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EPSON LS300WATV 3LCD Smart Laser Projector User Guide

EXCEED YOUR VISION

LS300BATV/LS300WATV User's Guide

Contents

1 LS300BATV/LS300WATV User's Guide
2 Introduction to Your Projector
3 Maintaining and Transporting the Projector
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4.1 References

LS300BATV/LS300WATV User's Guide

Welcome to the LS300BATV/LS300WATV User's Guide.
For a printable PDF copy of this guide, click here.
Note: Availability of products in this guide varies by country.

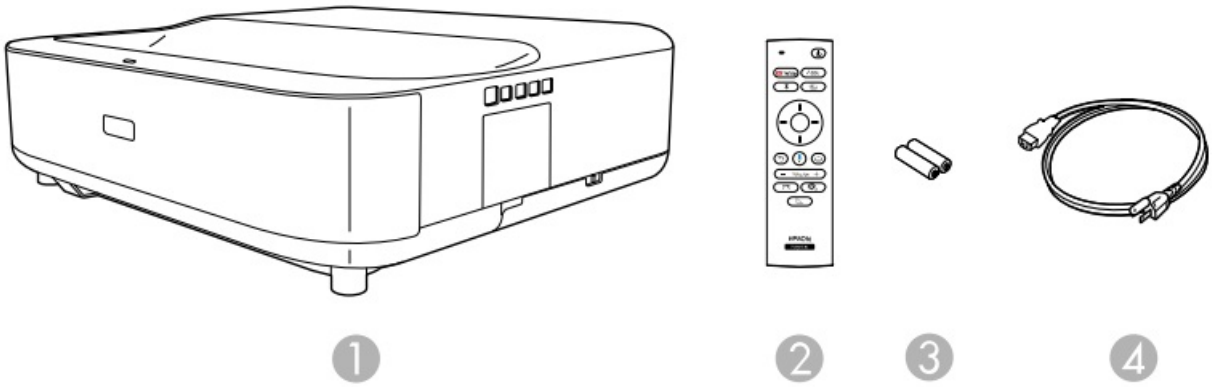
Introduction to Your Projector

Refer to these sections to learn more about your projector and this manual.
Projector Features
Notations Used in the Documentation
Where to Go for Additional Information
Additional Projector Software and Manuals
Projector Part Locations
Projector Features

The LS300BATV/LS300WATV projector includes these special features:
Bright, high-resolution projection system

- Up to 3600 lumens of color brightness (color light output) and white brightness (white light output)
  Note: Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118.
  Flexible connectivity
- Two HDMI ports for computer or video device connection
- Stream content from your compatible device via Chromecast built-in
  Innovative display and operation features
- Long-life laser light source
- Built-in Android TV
- Motion sensor near the projection window reduces light output to help prevent dangerous light exposure to the eyes
- Over 1,500,000:1 contrast ratio and Dynamic Contrast control for sharp, detailed images
- Powerful 2.1 channel Yamaha stereo speaker system with optical audio out port for connecting external speakers
- Bluetooth speaker mode Product Box Contents

Additional Components
Optional Equipment and Replacement Parts
Warranty and Registration Information (U.S. and Canada)
Warranty and Registration Information (Latin America)
Parent topic: Introduction to Your Projector
Product Box Contents
Save all the packaging in case you need to ship the projector. Always use the original packaging (or equivalent) when shipping.
Make sure your projector box included all of these parts:



1. Projector
2. Remote control
3. Remote control batteries (2 AAA alkaline)
4. Power cord

Parent topic: Projector Features

Additional Components
Depending on how you plan to use the projector, you may need to obtain additional components.
Note: To connect a source that does not include a compatible video output port, you need to obtain an adapter that allows you to connect to an input port on the projector. If the device is a Mac, contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter that allows you to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer for compatible adapter options.
Unless listed as available from Epson in this table, see your local computer or electronics dealer for purchase information.
Note: Availability of accessories varies by country.

Signal or connection type	Additional component necessary
HDMI	Compatible HDMI cable U.S. and Canada: Available for purchase from Epson or a n authorized Epson reseller. Latin America: Available for purchase from an authorized Epson reseller. Note: Older Mac computers (2009 and earlier) may not su pport HDMI audio.
Optical digital audio cable	Commercially available optical digital audio cable compatible with your device

Parent topic: Projector Features
Optional Equipment and Replacement Parts
U.S. and Canada: You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766) in the U.S. or 800-807-7766 in Canada. Or you can purchase online at epsonstore.com (U.S. sales) or epsonstore.ca (Canadian sales).
Latin America: You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, go to latin.epson.com. Or you can click the "Where to Get Help" link below to contact your nearest sales office.
Note: Availability of accessories varies by country.
Epson offers the following optional accessories and replacement parts for your projector:
U.S. and Canada:

Option or part	Part number
Replacement air filter (ELPAF60)	V13H134A60
Ultra Short Throw Screen 100″ (ELPSC35)	V12H002AM0
Ultra Short Throw Screen 120″ (ELPSC35)	V12H002AL0

In addition to the accessories listed above, extended service plans are available.
Latin America:

Option or part	Part number
Replacement air filter (ELPAF60)	V13H134A60

Warranty and Registration Information (U.S. and Canada)
Your projector comes with a basic warranty that lets you project with confidence. For details, see the warranty brochure that came with your projector.

Note: Availability varies by region.
Register your product online at this site: **epson.com/webreg**
Registering also lets you receive special updates on new accessories, products, and services.
Parent topic: Projector Features
Warranty and Registration Information (Latin America)
Your projector comes with a basic warranty that lets you project with confidence. For details, see the warranty that came with your projector.
Register your product online at latin.**epson.com/support**, search for your product, and select Register.
Registering also lets you receive special updates on new accessories, products, and services.
Parent topic: Projector Features
Notations Used in the Documentation
Follow the guidelines in these notations as you read your documentation:

- Warnings must be followed carefully to avoid bodily injury.
- Cautions must be observed to avoid damage to your equipment.
- Notes contain important information about your projector.
- Tips contain additional projection information.

Parent topic: Introduction to Your Projector

Where to Go for Additional Information
Need quick help on using your projector? Here's where to look for help:

- **https://support.google.com/androidtv/** for Android TV support
- **epson.com/support** (U.S.), **epson.com/support** (Canada), or latin.**epson.com/support** (Caribbean)

  View FAQs (frequently asked questions) and e-mail your questions to Epson technical support 24 hours a day.
- If you still need help after checking this manual and any other sources listed here, you can use the Epson PrivateLine Support service to get help fast (U.S. and Canada only). For details, see "Where to Get Help."

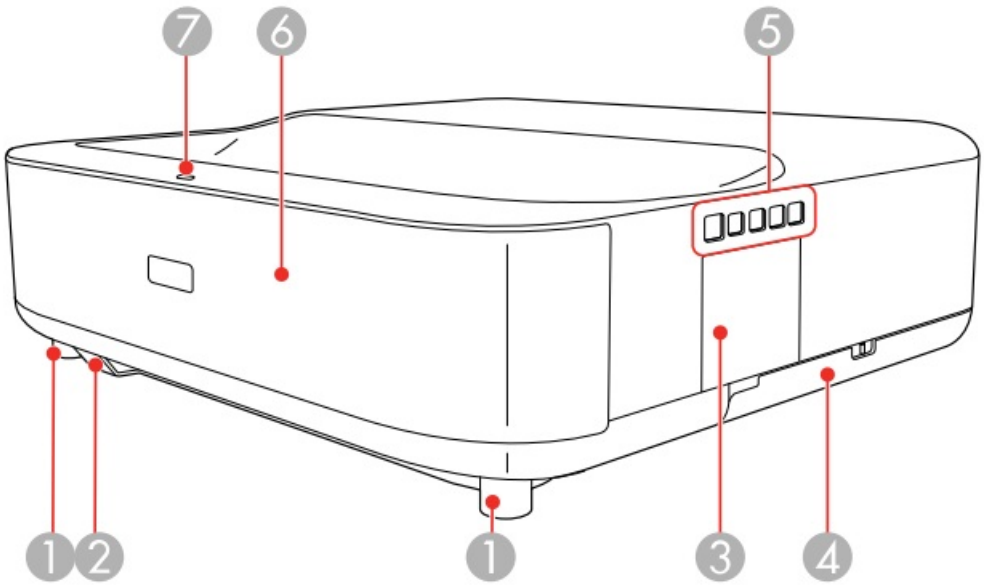
Parent topic: Introduction to Your Projector

Additional Projector Software and Manuals
After connecting and setting up the projector, install the projector software as necessary. You may need to install it from a software CD, if included, or download the software and manuals as necessary.
You can install the projector software programs listed here and view their manuals for instructions on using them.
Note: If you still need help after checking this manual and the sources listed here, you can use the Epson PrivateLine Support service to get help fast (U.S. and Canada only). For details, see "Where to Get Help."

Projector software	Manual	Description
—	Open Source Software License	You can download this document from the Epson web site. Go to **epson.com/support** (U.S.), **epson.ca/support** (Canada), or latin.**epson.com/support** (Caribbean) and select your projector. (Document available only in English.)

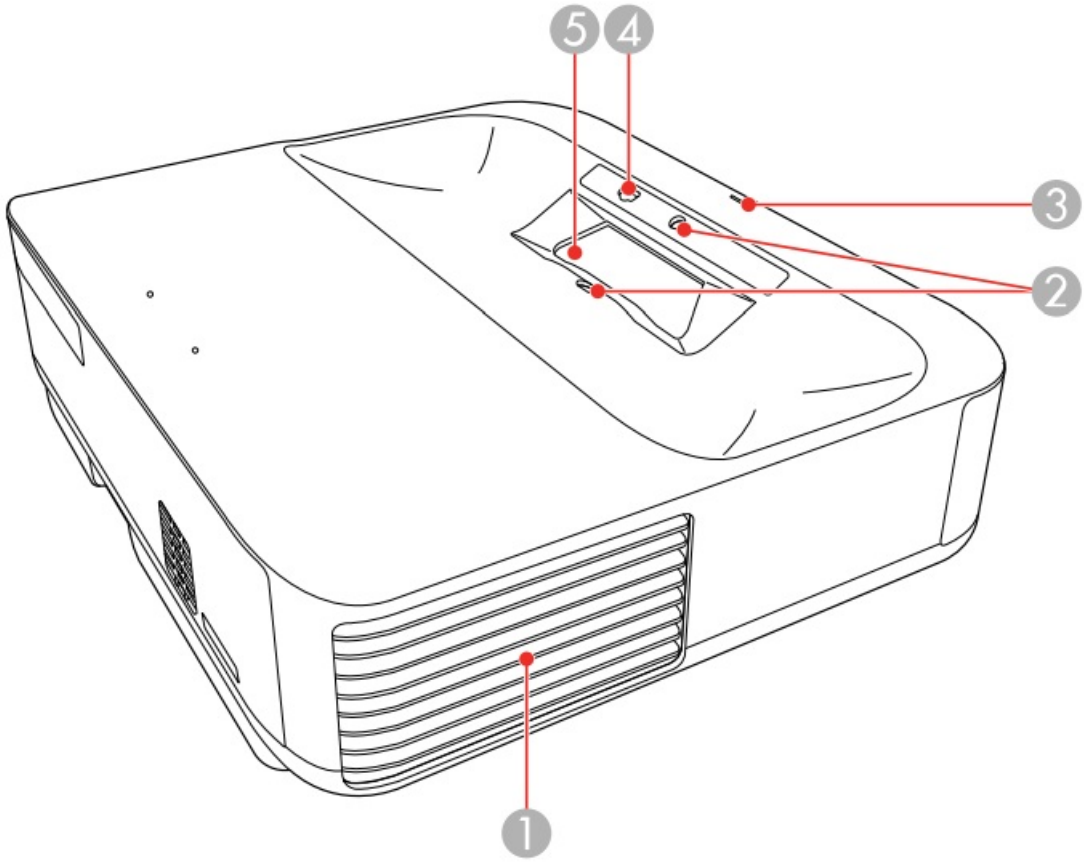
Parent topic: Introduction to Your Projector
Projector Part Locations
Check the projector part illustrations to learn about the parts on your projector.
Projector Parts – Front/Top
Projector Parts – Top/Side
Projector Parts – Rear

Projector Parts – Base
Projector Parts – Control Panel
Projector Parts – Remote Control
Parent topic: Introduction to Your Projector
Projector Parts – Front/Top



1. Front adjustable feet
2. Remote receiver
3. Focus lever cover
4. Air filter cover
5. Control panel
6. Speakers
7. Status light

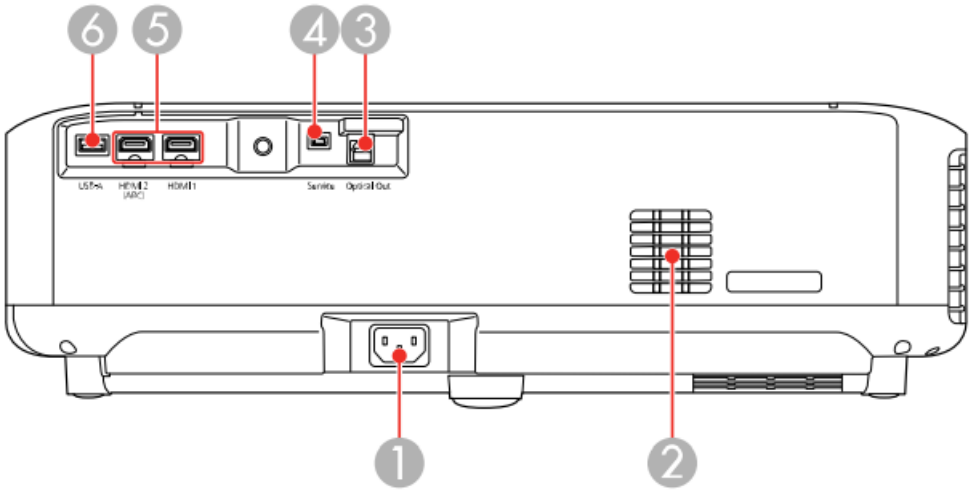
Parent topic: Projector Part Locations
Related references
Projector Light Status
Projector Parts – Top/Side



1. Exhaust vent
2. Obstacle sensors
3. Status light
4. Motion sensor
5. Projection window

Parent topic: Projector Part Locations
Related references
Projector Light Status

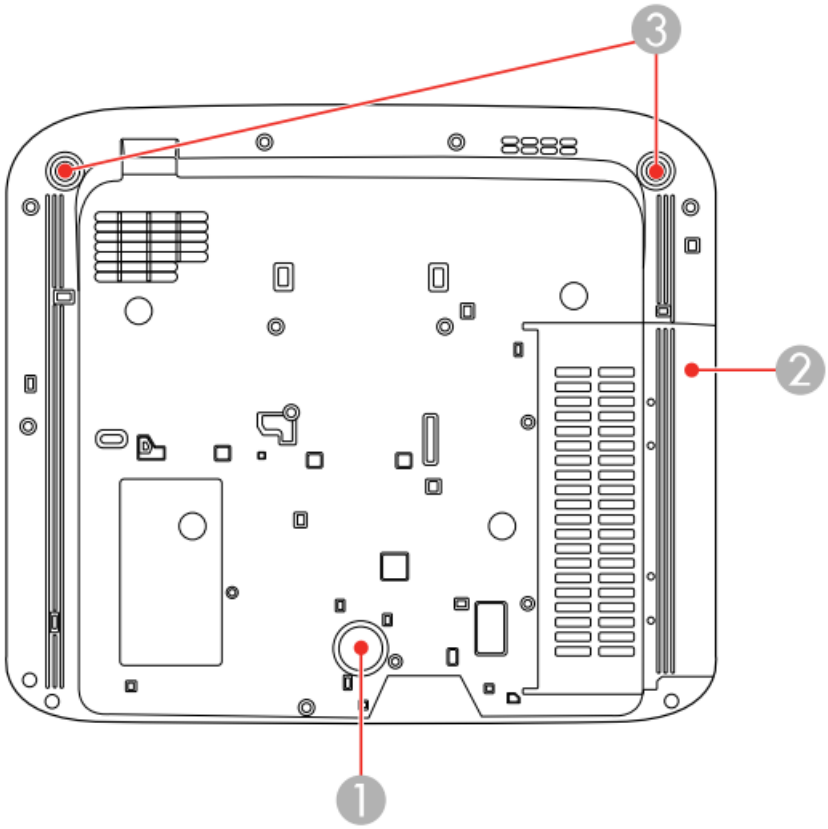
Projector Parts – Rear



1. Power inlet
2. Air intake vent
3. Optical Out port
4. Service port
5. HDMI1/HDMI2 (ARC) ports
6. USB-A port

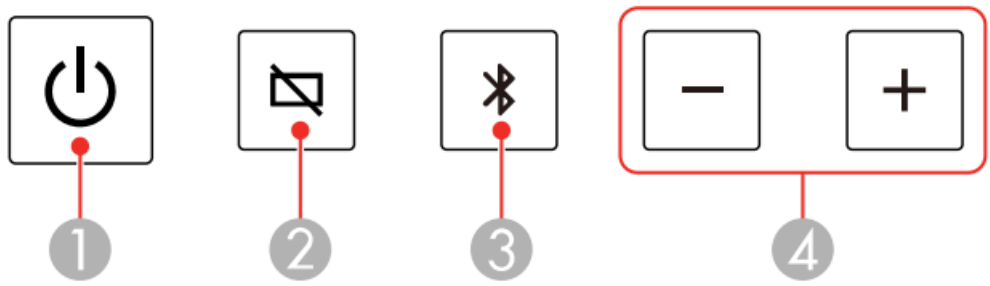
Parent topic: Projector Part Locations
Related concepts
Projector Connections

