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PROJECTOR OWNER'S MANUAL

Epson
EH-QL7000B

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EPSON®

EH-QL3000W/EH-QL3000B/EH-QL7000W/EH-QL7000B User's Guide

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EH-QL3000W/EH-QL3000B/EH-QL7000W/EH-QL7000B User's Guide

Welcome to the EH-QL3000W/EH-QL3000B/EH-QL7000W/EH-QL7000B *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

Your projector includes these special features:

Bright, high-resolution projection system

- Laser light source with up to 6000 lumens (EH-QL3000W/EH-QL3000B) or 10000 lumens (EH-QL7000W/EH-QL7000B) of equal 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.

- 4K technology for beautiful, high-definition images
- Dynamic Tone Mapping optimizes HDR brightness and contrast
- Auto Low Latency Mode (ALLM) for smoother and more responsive gaming
- Scene Adaptive Gamma, Image Enhancement, and Frame Interpolation features
- 3-chip 3LCD technology provides brighter colors and uncompromising image quality
- Projection on curved or corner surfaces and any wall or screen

Innovative design and operation features

- Multi-faceted case design can be customized for seamless integration in any home environment
- Supports a wide variety of interchangeable lenses

Flexible connectivity

- Two HDMI ports for video device or computer connections

- HDMI 2.1 support for full audio and video signal bandwidth and Enhanced Audio Return Channel (eARC) for uncompressed audio
- Support for Control4 and Crestron Connected network monitoring systems

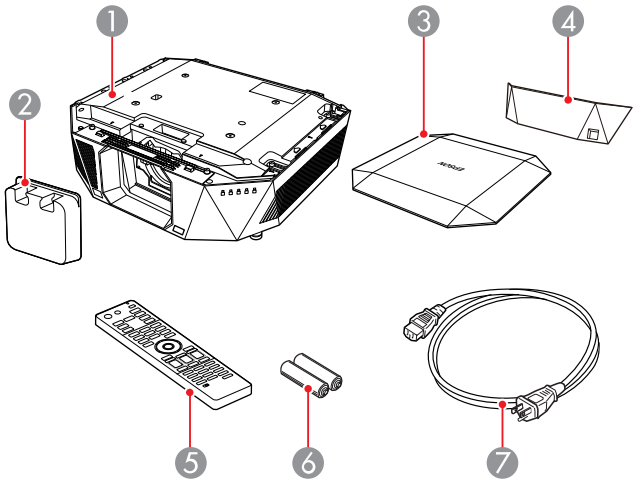
Product Box Contents
Additional Components
Optional Equipment and Replacement Parts
Warranty and Registration Information (U.S. and Canada)
Warranty and Registration Information (Latin America)

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 product box includes all of these parts:



1 Projector
2 Lens cover
3 Vanity board

4 Cable cover

5 Remote control

6 Remote control batteries (two AA alkaline)

7 Power cord

Parent topic: Projector Features

Related tasks

Attaching and Removing the Vanity Board

Attaching and Removing the Cable Cover

Additional Components

Depending on how you plan to use the projector, you may need to obtain additional components.

Note: To connect a Mac 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. Contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter 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.

Signal or connection type	Additional component necessary
HDMI	Compatible HDMI cable or HDMI 2.1 certified cable (ultra high-speed) Available for purchase from Epson or an authorized Epson reseller.
HDBaseT	Compatible 100Base-TX LAN cable
Audio from certain ports	Commercially available audio cable compatible with your device
External audio	Speakers, an audio video receiver, or a video source with speaker connections, and the cables necessary for connecting them to the projector
USB	Compatible USB cable
Controlling the projector from a computer	Mini D-Sub 9-pin (male) connector

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 optional accessories and replacement parts from an Epson authorized reseller. To find the nearest reseller, go to latin.epson.com. Or you can contact your nearest sales office as described in "Where to Get Help."

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
Air filter (ELPAF46)	V13H134A46
Adjustable ceiling mount (ELPMB67)	V12HA54010
Suspension adapter (ELPFP15)	V12HA55010
Vanity board - champagne gold (ELPVB05)	V12H003AK0
Ultra short-throw lens (ELPLX02S)	V12H004X0B
Ultra short-throw lens (ELPLX02WS)	V12H004Y0B
Short-throw lens housing - white (ELPVB02W)	V12H003AL0
Short-throw lens housing - black (ELPVB03B)	V12H003AM0
Short-throw lens housing - champagne gold (ELPVB04C)	V12H003AN0
Short-throw #1 zoom lens (ELPLU03S)	V12H004UA3
Short-throw #2 zoom lens (ELPLU04)	V12H004U04
Wide-throw #1 zoom lens (ELPLW05)	V12H004W05
Wide-throw #2 zoom lens (ELPLW06)	V12H004W06
Wide-throw #3 zoom lens (ELPLW08)	V12H004W08

Option or part	Part number
Middle-throw zoom lens #1 (ELPLM08)	V12H004M08
Middle-throw zoom lens #2 (ELPLM15)	V12H004M0F
Middle-throw zoom lens #3 (ELPLM10)	V12H004M0A
Middle-throw zoom lens #4 (ELPLM11)	V12H004M0B
Long-throw zoom lens (ELPLL08)	V12H004L08

For the most recent list of accessories, visit the Epson web site and search for your product.

