Directional pad * 	Selects menu items while displaying the projector's menu.
⑤ Esc button * 	Stops the current function. Moves back to the previous menu level while displaying the projector's menu.
⑥ Brightness buttons 	Adjusts the brightness of the projected image.
⑦ Blank button 	Turns the video off temporarily to output sound only.
⑧ Gaming mode button * 	Displays the HDMI3 (Game) source image. Suitable for enjoying games that require fast response times.
⑨ Flexible Picture menu button 	Displays the Flexible Picture menu where you can change the image size and position, flip the image horizontally, or blur the edges of the image.

Name	Function
10 Audio mute button 	Turns the audio on or off temporarily.
11 Projector Settings button * 	Displays the projector's menu. You can use the projector's menu to adjust the settings that control how your projector works.
12 Volume buttons 	Adjusts the volume of the speaker and headphones.
13 Home button 	Displays the Android TV™ home screen.
14 YouTube Music button * 	Displays the YouTube Music app.
15 [Enter] button *	Enters the current selection and moves to the next level while displaying the projector's menu.
16 Android TV Settings button * 	Displays the Android TV menu.
17 Google Assistant button * 	Press the Google Assistant button on your remote to quickly search 500,000+ movies and shows, get recommendations to match your mood, control smart home devices, and more.  Google Assistant is not available in certain languages and countries. Availability of services varies by country and language.

Name	Function
18 Source Search button * 	Displays a list of available input sources for HDMI1 and HDMI2.
19 Remote control light emitting area	Outputs remote control signals.

*When the input source is set to HDMI3 (Game), these buttons are not available.

» Related Links

- "Color Mode" [p.51](#)
- "Android TV Home Screen" [p.33](#)
- "Remote Control Operation" [p.30](#)
- "Selecting an Image Source" [p.48](#)
- "Adjusting the Light Source Brightness Manually" [p.45](#)
- "Changing the Image Size or Position (Flexible Picture)" [p.63](#)
- "Flipping the Image Horizontally (Flexible Picture)" [p.64](#)
- "Blurring the Edges of the Image (Flexible Picture)" [p.65](#)
- "Turning On the Projector" [p.35](#)
- "Controlling the Volume with the Volume Buttons" [p.56](#)
- "Shutting Off the Image Temporarily (Blank)" [p.61](#)
- "Turning Off the Sound Temporarily (Audio Mute)" [p.60](#)
- "Using the Projector Settings" [p.75](#)
- "Connecting to a Gaming Device" [p.27](#)

Setting Up the Projector

Follow the instructions in these sections to set up your projector.

» Related Links

- "Projector Placement" [p.16](#)
- "Installing the Safety Wire" [p.21](#)
- "Projector Connections" [p.24](#)
- "Attaching and Removing the Side Cover" [p.29](#)
- "Installing Batteries in the Remote Control" [p.30](#)
- "Setting Up Android TV on the Projector" [p.32](#)

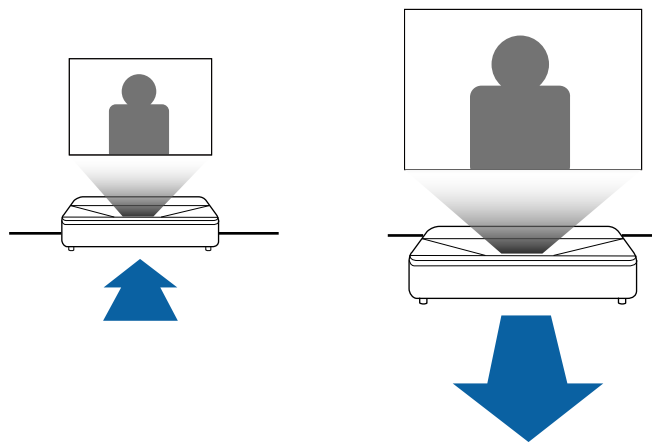
You can place the projector on almost any flat surface to project an image.

You can also install the projector in a ceiling mount if you want to use it in a fixed location. An optional ceiling mount is required when suspending the projector from a ceiling.

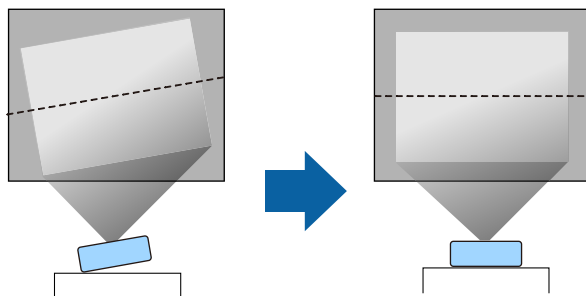
The projector can be installed at various angles. There is no vertical or horizontal limit to how the projector can be installed.

Note the following points when selecting a projector location:

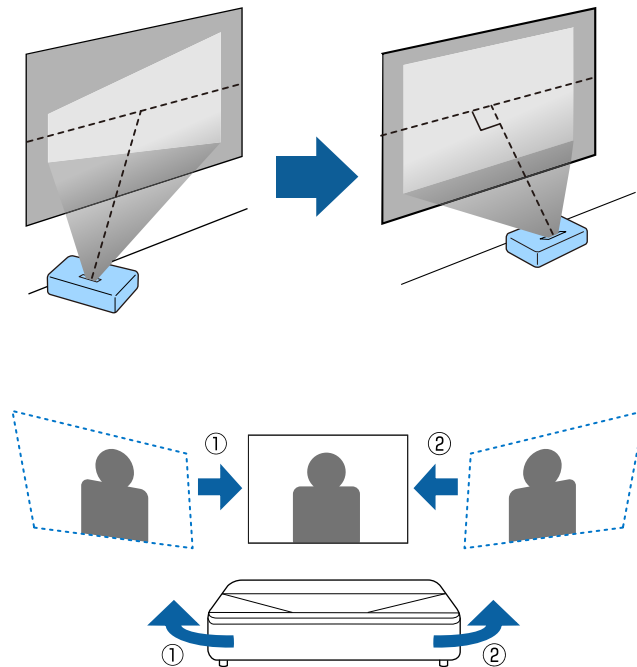
- To change the projected image size, move the projector back and forth.



- Place the projector on a sturdy, level surface or install it using a compatible mount.

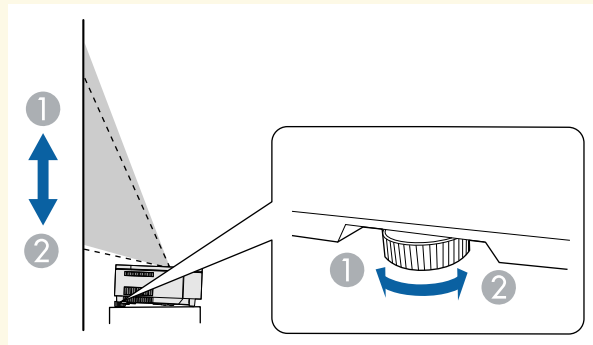
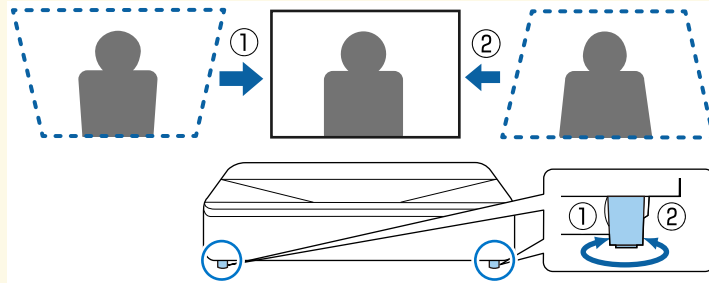


- Leave plenty of space around and under the projector for ventilation, and do not place it on top of or next to anything that could block the vents.
- Place the projector so it squarely faces the screen, not at an angle.





You can adjust distortion and the height of the projected image using the front adjustable feet and rear adjustable foot.



Warning

- You must install a ceiling mount when suspending the projector from a ceiling. If you do not install the projector correctly, it could fall and cause damage or injury.
- A special method of installation is required when suspending the projector from a ceiling. If you do not install the projector correctly, it could fall and cause damage or injury.
- Do not use adhesives on the ceiling mount fixing points to prevent the screws from loosening, or use lubricants, oils, or similar substances on the projector; the projector case may crack causing it to fall from its ceiling mount. This could cause serious injury to anyone under the ceiling mount and could damage the projector.
- Failure to install the ceiling mount and projector may cause the projector to fall. After installing the specific Epson mount that supports your projector, make sure you secure the mount to all of the projector's ceiling mount fixing points. Also, secure the projector and the mounts using the safety wire supplied with the projector or an optional wire.
- Do not install the projector in a location subject to high levels of dust or humidity, or in a location subject to smoke or steam. Otherwise, it could cause a fire or electric shock to occur. The projector's case could also deteriorate and be damaged causing the projector to fall from the mount.

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

- Locations subject to excessive smoke or airborne oil particles, such as factories or kitchens
- Locations containing volatile solvents or chemicals, such as factories or laboratories
- Locations where the projector could be subjected to detergents or chemicals, such as factories or kitchens
- Locations in which aroma oils are often used, such as relaxation rooms
- Near devices that produce excessive smoke, airborne oil particles, or foam at events
- Locations near humidifiers

⚠ Warning

- Do not cover the projector's air intake or air exhaust vents. If the vents are covered, the internal temperature could rise and cause a fire.
- Do not use or store the projector in locations where it will be subject to dust or dirt. Otherwise, the quality of the projected image may decline, or the air filter may become clogged, resulting in a malfunction or fire.
- Do not install the projector on an unstable surface or in a location beyond the weight specifications of the projector. Otherwise, it could fall or topple causing an accident and injury.
- When installing the projector in a high position, take measures to prevent falling by using wires 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 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.

Attention

- If you are using the projector at altitudes above 1,500 m, set the **High Altitude Mode** setting to **On** in the projector's menu to ensure the projector's internal temperature is regulated properly.
- Try not to setup the projector in locations subject to high humidity and dust, or in locations subject to smoke from fires or tobacco smoke.

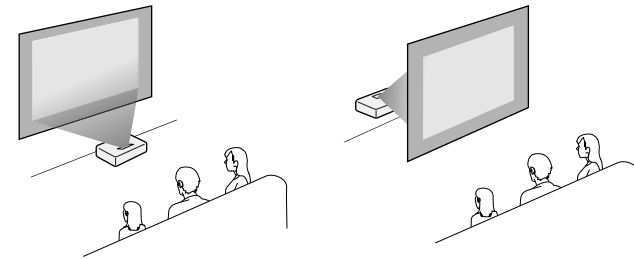
» Related Links

- "Projector Setup and Installation Options" [p.18](#)
- "Precautions on Installation" [p.19](#)
- "Screen Size and Projection Distance" [p.111](#)
- "Projector Installation Settings - Installation Menu" [p.80](#)
- "Projector Feature Settings - Settings Menu" [p.81](#)
- "Changing the Image Size or Position (Flexible Picture)" [p.63](#)
- "Focusing the Image Using the Focus Lever" [p.40](#)

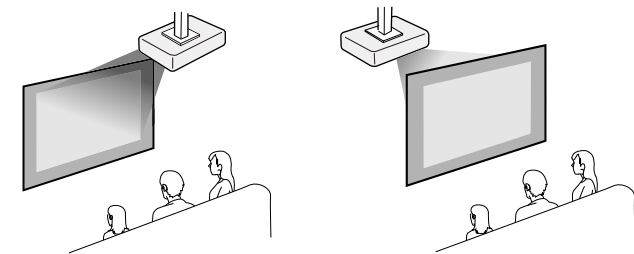
Projector Setup and Installation Options

You can set up or install your projector in the following ways:

Front/Rear



Front Upside Down/Rear Upside Down



- The default **Projection** setting is **Front**.

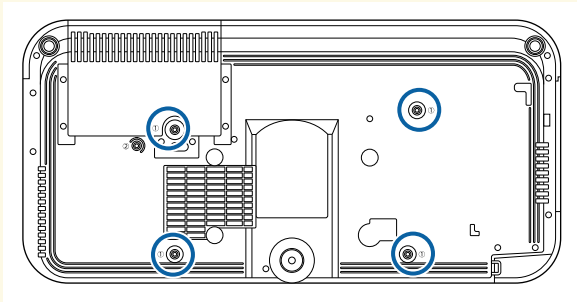
» Related Links

- "Projection Modes" [p.38](#)

Precautions on Installation

Attention

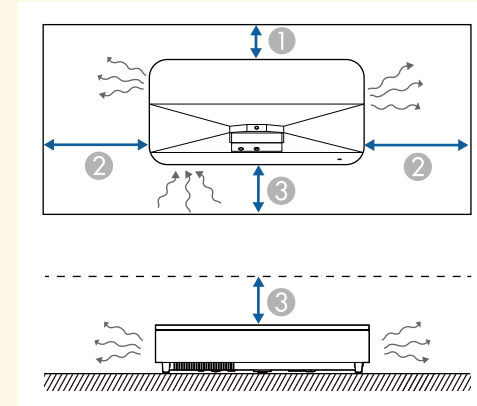
- If the projector is installed at an angle, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- Install the projector appropriately to prevent it from falling down.
- Use M4 screws (up to a depth of 9 mm) to fix the projector's ceiling mount fixing points and the mounting hardware at four points.



Installation space

Attention

Be sure to leave the following amount of space around the projector so as not to block the air exhaust and intake vents.

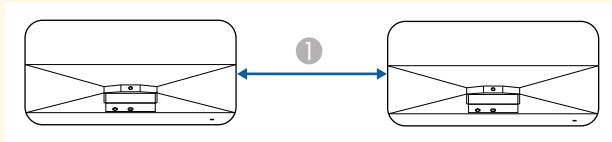


- ① 2.3 cm
- ② 20 cm
- ③ 10 cm

Installation space (When installing multiple projectors side by side)

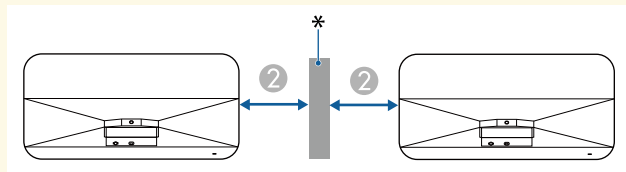
Attention

- If you are installing multiple projectors next to each other, make sure hot air from the exhaust vent does not go into the air intake vent of another projector.



① 110 cm

- If you use a partition, you can narrow the space between the projectors.



② 20 cm

* Partition

You can install the safety wire to prevent the projector from falling from the ceiling.

Warning

Be sure to use the safety wire provided with the Epson ceiling mount. The safety wire is available as an optional Safety Wire Set ELPWR01.

» Related Links

- "When Using the Ceiling Mount ELPMB22" [p.21](#)
- "When Using the Ceiling Mount ELPMB30" [p.22](#)

When Using the Ceiling Mount ELPMB22

You can attach a safety wire to your projector for increased safety as shown.

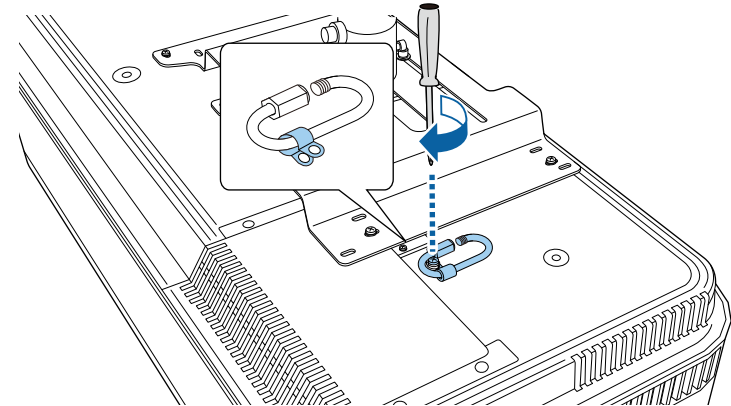
Before you start, you need to remove the front adjustable feet and the rear adjustable foot from the projector. Also, make sure you have securely attached the ELPMB22 ceiling mount to the projector and have the following items that are included in the safety wire set:

- Safety wire × 1
- Carabiner × 2 (Only one carabiner is used for the ELPMB22.)
- Wire clamp × 1
- Attaching screw (M4 × 10 mm) × 1

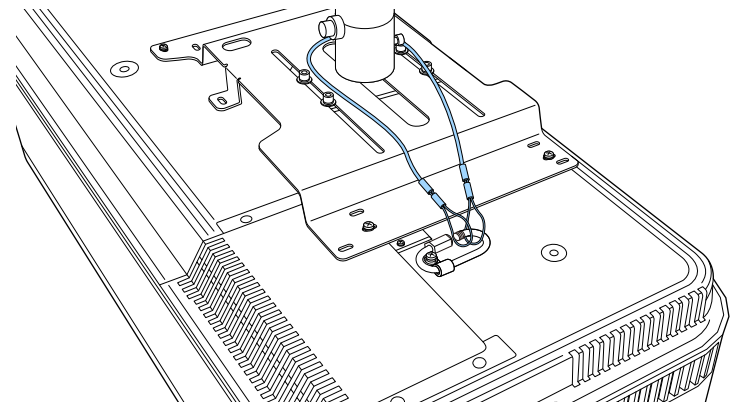


For details on installing the ELPMB22, see the *Ceiling Mount ELPMB22/ELPMB23 Instruction Manual*.

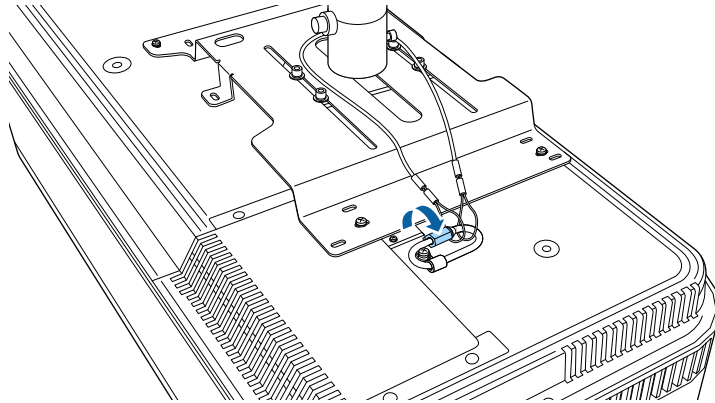
- 1** Attach the wire clamp to the carabiner, and then use the screw to fix the wire clamp to the wire clamp fixing point (②) on the projector.