Projector Parts – Base



1. Rear foot (fixed)
2. Air intake vent (air filter)
3. Front adjustable feet

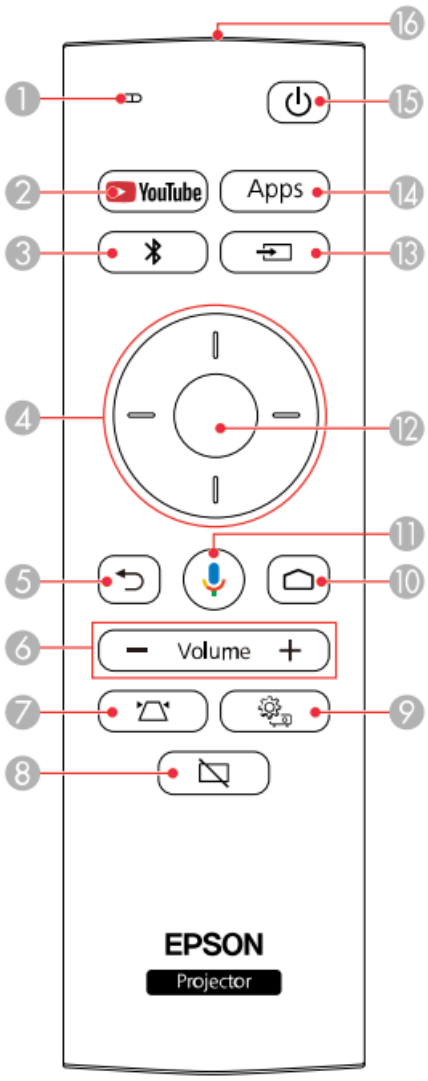
Parent topic: Projector Part Locations
Projector Parts – Control Panel



1. Power button
2. Blank button (turns off picture)
3. Bluetooth Speaker mode button (switches to Bluetooth Speaker mode)
4. Volume buttons

Parent topic: Projector Part Locations

Projector Parts – Remote Control



1. Microphone (listens for voice commands after pressing the mic button)

2. YouTube button (opens the YouTube app)
3. Bluetooth Speaker mode button (switches to Bluetooth Speaker mode)
4. Arrow buttons (move through on-screen options)
5. Esc button (cancels/exits function)
6. Volume up and volume down buttons
7. Corner Adjustment button (displays the Corner Adjustment screen to adjust the image shape)
8. Blank button (turns off picture)
9. Settings button (accesses projector menus)
10. Home button (accesses Android TV Home screen)
11. mic button (operates Android TV using voice commands)
12. Enter button (selects options)
13. Source Search button (changes the input source)
14. Apps button (displays available Android TV apps)
15. Power button
16. Remote control emitter

Parent topic: Projector Part Locations

Setting Up the Projector

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

Projector Placement
Projector Connections
Installing Batteries in the Remote Control
Setting Up Android TV

Projector Placement

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

Warning: The projector is not intended to be ceiling- or wall-mounted. Do not mount the projector on a ceiling or a wall. It could fall and cause damage or injury.

Keep these considerations in mind as you select a projector location:

- Place the projector on a sturdy, level surface.
- 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.
- Wherever you set up the projector, make sure to position it squarely in front of the center of the screen, not at an angle, if possible.
- Position the projector within reach of a grounded electrical outlet or extension cord.

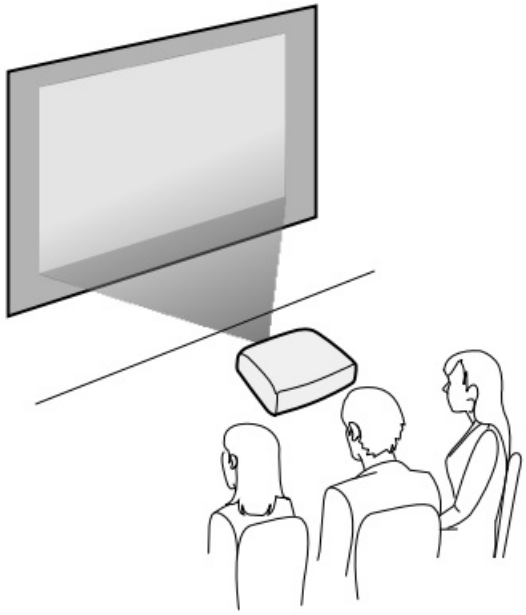
Projector Setup and Installation Options
Projection Distance

Parent topic: Setting Up the Projector

Projector Setup and Installation Options

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

Front

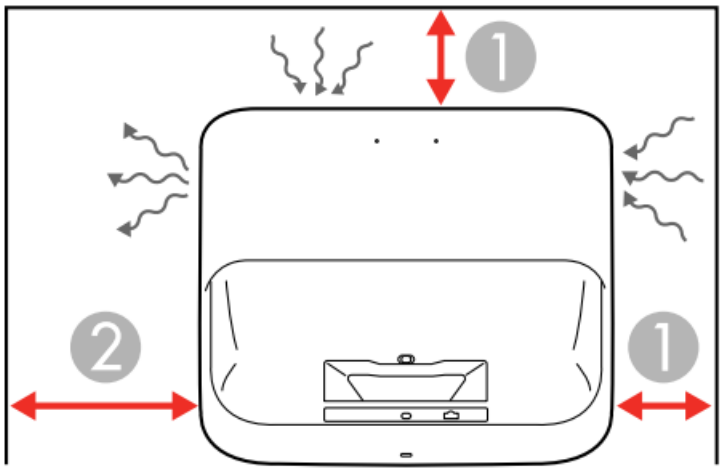


Wherever you set up the projector, make sure to position it squarely in front of the center of the screen, not at an angle, if possible.

Note: The projector is not intended to be ceiling- or wall-mounted. Do not mount the projector on a ceiling or a wall. It could fall and cause damage or injury.

Installation space

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



1. 3.9 inches (10 cm)
2. 12 inches (30 cm)

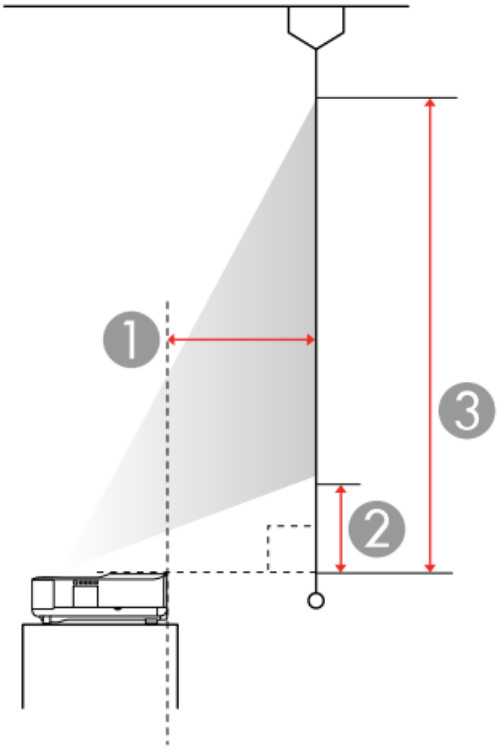
Parent topic: Projector Placement

Projection Distance

The distance at which you place the projector from the screen determines the approximate size of the image. The image size increases the farther the projector is from the screen, but can vary depending on the zoom factor, aspect ratio, and other settings.

Use the tables here to determine approximately how far to place the projector from the screen based on the size of the projected image. (Conversion figures may have been rounded up or down.)

You can also use the Projection Distance Calculator here (U.S.), here (Canada), or here (Caribbean).



1. Projection distance (from image to rear of projector)
2. Distance from projector to base of image
3. Distance from projector to top of image

16:9 Aspect Ratio Image or Screen			
Screen or image size	Projection distance (1)	Offset from top of projector (2)	Offset from top of projector (3)
61 inches (154.94 cm)	1.3 inches (3.22 cm)	5 inches (12.7 cm)	34.9 inches (88.7 cm)
70 inches (177.8 cm)	3.4 inches (8.6 cm)	6.1 inches (15.5 cm)	40.4 inches (102.7 cm)
75 inches (190.5 cm)	4.6 inches (11.6 cm)	6.7 inches (17 cm)	43.5 inches (110.4 cm)
80 inches (203.2 cm)	5.8 inches (14.6 cm)	7.3 inches (18.6 cm)	46.5 inches (118.2 cm)

16:9 Aspect Ratio Image or Screen			
Screen or image size	**Projection distance (1)**	**Offset from top of projector (2)**	**Offset from top of projector (3)**
90 inches (228.6 cm)	8.1 inches (20.6 cm)	8.5 inches (21.7 cm)	52.7 inches (133.8 cm)
100 inches (254 cm)	10.5 inches (26.6 cm)	9.8 inches (24.8 cm)	58.8 inches (149.3 cm)
110 inches (279.4 cm)	12.8 inches (32.6 cm)	11 inches (27.9 cm)	64.9 inches (164.9 cm)
120 inches (304.8 cm)	15.2 inches (38.6 cm)	12.2 inches (31 cm)	71.1 inches (180.5 cm)

4:3 Aspect Ratio Image or Screen			
Screen or image size	**Projection distance (1)**	**Offset from top of projector (2)**	**Offset from top of projector (3)**
50 inches (127 cm)	1.3 inches (3.3 cm)	5 inches (12.8 cm)	35 inches (89 cm)
55 inches (139.7 cm)	2.8 inches (7 cm)	5.8 inches (14.7 cm)	38.8 inches (98.5 cm)
60 inches (152.4 cm)	4.2 inches (10.7 cm)	6.5 inches (16.6 cm)	42.5 inches (108 cm)
65 inches (165.1 cm)	5.6 inches (14.3 cm)	7.3 inches (18.5 cm)	46.3 inches (117.5 cm)
70 inches (177.8 cm)	7.1 inches (18 cm)	8 inches (20.4 cm)	50 inches (127 cm)
75 inches (190.5 cm)	8.6 inches (21.7 cm)	8.8 inches (22.3 cm)	53.8 inches (136.6 cm)
80 inches (203.2 cm)	10 inches (25.4 cm)	9.5 inches (24.2 cm)	57.5 inches (146.1 cm)
85 inches (215.9 cm)	11.4 inches (29 cm)	10.3 inches (26.1 cm)	61.3 inches (155.6 cm)
90 inches (228.6 cm)	12.9 inches (32.7 cm)	11 inches (28 cm)	65 inches (165.1 cm)
98 inches (248.9 cm)	15.2 inches (38.6 cm)	12.2 inches (31 cm)	71 inches (180.4 cm)

16:10 Aspect Ratio Image or Screen			
Screen or image size	**Projection distance (1)**	**Offset from top of projector (2)**	**Offset from top of projector (3)**
60 inches (152.4 cm)	2.2 inches (5.5 cm)	5.5 inches (13.9 cm)	37.3 inches (94.7 cm)
65 inches (165.1 cm)	3.5 inches (8.8 cm)	6.1 inches (15.6 cm)	40.6 inches (103.1 cm)
70 inches (177.8 cm)	4.7 inches (12 cm)	6.8 inches (17.3 cm)	43.9 inches (111.5 cm)
75 inches (190.5 cm)	6 inches (15.3 cm)	7.4 inches (18.9 cm)	47.2 inches (119.9 cm)

16:10 Aspect Ratio Image or Screen			
Screen or image size	**Projection distance (1)**	**Offset from top of projector (2)**	**Offset from top of projector (3)**
80 inches (203.2 cm)	7.3 inches (18.5 cm)	8.1 inches (20.6 cm)	50.5 inches (128.3 cm)
85 inches (215.9 cm)	8.6 inches (21.8 cm)	8.8 inches (22.3 cm)	53.8 inches (136.7 cm)
90 inches (228.6 cm)	9.9 inches (25 cm)	9.5 inches (24 cm)	57.1 inches (145.1 cm)
100 inches (254 cm)	12.4 inches (31.5 cm)	10.7 inches (27.3 cm)	63.8 inches (162 cm)
111 inches (281.9 cm)	15.2 inches (38.6 cm)	12.2 inches (31 cm)	71.1 inches (180.5 cm)

Parent topic: Projector Placement

Projector Connections

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

Caution: If you will use the projector at altitudes above 4921 feet (1500 m), turn on High Altitude Mode to ensure the projector's internal temperature is regulated properly.

Caution: 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.

Connecting to an HDMI Video Source

Connecting External Speakers Using HDMI ARC

Connecting to External Speakers

Connecting to a Bluetooth Audio Device

Parent topic: Setting Up the Projector

Related references

Additional Components

Projector Feature Settings – Settings Menu

Connecting to an HDMI Video Source

If your video source has an HDMI port, you can connect it to the projector using an optional HDMI cable.

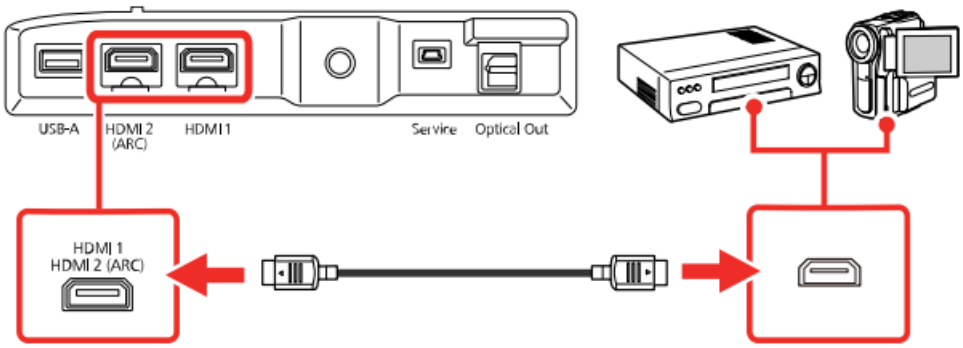
Caution: Do not turn on the video source before connecting it to the projector. Doing so could damage the projector.

Note: If the port on your device 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.

1. Connect the HDMI cable to your video source's HDMI output port.

   Note: To display signals in the 18 Gbps transmission band, such as from a 4K 60 fps source, use a cable rated for HDMI 2.0 or higher or you may have trouble displaying an image.

2. Connect the other end to one of the HDMI ports on the rear of the **projector.**



Note: When an audio/video source that meets the HDMI CEC standard is connected to one of the projector's

HDMI ports, you can use the projector's remote control to control certain features of the linked device by accessing the Settings menu and enabling the HDMI CEC setting.

Parent topic: Projector Connections Related references

Projector Feature Settings – Settings Menu

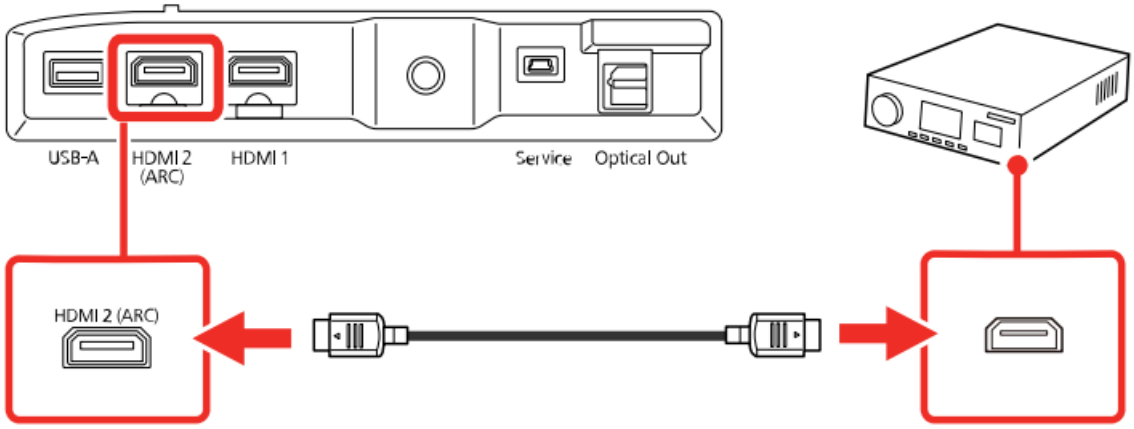
Connecting External Speakers Using HDMI ARC

If your external speakers or A/V receiver are HDMI ARC-compatible, you can connect them to the projector's HDMI2 (ARC) port using an optional HDMI cable. Make sure the HDMI CEC setting is enabled and then enable HDMI2 ARC. In the projector's Sound menu, set Sound Output Device as ARC.

Note: If you want to output higher quality audio, set Sound Output Format as Auto in the projector's Sound menu.

1. Connect the HDMI cable to the ARC-compatible HDMI port on your external speakers or A/V receiver.

   Note: To display signals in the 18 Gbps transmission band, such as from a 4K 60 fps source, use a cable rated for HDMI 2.0 or higher or you may have trouble displaying an image.
2. Connect the other end to the HDMI2 (ARC) port on the rear of the projector.



3. Select any HDMI control settings on the connected speakers or receiver, as necessary. See your device's documentation for more information.