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

Latin America:

Option or part	Part number
Air filter (ELPAF46)	V13H134A46
Vanity board - champagne gold (ELPVB05)	V12H003AK0
Ultra short-throw lens (ELPLX02S)	V12H004X0B
Ultra short-throw lens (ELPLX02WS)	V12H004Y0B
Short-throw lens housing - white (ELPVB02W)	V12H003AL0
Short-throw lens housing - black (ELPVB03B)	V12H003AM0
Short-throw lens housing - champagne gold (ELPVB04C)	V12H003AN0
Short-throw #1 zoom lens (ELPLU03S)	V12H004UA3
Short-throw #2 zoom lens (ELPLU04)	V12H004U04
Wide-throw #1 zoom lens (ELPLW05)	V12H004W05
Wide-throw #2 zoom lens (ELPLW06)	V12H004W06
Wide-throw #3 zoom lens (ELPLW08)	V12H004W08
Middle-throw zoom lens #1 (ELPLM08)	V12H004M08
Middle-throw zoom lens #2 (ELPLM15)	V12H004M0F
Middle-throw zoom lens #3 (ELPLM10)	V12H004M0A
Middle-throw zoom lens #4 (ELPLM11)	V12H004M0B

Option or part	Part number
Long-throw zoom lens (ELPLL08)	V12H004L08

For the most recent list of accessories, visit the Epson web site and search for your product.

Parent topic: Projector Features

Related references

Where to Get Help (U.S. and Canada)

Where to Get Help (Latin America)

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 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/registro

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:

- epson.com/support (U.S.), epson.ca/support (Canada), or latin.epson.com/support (Latin America)

  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

Related references

Where to Get Help (U.S. and Canada)
Where to Get Help (Latin America)

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
Epson iProjection (Windows/Mac)	*Epson iProjection Operation Guide (Windows/Mac)*	Lets you project the computer screens of users over a network. You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.), epson.ca/support (Canada), or latin.epson.com/support (Latin America) and select your projector.

Projector software	Manual	Description
Epson iProjection app	Instructions are included with the app	Lets you project from an iOS or Android device if your projector is connected to a network that includes a wireless access point. Visit epson.com/support (U.S.), epson.ca/support (Canada), or latin.epson.com/support (Latin America) for more information.
—	*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 (Latin America) and select your projector.
Epson Projector Content Manager	*Epson Projector Content Manager Operation Guide*	Lets you add images and movies to playlists, and save them on a USB device; insert the USB device into the projector to project your playlist content without using a cable connection. You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.), epson.ca/support (Canada), or latin.epson.com/support (Latin America) and select your projector.
Epson Creative Projection (iOS only)	Instructions are included with the app (instructions included with the app available only in English)	Lets you create custom content using built-in templates and stamps, and wirelessly transfer it to the projector if it is connected to a network that includes a wireless access point. You can download the latest software and documentation from the Apple App Store.

Parent topic: Introduction to Your Projector

Related references

Where to Get Help (U.S. and Canada)
Where to Get Help (Latin America)