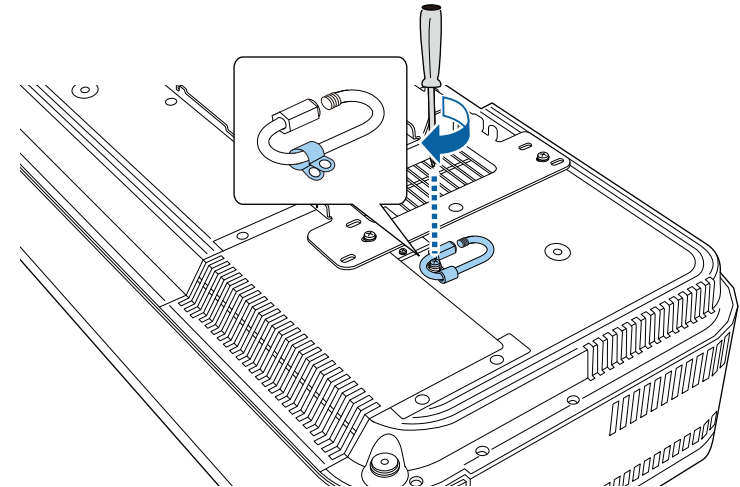
- 2** Loop the safety wire around the support shaft of the ceiling mount, and attach both ends to the carabiner on the projector.



- 3** Tighten the carabiner lock.



- 1** Attach the wire clamp to the carabiner, and then use the screw to fix the wire clamp to the screw into the wire clamp fixing point (2) on the projector.



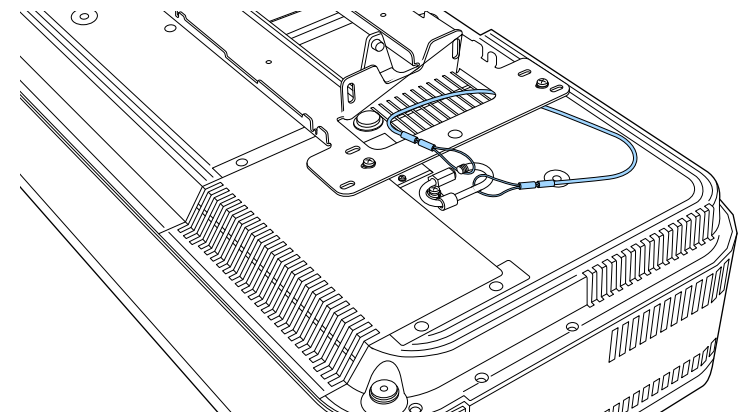
When Using the Ceiling Mount ELPMB30

You can attach a safety wire to your projector for increased safety as shown.

Before you start, you need to remove the front adjustable feet and the rear adjustable foot from the projector. Also, make sure you have securely attached the projector plate for the ELPMB30 ceiling mount to the projector and have the following items that are included in the safety wire set:

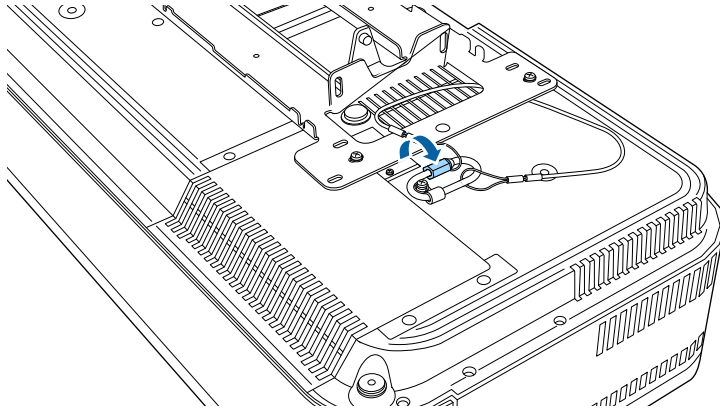
- Safety wire × 1
- Carabiner × 2 (Only one carabiner is used for the ELPMB30.)
- Wire clamp × 1
- Attaching screw (M4 × 10 mm) × 1

- 2** Loop the safety wire through the hole in the ceiling mount, and then attach both ends to the carabiner.



For details on installing the ELPMB30, see the *ELPMB30 User's Guide*.

- 3** Tighten the carabiner lock.



See these sections to connect the projector to a variety of projection sources.

Attention

- Check the shape and orientation of the connectors on any cable you plan to connect. Do not force a connector into a port if it does not fit. The device or your projector could be damaged or could malfunction.
- Depending on the connected device and the shape of the cable, you may not be able to attach the side cover to the projector. In that case, do not force the cover into place. The device or your projector could be damaged or could malfunction.

» Related Links

- "Connecting to Video Sources" [p.24](#)
- "Connecting to External USB Devices" [p.24](#)
- "Connecting to External Audio Devices" [p.25](#)
- "Connecting to a Streaming Media Player" [p.25](#)
- "Connecting to an ARC Compatible AV System" [p.26](#)
- "Connecting to a Gaming Device" [p.27](#)
- "Connecting Headphones" [p.28](#)

Connecting to Video Sources

If your video source has an HDMI port, you can connect it to the projector using an HDMI cable and send the image source's audio with the projected image.

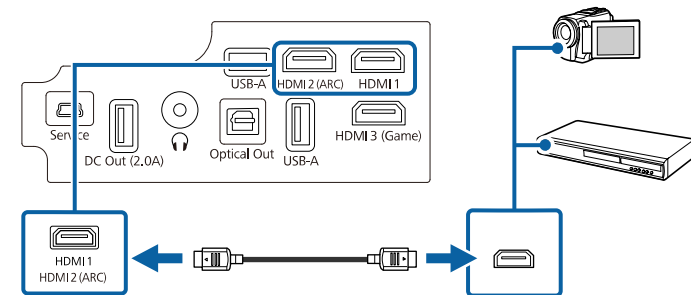
Attention

Do not turn on the video source before connecting it to the projector. Doing so could damage the projector.



- If the port on the device you connect has an unusual shape, use the cable supplied with the device or an optional cable to connect to the projector.
- Some video equipment is capable of outputting different types of signals. See your video equipment manual to confirm what type of signals can be output.
- When sending 18 Gbps images such as 4K 60Hz 4:4:4, use an HDMI cable (premium-high speed). If you use an incompatible cable, images may not be displayed correctly.

- 1** Connect the HDMI cable to your video source's HDMI output port.
- 2** Connect the other end to the projector's HDMI port.



Connecting to External USB Devices

By connecting any of these devices to your projector, you can project images and other content or play audio without using a video device.

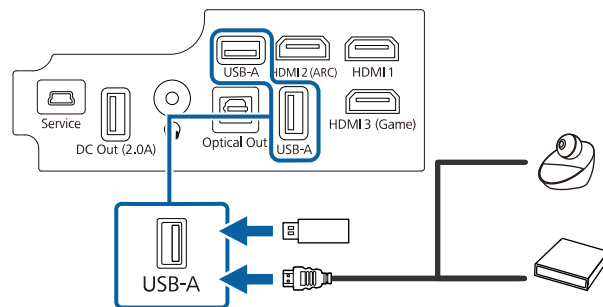
- Microphone
- USB flash drive
- Digital camera
- USB hard drive



- USB-A port is not guaranteed to operate all devices that support USB.
- You may need an app to project content from your USB device. Download the app on Google Play if necessary.
- USB hard drives must meet these requirements:
 - USB Mass Storage Class-compliant (not all USB Mass Storage Class devices are supported)
 - Formatted in FAT16/32
 - Self-powered by their own AC power supplies (bus-powered hard drives are not recommended)
 - Avoid using hard drives with multiple partitions

1 If your USB device came with a power adapter, plug the device into an electrical outlet.

2 Connect the USB device to the projector's USB-A port as shown.



Attention

- Use the USB cable supplied with or specified for use with the device.
- If the USB cable is too long, the device may not operate correctly. We recommend using a USB cable that is three meters or less.
- If you use a USB hub, the device may not operate correctly. We recommend checking the operation in advance.

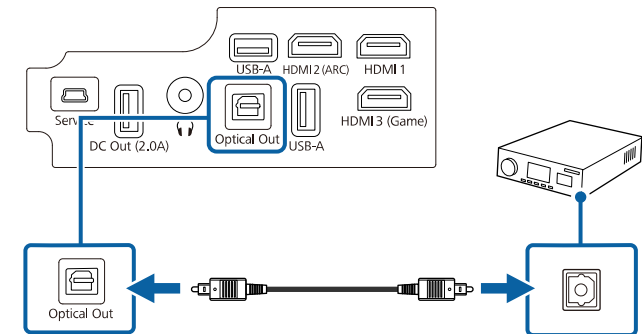
3 Connect the other end to your device, if necessary.

Connecting to External Audio Devices

If your amplifier or speaker has an optical digital audio input port, you can connect it to the projector using an optical digital audio cable and project audio from the image source.

1 Connect the optical digital audio cable to your audio device's optical digital audio input port.

2 Connect the other end to the projector's Optical Out port.



To change the audio settings, you can set **Sound Output** in the projector's **Sound** menu.

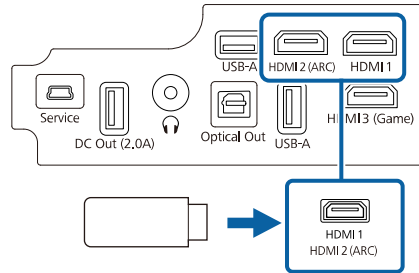
» Related Links

- "Detailed Sound Settings" [p.58](#)

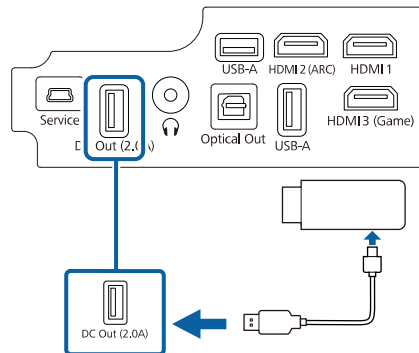
Connecting to a Streaming Media Player

You can connect your streaming media player to the projector's HDMI port. By connecting the power supply USB cable, you can power the streaming media player from the projector.

- 1 Connect your streaming media player to the projector's HDMI port.



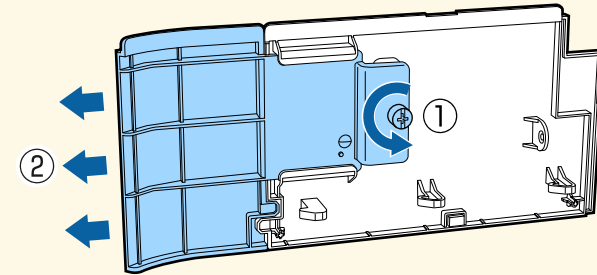
- 2 Connect the power supply USB cable to the projector's DC Out port.



- 3 Connect the other end to the streaming media player.



The side cover can be divided into two parts; side cover A and side cover B. This allows you to use just side cover A if necessary, such as when you want to connect a streaming media player.

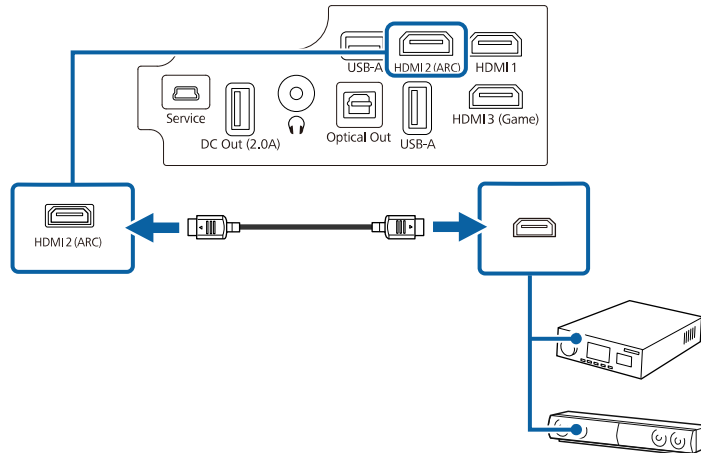


Connecting to an ARC Compatible AV System

If your AV system or speakers, such as a sound bar, has an HDMI port, you can connect them to the projector using an HDMI cable (with Ethernet) to output audio to these devices.

- 1 Connect the HDMI cable to your AV system's HDMI output port (ARC compatible).

- 2 Connect the other end to the projector's HDMI2 (ARC) port.



- To output audio from the projector's HDMI2 (ARC) port, set **HDMI2 ARC to On** and **Other Than HDMI3 (Game)** to **ARC/Optical (PCM)** or **ARC/Optical (Auto)** in the projector's menu.
 - ☛ **Settings > HDMI CEC > CEC Control > HDMI2 ARC**
 - ☛ **Sound > Sound Output > Other Than HDMI3 (Game)**
- If you want to output higher quality audio from the projector's HDMI2 (ARC) port, set **Sound Output** to **ARC/Optical (Auto)** in the projector's **Sound** menu.
- Audio format that is output from the projector's HDMI2 (ARC) port varies depending on the input source.
 - When the input source is **HDMI**, audio is output up to 5.1 ch (AC-3 or DTS).
 - When playing Android TV contents, audio is output in 2 ch (PCM).
- See the *Supplemental A/V Support Specification* for ARC audio supported formats.
- You cannot output sound from the HDMI2 (ARC) port when the input source is set to HDMI3 (Game).

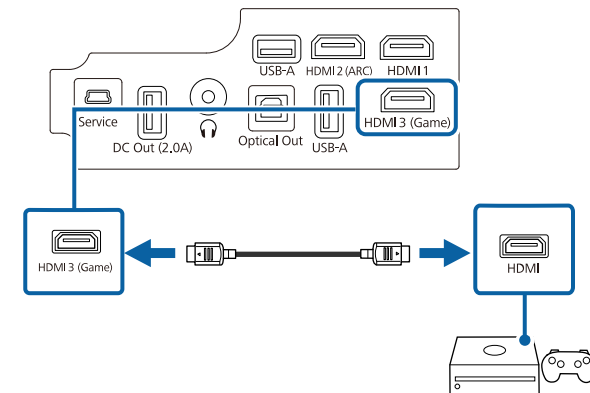
» Related Links

- "Detailed Sound Settings" [p.58](#)

Connecting to a Gaming Device

If your gaming device has an HDMI port, you can connect it to the projector's HDMI3 (Game) port using an HDMI cable and send the gaming device's audio with the projected image. The projector's HDMI3 (Game) port is suitable for enjoying games that require fast response times.

- 1 Connect the HDMI cable to your gaming device's HDMI output port.
- 2 Connect the other end to the projector's HDMI3 (Game) port.



- When you want to play audio on an external audio device, connect it to the projector using an optical digital audio cable. Set **Sound Output** in the projector's **Sound** menu.
- You cannot output sound from the HDMI2 (ARC) port when the input source is set to HDMI3 (Game).

» Related Links

- "Connecting to External Audio Devices" [p.25](#)

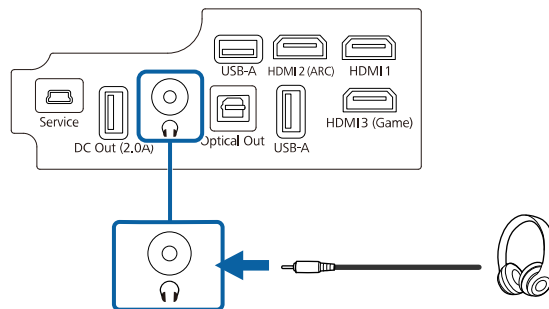
Connecting Headphones

You can connect headphones to the projector's Audio Out port. You can control the volume using the projector's remote control.

Attention

The projector's Audio Out port only supports 3-pin headphones. If you use any other headphones, audio may not be output normally.

- 1 Connect the stereo headphone's mini-jack cable to the projector's Audio Out port.



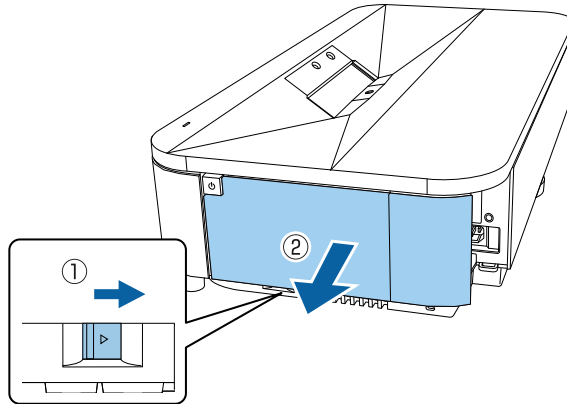
Caution

Do not start a playback at a high volume setting. Sudden loud noises may cause hearing loss.

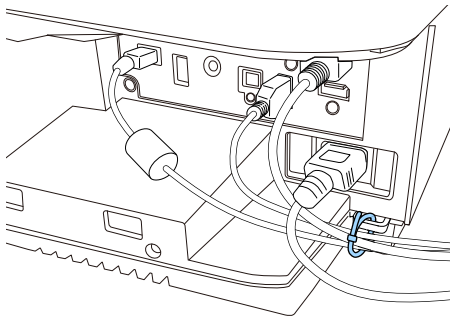
Always lower the volume before powering off, so that you can power on and then gradually increase the volume.

You can attach the side cover to hide the attached cables from view.

- 1 Remove the side cover from the projector.



- 2 Pass a commercially available cable tie through the cable holder and tie the cables together.



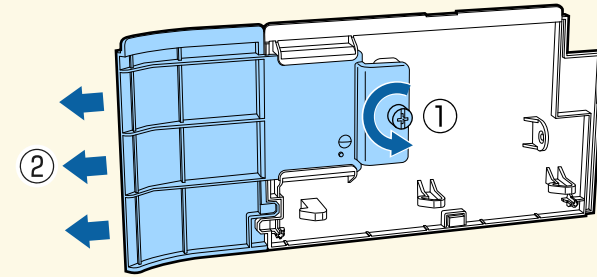
Caution

Do not bundle the power cord to the other cables. Otherwise, a fire may occur.

- 3 Replace the side cover.



The side cover can be divided into two parts; side cover A and side cover B. This allows you to use just side cover A if necessary, such as when you want to connect a streaming media player.

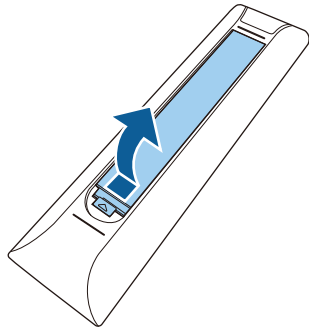


The remote control uses the two AAA batteries that came with the projector.

Attention

Make sure you read the *Safety Instructions* before handling the batteries.

- 1 Remove the battery cover as shown.

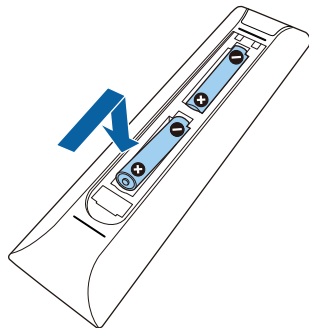


- 2 Remove the old batteries, if necessary.



Dispose of used batteries according to local regulations.

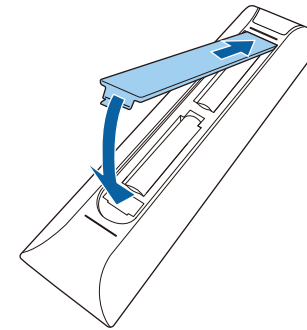
- 3 Insert the batteries with the + and – ends facing as shown.



Warning

Check the positions of the (+) and (–) marks inside the battery holder to ensure the batteries are inserted the correct way. If the batteries are not used correctly, they could explode or leak causing a fire, injury, or damage to the product.