   Parent topic: Projector Connections

   Related references

   Projector Feature Settings – Settings Menu

   Sound Quality Settings – Sound Menu

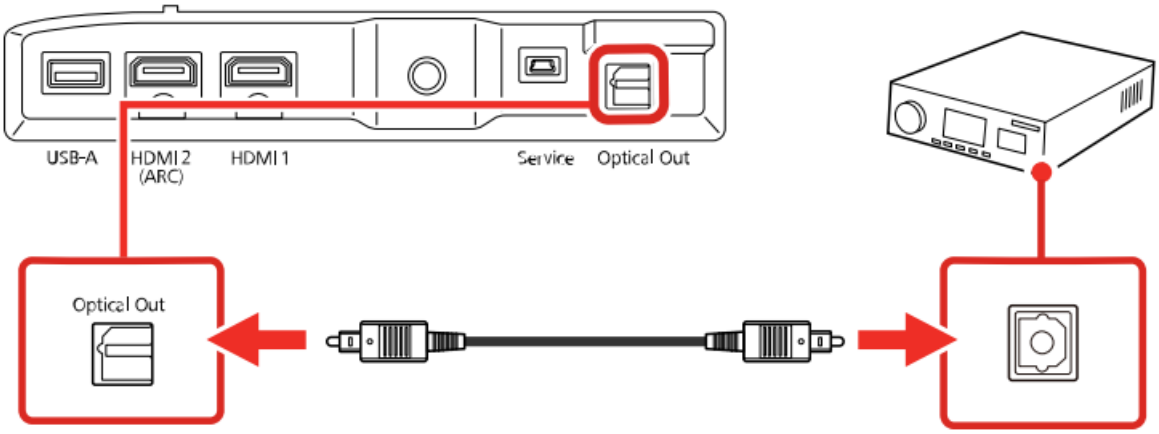
Connecting to External Speakers

To enhance the sound from your video source, you can connect the projector to external self-powered speakers using the optical digital audio out port. You can control the projector's output volume using the projector's remote control.

You can also connect the projector to an amplifier with speakers. This bypasses the internal speakers.

Note: If you want to output higher quality audio, set Sound Output Format as Auto in the projector's Sound menu.

1. Make sure your computer or video source is connected to the projector via HDMI, if necessary.
2. Locate an optical digital audio cable to connect your external speakers, or another type of cable with the appropriate adapter.
3. Connect one end of the cable to your external speakers as necessary.
4. Connect the optical digital audio connector end of the cable to your projector's Optical Out port.



Parent topic: Projector Connections

Connecting to a Bluetooth Audio Device

You can connect your projector to Bluetooth audio devices such as speakers or headphones to output audio.

Note: There may be a slight delay in audio output. Bluetooth audio devices are not supported in some countries and regions.

Note: When a Bluetooth audio device is paired to the projector, the built-in speaker system and the Optical Out port are disabled.

1. Turn on the projector.
2. Select the icon at the top right of the Android TV Home screen and press Enter.
3. Select Remotes & Accessories and press Enter.

   The projector searches for compatible Bluetooth devices.
4. Turn on your device and start the pairing process on it. See the documentation supplied with the device for more information.

   Compatible devices are displayed on-screen when discovered by the projector.
5. Select the device you want to connect to and press Enter.
6. Follow the on-screen instructions to complete pairing.
7. Press the Esc button to exit the menus.

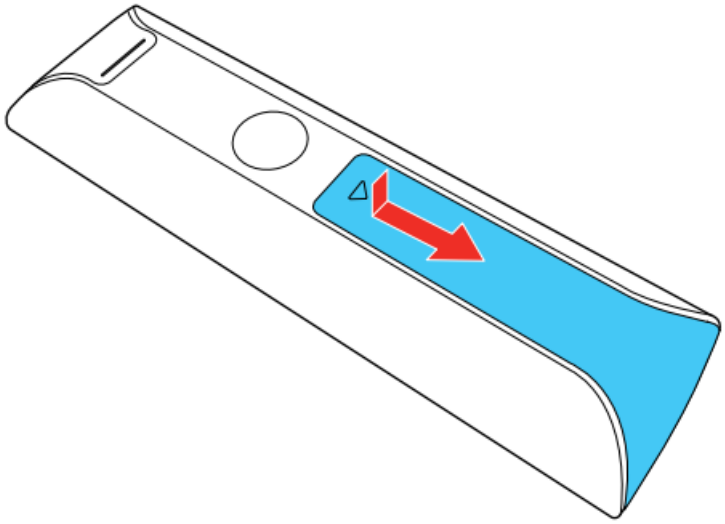
   Parent topic: Projector Connections

Installing Batteries in the Remote Control

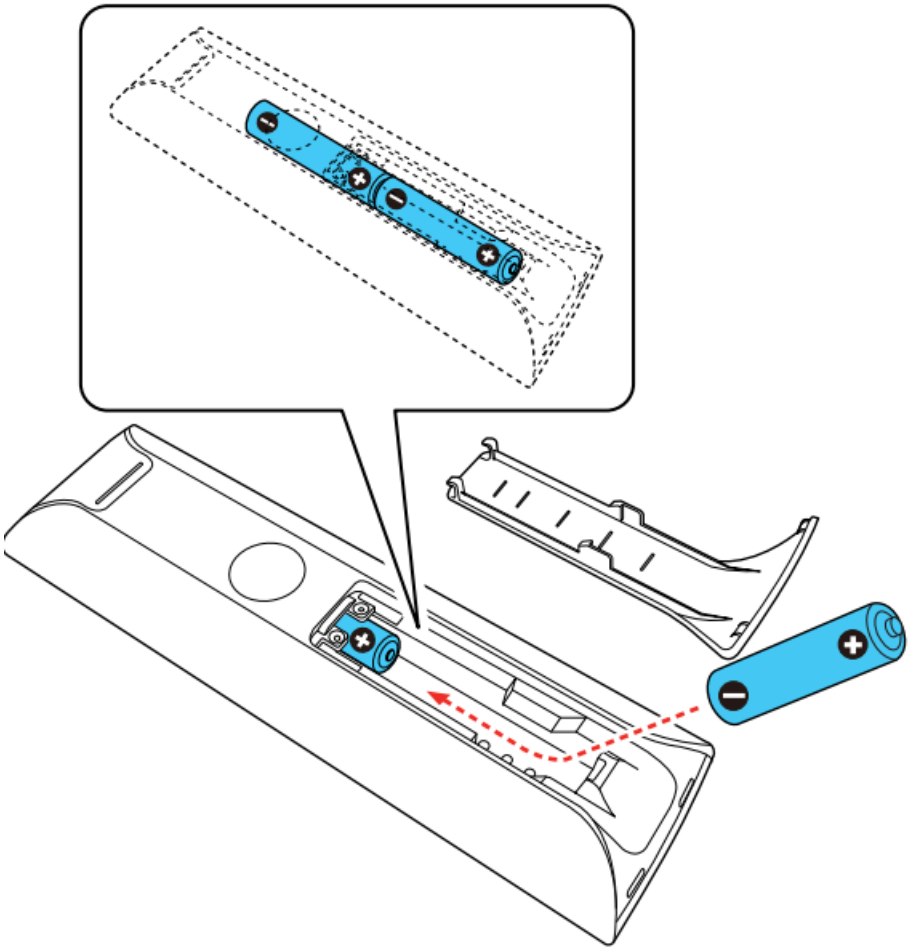
The remote control uses two AAA manganese or alkaline batteries that came with the projector.

Caution: Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.

1. Remove the battery cover.

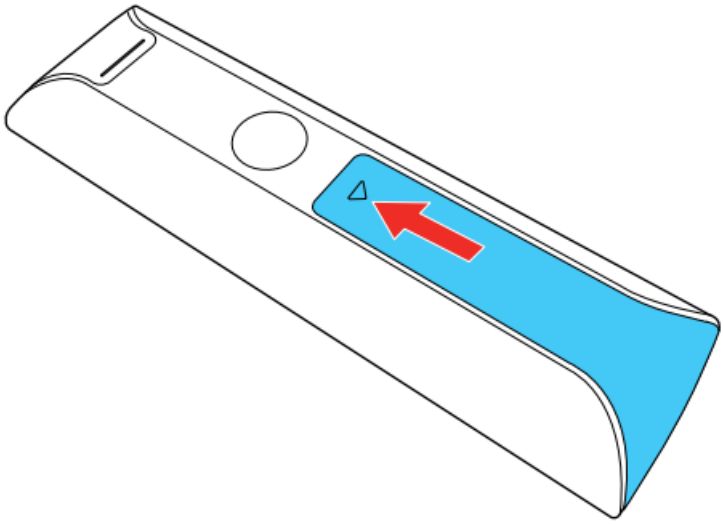


2. Insert the batteries with the + and – ends facing as shown.



Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

3. Replace the battery cover and slide it up until it clicks into place.



Warning: Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

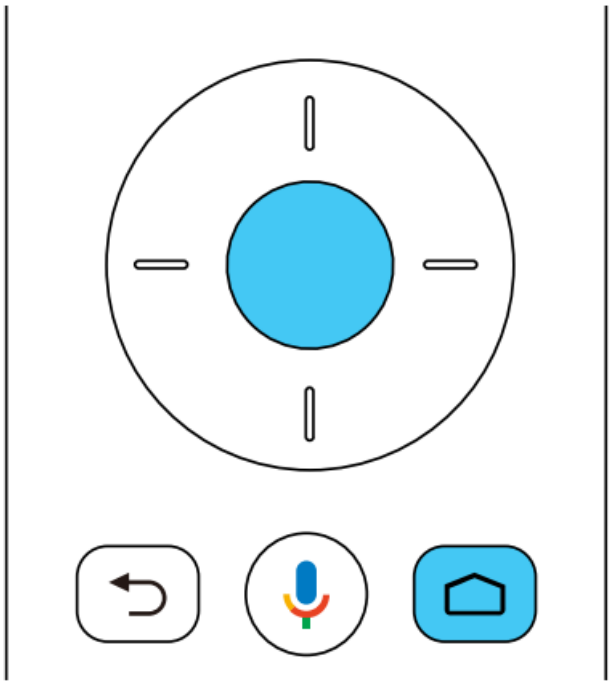
Parent topic: Setting Up the Projector

Setting Up Android TV

Android TV must be set-up when you turn on the projector for the first time.

Note: A Google account is required to use certain features. Some apps require a paid subscription. After initial setup, you can change the settings by selecting the icon at the top right of the Android TV Home screen.

1. Press the Power button on the projector or remote control.
2. When the pairing screen is displayed, press and hold the Enter and Home remote control buttons at the same time.



The light on the remote control flashes until pairing is complete.

3. Use the remote control arrow and Enter buttons to select the language you want to use from the language selection screen.
4. Do one of the following:

   • Select Continue to use an Android phone to set-up the projector's Wi-Fi and Google account settings. Follow the on-screen instructions and skip to step 7.

   • Select Skip to set-up the projector's Wi-Fi and Google account settings manually. Go to the next step.

5. Select the wireless network you want to use from the Wi-Fi setting screen and then follow the onscreen instructions to make any necessary settings.
6. At the Google account sign-in screen, do one of the following:
   • Select Sign In to sign-in to your Google account. Follow the on-screen instructions.
   • Select Skip to use the projector without signing in to a Google account.
7. Follow the on-screen instructions to proceed with initial setup, selecting settings as desired. The Home screen is displayed when initial setup is completed.

Parent topic: Setting Up the Projector

Using Basic Projector Features

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

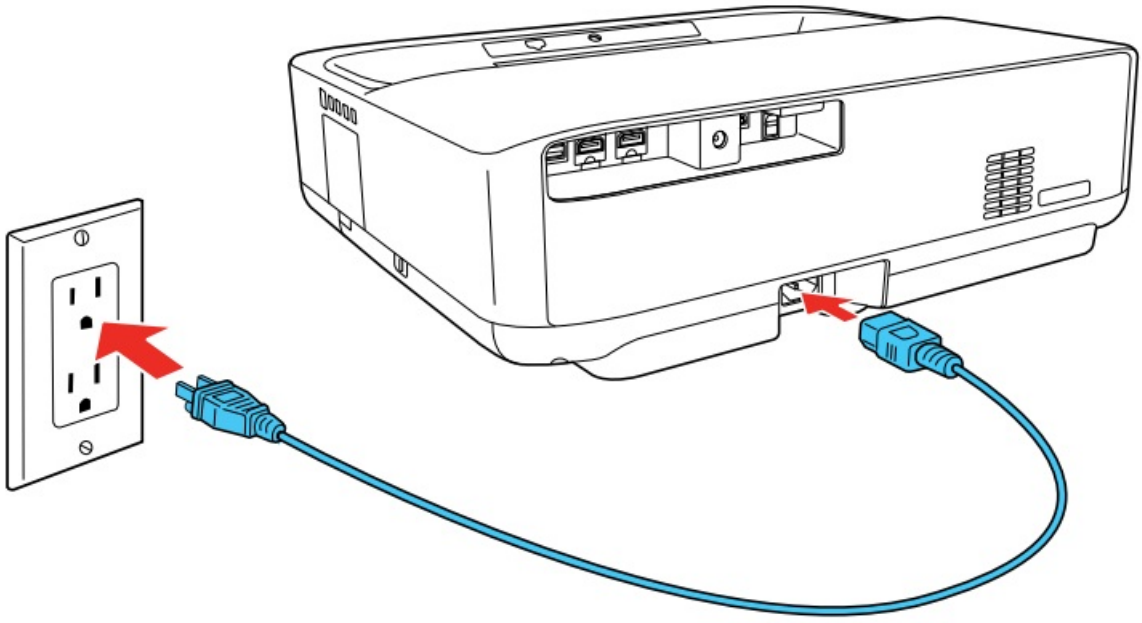
Turning On the Projector
Turning Off the Projector
Focusing the Image
Adjusting the Front Feet
Image Shape
Remote Control Operation
Using Voice Commands to Control Your Projector
Pairing the Remote Control
Selecting an Image Source
Using Your Projector as a Chromecast
Image Aspect Ratio
Color Mode
Controlling the Volume with the Volume Buttons

Turning On the Projector

Turn on the projector before you turn on the computer or video equipment you want to use.

Note: If you will use the projector at altitudes above 4921 feet (1500 m), turn on High Altitude Mode to ensure the projector's internal temperature is regulated properly.

1. Connect the computer or video equipment you want to use to one of the projector's HDMI ports, if necessary.
2. Connect the power cord to the projector's power inlet.



3. Plug the power cord into an electrical outlet.
4. Press the power button on the projector or remote control to turn on the projector.

   The Status light flashes blue as the projector warms up. When the projector is warmed up, the Status light

stops flashing and turns blue.

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. If you are using the remote control to turn the projector on, make sure no one is looking into the lens or in front of the projector before turning it on.

Caution: Make sure no objects are blocking the light from the projector lens. Objects blocking the lens for an extended time can melt, burn, or start a fire, and light that is reflected back into the lens can cause the projector to malfunction. To stop projection, press the Blank button or turn off the projector (blanking the screen will not pause video content).

5. Turn on the connected video source.

   If you do not see a projected image right away, try the following:

   • Turn on the connected computer or video device.

   • Insert a DVD or other video media and press the play button, if necessary.

   • Press the Source Search button on the remote control and select the desired input.

   • Change the screen output from the computer when using a laptop.

   Using the Home Screen

   Parent topic: Using Basic Projector Features

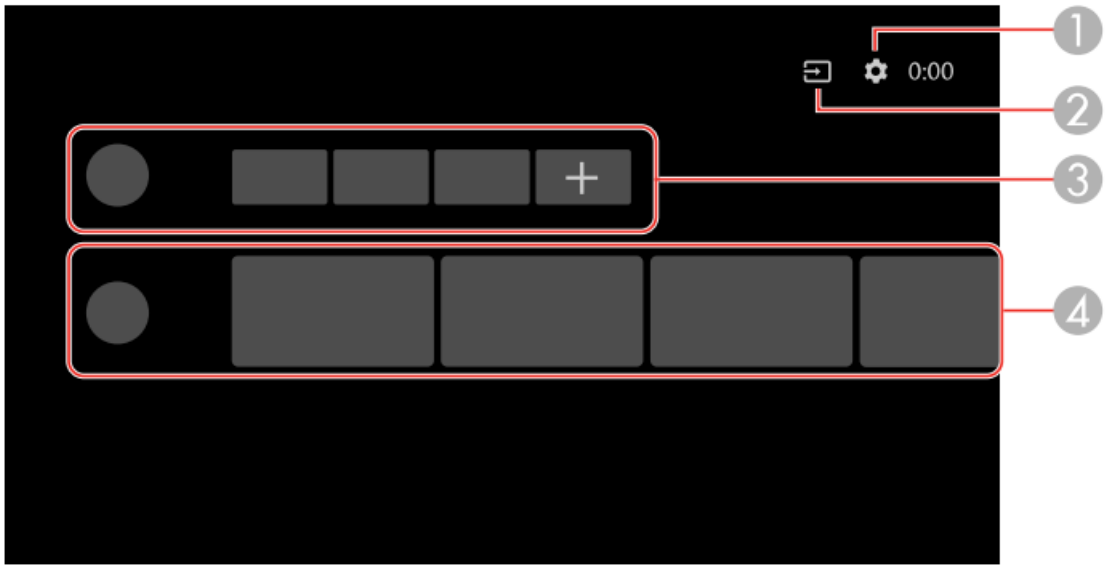
   Related references

   Projector Feature Settings – Settings Menu

Using the Home Screen

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

1. To display the Home screen, press the Home button on the remote control.
2. Press the arrow buttons on the remote control to navigate the screen, and press Enter to select an option.



1. Displays the Settings menu for Android TV (you can select various settings such as Wi-Fi, language, and Google account information)
2. Displays a list of available input sources
3. Displays the applications downloaded to your Android TV (add applications to this list by selecting the + icon)
4. Displays recommended content from your applications

   Note: The content of the Home screen may change depending on the Android TV version. Parent topic:

Turning On the Projector

Turning Off the Projector

Before turning off the projector, shut down any computer connected to it so you can see the computer display during shutdown.

Note: Turn off this product when not in use to prolong the life of the projector. Laser life will vary depending upon mode selected, environmental conditions, and usage. Brightness decreases over time.

Note: When using the Blank feature, the laser is still on. To turn off the laser, turn off the projector.

1. Press the power button on the projector or remote control.

   The laser turns off and the Status light turns off.