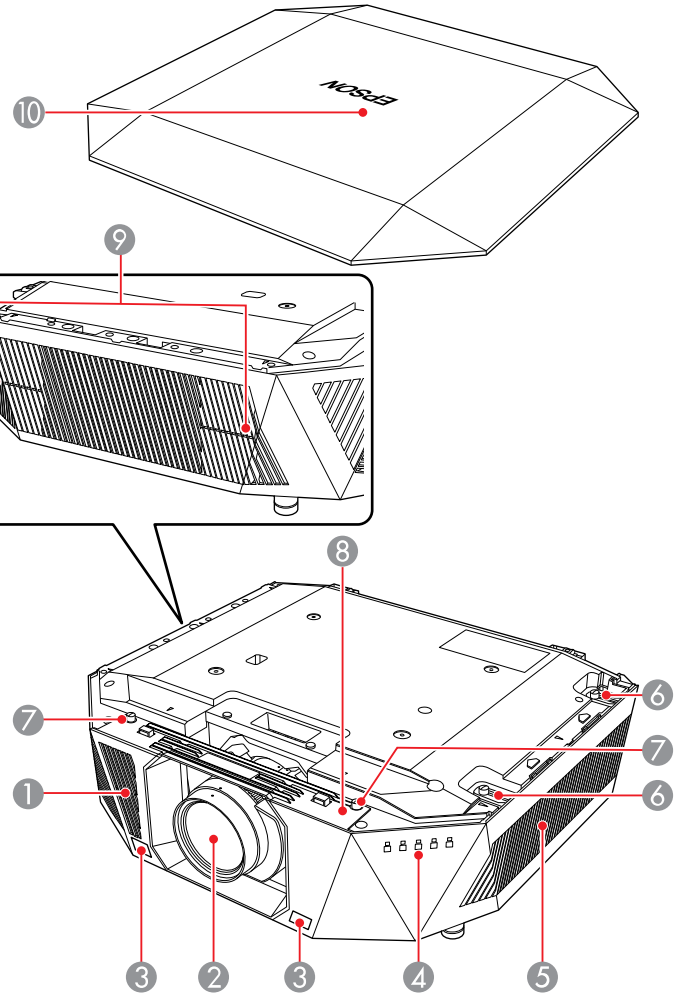
Projector Part Locations

Check the projector part illustrations to learn about the parts on your projector.

Projector Parts - Front/Top
Projector Parts - Rear
Projector Parts - Base
Projector Parts - Remote Control

Parent topic: Introduction to Your Projector

Projector Parts - Front/Top

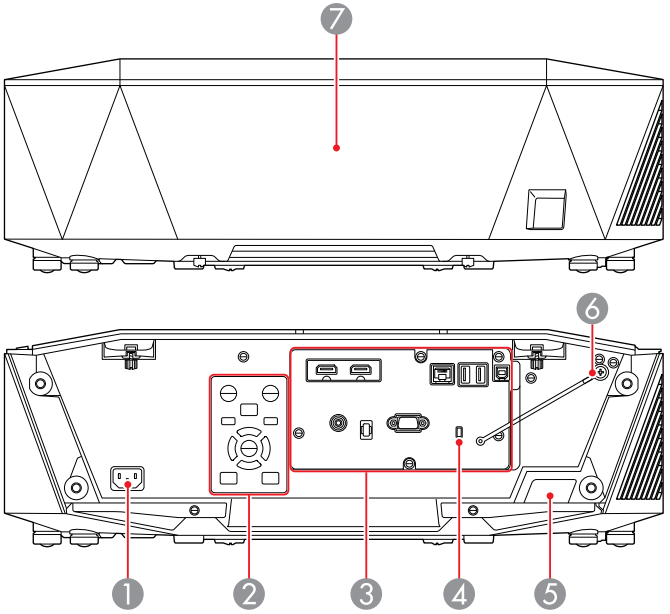


	Name	Function
1	Air intake vents	Takes in air to cool the projector

2	Projection lens	Projects images **Warning:** Do not look into the projection lens while projecting. **Caution:** Do not place any objects or put your hand near the projection lens. It could cause burns, fire, or the object to warp because this area reaches a high temperature due to the concentrated projection light.
3	Remote receivers	Receives signals from the remote control
4	Projector status lights	Indicates the projector's status
5	Air filter cover/intake vent	Takes in air to cool the projector internally
6	Air filter cover screws	Screws to secure the air filter cover in place
7	Lens replacement cover screw holes	Attach screws to secure the lens replacement cover in place
8	Lens replacement cover	Remove while attaching or removing the lens (ELPLX02S/ELPLX02WS only) **Caution:** When moving the projector, do not hold the lens replacement cover. The lens replacement cover may detach and the projector may fall, which could cause an injury.
9	Air exhaust vents	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.
10	Vanity board	Covers the top of the projector

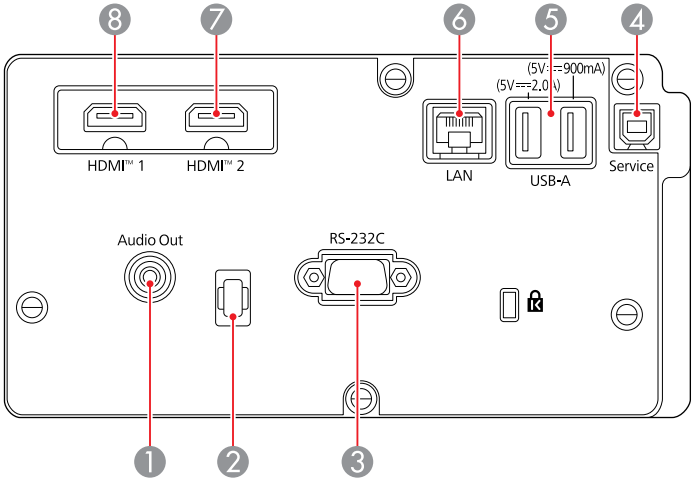
Parent topic: Projector Part Locations

Projector Parts - Rear



1	AC power inlet	Connects the power cord to the projector
2	Control panel	Operates the projector
3	Interface ports	Connects interface cables
4	Kensington security slot	The security slot is compatible with the Microsaver Security System manufactured by Kensington. For more details on the Microsaver Security System,visit the Kensington Web site.
5	Remote receiver	Receives signals from the remote control
6	Vanity board fall prevention wire	Secures the vanity board to the projector
7	Cable cover	Cover for the rear interface ports

Interface ports



Note: 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. Do not turn on the input source before connecting it to the projector. Doing so could damage the projector. If necessary, use an adapter to connect to an input port on the projector.