- 4 Replace the battery cover and press it down until it clicks into place.



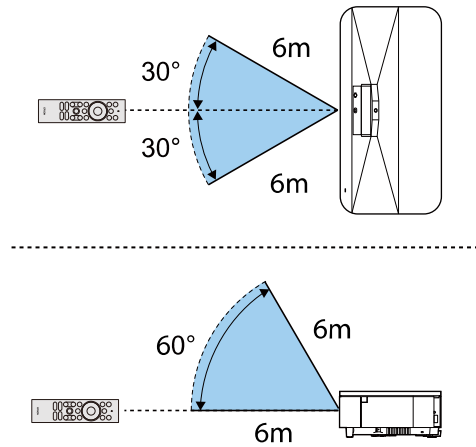
» Related Links

- "Remote Control Operation" [p.30](#)

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room.

It is recommended that you aim the remote control at the projector's receivers within the distance and angles listed here.



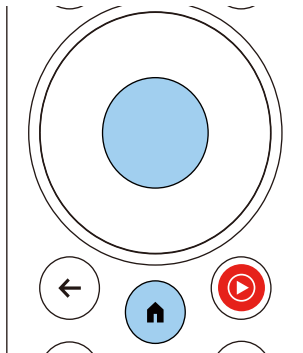
The projector may not respond to commands if you use the remote control in conditions with bright fluorescent lights or in direct sunlight. If you are not going to use the remote control for a long time, remove the batteries.

When you turn on the projector for the first time, you need to setup Android TV.



You can change each of the settings even after completing the initial setup. Press the  button on the remote control to display the menu and change the settings.

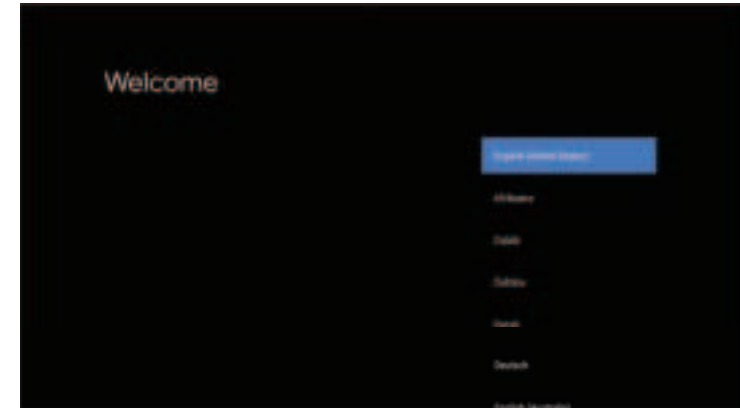
- 1** Turn on the projector.
- 2** When the pairing screen is displayed, hold down the [Enter] button and  button on the remote control at the same time to pair the remote control and the projector.



When pairing starts, the indicator on the remote control flashes. When pairing is complete, the indicator turns off.

- 3** When pairing ends, follow the on-screen instructions to make the necessary settings.

- 4** When the language selection screen is displayed, select the language you want to use.



- 5** When the Wi-Fi setting screen is displayed, select the wireless network you want to use, and then follow the on-screen instructions to make necessary settings.
 - An internet connection is required to view online content. Make sure you can use the Wi-Fi service.
 - The customer is responsible for any communication charges incurred when downloading the app or watching online content.
- 6** When the login screen is displayed, sign in using your Google Account.
 - You can download various popular apps and games on Google Play by signing in with your Google Account.
 - You can also create a Google Account on your computer or smart device.

When you have finished the initial setup, the home screen is displayed.

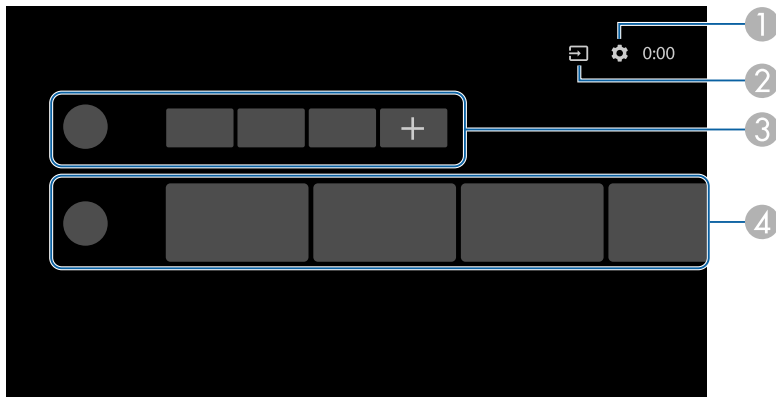
» Related Links

- "Android TV Home Screen" [p.33](#)

Android TV Home Screen

When you turn on the projector or press the  button on the remote control, the Android TV home screen is displayed.

You can easily access online content, applications, and projector settings from the home screen.



	Description
①	Displays the Settings menu. You can select various settings such as Wi-Fi setting, language setting, and Google Account information.
②	Displays a list of available input sources.
③	Displays the applications downloaded on the projector. You can add applications to this list by selecting the + icon.
④	Displays the online content recommended by the applications.

Using Basic Projector Features

Follow the instructions in these sections to use your projector's basic features.

» Related Links

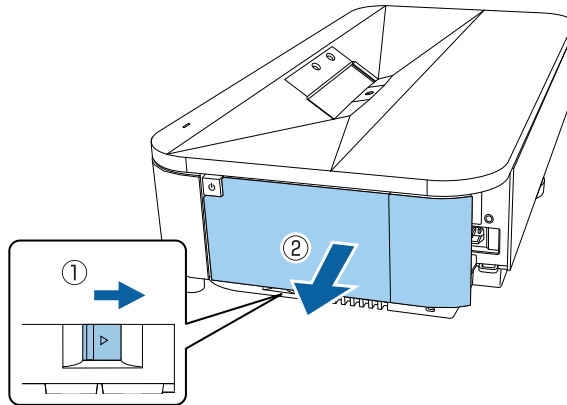
- "Turning On the Projector" [p.35](#)
- "Turning Off the Projector" [p.37](#)
- "Projection Modes" [p.38](#)
- "Adjusting the Image Height" [p.39](#)
- "Focusing the Image Using the Focus Lever" [p.40](#)
- "Adjusting Image Color when Projecting on to a Wall" [p.41](#)
- "Correcting Distortion in the Image" [p.42](#)
- "Adjusting the Light Source Brightness Based on the Brightness of Your Surroundings" [p.44](#)
- "Adjusting the Light Source Brightness Manually" [p.45](#)
- "Adjusting Contrast Based on the Brightness of the Content" [p.46](#)
- "Selecting an Image Source" [p.48](#)
- "Image Aspect Ratio" [p.49](#)
- "Color Mode" [p.51](#)
- "Adjusting the Image Quality" [p.53](#)
- "Controlling the Volume with the Volume Buttons" [p.56](#)
- "Adjusting the Sound Settings (Sound Mode)" [p.57](#)
- "Turning Off the Sound Temporarily (Audio Mute)" [p.60](#)
- "Shutting Off the Image Temporarily (Blank)" [p.61](#)

Turn on the projector before use.

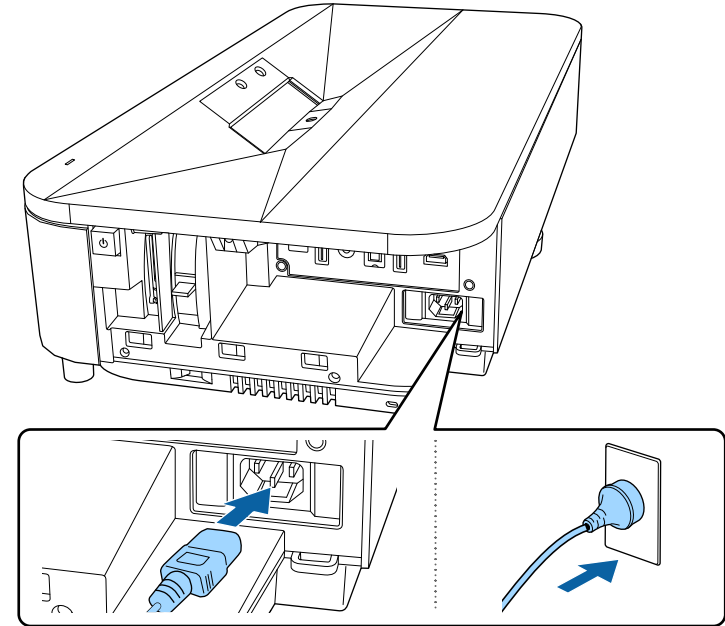


When you connect the video equipment to the projector, turn on the video equipment you want to use after you turn on the projector.

- 1** Remove the side cover.



- 2** Connect the power cord to the projector's power inlet and plug it into an electrical outlet.



The projector enters standby mode. This indicates that the projector is receiving power, but is not yet turned on.

- 3** Press the power button on the projector or remote control to turn on the projector.

The status indicator flashes blue as the projector warms up. Once the projector is warmed up, the status indicator stops flashing and turns blue.

The first time you turn on the projector, the remote control pairing screen and initial setup screen are displayed. Follow the on-screen instructions to complete the settings.

Warning

- Never look into the projector lens when the light source is on. This can damage your eyes and is especially dangerous for children.
- When turning on the projector at a distance using the remote control, make sure there is no one looking into the lens.
- During projection, do not block the light from the projector with a book or other objects. If the light from the projector is blocked, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction. To stop projection, turn off the projector.



When using at an altitude of 1,500 m or more, set **High Altitude Mode** to **On**.

 **Settings > High Altitude Mode**

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)

Turn off the projector after use.



- Turn off this product when it is not in use to prolong the life of the projector. Light source life varies depending on the environmental conditions and usage. Brightness decreases over time.
- The operation performed by the power button depends on the setting made in **Power Button Setting** from the projector's **Settings** menu.

1 Press the power button on the projector or remote control.
The light source turns off, and the status indicator turns off.

2 To transport or store the projector, make sure the status indicator on the projector is off, and then unplug the power cord.

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)

Depending on how you positioned the projector, you may need to change the projection mode so your images project correctly.

- **Front** lets you project from a table in front of the screen.
- **Front/Upside Down** flips the image over top-to-bottom to project upside-down from a ceiling mount.
- **Rear** flips the image horizontally to project from behind a translucent screen.
- **Rear/Upside Down** flips the image over top-to-bottom and horizontally to project from a ceiling mount and behind a translucent screen.

» Related Links

- "Changing the Projection Mode Using the Menus" [p.38](#)
- "Projector Setup and Installation Options" [p.18](#)

Changing the Projection Mode Using the Menus

You can change the projection mode to flip the image over top-to-bottom and/or left-to-right using the projector menus.

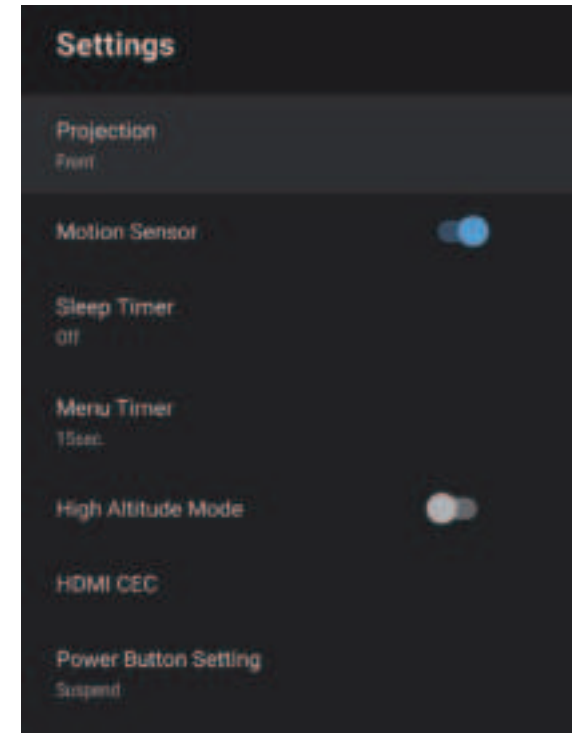
1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Settings** menu and press the [Enter] button.



4 Select **Projection** and press [Enter].

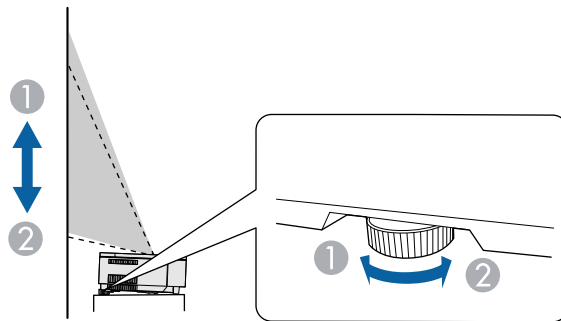
5 Select a projection mode and press [Enter].

6 Press  to exit the menus.

If you are projecting from a table or other flat surface and the image is too high or low, you can adjust the image height using the projector's adjustable feet.

The larger the angle of tilt, the harder it becomes to focus. Locate the projector so that it only needs to be tilted at a small angle.

- 1** Turn on the projector and display an image.
- 2** Rotate the rear feet to adjust the image height.



- 1** Extend the rear foot
- 2** Retract the rear foot

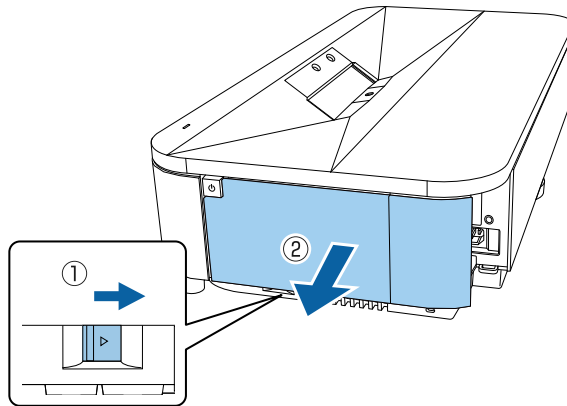
If the projected image is unevenly rectangular, you need to adjust the image shape.

» Related Links

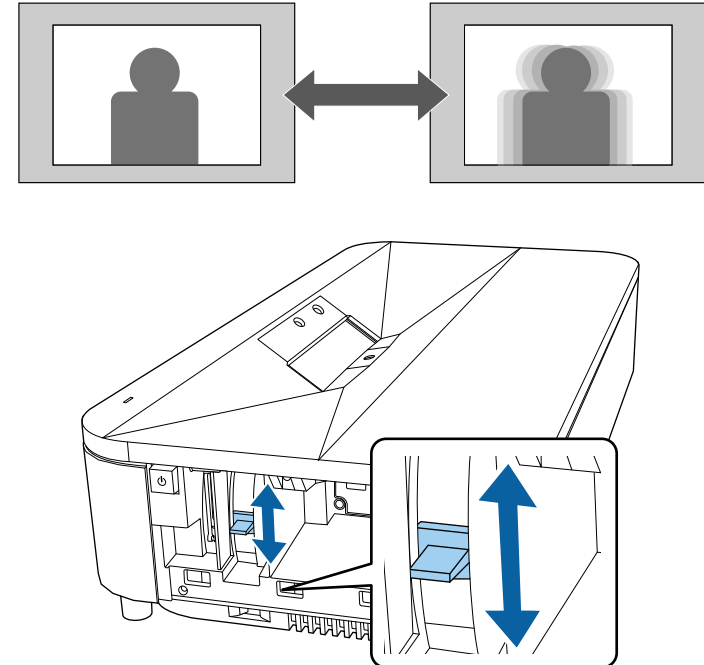
- "Correcting Distortion in the Image" [p.42](#)

You can correct the focus using the focus lever.

- 1** Turn on the projector and display an image.
- 2** Remove the side cover.



- 3** Move the focus lever to adjust the focus.



- 4** Replace the side cover.

When projecting on to a wall, you can use the preset color correction to compensate for the color of the wall.

You can make further detailed color adjustments in the projector's **Picture** menu.

1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Installation** menu and press the [Enter] button.



4 Select **Adjust color** and press the [Enter] button.

5 Select the color that is closest to the color of the wall, select **OK**, and then press the [Enter] button.



When the projected image is curved or not rectangular, you can correct distortion in the projected image by following the on-screen instructions from the **Installation** menu.

After correction, your image is slightly smaller.



To correct distortion more easily, you can use the Epson Setting Assistant application on a smart phone or tablet that has a camera function. Install the application by using the QR code displayed on the projected screen. The customer is responsible for any communication charges incurred when downloading the app.

1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

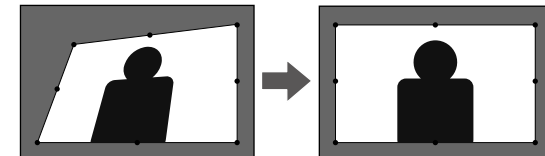
3 Select the **Installation** menu and press the [Enter] button.



4 While looking at the marks at the upper right and upper left of the screen, adjust the focus using the focus lever.



5 Follow the on-screen instructions to correct distortion in the image.



You can use the  button on the remote control to close the menus.

» Related Links

- "Projector Installation Settings - Installation Menu" [p.80](#)

You can turn on Adaptive Light Output to automatically adjust the brightness of your projector's light source based on the brightness of the surroundings.



- You can also adjust the brightness of your projector's light source manually by using the remote control. Manually set values take priority over automatically set values.
- This setting is not an absolute value as it varies relative to the manually set value.
- This function may not work properly if you use the projector in conditions with bright fluorescent lights or in direct sunlight.

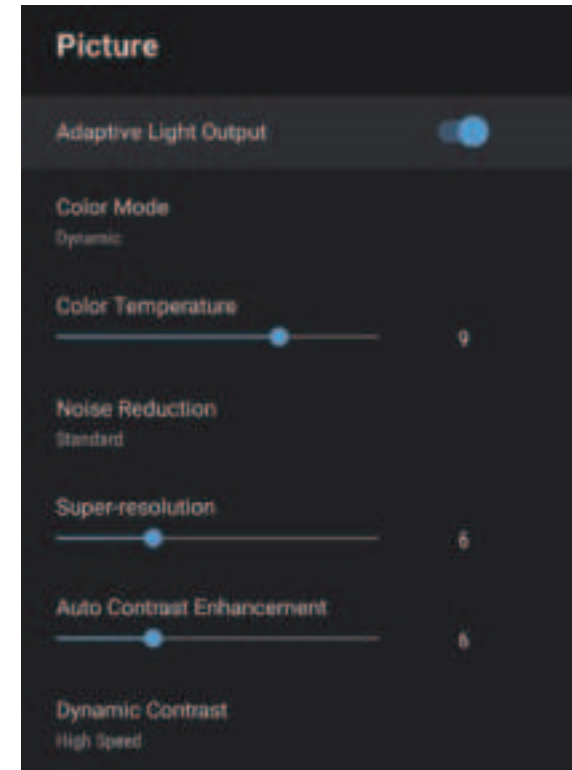
1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Picture** menu and press the [Enter] button.