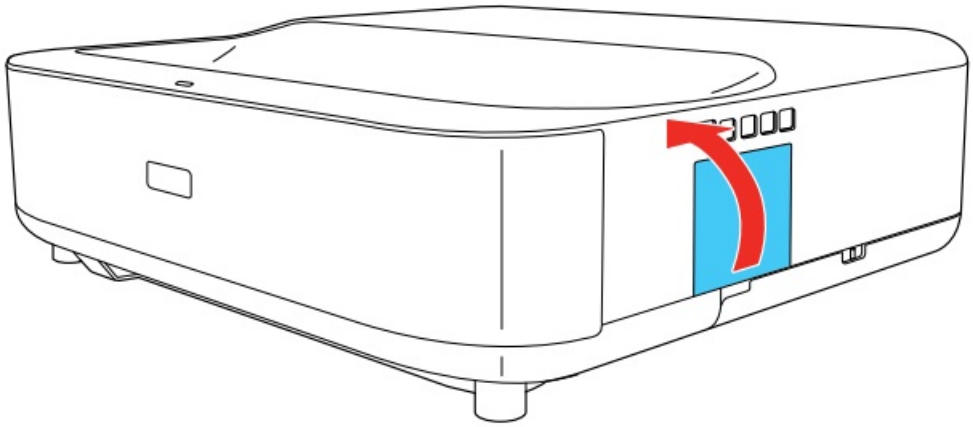
   Note: You can keep supplying power to the projector by setting the Power Button Setting to Suspend in the projector's Settings menu. You can then press any button on the projector or remote control to turn on the projector and the projector will also start up faster.
2. To transport or store the projector, make sure the Status light is off, then unplug the power cord.

   Parent topic: Using Basic Projector Features Related references

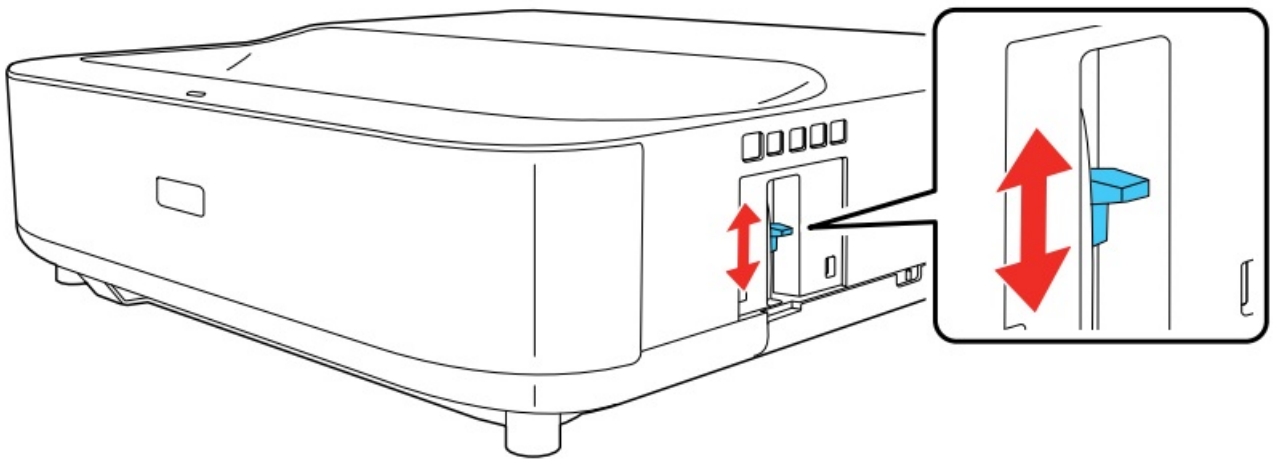
   Projector Feature Settings – Settings Menu

Focusing the Image

1. Turn on the projector and display an image.
2. Open the focus lever cover.



3. Raise or lower the focus lever to sharpen the image.

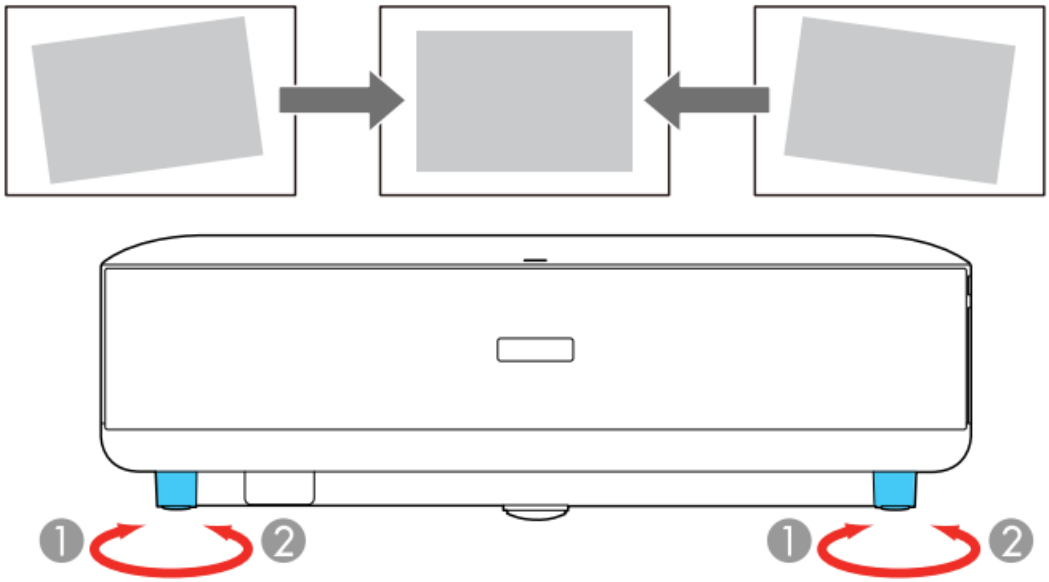


4. Close the focus lever cover.

   Parent topic: Using Basic Projector Features

Adjusting the Front Feet
If you are projecting from a table or other flat surface, you can adjust the image using the projector's adjustable feet. To adjust the image height, set the projector higher or lower while keeping it level and parallel to the screen.

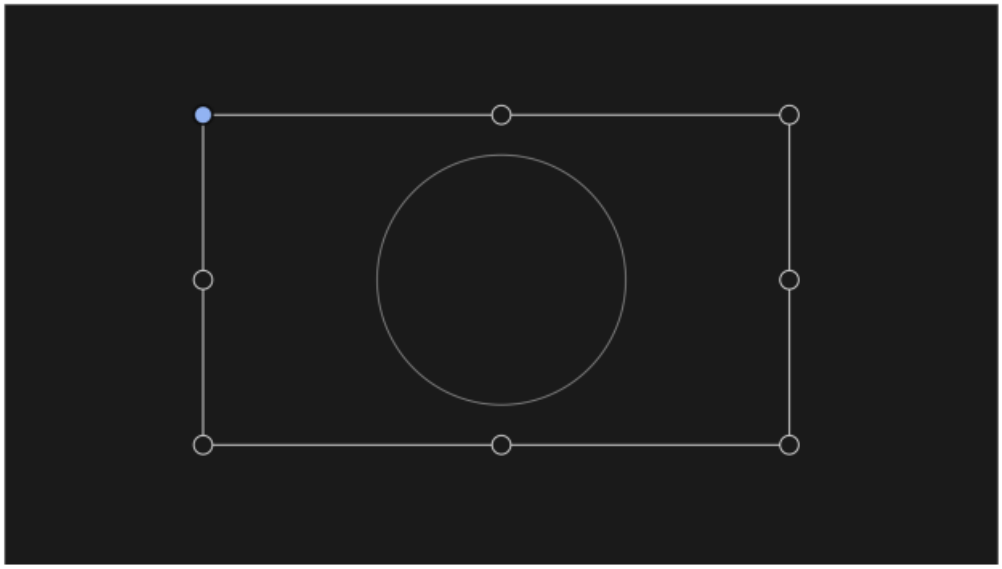
1. Turn on the projector and display an image.
2. Rotate the front feet to adjust any tilting or vertical distortion.



If the projected image is unevenly rectangular, you need to adjust the image shape.
Parent topic: Using Basic Projector Features
Image Shape
You can project an evenly rectangular image by placing the projector directly in front of the center of the screen and keeping it level. If you place the projector at an angle to the screen, or tilted up or down, or off to the side, you may need to correct the image shape for the best display quality. After correction, your image is slightly smaller and you may see a slight shadow around the screen or projected image. This is normal.
Correcting Image Shape with Corner Adjustment
Parent topic: Using Basic Projector Features
Correcting Image Shape with Corner Adjustment
You can use the projector's Corner Adjustment feature to correct the shape and size of an image that is unevenly rectangular on all sides.
Note: To provide the best possible image quality, adjust the projector's position to correct the image shape. If this isn't possible, use the Corner Adjustment feature to correct the image shape.

1. Turn on the projector and display an image.
2. Press the Corner Adjustment button on the remote control.

   You see the Corner Adjustment screen:



3. Use the arrow buttons on the remote control to select the point on the image you want to adjust. Then press Enter.
4. Press the arrow buttons to adjust the image shape as necessary.

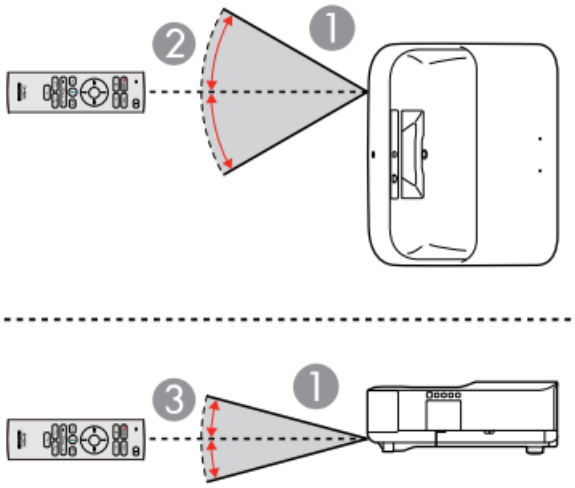
   Note: If the direction key on the screen turns gray, you cannot make further adjustments in that direction.
5. Press the ⮌Esc button on the remote control to return to the point selection screen.
6. Repeat steps 3-5 to adjust any other points.
7. When you are finished, press the ⮌ Esc button to exit.

   You may see a light shadow around the screen or projected image. This is normal.

   Parent topic: Image Shape

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 19.7 feet (6 m) away. Make sure that you aim the remote control at the projector's receiver within the angles listed here.



1. 19.7 feet (6 m)
2. ± 30°
3. ± 15°

Note: Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you will not use the remote control for a long time, remove the batteries.

Parent topic: Using Basic Projector Features

Using Voice Commands to Control Your Projector

You can use your remote control or linked Google Home device to control your projector using voice commands.

Note: Make sure the remote control is paired to the projector.

1. To use voice commands with your projector using your remote, press the mic button, then say the command you want to perform.

   You can use voice commands to search for actors or shows, open installed apps, and control media playback.
2. To use a Google Home device to send voice commands to your projector, link the device with your projector using the Google Home app. You may also need to link streaming apps to your Google account. For detailed instructions, go to your device's support page. Parent topic: Using Basic Projector Features Related tasks Pairing the Remote Control

Pairing the Remote Control

To use Android TV and video-on-demand features, you must pair the remote control to the projector.

Note: When you first turn on the projector, instructions for pairing the remote control are displayed on the screen.

1. Turn on the projector.
2. When the pairing screen is displayed, press and hold the Home and Enter buttons on the remote control until the indicator starts blinking.

   A message appears on the screen when the remote control is paired.

   Parent topic: Using Basic Projector Features

Selecting an Image Source

If you connected multiple image sources to the projector, such as a computer and DVD player, you may want to 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 its play button, if necessary.
3. Press the Source Search button on the remote control. Press the up or down buttons to select the image source.

   Note: If no image signal is detected, check the cable connections between the projector and the image source.

   Parent topic: Using Basic Projector Features

Using Your Projector as a Chromecast

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 the Cast button.
3. Select your projector from the list of devices.

   Note: By default, the name of the projector is Projector. To select another name or use a custom name, select the Settings icon on the Home screen.

   The app connects and starts casting to the projector.
4. To stop casting, press the Cast button in the app and choose the disconnect option.

   Parent topic: Using Basic Projector Features Related tasks Setting Up Android TV

Image Aspect Ratio

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 setting. However, for certain images you can change the aspect ratio 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 menus.

Note: You may need to change the aspect ratio from the HDMI video source. This is normal.

Changing the Image Aspect Ratio

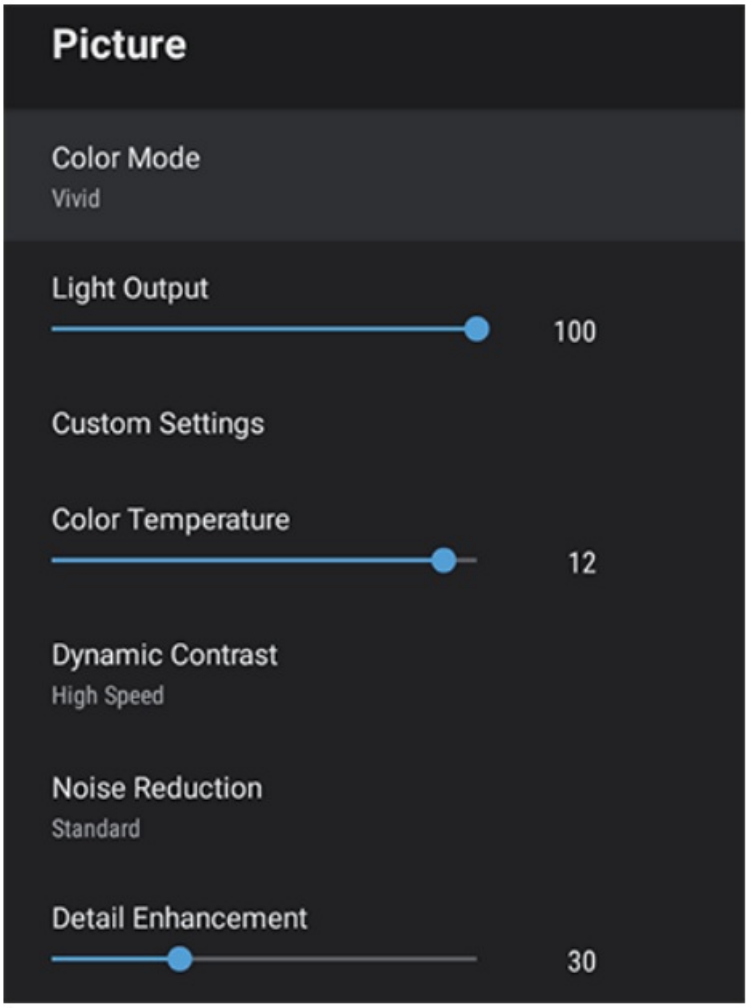
Available Image Aspect Ratios

Parent topic: Using Basic Projector Features

Changing the Image Aspect Ratio

You can change the aspect ratio of the displayed image to resize it.

1. Turn on the projector and switch to the image source you want to use.
2. Press the Settings button on the remote control.
3. Select the Picture menu and press Enter.



4. Select Aspect Ratio and press Enter.
5. Select the aspect ratio setting you want to use for your input signal and press Enter.
6. Press the Esc button to exit the menus.

Parent topic: Image Aspect Ratio

Related references

Image Quality Settings – Picture Menu

Available Image Aspect Ratios

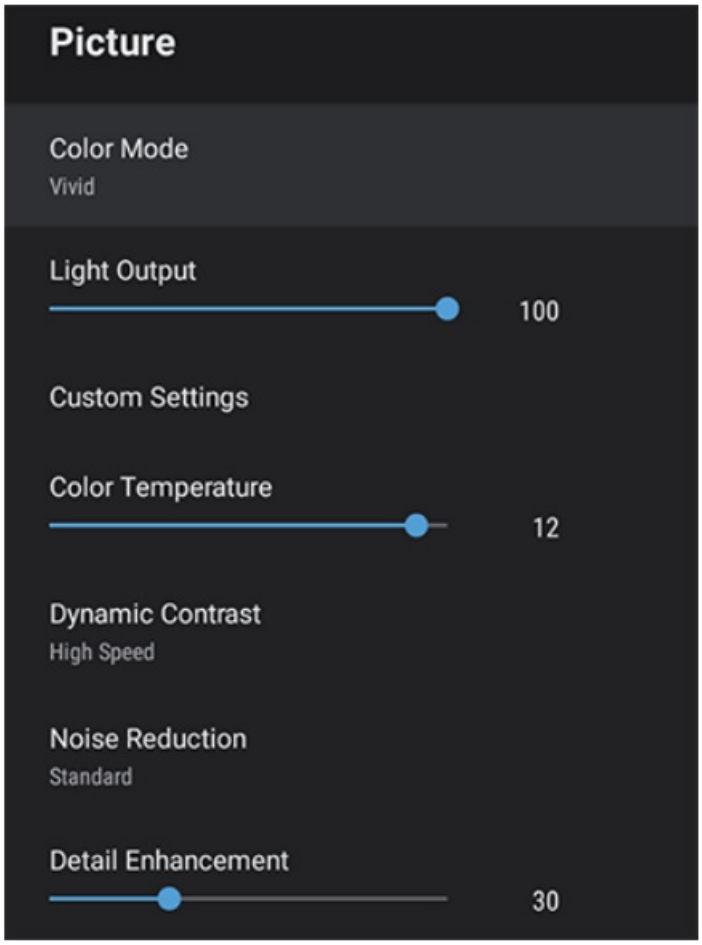
You can select the following image aspect ratio settings, depending on the input signal from your image source.

Note: You may see a light shadow around the screen or projected image. This is normal.
Note: Using the aspect ratio function 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 ratio setting	Description
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
Zoom	Displays images using the full width of the projection area a nd maintains the aspect ratio of the image.
Full	Displays images using the full width of the projection area, b ut does not maintain the aspect ratio.