	Name	Function
1	**Audio Out** port (Stereo pin mini jack)	Outputs audio from the current input source to an external speaker. You can also connect the projector to an amplifier with speakers. To output audio from the speaker connected to this port, select **Projector** as the **Audio Out Device** setting in the projector's **Settings** menu. When an audio/video system is not connected to the projector, audio is output from the speaker connected to this port even if **Audio Out Device** is set to **A/V System**. • **Settings** > **HDMI Link** > **Audio Out Device**

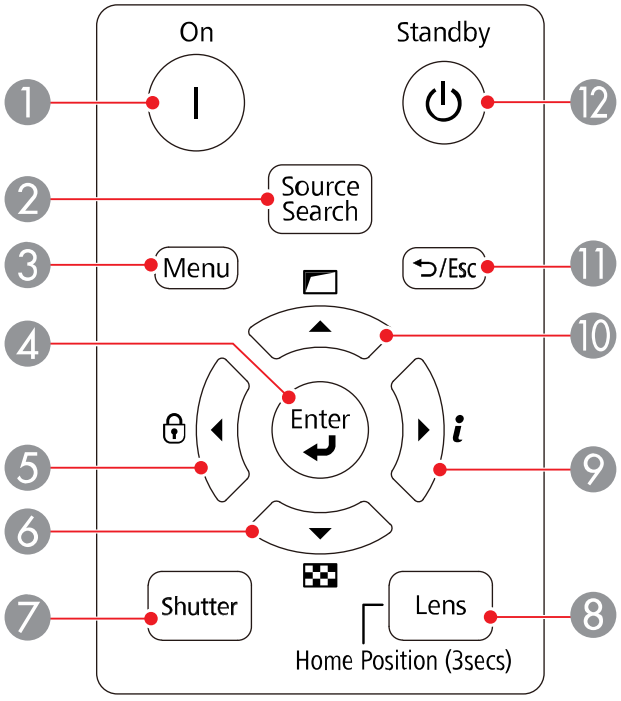
2	Cable holder	Pass a commercially available cable tie through here to secure the cables. **Warning:** Do not bundle the power cord to the other cables. Otherwise, a fire may occur.
3	**RS-232C** port (Mini D-Sub 9-pin, male)	Use to connect an RS-232C cable to control the projector from a computer
4	**Service** port (USB connector Type B)	Used for batch settings and firmware update.
5	**USB-A** port (USB connection Type A)	Use to connect a USB memory device for projecting movies or images in Content Playback mode. It is also used for batch settings and firmware update. Provides a connection for a streaming media player to power it. This projector can be powered at 5 V/2 A or 5 V/ 900mA. **Caution:** • Use the USB cable supplied with or specified for use with the device. • Do not connect a USB hub or a USB cable longer than three meters, or the device may not operate correctly.
6	**LAN** port (RJ-45)	Use to connect a LAN cable to connect to a network. Use a 100Base-TX or 10Base-T network cable. To ensure proper data transmission, use a Category 5 shielded cable or better.
7	**HDMI2** port	Inputs video signals from HDMI compatible video equipment and computers. Connects the optional base unit of the Epson Wireless Presentation System. This port is compatible with HDCP2.3. (Audio is only supported by PCM)

8	**HDMI1** port (HDMI)	Inputs video signals from HDMI compatible video equipment and computers. Connects the optional base unit of the Epson Wireless Presentation System. This port is compatible with HDCP2.3. (Audio is only supported by PCM)

Note: When sending 40 Gbps images such as 4K 120Hz, use an HDMI cable (ultra-high speed). If you use an incompatible cable, images may not be displayed correctly. If images are not displayed correctly, you may be able to display them correctly by changing the **EDID Mode** setting in the projector's **Signal** menu.