4 Select the **Adaptive Light Output** menu and press [Enter] to enable the setting.

5 Press  to exit the menus.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)

You can adjust the brightness of your projector's light source.



This function is not available under the following conditions.

- When the light source brightness dims if the surrounding temperature gets too high
- When a problem has occurred

1 Turn on the projector and display an image.

2 To decrease or increase the light output, press the  or  button on the remote control.

A light output gauge is displayed on the screen.

You can turn on Dynamic Contrast to automatically optimize the image luminance. This improves the image contrast based on the brightness of the content you project.

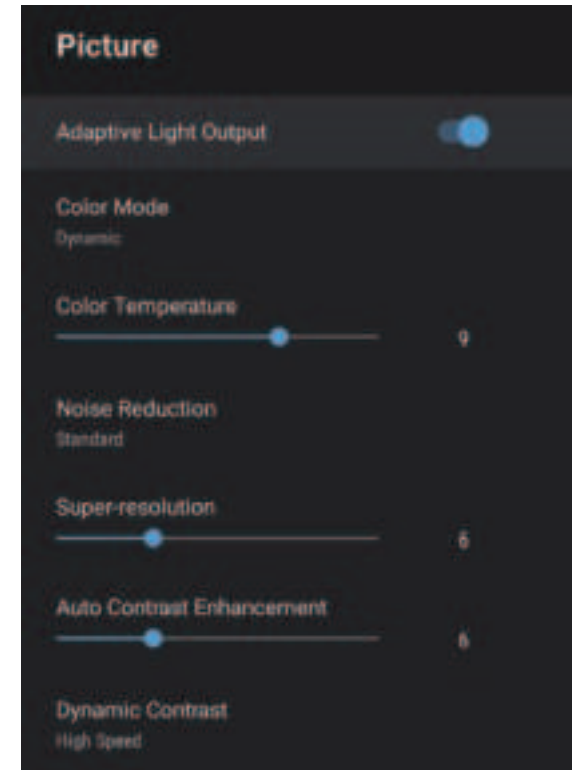
1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Picture** menu and press the [Enter] button.



4 Select **Dynamic Contrast** and press [Enter].

5 Select one of the following options and press [Enter]:

- **High Speed** to adjust brightness as soon as the scene changes.
- **Normal** for standard brightness adjustment.

6 Press  to exit the menus.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)

When multiple image sources are connected to the projector, you can switch from one image source to the other.

- 1** Make sure the connected image source you want to use is turned on.
- 2** For video image sources, insert a DVD or other video media and press play.
- 3** Do one of the following:
 - If you want to switch the image source to HDMI1 or HDMI2, press the  button on the remote control.
Next, select the source you want to use from the screen displayed.
 - If you want to switch the image source to HDMI3 (Game), press the  button on the remote control.
 - If you want to switch the image source to the Android TV home screen, press the  button on the remote control.



- When the input source is set to HDMI3 (Game), some buttons on the remote control are not available.
- When no image signal is detected, check the cable connections between the projector and the image source.

» Related Links

- "Projector Connections" [p.24](#)
- "Sound Quality Settings - Sound Menu" [p.78](#)
- "Projector Parts - Projector Remote Control" [p.13](#)

The projector can display images in different width-to-height ratios called aspect ratios. Normally, the input signal from your video source determines the image's aspect ratio. However, you can change the aspect ratio for certain images to fit your screen.

If you always want to use a particular aspect ratio for a certain video input source, you can select it using the projector's **Picture** menu.

» Related Links

- "Changing the Image Aspect Ratio" [p.49](#)
- "Available Image Aspect Ratios" [p.50](#)

Changing the Image Aspect Ratio

You can change the aspect ratio of the displayed image.

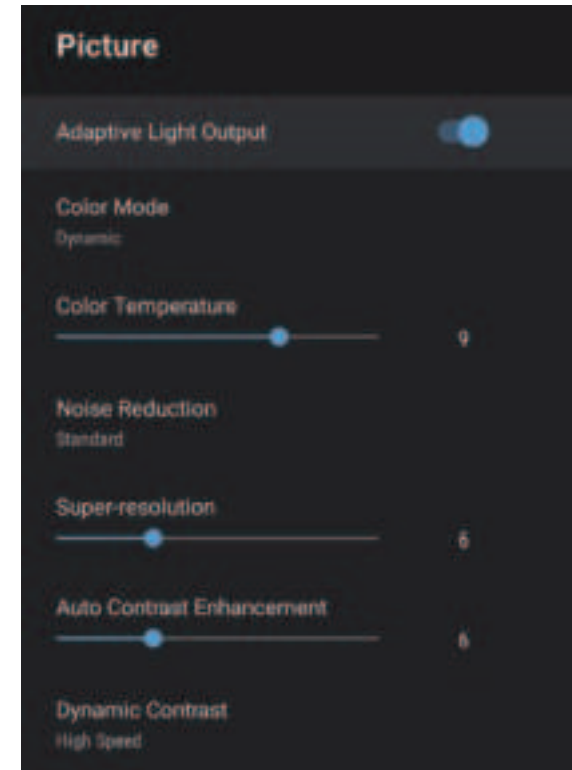
1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Picture** menu and press the [Enter] button.



4 Select **Aspect Ratio** and press [Enter].

5 Select one of the available aspect ratios for your input signal and press [Enter].

6 Press  to exit the menus.

Available Image Aspect Ratios

You can select the following image aspect ratios, depending on the input signal from your image source.



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

Aspect mode	Description
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
Full	Displays images using the full size of the projection area, but does not maintain the aspect ratio.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image.

The projector offers different color modes to provide optimum brightness, contrast, and color for a variety of viewing environments and image types. You can select the mode designed to match your image and environment, or experiment with the available modes.

» Related Links

- "Changing the Color Mode" [p.51](#)
- "Available Color Modes" [p.52](#)

Changing the Color Mode

You can change the projector's **Color Mode** using the remote control to optimize the image for your viewing environment.

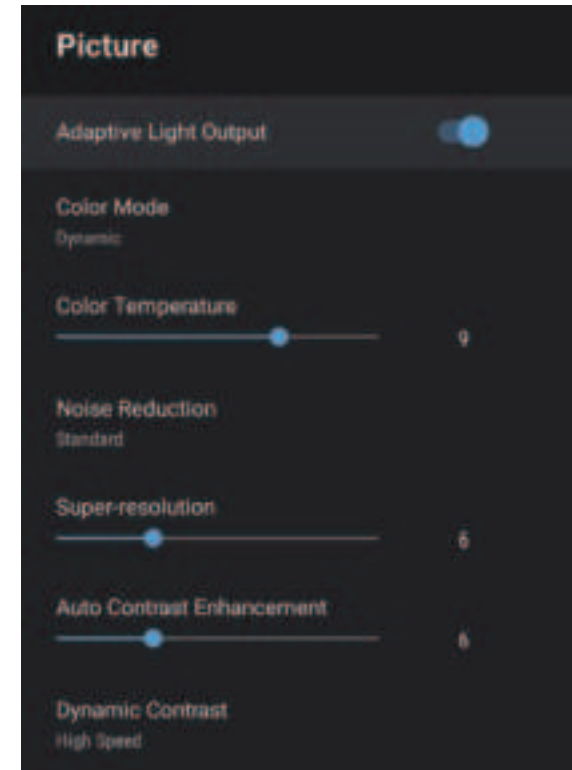
1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Picture** menu and press the [Enter] button.



4 Select **Color Mode** and press [Enter].

5 Select the color mode you want to use from the list and press [Enter].

6 Press  to exit the menus.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)

Available Color Modes

You can set the projector to use these color modes, depending on your environment and image types.

Color mode	Description
Dynamic	This is the brightest mode. Best for prioritizing brightness.
Vivid	Best for enjoying content with bright colors.
Cinema	Best for enjoying content such as movies.
Natural	Reproduces natural colors. This is the best option when you want to adjust the image color.

You can fine-tune various aspects of the quality of your projected images.

» Related Links

- "Adjusting Image Quality in Detail" [p.53](#)
- "Adjusting the Image Resolution" [p.54](#)
- "Setting Frame Interpolation" [p.55](#)

Adjusting Image Quality in Detail

You can fine-tune various aspects of how quality and colors are displayed in your projected images.



To optimize the color tone according to the scene, and to obtain a more vivid image, correct the image by adjusting the **Scene Adaptive Gamma** setting.

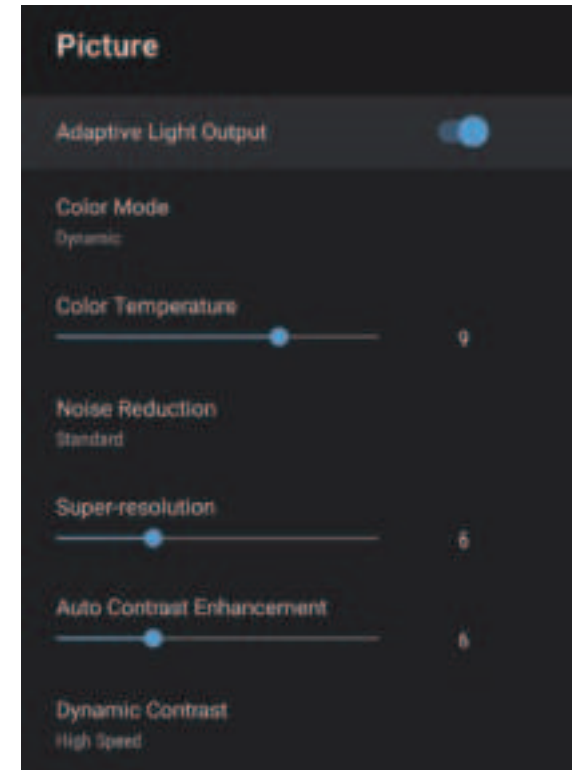
1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Picture** menu and press the [Enter] button.



4 Select **Custom Settings** and press [Enter].

5 Select one of the following options:

- To adjust the overall color brightness of the color, adjust the **Brightness** setting.
- To adjust the difference between light and dark areas of the image, adjust the **Contrast** setting.
- To adjust the overall vividness of the color, adjust the **Saturation** setting.

- To adjust the balance of green to magenta tones in the image, adjust the **Tint** setting.
- To adjust the outline of the image, adjust the **Sharpness** setting.

6 Press  to exit the menus.



You can set the overall color tone by adjusting the **Color Temperature** setting in the **Picture** menu if the image is too bluish or reddish.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)

Adjusting the Image Resolution

You can adjust the resolution of the image to reproduce a clear image with an emphatic texture and material feel.

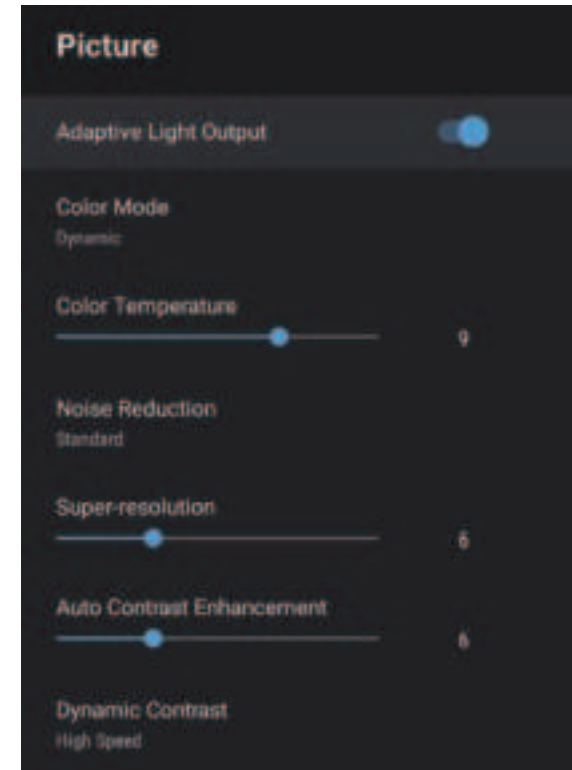
1 Turn on the projector and switch to the image source you want to use.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Picture** menu and press the [Enter] button.



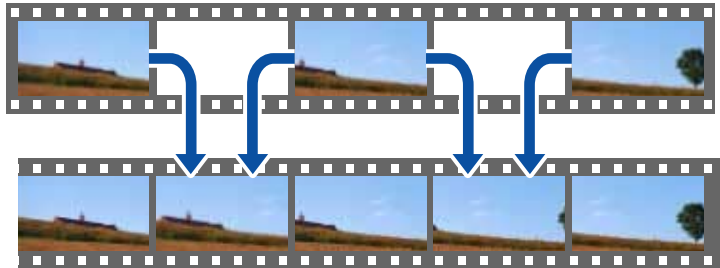
4 Adjust each setting in the projector's **Picture** menu individually as necessary.

- To reduce flickering in images, adjust the **Noise Reduction** setting.
- To reduce blurring appeared when projecting low resolution image, adjust the **Super-resolution** setting.
- To create a clearer and sharper image by automatically adjusting the contrast, adjust the **Auto Contrast Enhancement** setting.

5 Press  to exit the menus.

Setting Frame Interpolation

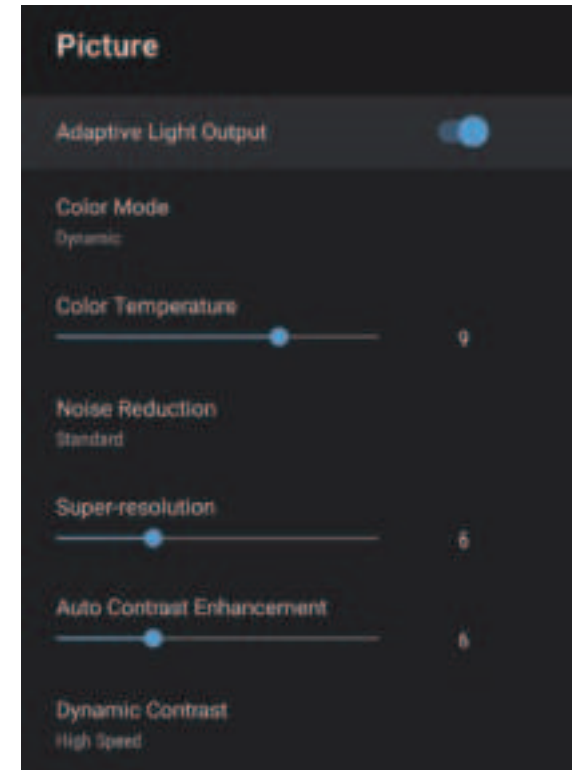
You can use the projector's **Frame Interpolation** feature to smooth fast-moving video by comparing consecutive image frames and inserting an intermediate image frame between them.



Frame Interpolation is available when the image source is anything except for HDMI3 (Game).

- 1** Turn on the projector and switch to the image source you want to use.
- 2** Press the  button on the remote control.

- 3** Select the **Picture** menu and press the [Enter] button.



- 4** Select **Frame Interpolation**, and press [Enter].
- 5** Select the level of interpolation and press [Enter].
- 6** Press  to exit the menus.

You can control the volume with the volume buttons.

- 1** Turn on the projector and start a video.
- 2** To lower or raise the volume, press the  or  button on the remote control.

A volume gauge appears on the screen.

Caution

Do not start a playback at a high volume setting. Sudden loud noises may cause hearing loss.

Always lower the volume before powering off, so that you can power on and then gradually increase the volume.

» **Related Links**

- "Projector Feature Settings - Settings Menu" [p.81](#)

The projector offers various sound settings to fine-tune the sound quality for a variety of listening environments.

You can select the mode designed to match your image, or experiment with the available modes.



Sound settings explained in the following section are only available for sound that is being output from the projector's speaker.

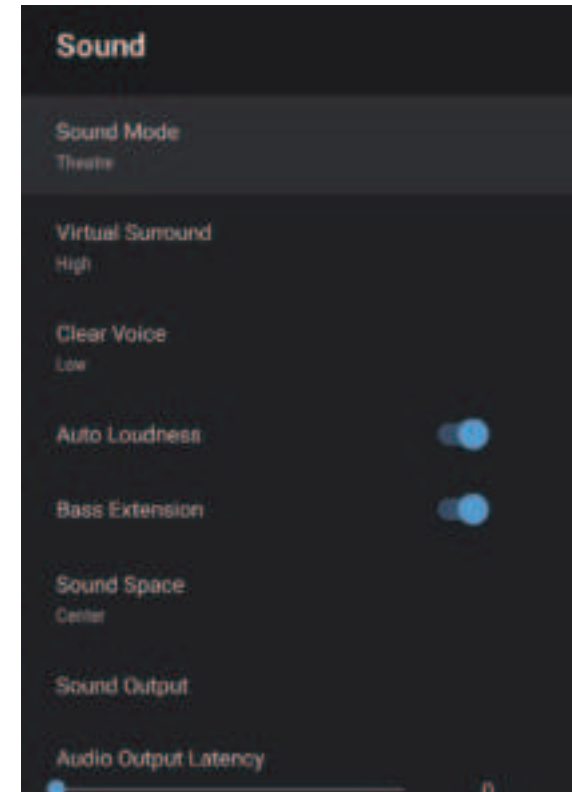
1 Turn on the projector and start a video.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Sound** menu and press the [Enter] button.



4 Select **Sound Mode** and press [Enter].

5 Select your sound mode and press [Enter].

6 Select detailed sound settings such as surround-sound effect and make settings according to your listening environment as necessary.

7 Press  to exit the menus.

» Related Links

- "Available Sound Modes" [p.58](#)
- "Detailed Sound Settings" [p.58](#)
- "Sound Quality Settings - Sound Menu" [p.78](#)

Available Sound Modes

You can set the following sound modes in the projector's **Sound** menu.

Sound mode	Description
Theatre	The surround effect recreates the acoustic environment of a movie theater. Allows you to enjoy realistic and powerful sound.
TV	Plays back voice clearly. This is ideal for watching news, documentaries, and other TV shows.
Studio	With a wide frequency range of playback and balanced sound quality, this feature reproduces the sound intended by creators and artists.
Stadium	This realistically reproduces the atmosphere of stadiums and crowds, providing you with clear, live voice play back. Allows you to enjoy watching sports in a realistic atmosphere.
Concert	This reproduces the echoes and expanse of a concert venue, giving you a true sense of elation.
Karaoke Mode	This is ideal for playing back karaoke content as it reproduces the echoes and expanse of a concert venue. Allows you to play songs without sacrificing the vocal effects provided by karaoke apps and microphones.

Detailed Sound Settings

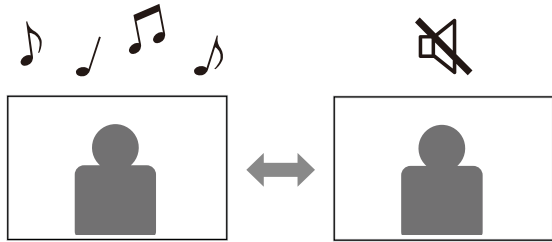
You can set the projector to use these detailed sound menus depending on your listening environment.