Parent topic: Image Aspect Ratio
Color Mode
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 a mode designed to match your image and environment, or experiment with the available modes.
Changing the Color Mode
Available Color Modes
Turning On Automatic Luminance Adjustment
Parent topic: Using Basic Projector Features
Changing the Color Mode
You can change the projector's Color Mode to optimize the image for your viewing environment.

1. Turn on the projector and switch to the image source you want to use.
2. If you are projecting from a DVD player or other video source, insert a disc or other video media and press the play button, if necessary.
3. Press the Settings button on the remote control.
4. Select the Picture menu and press Enter.



5. Select Color Mode and press Enter.
6. Press the arrow buttons to select a color mode setting and press Enter.
7. When you are finished, press Esc.

Parent topic: Color Mode

Related references

Image Quality Settings – Picture Menu

Available Color Modes

You can set the projector to use these Color Modes, depending on the input source you are using:

Color Mode	Description
Dynamic	Best for video games in a bright room
Vivid	Best for enjoying content in a bright environment
Bright Cinema	Best for projecting vivid images
Cinema	Best for movies projected in a dark room with natural tone images
Natural	Best for adjusting the image color

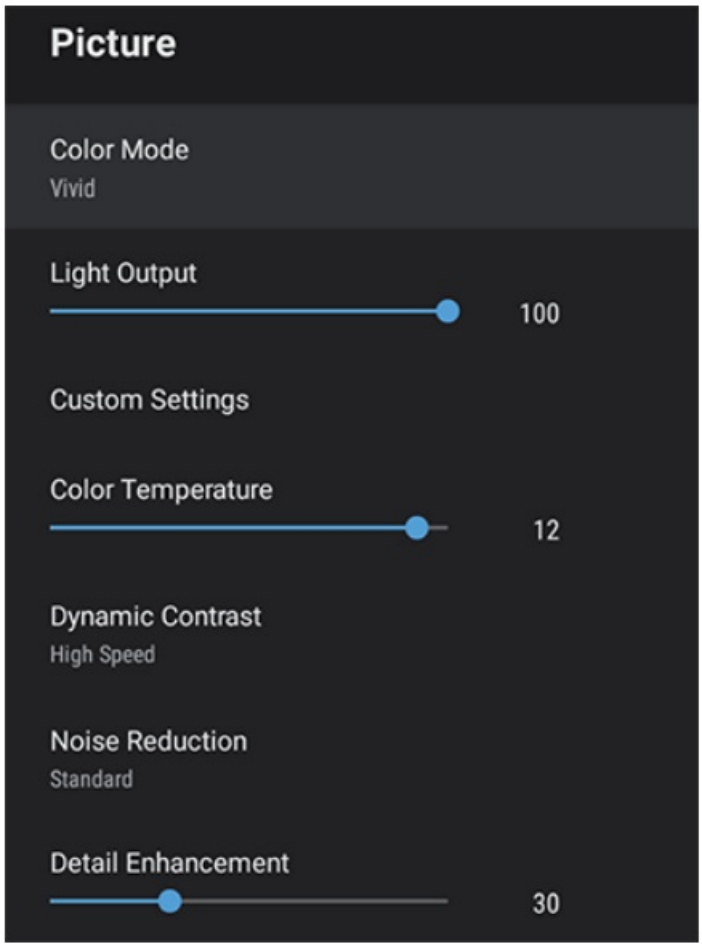
Parent topic: Color Mode

Turning On Automatic Luminance Adjustment

You can turn on the Dynamic Contrast setting 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 switch to the image source you want to use.

2. Press the Settings button on the remote control.
3. Select the Picture menu and press Enter.



4. Select the Dynamic Contrast setting and press Enter.
5. Select one of the following options and press Enter.
   - Normal to adjust brightness at the standard speed.
   - High Speed to adjust brightness as soon as the scene changes.
6. Press the Esc button to exit the menus.

Parent topic: Color Mode

Related references

Image Quality Settings – Picture Menu

Controlling the Volume with the Volume Buttons

You can use the Volume buttons on the projector or the remote control to adjust the volume of your projected content. The volume buttons control the projector's internal speaker system or any external speakers you connected to the projector.

You must adjust the volume separately for each connected input source.

Warning: Do not start playback at a high volume. Sudden loud noises may cause hearing loss. Always lower the volume before turning off the projector. Gradually increase the volume after turning the projector on.

1. Turn on the projector and start a presentation that includes audio.
2. To lower or raise the volume, press the volume buttons on the projector's control panel or remote control.

Parent topic: Using Basic Projector Features

Adjusting Projector Features

Follow the instructions in these sections to use your projector's feature adjustments.

Using the Projector as a Bluetooth Speaker

Operating Connected Devices Using the HDMI Link Features
Shutting Off the Picture Temporarily
Updating the Firmware
Resetting the Projector

Using the Projector as a Bluetooth Speaker

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

Note: Bluetooth audio devices are not supported in some countries and regions. You cannot connect multiple audio/video devices by Bluetooth at the same time. You may not be able to connect depending on type of device and its Bluetooth standards. Several attempts may be required before pairing is successful. Even when connecting within the specified communication distance, connections can be lost due to the signal status.

1. Press the Bluetooth Speaker mode button on the projector or remote control to turn on Bluetooth Speaker mode.

   You see a confirmation on the screen.
2. Enable the Bluetooth function on the device you want to connect to and select Projector from the available device list. See the documentation for the connected device for more information.

   Note: There is a delay in the audio output from any Bluetooth audio device. If you want to temporarily turn off the projected image, press the Blank button on the projector or remote control. To cancel a Bluetooth connection, disconnect from the connected device.
3. To exit Bluetooth Speaker mode, press the Bluetooth Speaker mode button again.

   You see a confirmation on the screen.

   Parent topic: Adjusting Projector Features

   Related references

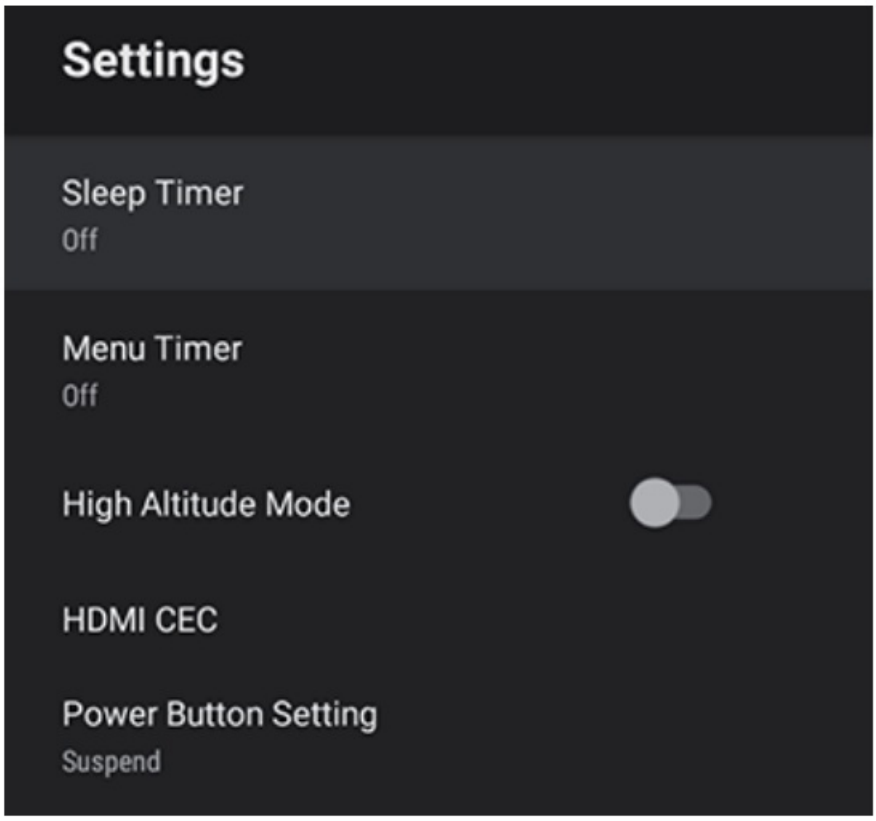
   Bluetooth Specifications

Operating Connected Devices Using the HDMI Link Features

You can use the remote control to control certain features of devices connected to the projector's HDMI ports.

Note: You must use an HDMI cable that supports the CEC standard and the connected device must also be configured. Some connected devices or functions of those devices may not operate properly even though they meet the HDMI CEC standard. See the documentation supplied with the device for more information.

1. Press the Settings button on the remote control.
2. Select the Settings menu and press Enter.



3. Select HDMI CEC and press Enter.
4. Select the HDMI CEC setting and press Enter to enable it, if necessary.
5. Select the following HDMI link options as necessary:

   • Device Auto Power Off: select whether to automatically turn off the connected device when you turn off the projector.

   • Auto Language Change: select whether to switch the language settings of the connected device to match the projector's language settings.

   • HDMI2 ARC: select whether to output audio to an HDMI ARC compatible audio/video system.
6. When you are finished, press Esc.

   Parent topic: Adjusting Projector Features

Shutting Off the Picture Temporarily

You can temporarily turn off the projected picture if you want to redirect your audience's attention during a presentation. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

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

   The light source turns off and projection is interrupted.
2. To turn the picture back on, press the Blank button again.

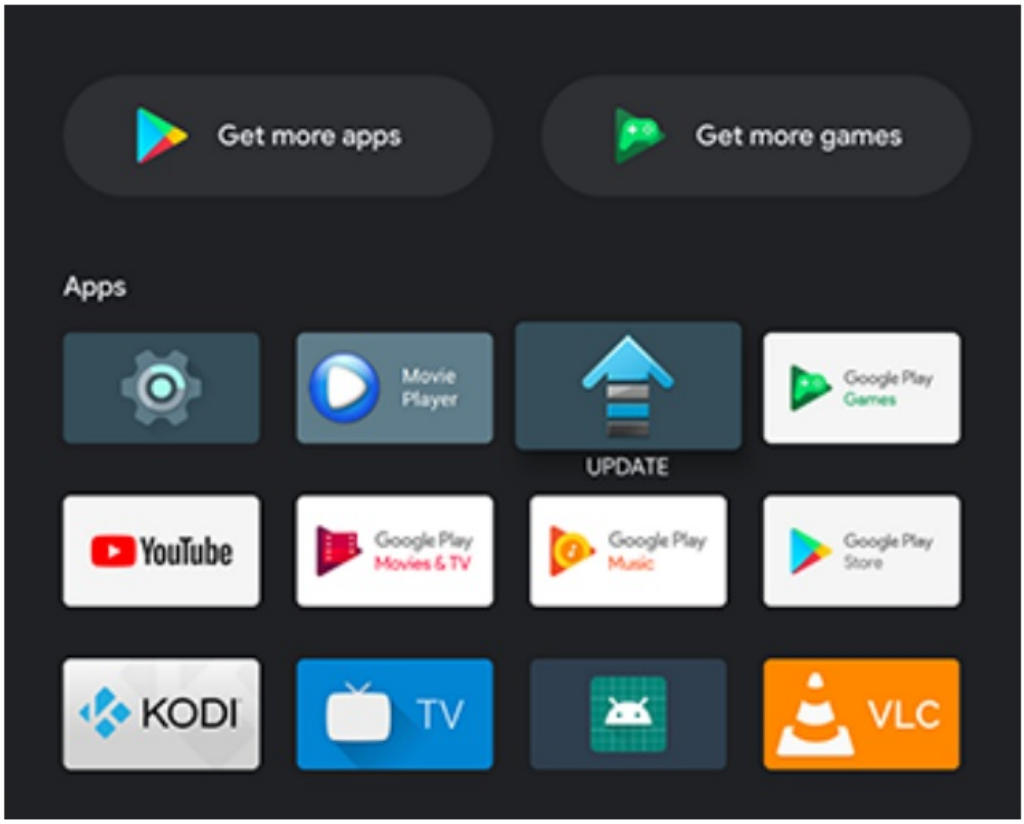
   Parent topic: Adjusting Projector Features

Updating the Firmware

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 Apps button on the remote control.

You see a menu like this:



2. Select UPDATE from the application list and press Enter.
3. Follow the on-screen instructions to update the firmware.

   Caution: Do not turn off the projector while updating the firmware.

   Parent topic: Adjusting Projector Features

Resetting the Projector

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

Note: Write down the settings you do not want to lose before resetting the projector. When you reset the projector, all information, including installed apps, Google account login information, and Projector Settings, is deleted.

1. Press the button on the remote control.
2. Select the icon at the top right of the Android TV Home screen and press Enter.
3. Select Device Preferences and press Enter.
4. Select Reset and press Enter.

   A confirmation screen is displayed.
5. Select Reset and press Enter to reset the projector.

   Parent topic: Adjusting Projector Features

Adjusting the Menu Settings

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

Using the Projector's Menus

Image Quality Settings – Picture Menu

Sound Quality Settings – Sound Menu

Projector Feature Settings – Display Menu

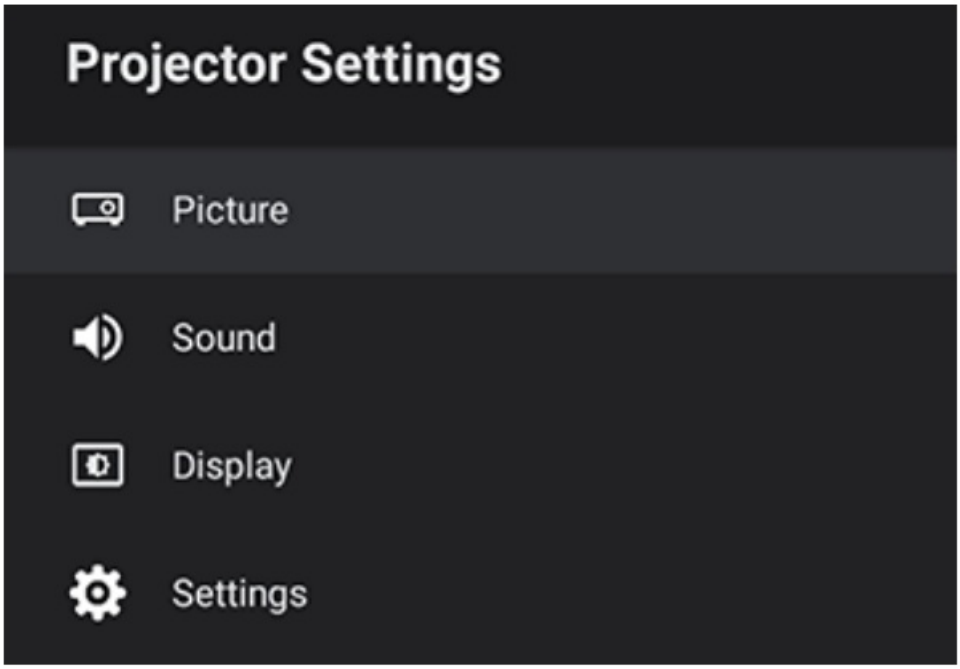
Projector Feature Settings – Settings Menu

Using the Projector's Menus

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 Settings button on the remote control.

   You see the Projector Settings menu.

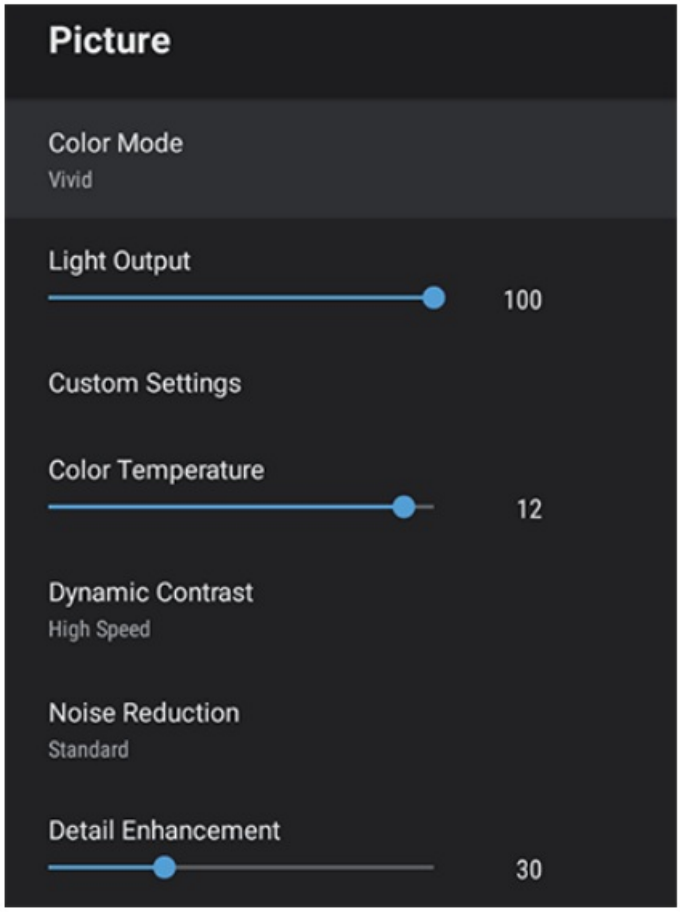


2. Press the up or down arrow button on the remote control to move through the menu selections.
3. To change settings in the displayed menu, press Enter.
4. Use the arrow and Enter buttons to adjust the menu settings as desired.
5. When you finish changing settings on a menu, press Esc to exit the menus.