- **Signal** > **Advanced** > **EDID**

Control panel



1	**On** button	Turns the projector on
2	**Source Search** button	Changes to the next input source
3	**Menu** button	Displays and closes the projector's menu.
4	↵ **Enter** button	Enters the current selection and moves to the next level while displaying the projector's menu
5	/Left arrow button	Displays the Control Panel Lock screen allowing you to lock the control panel buttons. Do one of the following to unlock them: • Set the **Control Panel Lock** setting to **Off** • Hold down the ↵ **Enter** button on the control panel for more than seven seconds. Selects menu items while displaying the projector's menu.
6	/Down arrow button	Displays the Test Pattern screen. Selects menu items while displaying the projector's menu.
7	**Shutter** button	Turns the video and audio on or off temporarily (A/V Mute). The projector's power automatically turns off two hours after **A/V Mute** is enabled. You can disable this feature. • **Extended** > **Operation** > **A/V Mute Settings** > **A/V Mute Timer**

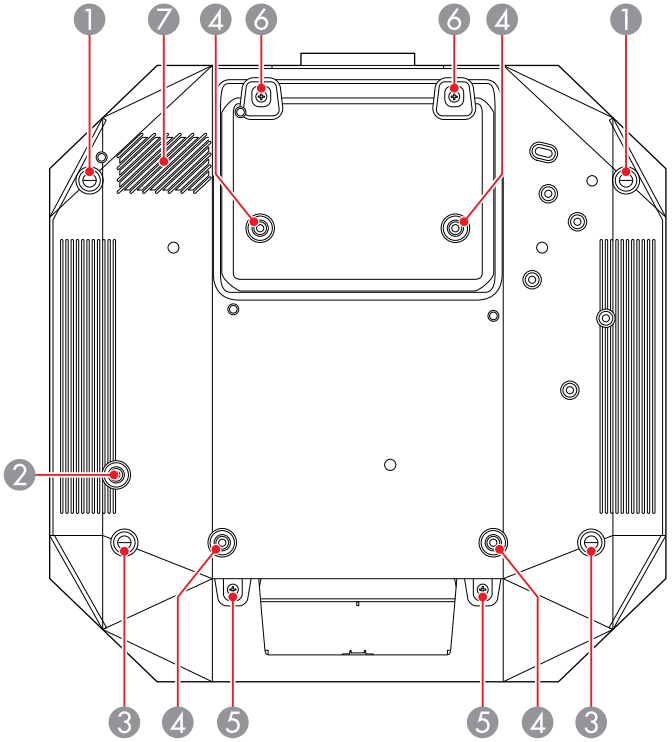
8	**Lens** button	Displays the adjustment screens for lens shift, zoom, focus, and distortion in that order each time the button is pressed. Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy. When adjusting the image position using vertical lens shift, adjust it by moving the image from the bottom to the top. If you adjust it from the top to the bottom, the image position may move down slightly after adjusting. Hold down the button for more than three seconds to move the lens position to the home position. Keep the lens position in the home position for the clearest picture.
9	Right arrow button	Displays the projector's Info menu. Selects menu items while displaying the projector's menu.
10	/Up arrow button	Corrects the shape of the image using the options in the **Geometry Correction** setting. Selects menu items while displaying the projector's menu.
11	**Esc** button	Stops the current function. Moves back to the previous menu level while displaying the projector's menu.
12	**Standby** button	Turns the projector off

Parent topic: Projector Part Locations

Related tasks

Installing the Safety Wire

Projector Parts - Base



	Name	Function
1	Front adjustable feet	When the projector is set up on a surface such as a desk, turn to extend the foot to adjust the position of the image. You can adjust the position of the image by tilting the projector up to 10°. The larger the angle of tilt, the harder it becomes to focus.
2	Safety wire screw holes	Screw hole for securing the ring of the safety wire to prevent the projector from falling from the ceiling or wall.

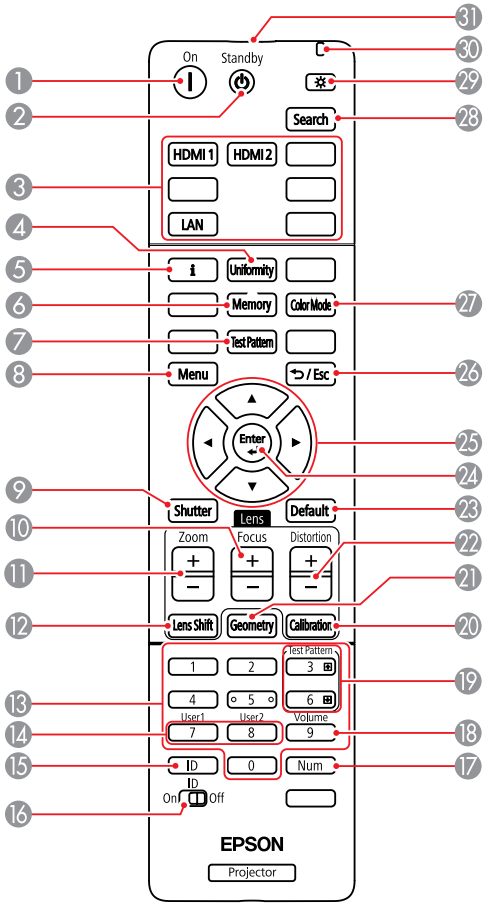
3	Rear adjustable feet	When the projector is set up on a surface such as a desk, turn to extend and retract the feet to adjust the horizontal tilt. You can adjust the tilt within a range of ±1.5°. The rear feet are detachable. You can extend the feet by approximately 0.47 in (12 mm) before they detach.
4	Ceiling mount attachment points	Use these points to attach the optional ceiling mount when installing the projector on a wall, or mounting the projector from a ceiling.
5	Cable cover screw holes	The screw holes for securing the cable cover in place. Make sure the cables have been passed through the notch on the base of the cable cover before attaching the cable cover.
6	Lens replacement cover screw holes	The screw holes for securing the lens replacement cover in place.
7	Air intake vent	Takes in air to cool the projector internally.