Setting	Description
Virtual Surround	Adjusts the strength of the surround effect. This setting is saved for each Sound Mode.
Clear Voice	Adjusts the voice so that it can be heard clearly. This setting is saved for each Sound Mode.
Auto Loudness	Even when playing at low volumes, this automatically corrects the balance between high and low tones in the audio so that they are not out of balance.
Bass Extension	Emphasizes the bass levels to reproduce a powerful bass.
Sound Space	Adjusts the sound quality to suit your viewing position.
Sound Output	Select the input source and audio output device. • Other Than HDMI3 (Game) • Speaker/Optical (PCM): Outputs sound in PCM format (2 ch) to the projector's speakers and an external audio device connected to the Optical Out port. • Speaker/Optical (Auto): Outputs sound in PCM format (2 ch) to the projector's speakers. Outputs higher quality sound to an external audio device connected to the Optical Out port. • ARC/Optical (PCM): Outputs sound in PCM format (2 ch) to an ARC compatible external audio device connected to the HDMI2 (ARC) port and an external audio device connected to the Optical Out port. • ARC/Optical (Auto): Outputs higher quality sound to an ARC compatible external audio device connected to the HDMI2 (ARC) port and an external audio device connected to the Optical Out port. Auto supports the following audio codecs: • PCM (2 ch) • AC-3 (up to 5.1 ch) • DTS (up to 5.1 ch)

Setting	Description
	 - If sound is not output correctly, select PCM. - Audio format that is output from the projector's HDMI2 (ARC) port varies depending on the input source. - When the input source is HDMI, audio is output up to 5.1 ch (AC-3 or DTS). - When playing Android TV contents, audio is output in 2 ch (PCM). HDMI3 (Game) Speaker (PCM): Outputs sound in PCM format (2 ch) to the projector's speakers. Optical (PCM): Outputs sound in PCM format (2 ch) to an external audio device connected to the Optical Out port. Optical (Digital Audio): Outputs higher quality sound to an external audio device connected to the Optical Out port. Digital Audio supports the following audio codecs: - PCM (2 ch) - AC-3 (up to 5.1 ch) - DTS (up to 5.1 ch)  If sound is not output correctly, select PCM.

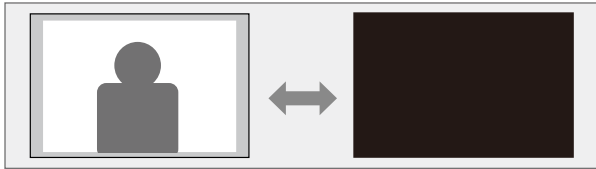
Setting	Description
Audio Output Latency	Adjusts the audio latency. If the audio is fast, select a higher value. This item is only available for the following types of audio. - audio output from the projector's speaker - audio output from the HDMI2 (ARC) port - audio output from the Optical Out port When the input source is set to HDMI3 (Game), this setting is not available.

You can temporarily mute the sound.



- 1** Press the  button on the remote control to temporarily mute the sound.
- 2** To turn the sound back on, press  again.

You can temporarily turn off the projected image. This feature is useful when you want to use the projector as a speaker.



1 Press the  button on the remote control to temporarily stop projection.

2 To turn the image back on, press the  button again.



Any video action continues to run, however, so you cannot resume projection at the point that you stopped it.

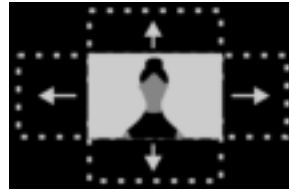
Adjusting Projector Features

Follow the instructions in these sections to use your projector's adjustment features.

» Related Links

- "Changing the Image Size or Position (Flexible Picture)" [p.63](#)
- "Flipping the Image Horizontally (Flexible Picture)" [p.64](#)
- "Blurring the Edges of the Image (Flexible Picture)" [p.65](#)
- "Using the Projector as a Bluetooth Speaker" [p.66](#)
- "Using Your Projector as Chromecast" [p.68](#)
- "HDMI CEC Features" [p.69](#)
- "Installing a Security Cable" [p.71](#)
- "Updating Projector Firmware" [p.72](#)
- "Initializing the Projector" [p.73](#)

You can reduce the projected image size and change the position of the image without moving the projector.



- 1 Turn on the projector and display an image.
- 2 Press the  button on the remote control to display the **Flexible Picture** menu.



You cannot use this button when displaying the **Installation** menu.

- 3 Press the  or  button on the remote control to adjust the image size.



You can reduce the image size to 30%.

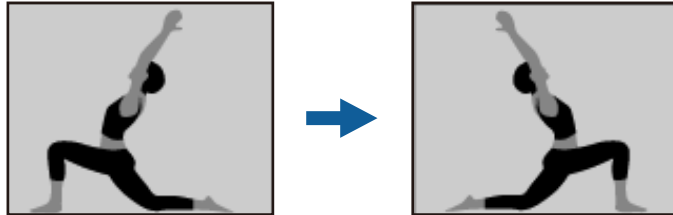
- 4 Use the directional pad to change the position of the image.

- 5 Press  to close the **Flexible Picture** menu.



You can reset all settings in the **Flexible Picture** menu by pressing the  button while displaying the **Flexible Picture** menu.

You can flip the projected image horizontally.



- 1** Turn on the projector and display an image.
- 2** Press the  button on the remote control to display the **Flexible Picture** menu.



You cannot use this button when displaying the **Installation** menu.

- 3** Press the  button again to flip the projected image horizontally.



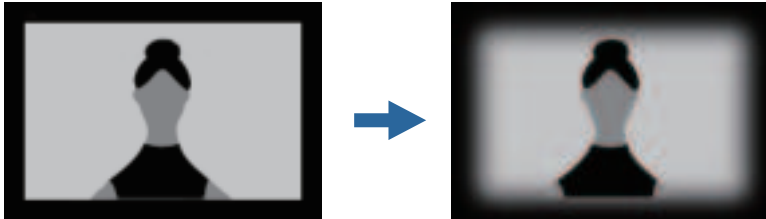
You can reset the function by pressing the  button again.

- 4** Press  to close the **Flexible Picture** menu.



You can reset all settings in the **Flexible Picture** menu by pressing the  button while displaying the **Flexible Picture** menu.

You can blur the edges of the projected image so that the image blends into the wall you are projecting on to.



1 Turn on the projector and display an image.

2 Press the  button on the remote control to display the **Flexible Picture** menu.



You cannot use this button when displaying the **Installation** menu.

3 Press the  button to blur the edges of the projected image.



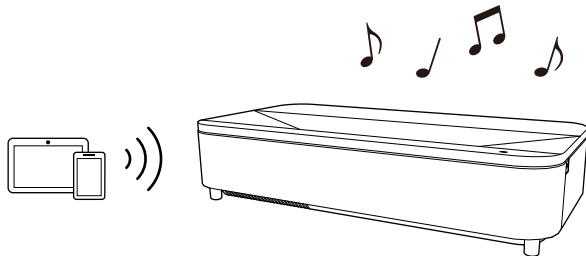
You can reset the function by pressing the  button again.

4 Press  to close the **Flexible Picture** menu.



You can reset all settings in the **Flexible Picture** menu by pressing the  button while displaying the **Flexible Picture** menu.

You can use the projector's speaker to output audio from a device connected by Bluetooth.



1 Turn on the projector and display an image.

2 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

3 Select the **Bluetooth Speaker Mode** menu and press [Enter] to enable the setting.

4 Enable the Bluetooth function on the device you want to connect and select **Projector** from the available device list. See the documentation supplied with the device for more information.



- By default, the name of the projector is **Projector**. You can select another name or use a custom name from **Device Preferences** displayed when pressing the  button on the remote control.
- When you want to enjoy the sound only from the projector, you can temporarily turn off the projected image by pressing the  button on the remote control.
- To cancel a Bluetooth connection, disconnect from the connected device.

5 To exit **Bluetooth Speaker Mode**, set it to **Off**.



- There is a slight delay in the audio output from any Bluetooth device.
- You cannot connect multiple devices by Bluetooth at the same time.
- You can also connect the projector to Bluetooth audio devices, such as speakers or headphones, to output the projector's audio from these devices. Press the  button on the remote control and perform pairing from the menu displayed.
- Bluetooth devices are not supported in some countries and regions.

» Related Links

- "Bluetooth Specifications" [p.66](#)

Bluetooth Specifications

Version	Bluetooth Ver. 5.0
Output	Class 2
Communication distance	Approx. 10 m
Supported profiles	A2DP, AVRCP, HID, HOGP
Frequency used	2.4 GHz band (2.402 to 2.480 GHz)

Supported codecs	SBC, AAC
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Warning

Do not use the device near any medical equipment or equipment that is automatically controlled, such as automatic doors or fire alarms. Electromagnetic interference from the device may cause such equipment to malfunction and cause an accident.



- 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/n) or microwave ovens. Therefore, if these devices are used at the same time, radio wave interference may occur, the 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.

Your projector has Chromecast built-in, allowing you to cast content from Chromecast-enabled apps.

- 1** Connect your device or computer to the same wireless network as the projector.
- 2** Open the Chromecast-enabled app and press .
- 3** Select your projector from the list of devices.



By default, the name of the projector is **Projector**. To select another name or use a custom name, press the  button on the remote control.

The app connects and starts casting to the projector.

- 4** To stop casting, press  in the app and choose the disconnect option.

When an audio/video source that meets the HDMI CEC standard is connected to the projector's HDMI port, you can use the projector's remote control to control certain features of the linked device.

» Related Links

- "Operating Connected Devices Using the HDMI CEC Features" [p.69](#)

Operating Connected Devices Using the HDMI CEC Features

You can control connected audio/video devices using the HDMI CEC features.



- You must also configure the connected device. See the documentation supplied with the device for more information.
- Some connected devices or functions of those devices may not operate properly even if they meet the HDMI CEC standard. See the documentation supplied with the device for more information.
- Use a cable that supports the HDMI standard.

1

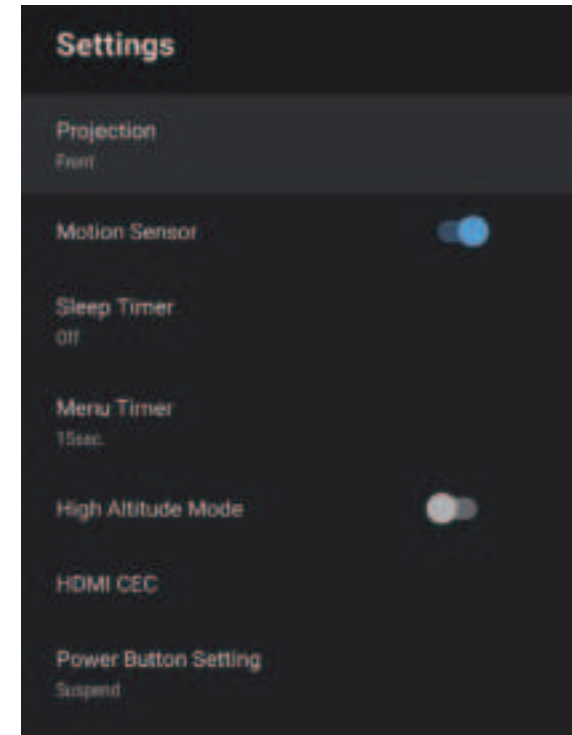
Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

2

Select the **Settings** menu and press the [Enter] button.



3

Select **HDMI CEC** and press [Enter].

4

Set **HDMI CEC** to **On**.

5

Adjust the following **HDMI CEC** settings as necessary.

- To automatically turn off the connected device when you turn off the projector, set **Device Auto Power Off** to **On**.
- To automatically switch the language settings of the connected device according to the projector's language settings, set **Auto Language Change** to **On**.

- To output audio to an HDMI ARC compatible AV system, set **HDMI2 ARC** to **On**.

6 Press  to exit the menus.

You can use the projector's remote control to control the linked device such as playback, stop, or adjust the volume.

» **Related Links**

- "Projector Feature Settings - Settings Menu" [p.81](#)

You can use the security slot on the projector to attach a Kensington Microsaver Security system as a theft deterrent.



For more details on the Microsaver Security System, see <http://www.kensington.com/>.

You can get the latest version of the projector firmware over a network.



When the latest projector firmware is available, a notification is automatically displayed on the screen. Follow the on-screen instructions to update the firmware.

- 1** Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

- 2** Select  from the application list and press the [Enter] button.

- 3** Follow the on-screen instructions to update the firmware.

Caution

Do not turn off the projector while updating the firmware.

You can reset all of the projector settings to their default values.



If you initialize the projector, all the information such as installed applications, Google Account login information, and **Projector Settings** are deleted. Write down the settings you do not want to lose before performing initialization.

- 1** Press the  button on the remote control.
- 2** Select **Device Preferences** and select the reset menu.
- 3** Follow the on-screen instructions to start initializing the projector.

Adjusting the Menu Settings

Follow the instructions in these sections to access the projector menu system and change projector settings.

» Related Links

- "Using the Projector Settings" [p.75](#)
- "Image Quality Settings - Picture Menu" [p.76](#)
- "Sound Quality Settings - Sound Menu" [p.78](#)
- "Projector Installation Settings - Installation Menu" [p.80](#)
- "Projector Feature Settings - Settings Menu" [p.81](#)
- "Projector Information Display - Information Menu" [p.83](#)
- "Projector Bluetooth Speaker Settings - Bluetooth Speaker Mode Menu" [p.84](#)

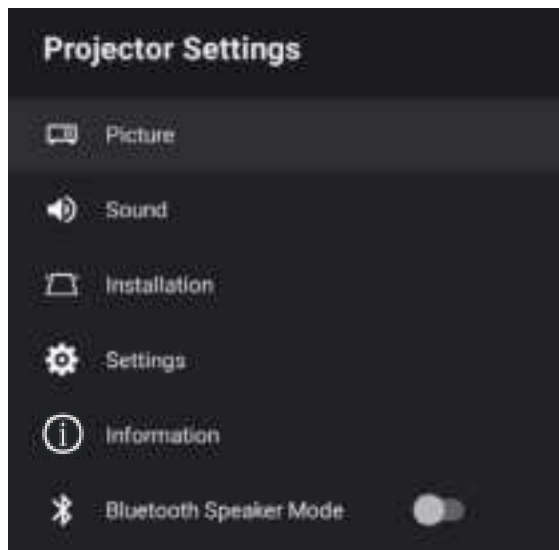
You can use the projector's menus to adjust the settings that control how your projector works. The projector displays the menus on the screen.

- 1 Press the  button on the remote control.



This button is not available when the input source is set to HDMI3 (Game). Press the  button on the remote control to return to the Android TV home screen, and then perform the procedure.

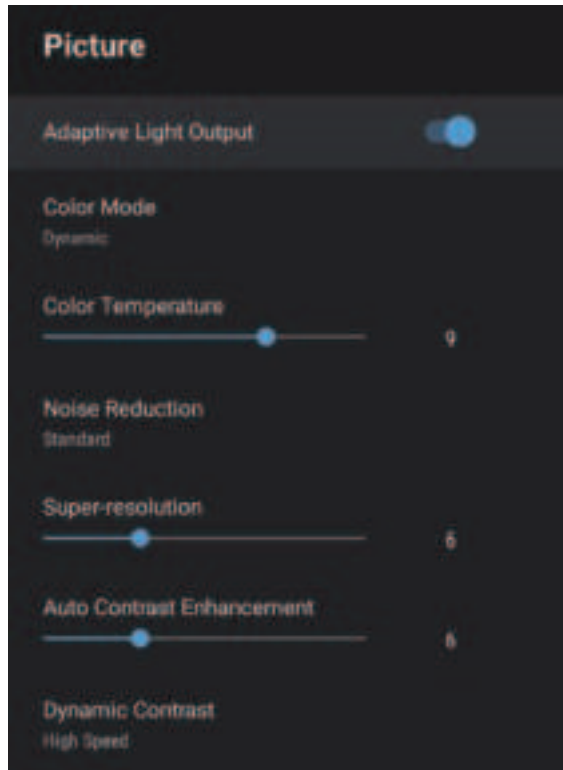
You see the **Projector Settings** on the screen.



- 2 Use the directional pad to move through the menus listed on the screen.
- 3 To change settings in the displayed menu, press the [Enter] button.
- 4 Use the directional pad to move through the settings.

- 5 Change the settings using the buttons as necessary.
- 6 When you finish changing settings on a menu, press .
- 7 Press  to exit the menus.

Settings on the **Picture** menu let you adjust the quality of your image for the input source you are currently using.



Setting	Options	Description
Adaptive Light Output	On Off	Adjusts the brightness of the light source automatically according to the brightness of the surroundings. This function is not available under the following conditions. • When the projector is connecting to an external device from the Installation menu • When the light source brightness dims if the surrounding temperature gets too high • When the motion sensor detects any movements or obstacles around the projection window
Color Mode	Dynamic Vivid Cinema Natural	Selects the color mode suitable for the contents you are projecting.
Color Temperature	Varying levels available	Sets the color temperature according to the color mode you selected. Higher values tint the image blue and lower values tint the image red.
Noise Reduction	Strong Standard Weak Off	Reduces flickering in analog images. Select the intensity of the Noise Reduction. When the input source is set to HDMI3 (Game), this setting is not available.
Super-resolution	Varying levels available	Reduces blurring when projecting low resolution images.
Auto Contrast Enhancement	Varying levels available	Creates a clearer and sharper image by automatically adjusting the contrast of the projected image.
Dynamic Contrast	High Speed Normal Off	Adjusts the projected luminance based on the image brightness for each Color Mode.

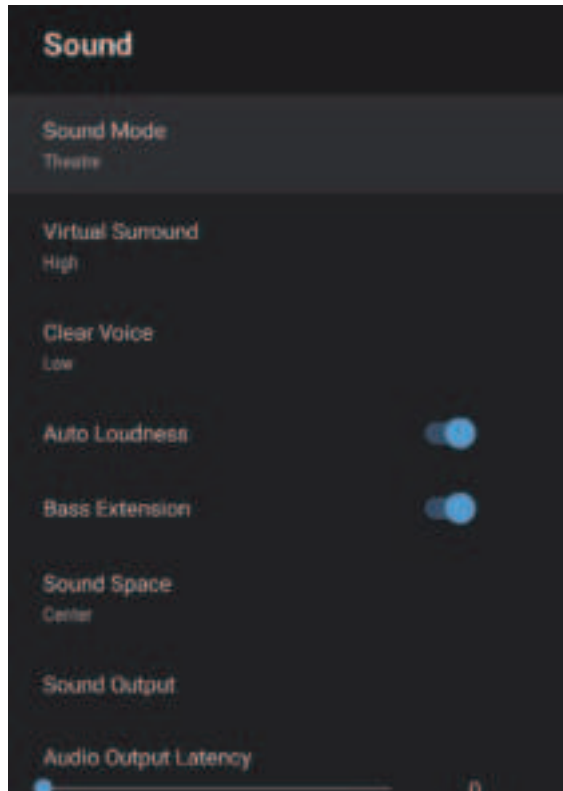
Setting	Options	Description
Scene Adaptive Gamma	Varying levels available	Adjusts the coloring according to the scene, and obtains a more vivid image. Select a large number to enhance contrast.
Frame Interpolation	Off Low Normal High	Adjusts the smoothness of image movement. When the input source is set to HDMI3 (Game), this setting is fixed to Off .
Custom Settings	Brightness	Lightens or darkens the overall image.
	Contrast	Adjusts the difference between light and dark areas of the image.
	Saturation	Adjusts the overall vividness of the color.
	Tint	Adjusts the balance of green to magenta tones in the image.
	Sharpness	Adjusts the sharpness or softness of the image for each Color Mode.
HDR	Varying levels available	Changes the range of dark and bright areas in images. When the input source is set to HDMI3 (Game), this setting is fixed to 2.
Aspect Ratio	Normal Full Zoom	Sets the aspect ratio (width-to-height ratio) for the input source. When the input source is set to HDMI3 (Game), this setting is fixed to Normal .
HDMI Video Range	Auto Full Limited	Sets the video range to match the setting of the device connected to the HDMI port. When the input source is set to HDMI3 (Game), this setting is fixed to Auto .