   Parent topic: Adjusting the Menu Settings

Image Quality Settings – Picture Menu

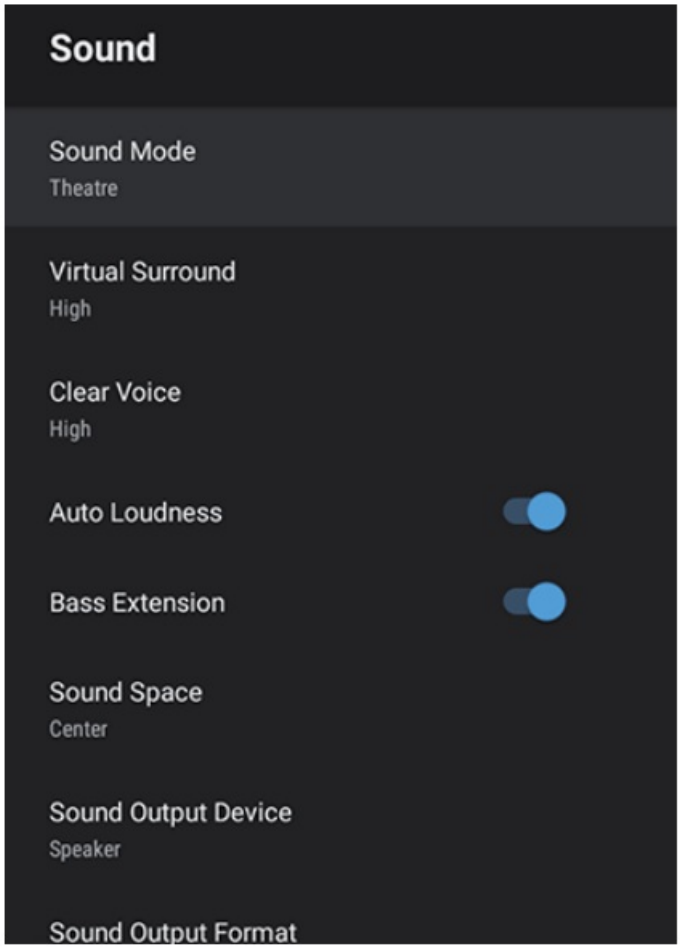
Settings on the Picture menu let you adjust the quality of your image for the input source you are currently using.


Picture
Color Mode
Vivid
Light Output
100
Custom Settings
Color Temperature
12
Dynamic Contrast
High Speed
Noise Reduction
Standard
Detail Enhancement
30

Setting	Options	Description
Color Mode	See the list of available Color Modes	Adjusts the vividness of image colors for various image types and environments
Light Output	Varying levels available	Sets the brightness for the light source for each Color Mode
Custom Settings	Brightness Contrast Saturation Tint Sharpness	Brightness: Lightens or darkens the overall image Contrast: Adjusts the difference between light and dark areas of the image Saturation: Adjusts the intensity of the image colors Tint: Adjusts the balance of green to magenta tones in the image Sharpness: Adjusts the sharpness or softness of image details
Color Temperature	Varying levels available	Sets the color temperature according to the selected color mode; lower values tint the image red, and higher values tint the image blue
Dynamic Contrast	Off Normal High Speed	Adjusts the projected luminance based on the image brightness when certain Color Modes are selected
Noise Reduction	Strong Standard Weak Off	Reduces flickering in analog images
Detail Enhancement	Varying levels available	Creates a more textured image
Aspect Ratio	Normal Full Zoom	Sets the aspect ratio for the selected input source
HDMI Video Range	Auto Full Limited	Sets the video range to match the setting of the device connected to the HDMI input port

Sound Quality Settings – Sound Menu

Settings on the Sound menu allow you to optimize the audio for a variety of projected content. You can select from presets or experiment with available modes.


Sound
Sound Mode
Theatre
Virtual Surround
High
Clear Voice
High
Auto Loudness
Bass Extension
Sound Space
Center
Sound Output Device
Speaker
Sound Output Format

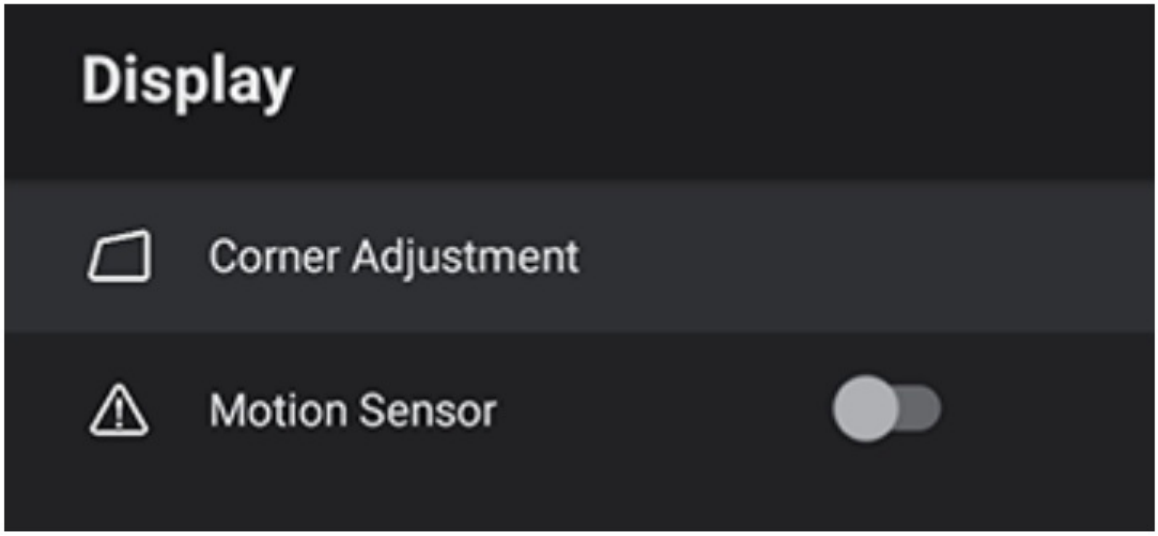
Setting	Options	Description
Sound Mode	Theatre TV Studio Stadium Concert Karaoke Mode	Sets a sound mode for the type of playback content (music, movie, etc.)
Virtual Surround	High Low Off	Adjusts the strength of the surround effect. T his setting is saved for each Sound Mode
Clear Voice	High Low Off	Adjusts output so that voices can be heard c learly. This setting is saved for each Sound Mode
Auto Loudness	On Off	Automatically corrects the balance between high and low tones in the audio so that they are not out of balance, even when playing at low volume
Bass Extension	On Off	Emphasizes the bass levels in the audio out put
Sound Space	Right Center Left	Adjusts the sound quality to suit your viewin g position
Sound Output Device	Speaker ARC	Selects the sound output device Speaker: Outputs sound from the projector's speakers ARC: Outputs sound from an ARC- compati ble AV system. Make sure to connect the AV system to the projector's HDMI2 (ARC) port.

Setting	Options	Description
Sound Output Format	PCM Auto	Selects the sound output format when you o utput audio to an external audio device PCM: Outputs sound in PCM format (2- cha nnel) Auto: Outputs higher quality sound. The follo wing codecs are supported: • 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 setting is only av ailable 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

Parent topic: Adjusting the Menu Settings

Projector Feature Settings – Display Menu

Settings on the Display menu let you customize the image projection.

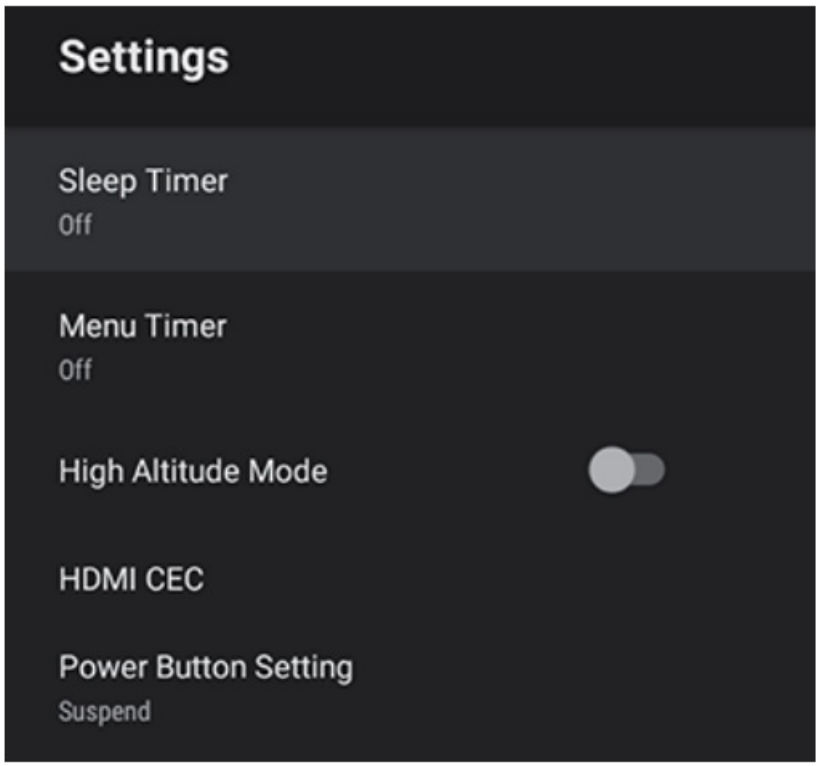


Setting	Options	Description
Corner Adjustment	—	Corrects image shape and alignment using an on-scr een display
Motion Sensor	On Off	Automatically reduces the brightness of the light sour ce for safety when someone comes close to the proje ctor window while projecting

Parent topic: Adjusting the Menu Settings

Projector Feature Settings – Settings Menu

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



Setting	Options	Description
Sleep Timer	0 to 120 minutes	Sets the interval before the projector automatically t urns off
Menu Timer	0 to 240 seconds	Sets the interval before automatically closing the pr ojector’s menu
High Altitude Mode	On Off	Regulates the projector’s operating temperature at altitudes above 4921 feet (1500 m)
HDMI CEC	HDMI CEC Device Auto Power Off Auto Language Change HDMI2 ARC	Adjusts the HDMI CEC options that allow the project or remote to control HDMI-connected devices that s upport the CEC standard HDMI CEC: allows for cont rol of the connected device using the projector’s re mote control. If this setting is On, the projector auto matically turns on when the device is turned on or pl ayback is started on the device Device Auto Power Off: autom atically turns off the connected device when you turn off the projector Au to Language Change: automatically switches the language settings of the connected device according to the projector’s language setting HDMI2 ARC: enables HDMI ARC on the HDMI2 (ARC) port
Reset Projector Settings	—	Resets the projector’s menu settings to their factory defaults
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 s tandby mode but takes longer to start the projector

Parent topic: Adjusting the Menu Settings

Maintaining and Transporting the Projector

Follow the instructions in these sections to maintain your projector and transport it from place to place.
Projector Maintenance
Air Filter and Vent Maintenance
Replacing the Remote Control Batteries
Transporting the Projector

Projector Maintenance

Your projector needs little maintenance to keep working at its best.
You may need to clean the lens 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.
This projector uses a sealed laser light source which does not need servicing and cannot be replaced.
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.
Warning: Do not try to service this product yourself, except as specifically explained in this manual. Refer all other servicing to qualified servicers.
Cleaning the Projection Window

Cleaning the Obstacle and Motion Sensors
Cleaning the Projector Case
Parent topic: Maintaining and Transporting the Projector

Cleaning the Projection Window

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 lens-cleaning paper.
- To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the projection window.

Warning: Do not use a lens cleaner that contains flammable gas. The high heat generated by the projector may cause a fire.

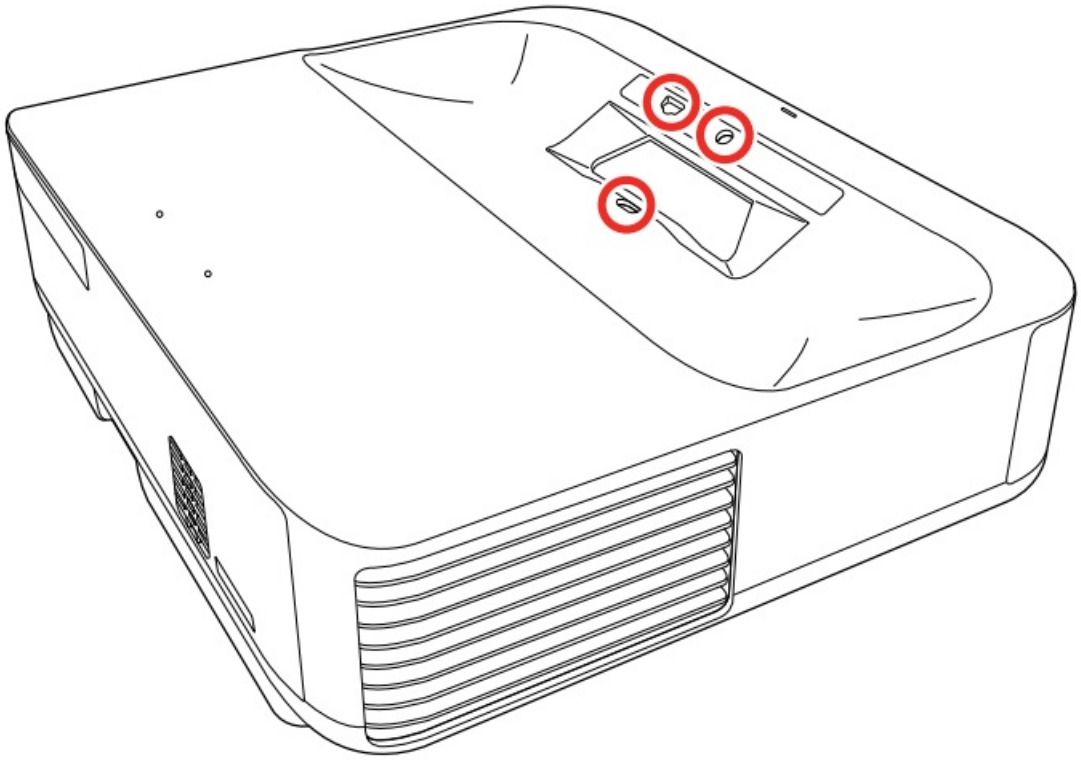
Caution: Do not use canned air, or the gases may leave a flammable residue. Do not use glass cleaner or any harsh materials to clean the projection window and do not subject the projection window to any impacts or you may damage it.

Parent topic: Projector Maintenance Related tasks

Turning Off the Projector

Cleaning the Obstacle and Motion Sensors

Clean the projector's obstacle and motion sensors glass (circled in red) 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 obstacle sensor glass with lens-cleaning paper.
- To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the obstacle sensor glass.

  Warning: Do not use a lens cleaner that contains flammable gas. The high heat generated by the projector may cause a fire.

  Caution: Do not use canned air, or the gases may leave a flammable residue.

  Caution: Do not use glass cleaner or any harsh materials to clean the obstacle and motion sensors and do not subject them to any impacts. Damage on the surface of the sensors may cause malfunction.

  Parent topic: Projector Maintenance

Cleaning the Projector Case
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.

  Caution: Do not use wax, alcohol, benzine, 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.

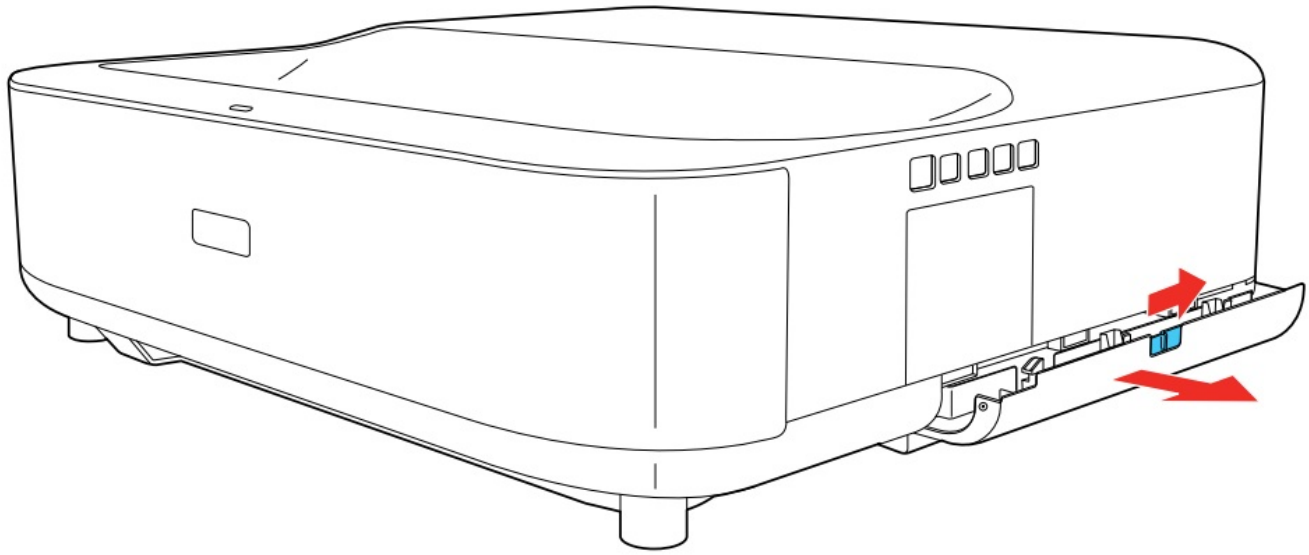
  Parent topic: Projector Maintenance

  Related tasks

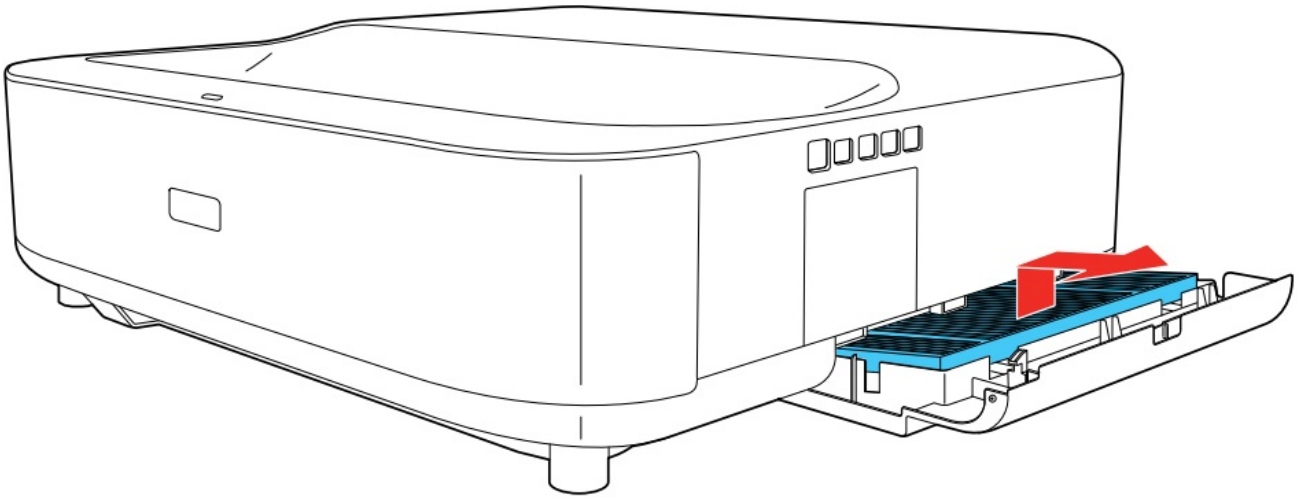
  Turning Off the Projector

Air Filter and Vent Maintenance
Regular filter maintenance is important to maintaining your projector. Your Epson projector is designed with an easily accessible, user-replaceable filter to protect your projector and make regular maintenance simple. Filter maintenance intervals will depend on the environment. 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 or laser.
Damage due to the failure to properly maintain the projector or its filter may not be covered by the projector's Limited Warranty.
Cleaning the Air Filter and Vents
Replacing the Air Filter
Parent topic: Maintaining and Transporting the Projector
Cleaning the Air Filter and Vents
Clean the projector's air filter or vents if they get dusty, or if you see a message telling you to clean them.
It is recommended that you clean these parts at least once every three months, or more often if you use the projector in an environment that is dustier than expected.
Caution: Do not use water or any detergent to clean the air filter. Do not use canned air, or the gases may leave a flammable residue.