Parent topic: Projector Part Locations

Related references

Projector Dimension Specifications

Projector Parts - Remote Control



1	**On** button	Turns the projector on
2	**Standby** button	Turns the projector off
3	Source buttons	Switch the image source to each port.
4	**Uniformity** button	Displays the **Color Uniformity** screen where you can adjust the color tone balance of the projected image.
5	**i** information button	Displays the projector's **Info** menu.

6	**Memory** button	Displays the Memory screen where you can save customized settings and load saved settings. A memory name that has already been used is indicated by a blue mark. Saving over a previously saved memory overwrites the settings with your current settings.
7	**Test Pattern** button	Displays the Test Pattern screen.
8	**Menu** button	Displays and closes the projector's menu. Hold down this button for more than 15 seconds to turn on all remote control receivers.
9	**Shutter** button	Turns the video and audio on or off temporarily (A/V Mute). The projector's power automatically turns off two hours after A/V Mute is enabled. You can disable this feature. • **Extended** > **Operation** > **A/V Mute Settings** > **A/V Mute Timer**
10	**Focus** +/- buttons	Adjusts the focus in the projected image
11	**Zoom** +/- buttons	Adjusts the image size
12	**Lens Shift** button	Adjusts the position of the projected image. Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy. When adjusting the image position using vertical lens shift, adjust it by moving the image from the bottom to the top. If you adjust it from the top to the bottom, the image position may move down slightly after adjusting. Hold down this button for more than three seconds to move the lens position to the home position. Keep the lens position in the home position for the clearest picture.
13	Numeric buttons	Enters numbers in the projector's menu while holding down the **Num** button. In Content Playback mode, enter numbers while holding down the **Num** button to play back your favorite playlists.

14	User buttons	Perform settings assigned in the **User Button** setting in the projector's **Settings** menu.
15	**ID** button	Press this button and press a number button within 5 seconds to select the ID for the projector you want to operate using the remote control. (Enter a one-digit or two-digit number.) If you do not know the projector's ID, press this button during projection to temporarily display the projector's ID and the remote control's ID on the screen.
16	**ID** switch	Enables (On) or disables (Off) ID settings for the remote control.
17	**Num** button	Hold down this button to enter numbers using the numeric buttons.
18	**Volume** button	Adjusts the volume of the **Audio Out** port
19	**Test Pattern** +/- buttons	Display the previous or next test pattern while displaying a test pattern. Controls page up and down on your computer when you connect a projector and computer over the network.
20	**Calibration** button	Adjusts the lens calibration
21	**Geometry** button	Displays the **Geometry Correction** screen allowing you to correct keystone distortion of the projected image
22	**Distortion** +/- buttons	Adjusts the distortion in the projected image
23	**Default** button	Returns the selected setting to its default value. Hold down this button for more than three seconds to start the lens calibration process.
24	↵ Enter button	Enters the current selection and moves to the next levelwhile displaying the projector's menu
25	Arrow buttons	Selects menu items while displaying the projector's menu.
26	**Esc** button	Stops the current function. Moves back to the previous menu level while displaying the projector's menu.