Setting	Options	Description
EDID	HDMI1 HDMI2 HDMI3 (Game)	Describes the display capabilities of your projector. Change this setting as necessary according to the resolution of the current input source. You can select the EDID settings for individual input sources without changing the input source.

» Related Links

- "Color Mode" [p.51](#)
- "Available Color Modes" [p.52](#)
- "Adjusting Image Quality in Detail" [p.53](#)
- "Adjusting the Light Source Brightness Based on the Brightness of Your Surroundings" [p.44](#)
- "Adjusting the Light Source Brightness Manually" [p.45](#)
- "Adjusting Contrast Based on the Brightness of the Content" [p.46](#)

Settings on the **Sound** menu provide optimum sound for a variety of image types. You can select the mode designed to match your image, or experiment with the available modes.



Setting	Options	Description
Virtual Surround	High Low Off	Adjusts the strength of the surround effect. This setting is saved for each Sound Mode.
Clear Voice	High Low Off	Adjusts the voice so that it can be heard clearly. This setting is saved for each Sound Mode.
Auto Loudness	On Off	Even when playing at low volumes, this automatically corrects the balance between high and low tones in the audio so that they are not out of balance.
Bass Extension	On Off	Emphasizes the bass levels to reproduce a powerful bass.
Sound Space	Right Center Left	Adjusts the sound quality to suit your viewing position.
Sound Output	Select the input source and sound output device.	

Setting	Options	Description
Sound Mode	Theatre TV Studio Stadium Concert Karaoke Mode	Select your favorite mode for sound output from the projector's speaker system according to the playback contents.

Setting	Options	Description
	Other Than HDMI3 (Game)	Speaker/Optical (PCM): Outputs sound in PCM format (2 ch) to the projector's speakers and an external audio device connected to the Optical Out port. Speaker/Optical (Auto): Outputs sound in PCM format (2 ch) to the projector's speakers. Outputs higher quality sound to an external audio device connected to the Optical Out port. ARC/Optical (PCM): Outputs sound in PCM format (2 ch) to an ARC compatible external audio device connected to the HDMI2 (ARC) port and an external audio device connected to the Optical Out port. ARC/Optical (Auto): Outputs higher quality sound to an ARC compatible external audio device connected to the HDMI2 (ARC) port and an external audio device connected to the Optical Out port. Auto supports the following audio codecs: • PCM (2 ch) • AC-3 (up to 5.1 ch) • DTS (up to 5.1 ch) • If sound is not output correctly, select PCM. • Audio format that is output from the projector's HDMI2 (ARC) port varies depending on the input source. • When the input source is HDMI, audio is output up to 5.1 ch (AC-3 or DTS). • When playing Android TV contents, audio is output in 2 ch (PCM).

Setting	Options	Description
	HDMI3 (Game)	Speaker (PCM): Outputs sound in PCM format (2 ch) to the projector's speakers. Optical (PCM): Outputs sound in PCM format (2 ch) to an external audio device connected to the Optical Out port. Optical (Digital Audio): Outputs higher quality sound to an external audio device connected to the Optical Out port. Digital Audio supports the following audio codecs: • PCM (2 ch) • AC-3 (up to 5.1 ch) • DTS (up to 5.1 ch) If sound is not output correctly, select PCM.
Audio Output Latency	Varying levels available	Adjusts the audio latency. If the audio is fast, select a higher value. This item is only available for the following types of audio. • audio output from the projector's speaker • audio output from the HDMI2 (ARC) port • audio output from the Optical Out port When the input source is set to HDMI3 (Game), this setting is not available.

» Related Links

- "Adjusting the Sound Settings (Sound Mode)" [p.57](#)

You can correct distortion in the projected image by following the on-screen instructions from the **Installation** menu.



You can make the following corrections to the image shape and the projected image from this menu.

- Correct distortion in the projected image quickly using the Epson Setting Assistant app.
- Correct the position of the four corners of the projected image or fine-tune point correction using a remote control.
- Correct the top of the projected image so that it is straight by using a remote control (correct the bottom of the projected image when the projector is installed on the ceiling).
- Compensate the color of the projected image to match colored walls.

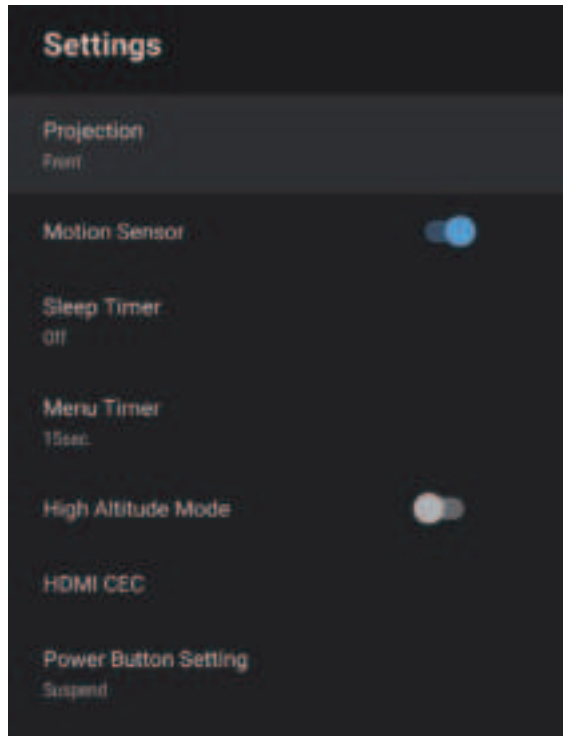


When you use the Epson Setting Assistant app, the **Flexible Picture** setting will be reset.

» Related Links

- "Correcting Distortion in the Image" [p.42](#)

Options on the **Settings** menu let you customize various projector features.



Setting	Options	Description
Projection	Front Rear Front/Upside Down Rear/Upside Down	Sets the way the projector faces the screen so the image is oriented correctly.
Motion Sensor	On Off	Select On to automatically reduce the brightness of the light source for safety when someone comes close to the projector light while projecting.

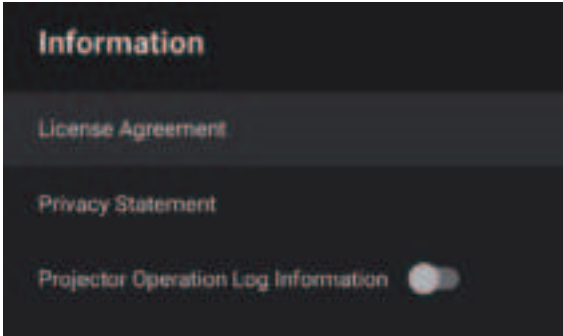
Setting	Options	Description
Sleep Timer	Off to 120 minutes	Sets the interval of time before the projector turns off automatically.
Menu Timer	Off to 240 seconds	Sets the interval of inactivity before closing the projector's menu automatically. When the input source is set to HDMI3 (Game), this setting is not available.
High Altitude Mode	On Off	Regulates the projector's operating temperature at altitudes above 1,500 m.
HDMI CEC	CEC Control	Enables CEC Control features when an audio/video device that meets the HDMI CEC standard is connected to the projector's HDMI port.
		HDMI CEC: Select On to control the connected audio/video device using the projector's remote control. When this is set to On , the projector automatically turns on when you turn on the connected device, or when you start playback on the connected device.
		Device Auto Power Off: Select On to automatically turn off the connected audio/video device when you turn off the projector.
		Auto Language Change: Select On to automatically switch the language settings of the connected audio/video device according to the projector's language settings.
		HDMI2 ARC: Select On to enable HDMI ARC on the HDMI2 (ARC) port.

Setting	Options	Description
Power Button Setting	Suspend Shutdown	Sets the operation performed by the projector when you press the power button. Suspend: Starts the projector quickly from standby mode. Shutdown: Minimizes power consumption in standby mode. However, it takes longer to start the projector than when in Suspend mode.

» Related Links

- "HDMI CEC Features" [p.69](#)

You can display information about the licenses and privacy statements, and set whether or not to allow the acquisition of operation logs.



Information item	Description
License Agreement	Displays the license agreement.
Privacy Statement	Displays the privacy statement.
Projector Operation Log Information	Sets whether or not to allow Epson to acquire projector operation logs.

You can use the projector's speaker to output audio from an external device connected by Bluetooth.

Options	Description
On Off	Select On to use the projector as a Bluetooth speaker.

» Related Links

- "Using the Projector as a Bluetooth Speaker" [p.66](#)

Maintaining the Projector

Follow the instructions in these sections to maintain your projector.

» **Related Links**

- "Projector Maintenance" [p.86](#)
- "Cleaning the Projection Window" [p.87](#)
- "Cleaning the Obstacle Sensor and Motion Sensor" [p.88](#)
- "Cleaning the Projector Case" [p.89](#)
- "Air Filter and Vent Maintenance" [p.90](#)

You may need to clean the projection window, obstacle sensor, and motion sensor periodically, and clean the air filter and air vents to prevent the projector from overheating due to blocked ventilation.

The only parts you should replace are the air filter and remote control batteries. If any other part needs replacing, contact Epson or an authorized Epson servicer.

Warning

Before cleaning any part of the projector, turn it off and unplug the power cord. Never open any cover on the projector, except as specifically explained in this manual. Dangerous electrical voltages in the projector can injure you severely.

Clean the projection window periodically, or whenever you notice dust or smudges on the surface.

- To remove dust or smudges, gently wipe the projection window with clean and dry lens-cleaning paper.
- If the projection window is dusty, blow off dust using a blower, and then wipe the projection window.

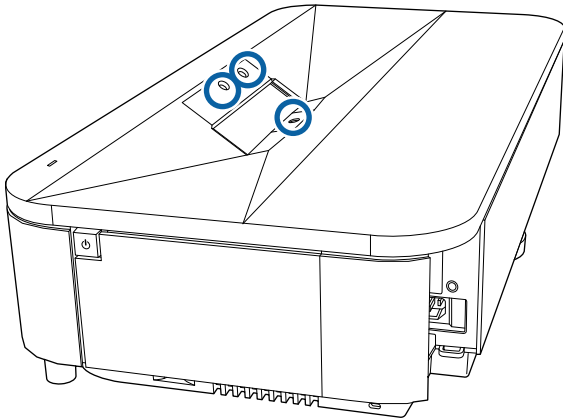
Warning

- Before cleaning the projection window, turn off the projector and unplug the power cord.
- Do not use any flammable gas sprays such as air dusters to blow off dust. The high heat generated by the projector may cause a fire.

Attention

- Do not wipe the projection window right after you turn off the projector. Doing so could damage the projection window.
- Do not use any harsh materials to clean the projection window and do not subject the projection window to any impacts; otherwise, it could be damaged.

Clean the projector's obstacle sensor and motion sensor periodically, or if you see a message telling you to remove any obstacles that are interfering with the projection area. To remove dust or smudges, gently wipe the sensors with lens-cleaning paper.



Warning

Do not use a lens cleaner that contains flammable gas to clean the obstacle sensor and motion sensor. The high heat generated by the projector may cause a fire.

Attention

Do not use glass cleaner or any harsh materials to clean the sensors and do not subject the sensors to any impacts. Damage to the surface of the sensors may cause malfunctions.

Before cleaning the projector case, turn off the projector and unplug the power cord.

- To remove dust or dirt, use a soft, dry, lint-free cloth.
- To remove stubborn dirt, use a soft cloth moistened with water and mild soap. Do not spray liquid directly on the projector.

Attention

Do not use wax, alcohol, benzene, paint thinner, or other chemicals to clean the projector case. These can damage the case. Do not use canned air, or the gases may leave a flammable residue.

Regular filter maintenance is important to maintain your projector. Clean the air filter when a message appears telling you the temperature inside the projector has reached a high level. It is recommended that you clean these parts over a 20,000 hour period. Clean them more often than this if you use the projector in an environment that is dustier than expected. (Assuming the projector is used in an atmosphere in which airborne particulate matter is less than 0.04 to 0.2 mg/m³.)

Attention

If regular maintenance is not performed, your Epson projector will notify you when the temperature inside the projector has reached a high level. Do not wait until this warning appears to maintain your projector filter as prolonged exposure to high temperatures may reduce the life of your projector.

» Related Links

- "Cleaning the Air Filter" [p.90](#)
- "Replacing the Air Filter" [p.91](#)
- "Cleaning the Air Intake Vents" [p.93](#)

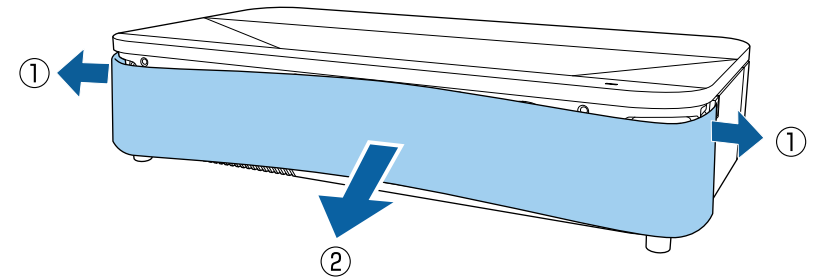
Cleaning the Air Filter

You need to clean the projector's air filters in the following situations:

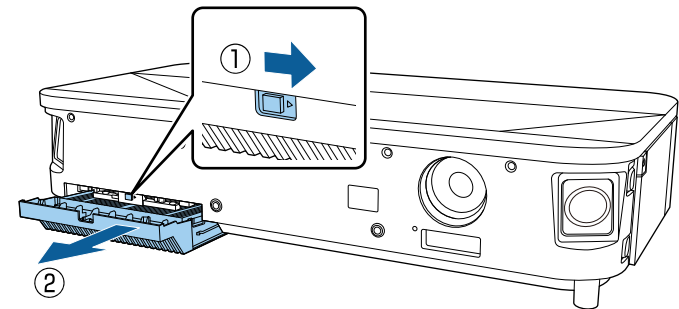
- The filter get dusty.
- You see a message telling you to clean it.

1 Turn off the projector and unplug the power cord.

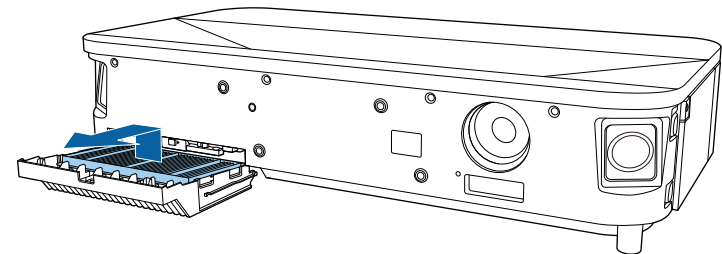
2 Remove the front cover.



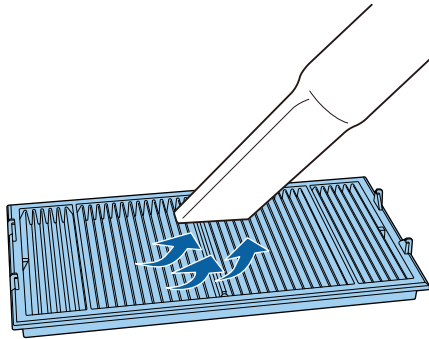
3 Slide the air filter cover latch and pull out the air filter cover.



4 Pull the air filter out of the air filter cover.



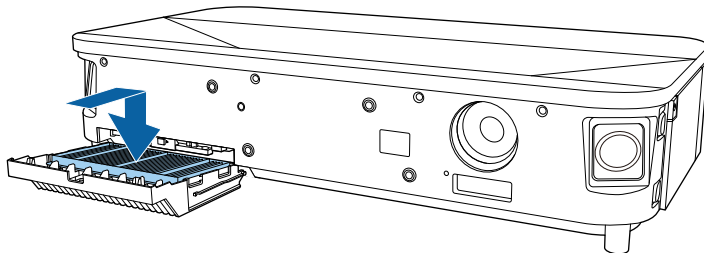
- 5** Vacuum the front of the air filter (the side with the tabs) to remove any remaining dust.



Attention

- Do not rinse the air filter in water, or use any detergent or solvent to clean it.
- Do not use canned air. The gases may leave a flammable residue or push dust and debris into the projector's optics or other sensitive areas.

- 6** Place the air filter with the four tabs facing down as shown.

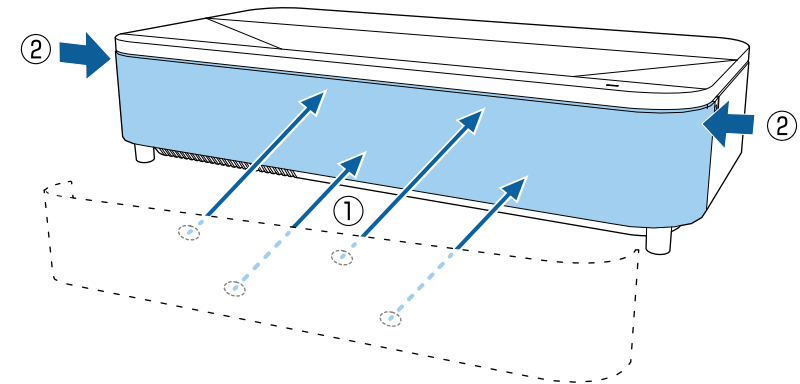


Attention

Do not force the air filter cover to close with the tabs on the air filter facing up. Doing so could damage the projector.

- 7** Insert the air filter cover until it clicks into place.

- 8** Replace the front cover.



Replacing the Air Filter

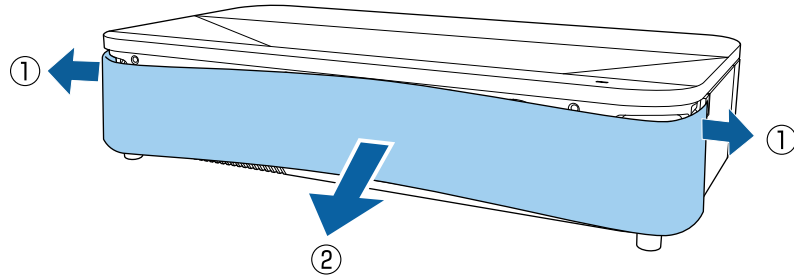
You need to replace the air filter in the following situations:

- After cleaning the air filter, you see a message telling you to clean or replace it.
- The air filter is torn or damaged.