1. Turn off the projector and unplug the power cord.
2. Slide the air filter cover latch and open the air filter cover.



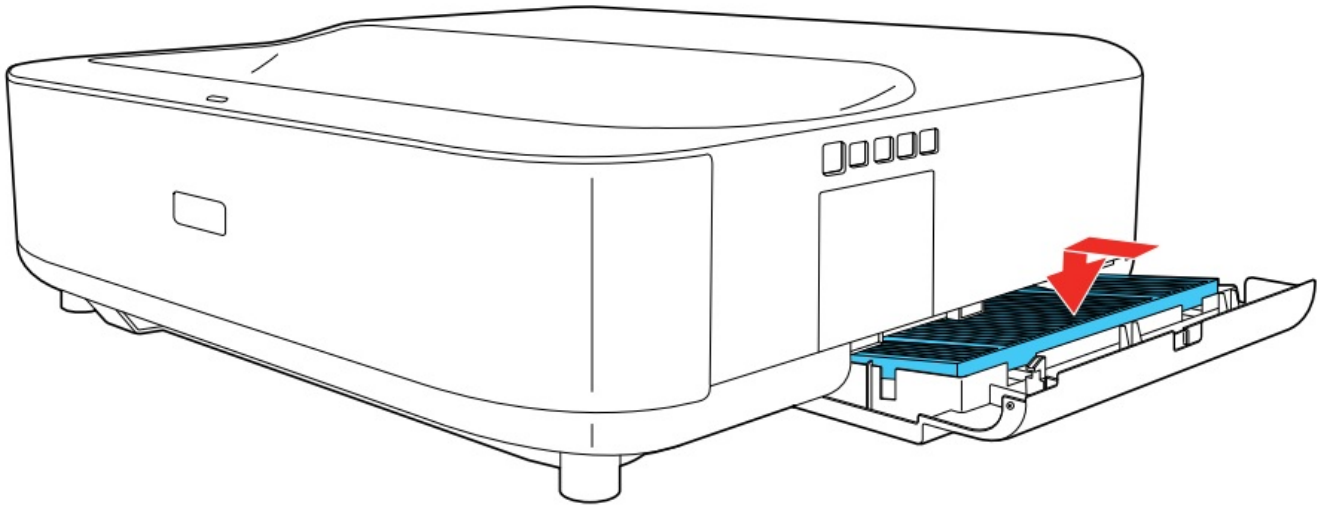
3. Pull the air filter out of the projector.



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

   Caution: 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.

   Note: If dust is difficult to remove or the air filter is damaged, replace the air filter.
5. Place the air filter back in the projector with the four tabs facing down as shown.



6. Close the air filter cover until it clicks into place.

   Caution: Do not try to force the air filter cover closed if the tabs of the air filter are facing up. You could damage the projector.

   Parent topic: Air Filter and Vent Maintenance

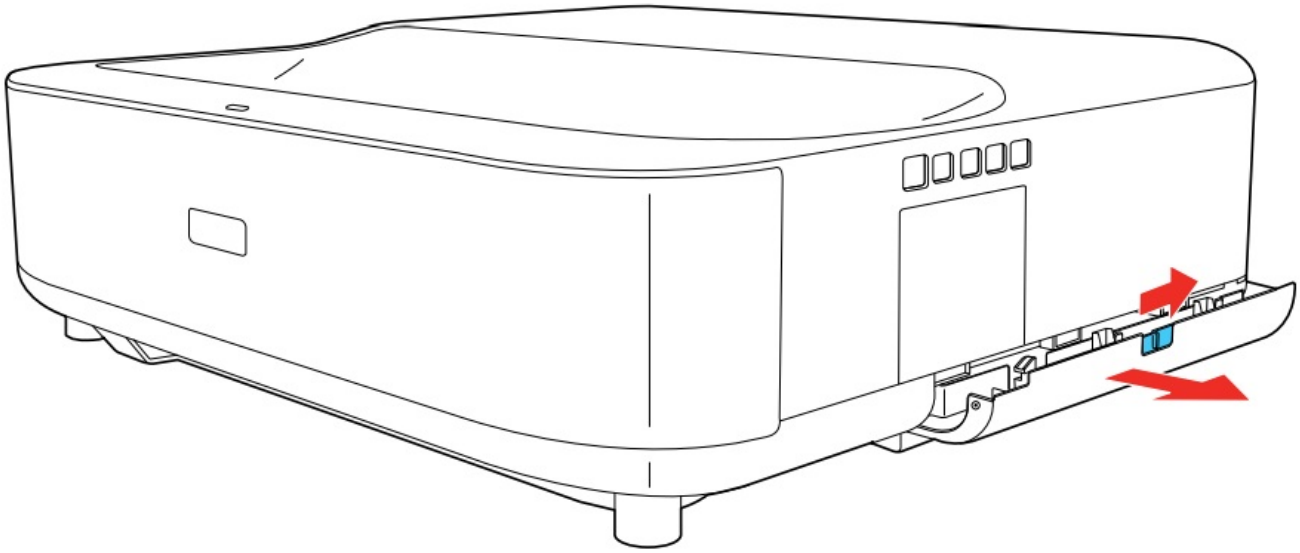
Related references
Optional Equipment and Replacement Parts
Related tasks
Turning Off the Projector
Replacing the Air Filter
You need to replace the air filter in the following situations:

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

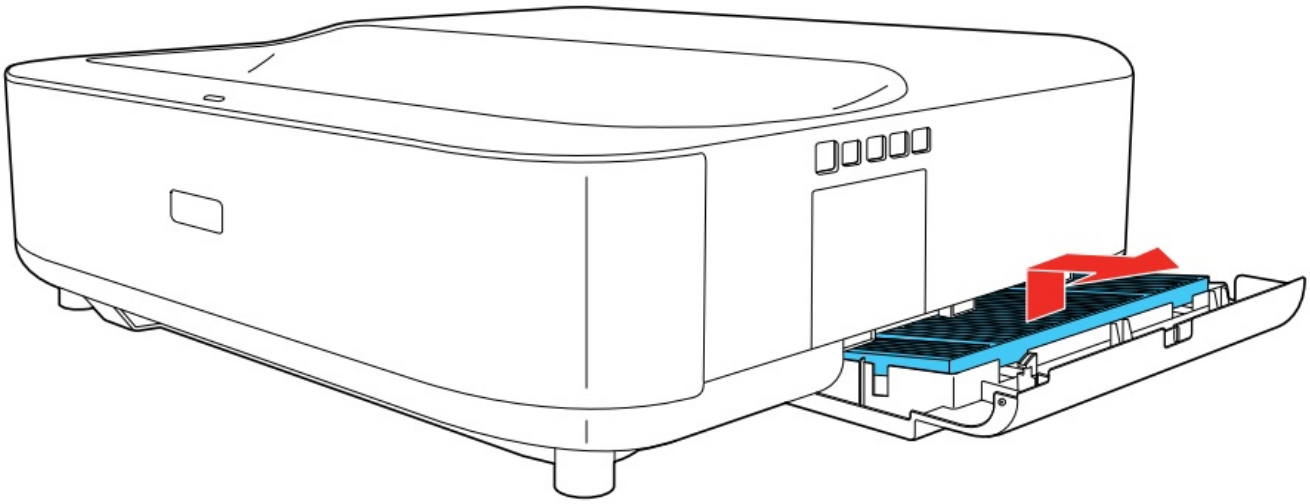
  You can replace the air filter while the projector is placed on a table.

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

2. Slide the air filter cover latch and open the air filter cover.

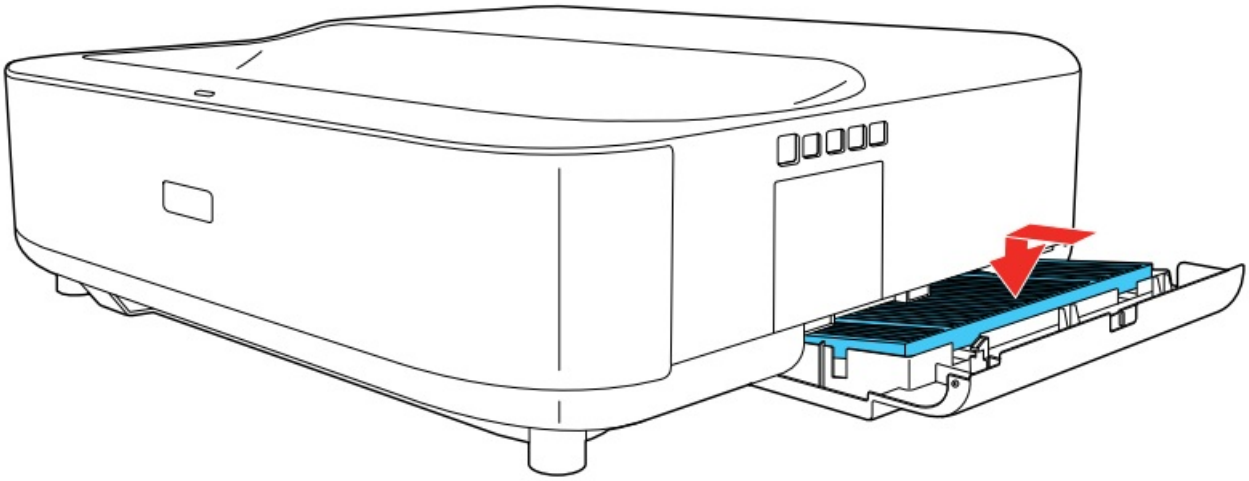


3. Pull the air filter out of the **projector.**



Note: Air filters contain polypropylene. Dispose of used air filters according to local regulations.

4. Place the new air filter in the projector as shown (with the four tabs facing down).



5. Close the air filter cover and press until it clicks into place.

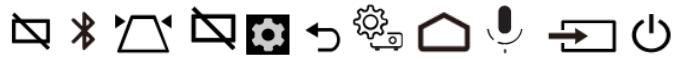
Caution: Do not try to force the air filter cover closed if the tabs of the air filter are facing up. You could damage the projector.

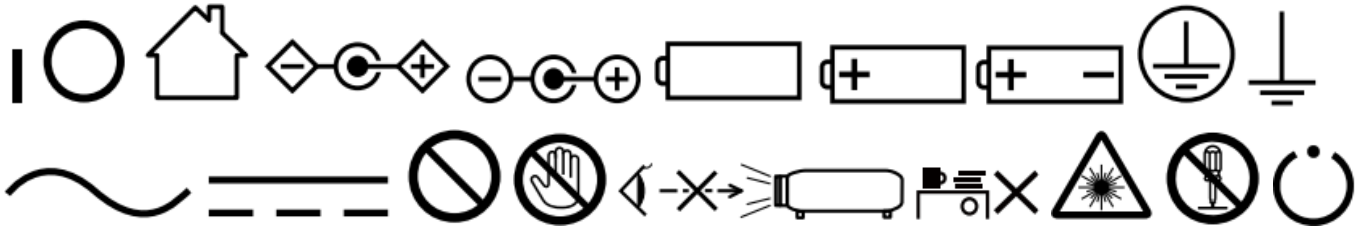
Parent topic: Air Filter and Vent Maintenance