27	**Color Mode** button	Changes the color mode
28	**Search** button	Switches to the next input source
29	Illumination button	Illuminates the buttons on the remote control for approximately 15 seconds. This is useful when using the remote control in the dark.
30	Indicator light	Lights up when the remote is sending signals
31	Remote control signal emitter	Outputs remote control signals

Parent topic: Projector Part Locations

Related references

Remote Control Operation

Setting Up the Projector

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

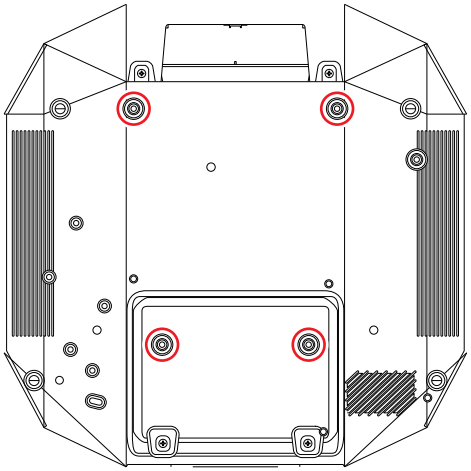
Projector Placement
Attaching and Removing a Lens
Installing the Safety Wire
Attaching and Removing the Vanity Board
Attaching and Removing the Cable Cover
Installing Batteries in the Remote Control

Projector Placement

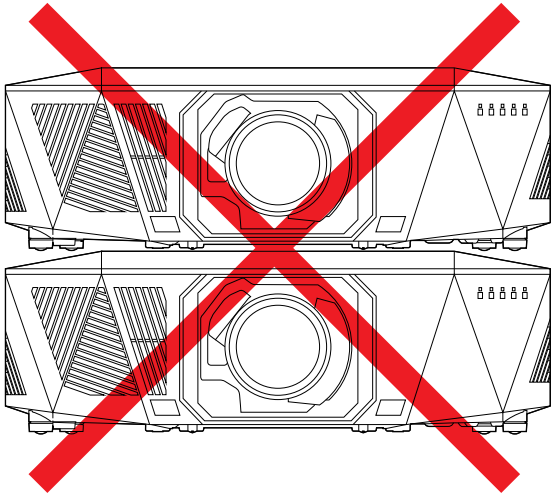
You can place the projector on almost any flat surface to project an image.

You can also install the projector in a ceiling mount if you want to use it in a fixed location.

When using a ceiling mount, use commercially available M6 screws (up to a depth of 0.55 inches [14 mm]) to attach the mount to the projector.



Note: Do not stack projectors directly on top of each other.



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

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

- Place the projector on a sturdy, level surface or install it using a compatible mount.
- Place the projector parallel to the screen.
- If you use the projector at altitudes above 7500 feet (2286 m), turn on **High Altitude Mode** to ensure the projector's internal temperature is regulated properly.
- Try not to use the projector in locations subject to high humidity and dust, or in locations subject to smoke from fires or tobacco smoke.
- 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.
- If there is not enough space around the projector and the internal temperature of the projector increases, the brightness of the light source may decrease.
- Make sure hot air from the exhaust vent does not go into the air intake vent.
- Position the projector within reach of a grounded electrical outlet or extension cord.
- Protect your hands with gloves or other safety items when installing the projector.

Make sure you read the safety instructions when placing or mounting your projector. See the link below.

Projector Setup and Installation Options
Projection Distance

Parent topic: Setting Up the Projector

Related concepts

Projection Modes

Related references

Important Safety Information

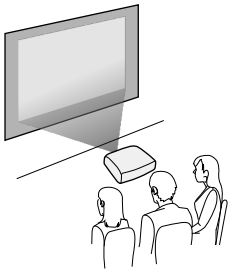
Related tasks

Changing the Projection Mode Using the Remote Control
Changing the Projection Mode Using the Menus

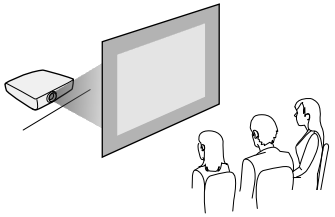
Projector Setup and Installation Options

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

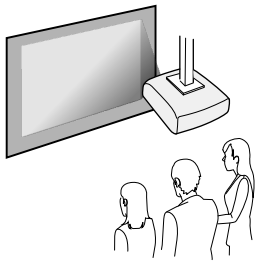
Front



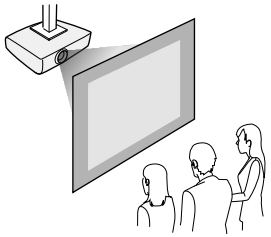
Rear



Front ceiling

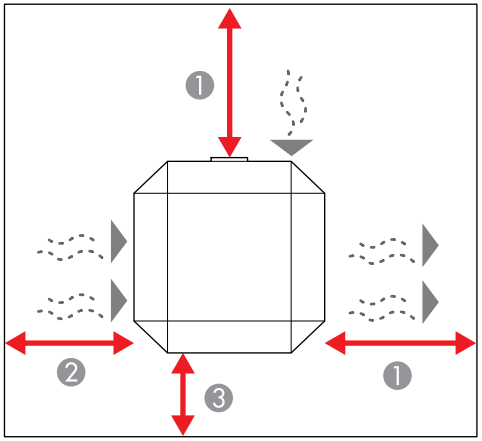


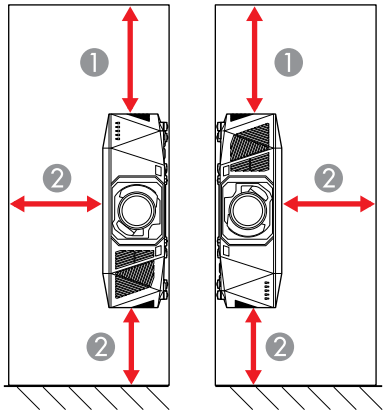
Rear ceiling



Caution: Be sure to leave the following amount of space around the projector to avoid blocking the air exhaust and intake vents. Do not install the projector in a location that does not allow air to circulate, such as on a shelf or in a box.