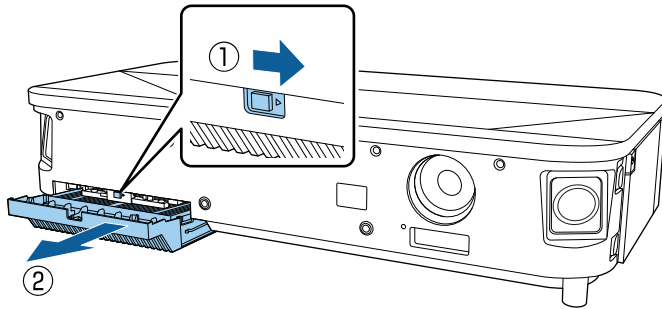
You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

- 1** Turn off the projector and unplug the power cord.

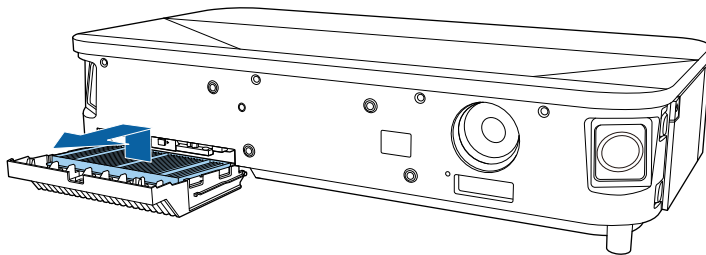
- 2** Remove the front cover.



- 3** Slide the air filter cover latch and pull out the air filter cover.



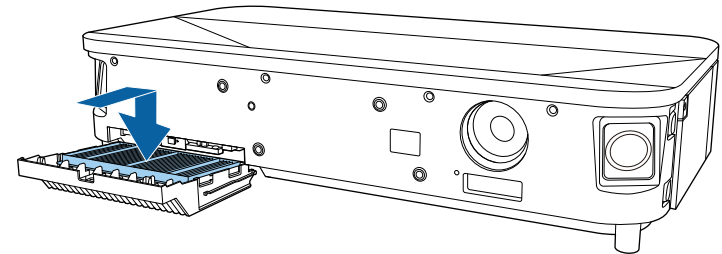
- 4** Pull the air filter out of the projector.



Dispose of used air filters according to local regulations.

- Filter frame: Polypropylene
- Filter: Polypropylene, PET

- 5** Place the new air filter with the four tabs facing down as shown.

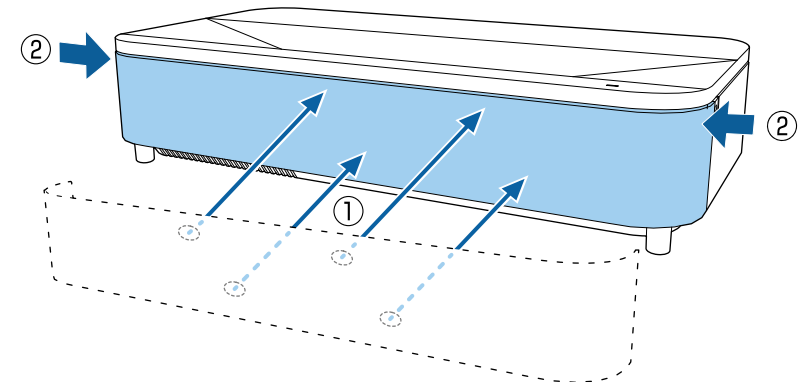


Attention

Do not force the air filter cover to close with the tabs on the air filter facing up. Doing so could damage the projector.

- 6** Insert the air filter cover until it clicks into place.

- 7** Replace the front cover.



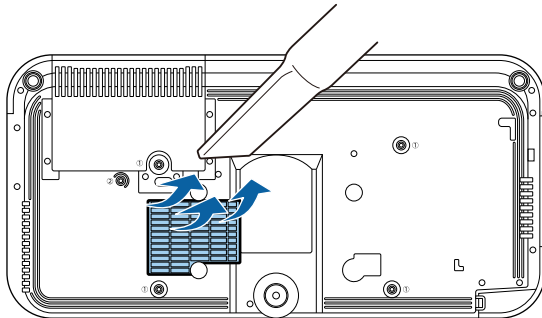
» Related Links

- "Replacement Parts" [p.110](#)

Cleaning the Air Intake Vents

Clean the projector's air intake vents periodically, or whenever you notice dust on the surface of the vents to prevent the projector from overheating due to blocked ventilation.

- 1** Turn off the projector and unplug the power cord.
- 2** Turn the projector upside down.
- 3** Carefully remove the dust using a vacuum cleaner or a brush.



Solving Problems

Check the solutions in these sections if you have any problems using the projector.

» Related Links

- "Projection Problems" [p.95](#)
- "Projector Indicator Status" [p.96](#)
- "Solving Projector Power-On or Power-Off Problems" [p.98](#)
- "Solving Image Problems" [p.99](#)
- "Solving Sound Problems" [p.103](#)
- "Solving Remote Control Operation Problems" [p.105](#)
- "Solving HDMI CEC Problems" [p.106](#)
- "Solving Wi-Fi Network Problems" [p.107](#)
- "Solving Android TV Problems" [p.108](#)

If the projector is not working properly, turn it off, unplug it, and then plug it back in and turn it on.

If this does not solve the problem, check the following:

- The indicators on the projector may indicate the problem.
- The solutions in this manual can help you solve many problems.

If none of these solutions help, contact Epson for technical support.

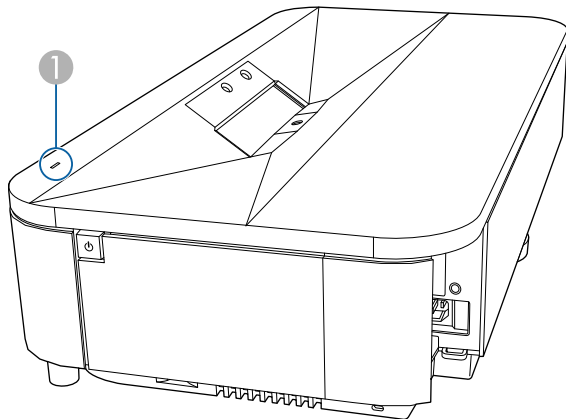


After repairing the projector, Epson may return the projector to you in its initial status. Make sure you make a note of the account information of each online service before you contact your local dealer or the nearest Epson repair center.

The indicators on the projector indicate the projector status and let you know when a problem occurs. Check the status and color of the indicators and then refer to this table for a solution.



If the indicators display a pattern not listed in the table below, turn the projector off, unplug it, and contact Epson for help.



① Status indicator

Projector status

Indicator status	Problem and solutions
Lit blue	Normal operation.
Flashing blue	Warming up or shutting down the projector. Remote control operations may be disabled when the indicator is flashing blue.
Off	Standby mode. When you press the power button, projection starts.

Indicator status	Problem and solutions
Lit orange	Projector has overheated and turned off. Leave it turned off to cool down for 5 minutes. - Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. - Make sure the environmental temperature is not too hot. - Clean or replace the air filter. - If operating the projector at high altitude, set the High Altitude Mode setting to On in the projector's menu. Settings > High Altitude Mode - If the problem persists, unplug the projector and contact Epson for help.
	Obstacle detection warning. A beep sounds, and the message "Playback has been stopped for safety reasons. Move away from the lens or remove any obstacles around the lens." is displayed. The brightness of the light source is reduced. - Make sure that there are no obstacles interfering with the projection window. Remove any obstacles. - Clean the obstacle sensor if there are no obstacles. The projector turns off automatically if no action is taken.
	Movement detection warning. A beep sounds, and the message "Playback has been stopped for safety reasons. Move away from the lens or remove any obstacles around the lens." is displayed. The brightness of the light source is reduced. - Make sure that there are no one looking into the projection window. Move away from the projection window. - Clean the motion sensor if there is no one near the projection window.
	Laser warning. Turn the projector off, unplug it, and contact Epson for help.

Indicator status	Problem and solutions
Flashing orange	Laser has a problem. Turn the projector off, unplug it, and contact Epson for help.
	A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help.
	Obstacle detection error. If there are no obstacles interfering with the projection window, turn the projector off, unplug it, and contact Epson for help.
	Internal projector error. Turn the projector off, unplug it, and contact Epson for help.

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)
- "Cleaning the Air Filter" [p.90](#)
- "Replacing the Air Filter" [p.91](#)
- "Cleaning the Air Intake Vents" [p.93](#)

Check the solutions in these sections if the projector does not turn on when you press the power button or it turns off unexpectedly.

» Related Links

- "Solving Projector Power Problems" [p.98](#)
- "Solving Projector Shutdown Problems" [p.98](#)

Solving Projector Power Problems

If the projector does not turn on when you press the power button, try the following steps until the problem is solved.

- 1** Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- 2** If you are using the remote control, check the batteries of the remote control.
- 3** The power cord may be defective. Disconnect the cord and contact Epson for help.

» Related Links

- "Turning On the Projector" [p.35](#)
- "Installing Batteries in the Remote Control" [p.30](#)

Solving Projector Shutdown Problems

If the projector turns off unexpectedly, try the following steps until the problem is solved.

- 1** The projectors may have entered standby mode after the interval of time specified in **Sleep Timer** in the projector's **Settings** menu has passed. Press the power button on the projector or remote control to wake the projector.



After waking the projector, **Sleep Timer** is automatically set to **Off**.

- 2** When the status indicator is lit orange, the projector has overheated and turned off.



The cooling fans may run in standby status depending on the projector settings. Also, when the projector wakes from standby status, the fans may cause an unexpected noise. This is not a malfunction.

- 3** Check the following items:
 - Make sure that there are no obstacles interfering with the projection window. Remove any obstacles.
 - Clean the obstacle sensor if there are no obstacles.

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)

Check the solutions in these sections if you have any problems with projected images.

» Related Links

- "Solving Missing Image Problems" [p.99](#)
- "Solving Curved or Not Rectangular Image Problems" [p.100](#)
- "Solving Flipped Image Problems" [p.100](#)
- "Solving Small Image Problems" [p.100](#)
- "Adjusting a Fuzzy or Blurry Image" [p.100](#)
- "Fixing Partial Image Problems" [p.101](#)
- "Adjusting an Image that Contains Noise or Static" [p.101](#)
- "Adjusting an Image with Incorrect Brightness or Colors" [p.101](#)

Solving Missing Image Problems

If no image is displayed, try the following steps until the problem is solved.

1 Check the projector's status:

- Press the  button on the remote control to see if the image was temporarily turned off.
- Check the status indicator to confirm that the projector is in normal operating status.
- Press the projector's power button to wake it from standby mode.

☛ **Settings > Sleep Timer**

2 Check the cable connection:

- Make sure all necessary cables are securely connected and the power is on for the projector.
- Connect the video source directly to the projector.
- Replace the HDMI cable with the shorter one.
- When sending 18 Gbps images such as 4K 60Hz 4:4:4, use an HDMI cable (premium-high speed).

3 Make sure you have selected the appropriate **EDID** setting in the projector's **Picture** menu, according to the standards supported by the video equipment, image signals, and HDMI cables.

4 Check the status of your video source:

- If you are projecting from a streaming media player, make sure it is powered by the power supply USB cable on the projector.
- Turn on the connected streaming media player or video source, and press the play button to start a video, if necessary.
- Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.

5 Check the following items:

- You need an Internet connection to view online content. Make sure your Wi-Fi is on.
- Turn off the projector and the connected streaming media player or video source, and then turn them back on.
- Turn off the projector and the connected video source, and then turn them back on.
- Set the CEC function for the connected device again and restart the device.
- Make sure the computer's display resolution does not exceed the projector's resolution and frequency limits. If necessary, select a different display resolution for your computer. (See your computer manual for details.)
- Resets all of the projector settings to their default values.

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)

Solving Curved or Not Rectangular Image Problems

If the projected image is curved or not evenly rectangular, try the following steps until the problem is solved.

- 1 Place the projector directly in front of the center of the screen, facing it squarely, if possible.
- 2 Correct the distortion in the projected image by using the **Installation** menu.

» Related Links

- "Correcting Distortion in the Image" [p.42](#)

Solving Flipped Image Problems

If the projected image is flipped horizontally, try the following steps until the problem is solved.

- 1 If you flipped the projected image using the **Reverse Flip Picture** function, press the  button on the remote control to display the **Flexible Picture** menu, and then press the  button again to disable the function.

» Related Links

- "Flipping the Image Horizontally (Flexible Picture)" [p.64](#)

Solving Small Image Problems

If the projected image is too small, try the following steps until the problem is solved.

- 1 If you adjusted the size of the projected image, press the  button on the remote control to display the **Flexible Picture** menu, and then press the  button until the projected image is the right size.

» Related Links

- "Changing the Image Size or Position (Flexible Picture)" [p.63](#)

Adjusting a Fuzzy or Blurry Image

If the projected image is fuzzy or blurry, try the following steps until the problem is solved.

- 1 Adjust the image focus using the focus lever.
- 2 Position the projector close enough to the screen.
- 3 Clean the projection window.



To avoid condensation on the lens after bringing the projector in from a cold environment, let the projector warm up to room temperature before using it.

- 4 Adjust the **Sharpness** setting in the projector's **Picture** menu to improve image quality.
➤ **Picture > Custom Settings > Sharpness**
- 5 If you have blurred the edges of the projected image using the **Edge Blur** function, press the  button on the remote control to display the **Flexible Picture** menu, and then press the  button to disable the function.
- 6 If you are projecting from a computer, use a lower resolution or select a resolution that matches the projector's native resolution.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)
- "Focusing the Image Using the Focus Lever" [p.40](#)
- "Cleaning the Projection Window" [p.87](#)
- "Blurring the Edges of the Image (Flexible Picture)" [p.65](#)

Fixing Partial Image Problems

If only a partial computer image is displayed, try the following steps until the problem is solved.

- 1** If you adjusted the size of the projected image, press the  button on the remote control to display the **Flexible Picture** menu, and then press the  button until the projected image is the right size.
- 2** If **Aspect Ratio** in the **Picture** menu is set to **Zoom**, change it to **Normal**.
- 3** Make sure you selected the correct projection mode. You can select this using the **Projection** setting in the projector's **Settings** menu.
- 4** Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)
- "Changing the Image Size or Position (Flexible Picture)" [p.63](#)

Adjusting an Image that Contains Noise or Static

If the projected image contains electronic interference (noise) or static, try the following steps until the problem is solved.

- 1** Check the cables connecting your video source to the projector. They should be:
 - Separated from the power cord to prevent interference
 - Securely connected at both ends
 - Not connected to an extension cable

- 2** Adjust the **Noise Reduction** setting in the projector's **Picture** menu.

- 3** If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting in the projector's **Picture** menu to improve image quality.

 **Picture > Custom Settings > Sharpness**

- 4** Make sure you have selected the appropriate **EDID** setting in the projector's **Picture** menu, according to the standards supported by the video equipment, image signals, and HDMI cables.

- 5** If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.

- 6** Select a computer video resolution and refresh rate that are compatible with the projector.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)

Adjusting an Image with Incorrect Brightness or Colors

If the projected image is too dark or bright, or the colors are incorrect, try the following steps until the problem is solved.

- 1** Try different color modes for your image and environment by selecting the **Color Mode** setting in the projector's **Picture** menu.

2 Try different settings by selecting the **Adaptive Light Output** setting in the projector's **Picture** menu.

3 Check your video source settings.

4 Adjust the following settings in the **Picture** menu for the current input source.

- **Scene Adaptive Gamma**
- **Custom Settings**
- **Color Temperature**
- **Frame Interpolation**
- **Dynamic Contrast**
- **Noise Reduction**
- **Super-resolution**
- **Auto Contrast Enhancement**
- **Aspect Ratio**

5 Make sure you selected the correct **HDMI Video Range**, **HDR** or **EDID** setting in the projector's **Picture** menu, if available for your image source.

6 When you are projecting your image onto a wall, try different wall color types for the image and environment by selecting the **Adjust color** setting in the projector's **Installation** menu.

7 Make sure all the cables are securely connected to the projector and your video equipment. If you connected long cables, try connecting shorter cables.

8 Position the projector close enough to the screen.

» Related Links

- "Image Quality Settings - Picture Menu" [p.76](#)

Check the solutions in these sections if you have any problems with projected sound.

» Related Links

- "Solving Missing or Low Audio Problems" [p.103](#)
- "Solving Bluetooth Speaker Mode Problems" [p.103](#)

Solving Missing or Low Audio Problems

If there is no sound or the volume is too low, try the following steps until the problem is solved.

- 1** Adjust the projector's volume settings using the  or  button on the remote control.
- 2** Check the cable connection between the projector and your video source.
- 3** Press the  button on the remote control to resume audio if it was temporarily muted.
- 4** Check the following settings on your video equipment:
 - Check your video source to make sure the volume is turned up and the audio output is set for the correct source.
 - Set the connected device to PCM output.
- 5** If you want to output audio from the projector's speaker, check that the **Sound Output** setting is correct in the **Sound** menu.
- 6** If you want to output audio to an external audio device using an HDMI cable, try the following solutions:
 - Make sure the HDMI cable is connected to the projector's HDMI2 (ARC) port.

- Make sure the sound is output from the projector's speaker or Optical Out port.
- Set **HDMI CEC** to **On** in the **Settings** menu.
 - ☛ **Settings > HDMI CEC > CEC Control**
- Set **HDMI2 ARC** to **On** in the **Settings** menu.
 - ☛ **Settings > HDMI CEC > CEC Control**
- Set **Other Than HDMI3 (Game)** to **ARC/Optical (PCM)** in the **Sound** menu.
- Make sure you are using an HDMI cable (with Ethernet).



When outputting audio to an external audio device that does not support HDMI ARC using an HDMI cable, set **HDMI CEC** to **Off** in the **Settings** menu.

- 7** If you want to output audio to an external audio device using an optical digital audio cable, check that the **Sound Output** setting is correct in the **Sound** menu.

» Related Links

- "Sound Quality Settings - Sound Menu" [p.78](#)

Solving Bluetooth Speaker Mode Problems

If you cannot connect a Bluetooth audio device to the projector, try the following solutions.

- 1** Set **Bluetooth Speaker Mode** to **On** in the projector's menu.
- 2** Select **Projector** from the available Bluetooth device list displayed on your device.
- 3** Make sure only one Bluetooth device is connected to the projector.

You cannot connect multiple Bluetooth audio devices to the projector at the same time.

4 Make sure the device meets the projector's Bluetooth specifications.

5 Check the following items:

- Check for obstacles between the Bluetooth audio device and the projector, and change their positions to improve communication.
- Make sure the connected Bluetooth audio device is within the specified communication distance.
- Avoid using the projector near wireless networks, microwave ovens, 2.4 GHz cordless phones, or other devices that use the 2.4 GHz frequency band. These devices can interfere with the signal between the projector and the Bluetooth audio device.