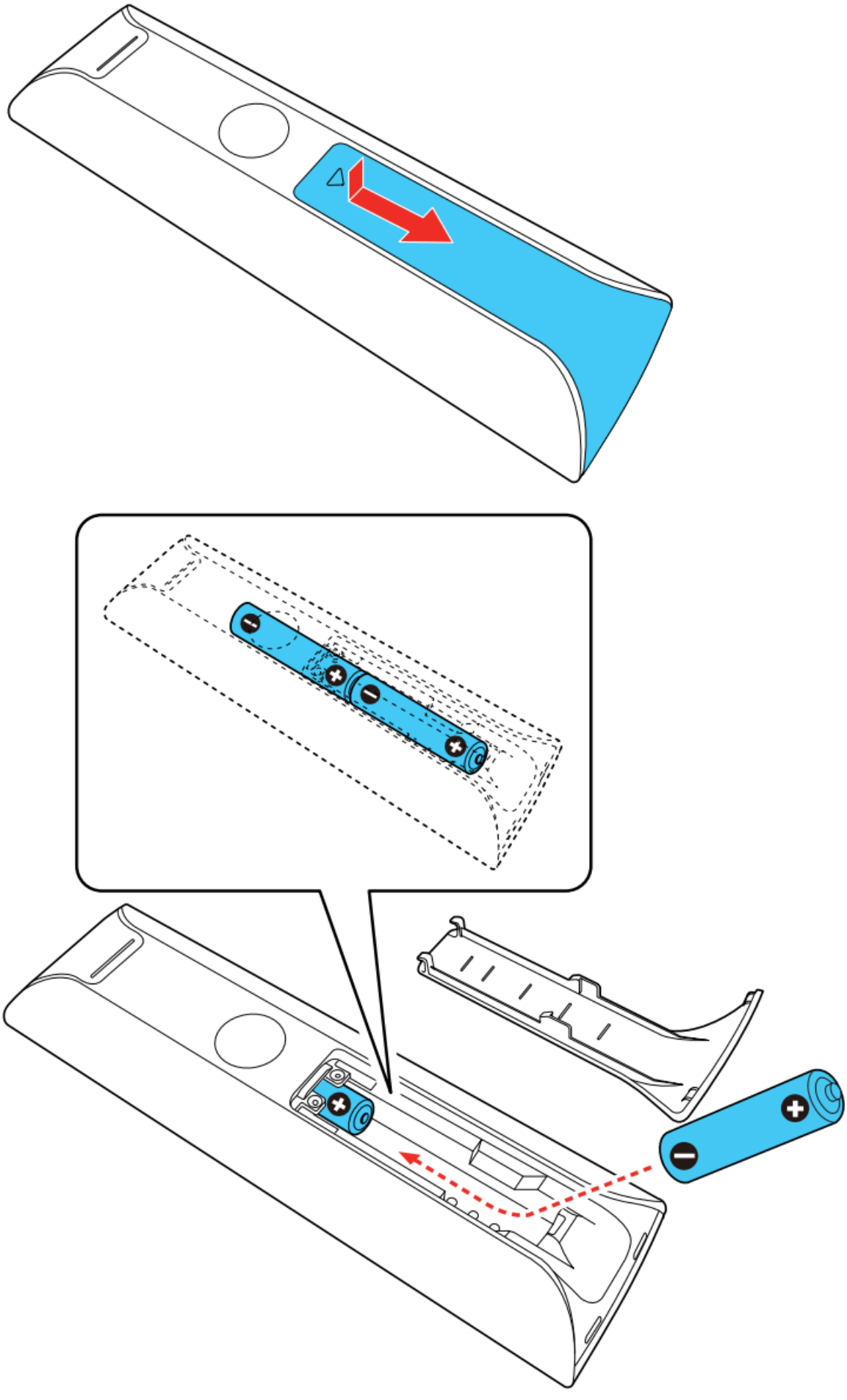
Related references

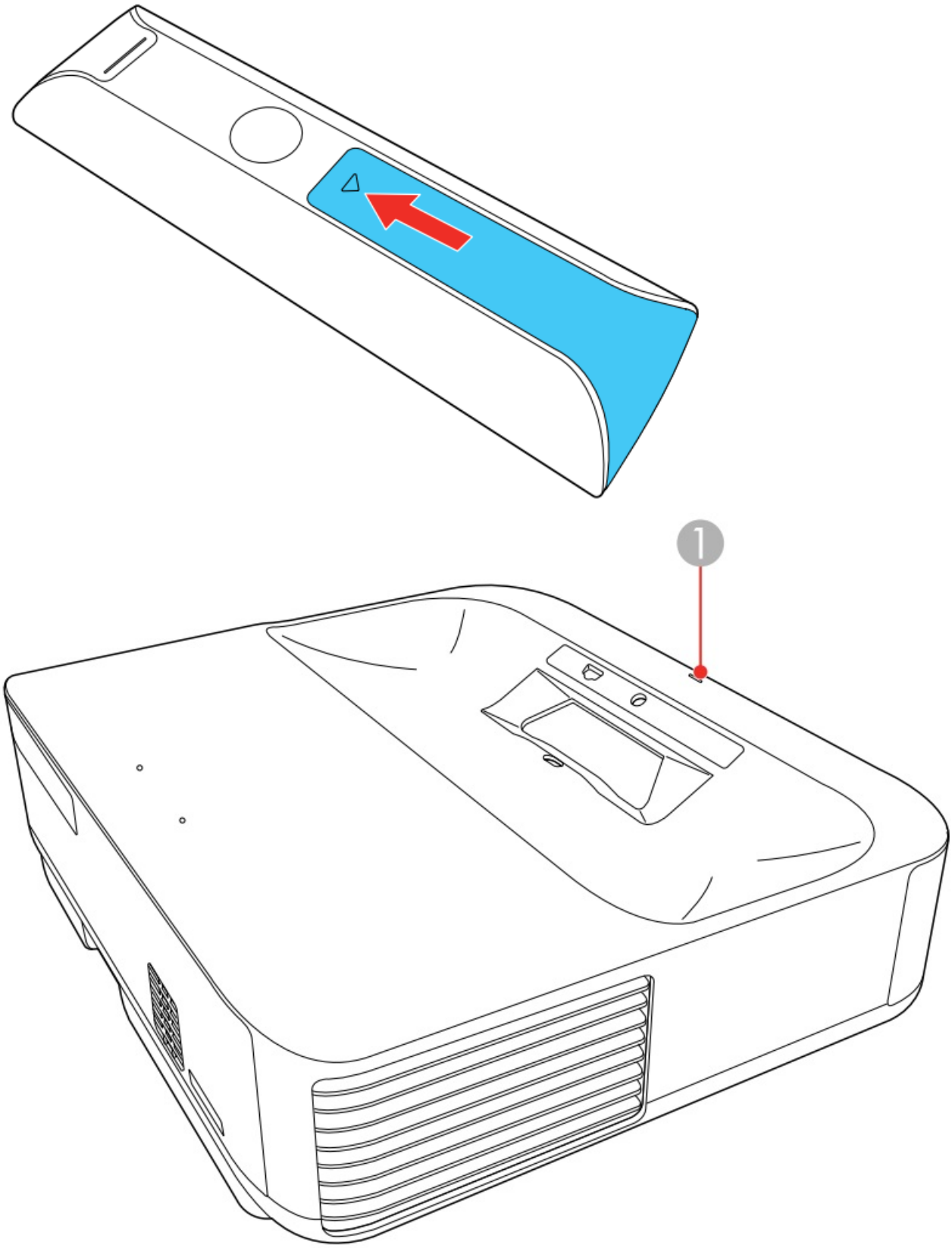
Optional Equipment and Replacement Parts

Replacing the Remote Control Batteries
The remote control uses two AAA manganese or alkaline batteries. Replace the batteries as soon as they run out.
Caution: Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.





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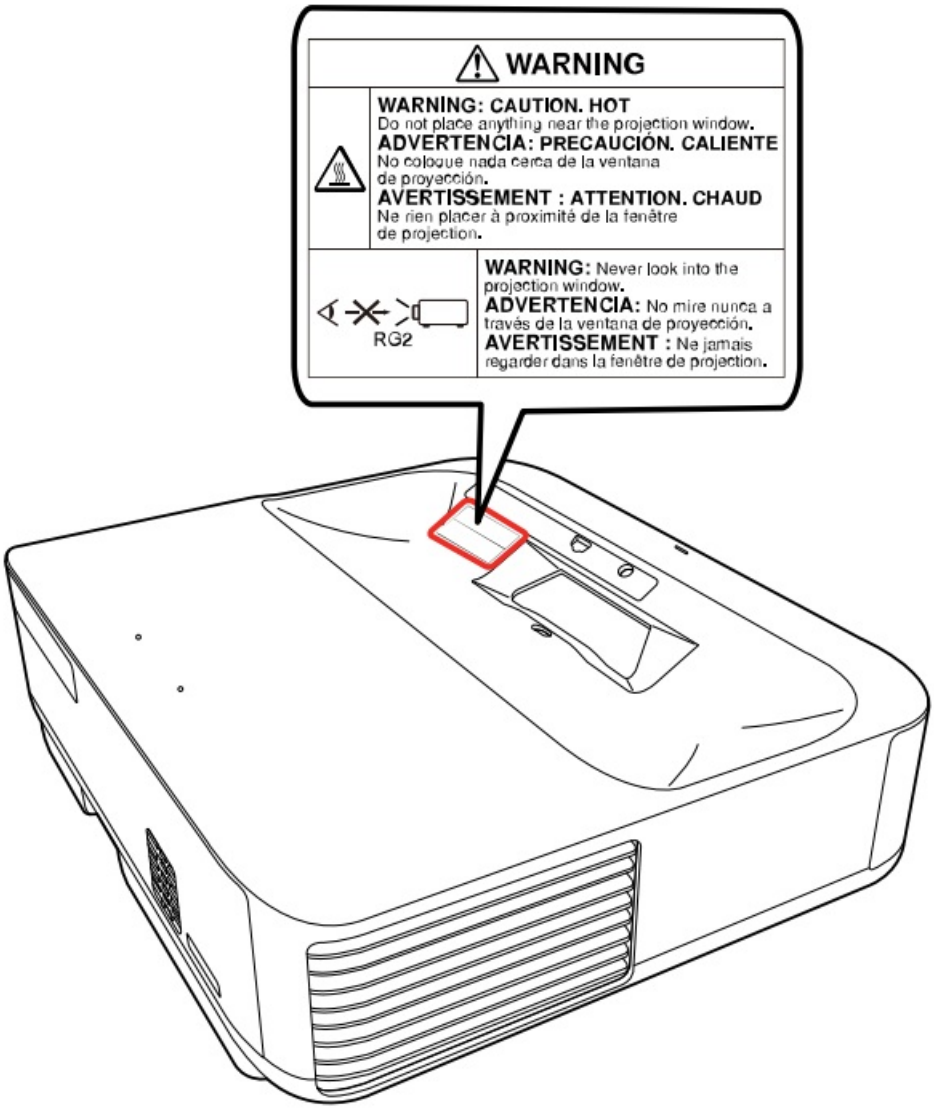
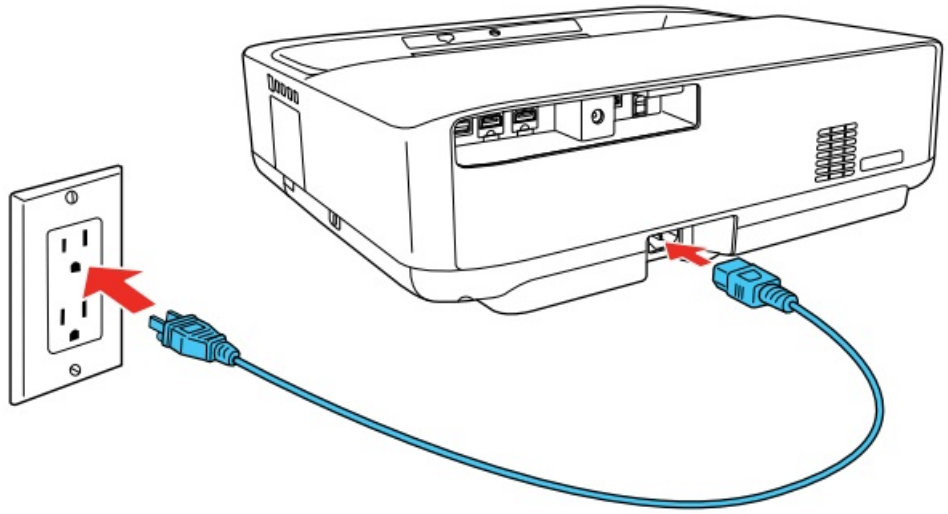
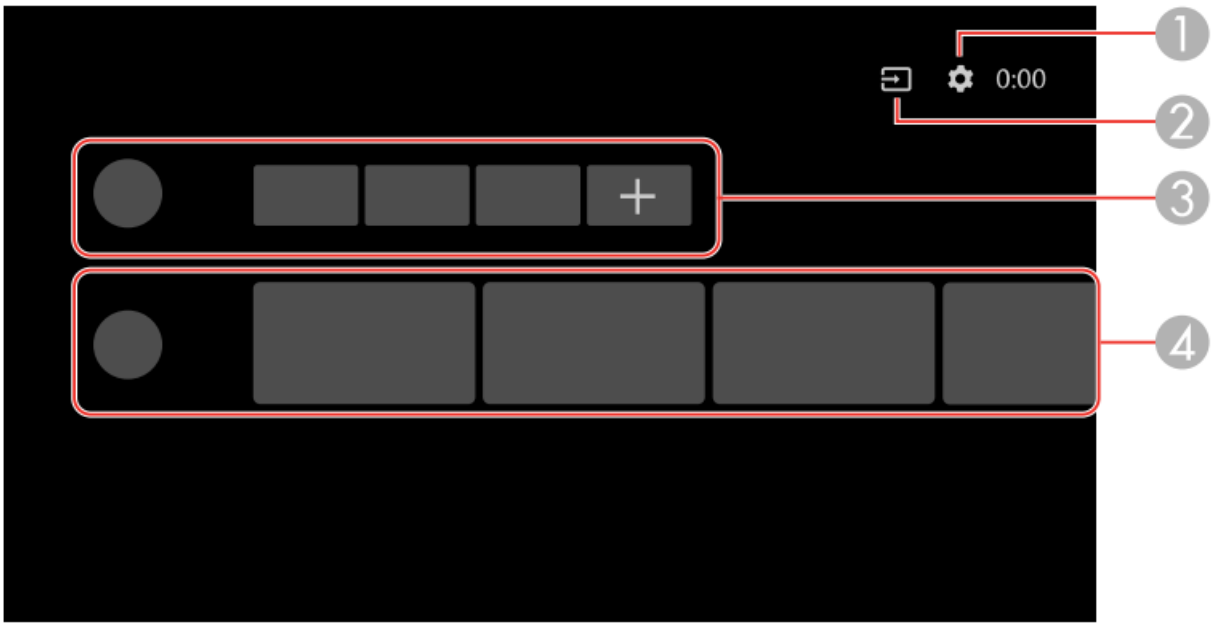
⚠ CAUTION / DANGER

CAUTION/DANGER: CLASS 4 LASER RADIATION WHEN OPEN. AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION.
ATTENTION/DANGER : EN CAS D'OUVERTURE RAYONNEMENT LASER DE CLASSE 4. ÉVITER L'EXPOSITION DES YEUX OU DE LA PEAU AUX RAYONNEMENTS DIRECTS OU DIFFUÉS.
PRECAUCIÓN/PELIGRO: RADIACIÓN LÁSER DE CLASE 4 CUANDO ESTÁ ABIERTO. EVITAR LA EXPOSICIÓN DE OJOS O PIEL A LA RADIACIÓN DIRECTA O DISPERSA.
ACHTUNG/GEFAHR: LASERSTRAHLUNG KLASSE 4 WENN GEÖFFNET. BESTRAHLUNG VON AUGE ODER HAUT DURCH DIREKTE ODER STREUSTRAHLUNG VERMEIDEN.
注意 / 危险 : 打开时有 4 类激光辐射。避免眼或皮肤受到直射或散射辐射的照射。
注意 / 危險 : 打開時具有第 4 級 (CLASS 4) 雷射。避免眼睛或皮膚暴露於直射或散射的輻射。
주의/위험: 개방시 4 등급 레이저 제품. 직접 혹은 분사 방사에 대한 눈 또는 피부 노출을 피하시오.
注意 / 危険 : ここを開くとクラス 4 のレーザ放射が出る。ビームや散乱光の目又は皮膚への被ばくを避けること。



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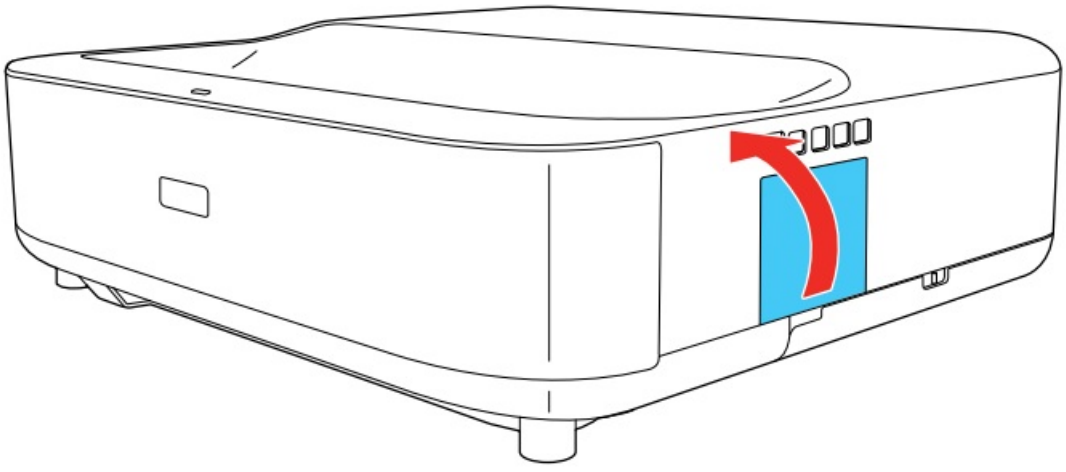

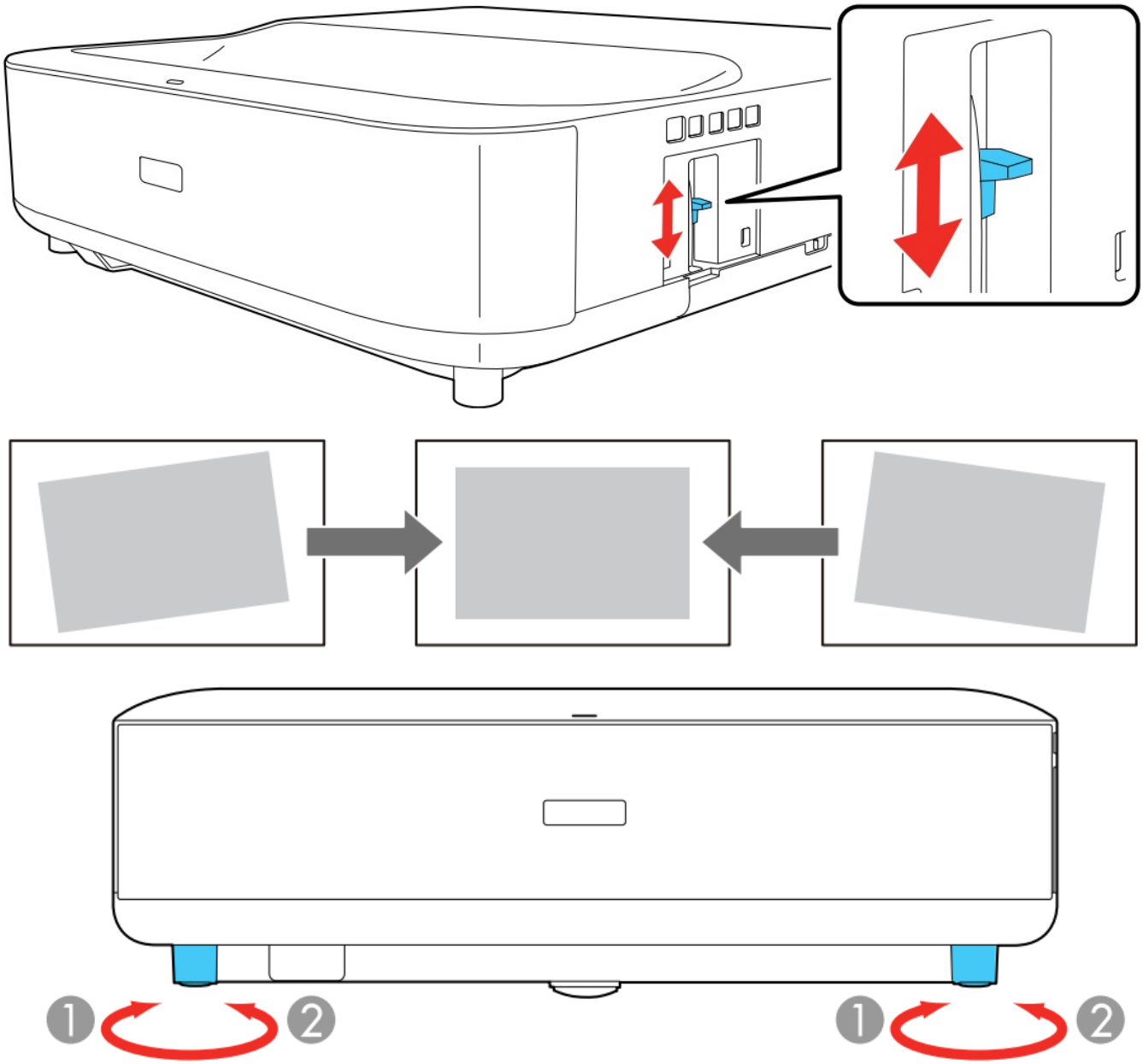

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Documents / Resources

	EPSON LS300WATV 3LCD Smart Laser Projector [pdf] User Guide LS300BATV, LS300WATV, LS300WATV 3LCD Smart Laser Projector, LS300WATV, 3LCD Smart Laser Projector, Smart Laser Projector, Laser Projector, Projector

References

- User Manual

Manuals+,