» Related Links

- "Bluetooth Specifications" [p.66](#)
- "Using the Projector as a Bluetooth Speaker" [p.66](#)

If the projector does not respond to remote control commands, try the following steps until the problem is solved.



If you lose the remote control, you can order another one from Epson.

1 Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.

2 Check that the input source is not set to HDMI3 (Game).



When the input source is set to HDMI3 (Game), some buttons on the remote control are not available.

3 Check to see if a button on the remote control is stuck down, causing it to enter standby mode. Release the button to wake the remote control up.

4 Make sure you are operating the remote control within the reception angle and range of the projector.

5 Check the status indicator to confirm that the projector is in normal operating status.

6 Strong fluorescent lighting, direct sunlight, or infrared device signals may be interfering with the projector's remote receivers. Dim the lights or move the projector away from the sun or interfering equipment.

7 If the pairing screen is displayed, perform pairing again by holding down the [Enter] button and  button on the remote control at the same time for about three seconds.

- "Projector Indicator Status" [p.96](#)
- "Installing Batteries in the Remote Control" [p.30](#)

» Related Links

- "Projector Parts - Projector Remote Control" [p.13](#)
- "Remote Control Operation" [p.30](#)

If you cannot operate the connected devices from the projector, try the following steps until the problem is solved.

- 1** Make sure the cable meets the HDMI CEC standard.
- 2** Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information.
- 3** Set **HDMI CEC** to **On** in the **Settings** menu.
☛ **Settings > HDMI CEC > CEC Control**
- 4** Make sure all the cables are securely connected to the projector and your video equipment.



Make sure you connect the HDMI cable to the projector's HDMI2 (ARC) port.

- 5** Make sure the connected devices are turned on and in standby status. See the documentation supplied with the device for more information.
- 6** If you connect a new device or change the connection, set the CEC function for the connected device again and restart the device.

» Related Links

- "Projector Feature Settings - Settings Menu" [p.81](#)
- "Operating Connected Devices Using the HDMI CEC Features" [p.69](#)

If you cannot connect to a Wi-Fi network, try the following solutions.

- 1** Make sure your Wi-Fi router and modem are working properly. Rebooting these devices may solve the network connection problem.
- 2** Check for obstacles between the Wi-Fi router and the projector, and change their positions to improve communication.
- 3** You can check the network settings from the menu displayed when you press  button on the remote control.
- 4** If you initialize the projector, you need to select the network settings again on the initial setup screen.

» Related Links

- "Initializing the Projector" [p.73](#)

See the following page for issues regarding Android TV.

<https://support.google.com/androidtv/>

Appendix

Check these sections for the technical specifications and important notices about your product.

» **Related Links**

- "Optional Accessories and Replacement Parts" [p.110](#)
- "Screen Size and Projection Distance" [p.111](#)
- "Supported Monitor Display Resolutions" [p.113](#)
- "Projector Specifications" [p.114](#)
- "External Dimensions" [p.115](#)
- "List of Safety Symbols and Instructions" [p.116](#)
- "Laser Safety Information" [p.118](#)
- "Glossary" [p.120](#)
- "Notices" [p.121](#)

The following optional accessories and replacement parts are available. Please purchase these products as and when needed.

The following list of optional accessories and replacement parts is current as of: July 2022.

Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

» Related Links

- "Mounts" [p.110](#)
- "External Devices" [p.110](#)
- "Screens" [p.110](#)
- "Replacement Parts" [p.110](#)

Mounts

Ceiling mount ELPMB22

Ceiling mount (Low profile) ELPMB30

Use when installing the projector on a ceiling.

Safety Wire Set ELPWR01

Use when connecting the projector to the installation mount to prevent the projector from falling down.

Ceiling pipe (450 mm) ELPFP13

Ceiling pipe (700 mm) ELPFP14

Use when installing the projector on a high ceiling.



Special expertise is required to suspend the projector from a ceiling. Contact Epson for help.

External Devices

Streaming Media Player ELPAP12

Use this streaming media player to watch online content.

Screens

Ultra Short Throw Screen ELPSC35 (100")

Ultra Short Throw Screen ELPSC36 (120")

Screens to be installed on a wall. (Aspect ratio 16:9)

Replacement Parts

Air filter ELPAF64

Use as a replacement for used air filters.

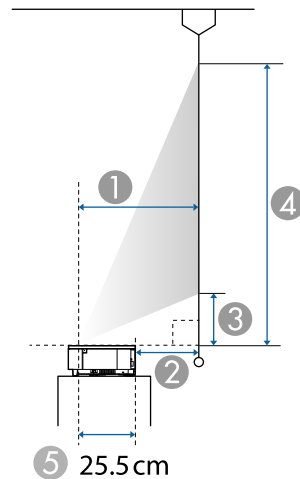
» Related Links

- "Replacing the Air Filter" [p.91](#)

Check the table here to determine how far to place the projector from the screen based on the size of the projected image.



You can reduce the projected image size and change the position of the image without moving the projector by using the **Flexible Picture** menu.



- ① Projection distance (cm)
- ② Distance from the back of the projector to the screen (cm)
- ③ Distance from the projector to the bottom of the screen (cm)
- ④ Distance from the projector to the top of the screen (cm)
- ⑤ Distance from the center of the lens to the rear of the projector (cm)

16:9 screen size		①	②	③	④
		Wide			
80"	177 × 100	27.8	2.3	10.8	110.4
90"	199 × 112	31.6	6	12.9	124.9
100"	221 × 125	35.3	9.8	14.9	139.4

16:9 screen size		①	②	③	④
		Wide			
110"	244 × 137	39	13.5	16.9	153.9
120"	266 × 149	42.8	17.3	19	168.4
130"	288 × 161	46.5	21	21	182.9
150"	332 × 187	54	28.5	25.1	211.9

4:3 screen size		①	②	③	④
		Wide			
66"	134 × 101	28.1	2.6	11	111.6
70"	142 × 107	29.9	4.4	12	118.7
80"	163 × 122	34.5	9	14.5	136.4
90"	183 × 137	39.1	13.6	17	154.1
100"	203 × 152	43.7	18.1	19.5	171.9
110"	226 × 168	48.3	22.7	22	189.6
120"	244 × 183	52.8	27.3	24.5	207.3
122"	248 × 186	53.8	28.2	25	210.9

16:10 screen size		①	②	③	④
		Wide			
74"	159 × 100	27.8	2.3	10.8	110.4
80"	172 × 108	30.2	4.7	12.1	119.8
90"	194 × 121	34.3	8.8	14.3	135.5
100"	215 × 135	38.3	12.8	16.5	151.2
110"	237 × 148	42.4	16.9	18.8	166.8
120"	259 × 162	46.4	20.9	21	182.5
130"	280 × 175	50.5	24.9	23.2	198.2
138"	297 × 186	53.7	28.2	24.9	210.7

» Related Links

- "Changing the Image Size or Position (Flexible Picture)" [p.63](#)

See the *Supplemental A/V Support Specification* for detailed information on compatible refresh rates and resolutions for each compatible video display format.

Product name	EH-LS800W/EH-LS800B
Dimensions	695 (W) × 145 (H) × 341 (D) mm (not including raised section)
LCD panel size	0.62"
Display method	Poly-silicon TFT active matrix
Resolution	2,073,600 pixels * Full HD (1,920 (W) × 1,080 (H) dots) × 3
Focus adjustment	Manual
Light source	Laser diode
Light source output power	Up to 88 W
Wavelength	449 to 461 nm
Light source life **	Up to about 20,000 hours
Max. audio output	20 W
Speaker	2.1ch (Speaker × 2, Woofer × 1)
Power supply	100-240V AC±10% 50/60Hz 3.5 - 1.6 A
Power consumption (100 to 120 V area)	Operating power consumption (when the light source brightness is 100%): 350 W Operating power consumption (when the light source brightness is 50%): 217 W
Power consumption (220 to 240 V area)	Operating power consumption (when the light source brightness is 100%): 335 W Operating power consumption (when the light source brightness is 50%): 210 W
Standby power consumption	Communication On: 2.0 W Communication Off: 0.4 W
Operating altitude	Altitude 0 to 3,048 m
Operating temperature	Altitude of 0 to 2,286 m: 0 to +40°C (Humidity of 20 to 80%, No condensation) Altitude of 2,287 to 3,048 m: 0 to +35°C (Humidity of 20 to 80%, No condensation)
Storage temperature	-10 to +60°C (Humidity of 10 to 90%, No condensation)
Mass	Approx. 12.3 kg

* Pixel shifting technology achieves 4K resolution on screen.

** Approximate time until the light source brightness decreases to half of its original value. (Assuming the projector is used in an atmosphere in which airborne particulate matter is less than 0.04 to 0.2mg/m³. The estimated time varies depending on the projector usage and operating conditions.)

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

Angle of tilt

There is no vertical or horizontal limit to how the projector can be installed.

► Related Links

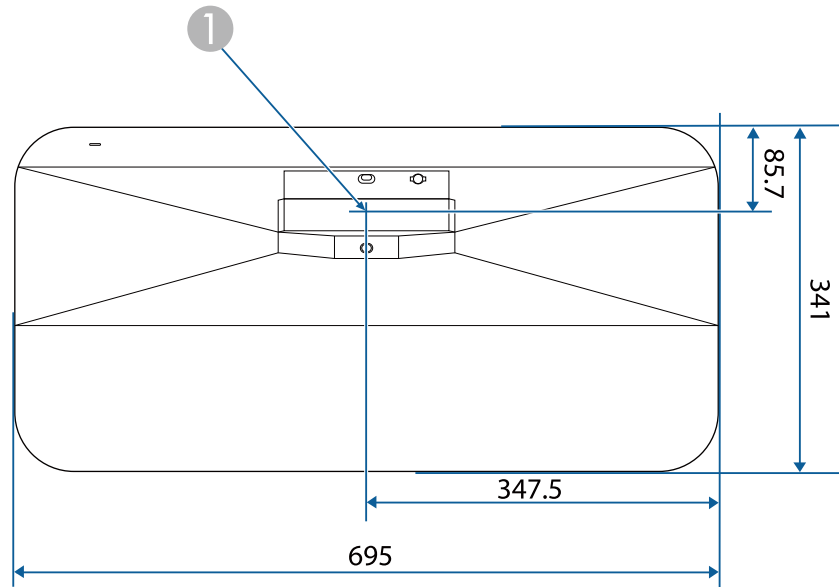
- "Connector Specifications" [p.114](#)

Connector Specifications

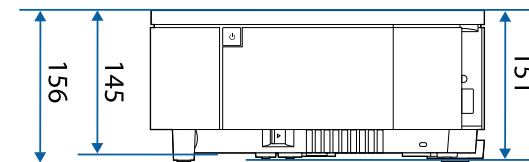
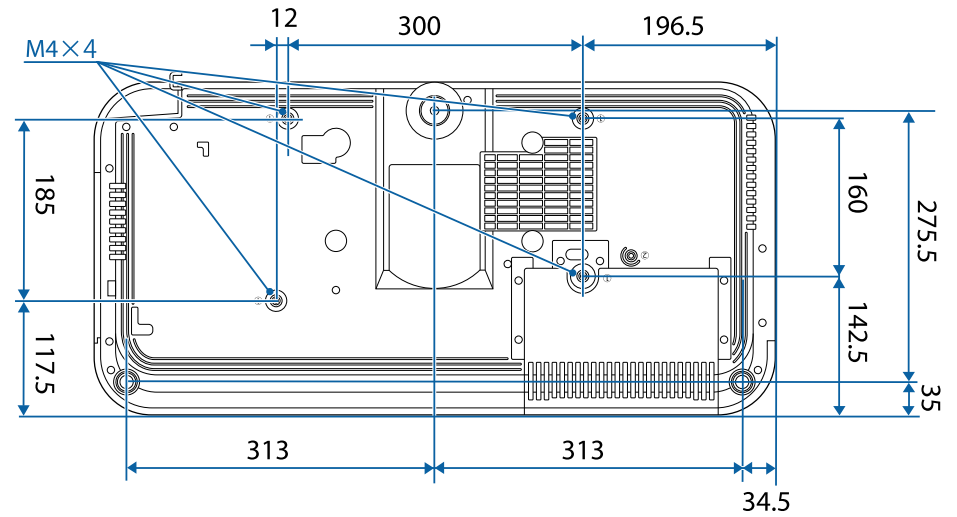
HDMI1 port	1	HDMI
HDMI2 (ARC) port	1	HDMI
HDMI3 (Game) port	1	HDMI
USB-A port	2	USB connector (Type A)
Service port	1	USB connector (Mini-B)
Audio Out port	1	Stereo mini jack (3.5Φ)
Optical Out port	1	Optical digital audio connector (S/PDIF)
DC Out (2.0A) port	1	USB connector (Type A)



USB-A port supports USB 2.0. However, USB ports are not guaranteed to operate all devices that support USB.



① Center of the projection window



The unit in these illustrations is mm.

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

No.	Symbol mark	Approved standards	Description
①		IEC60417 No. 5007	"ON" (power) To indicate connection to the mains.
②		IEC60417 No. 5008	"OFF" (power) To indicate disconnection from the mains.
③		IEC60417 No. 5009	Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
④		ISO7000 No. 0434B, IEC3864-B3.1	Caution To identify general caution when using the product.
⑤		IEC60417 No. 5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
⑥		IEC60417 No. 6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
⑦		IEC60417 No. 5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
⑧		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.

No.	Symbol mark	Approved standards	Description
⑨		—	The same as No. 8.
⑩		IEC60417 No. 5001B	Battery, general On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
⑪		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.
⑫		—	The same as No. 11.
⑬		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.
⑭		IEC60417 No. 5017	Earth To identify an earth (ground) terminal in cases where neither the symbol No. 13 is explicitly required.
⑮		IEC60417 No. 5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
⑯		IEC60417 No. 5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.

No.	Symbol mark	Approved standards	Description
17		IEC60417 No. 5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
18		ISO 3864	General prohibition To identify actions or operations that are prohibited.
19		ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
20		—	Never look into the optical lens while the projector is on.
21		—	To indicate that the marked item don't place anything on projector.
22		ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.
23		ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
24		IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
25		ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.
26		IEC60417 No. 6056	Caution (Moving Fan Blades) As a safety precaution, stay away from the moving fan blades.

No.	Symbol mark	Approved standards	Description
27		IEC60417 No. 6043	Caution (Sharp Corners) To indicate sharp corners that should not be touched.
28		—	To indicate that looking into the lens while projecting is prohibited.
29		ISO7010 No. W027 ISO 3864	Warning, Optical radiation (such as UV, visible radiation, IR) Taking care to avoid injury to eyes and skin when in the vicinity of optical radiation.
30		IEC60417 No. 5109	Not to be used in residential areas. To identify electrical equipment which is not suitable for a residential area.

This projector is a Class 1 laser product that complies with the IEC/EN60825-1:2014 international standard for lasers.

Follow these safety instructions when using the projector.

Warning

- Do not open the projector's case. The projector contains a high-powered laser.
- Possibly hazardous optical radiation emitted from this product. Do not look at operating light source. Eye injury may result.

Caution

Do not disassemble the projector when disposing of it. Dispose according to your local or national laws and regulations.



The projector uses a laser as the light source. The laser has the following characteristics.

- Depending on the surroundings, the brightness of the light source may decline. The brightness declines a lot when the temperature gets too high.
- The brightness of the light source declines the longer it is used. You can change the relationship between usage time and decline in brightness settings.

» Related Links

- "Laser Warning Labels" [p.118](#)

Inside

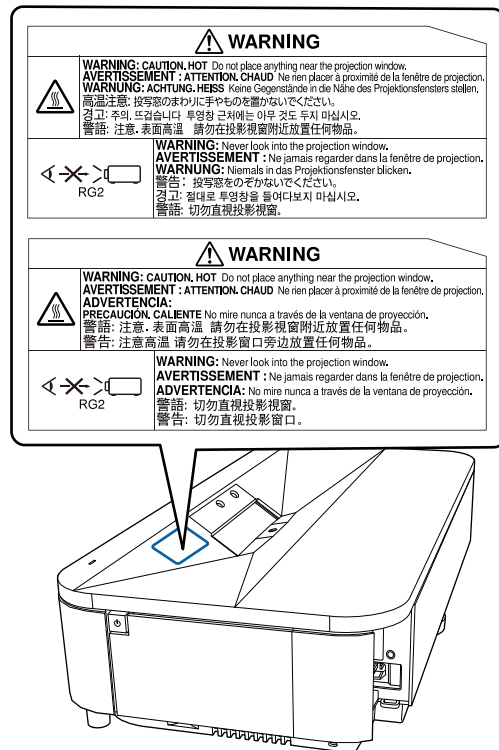


Laser Warning Labels

Laser warning labels are attached on the projector.

Top

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



Warning

- Never look into the projector lens when the laser is on. This can damage your eyes and is especially dangerous for children and pets.
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- Do not allow small children to operate the projector. Children must be accompanied by an adult.
- Do not look into the lens during projection. Also, do not look into the lens using optical devices, such as a magnifying glass or telescope. This could cause visual impairment.

For North/South America

This projector is a Class 1 laser product that complies with the IEC/EN60825-1:2014 international standard for lasers. Follow these safety instructions when using the projector.

Complies with FDA performance standards for laser products except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5: Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.

This section briefly explains the difficult terms that are not explained 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.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to make text and graphics stand out more clearly, or to make them appear softer. Adjusting this particular property of an image is called contrast adjustment.
Full HD	A screen size standard with a resolution of 1,920 (horizontal) × 1,080 (vertical) dots.
HDCP	HDCP is an abbreviation for High-bandwidth Digital Content Protection. It is used to prevent illegal copying and protect copyrights by encrypting digital signals sent over DVI and HDMI ports. Because the HDMI port on this projector supports HDCP, it can project digital images protected by HDCP technology. However, the projector may not be able to project images protected with updated or revised versions of HDCP encryption.
HDMI™	An abbreviation for High Definition Multimedia Interface. HDMI™ is a standard aimed at digital consumer electronics and computers. This is the standard by which HD images and multichannel audio signals are digitally transmitted. 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 that refers to high-definition systems which satisfy the following conditions: • Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace) • Screen aspect ratio of 16:9
Pairing	Register devices in advance when connecting with Bluetooth devices to ensure mutual communication.

Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time. Because of this, the image must be scanned many times per second to refresh the light-emitting element. The number of refresh operations per second is called the Refresh rate and is expressed in hertz (Hz).
SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.

Check these sections for important notices about your projector.

» Related Links

- "FCC Compliance Statement" [p.121](#)
- "Indication of the manufacturer and the importer in accordance with requirements of EU directive" [p.122](#)
- "Restriction of Use" [p.122](#)
- "Trademarks" [p.122](#)
- "Copyright Notice" [p.122](#)
- "Copyright Attribution" [p.123](#)

FCC Compliance Statement

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: HA90B

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 interference to radio and 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.

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 Zuidooost
The Netherlands
Telephone: 31-20-314-5000
<http://www.epson.eu/>

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.

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