If there is not enough space around the projector and the internal temperature of the projector increases, the brightness of the light source may decrease. Make sure hot air from the exhaust vent does not go into the air intake vent.



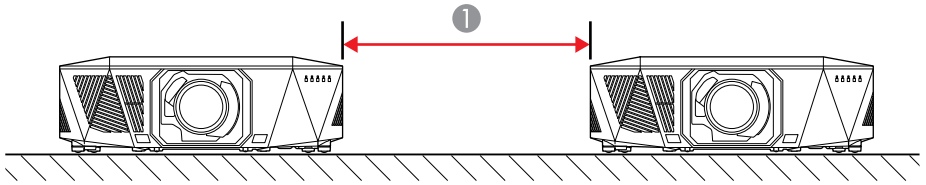


1 11.8 inches (30 cm)

2 7.9 inches (20 cm)

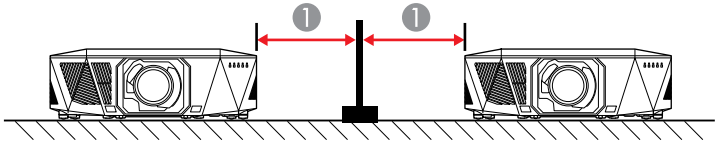
3 3.9 inches (10 cm)

If you are installing multiple projectors next to each other, be sure to leave at least 28 inches (70 cm) of space between the projectors. Also, make sure heated air from an exhaust vent does not go into the air intake vent of another projector.



1 28 inches (70 cm)

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



1 12 inches (30 cm)

You can mount the projector to the ceiling at any horizontal or vertical angle.

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 Projection Distance Calculator here (U.S.), here (Canada), or here (Caribbean) to determine approximately how far to place the projector from the screen based on the size of the projected image.

Parent topic: Projector Placement

Attaching and Removing a Lens

Follow the instructions in these sections to attach or remove a compatible lens.

Warning: Make sure you turn off the projector and unplug the power cord before attaching or removing a lens. Otherwise, you may receive an electric shock.

Attaching a Lens
Removing a Lens

Parent topic: Setting Up the Projector

Attaching a Lens

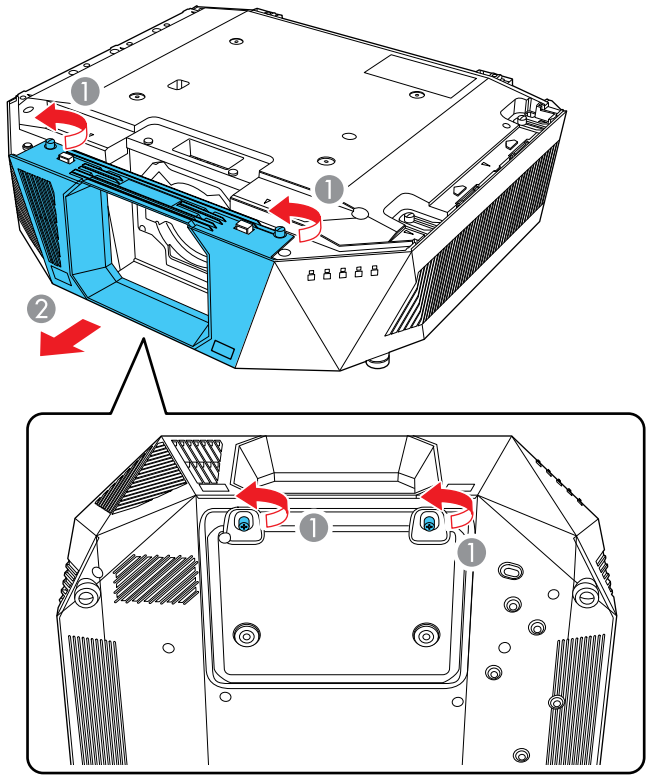
You can attach a compatible lens to the projector. (For a list of available lenses, click the link at the end of this section.)

Caution: Unplug the power cord from the projector before attaching the lens. Make sure the front of the projector is not facing up when you attach the lens. This prevents dirt or dust from entering the projector and lowering the projection quality. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

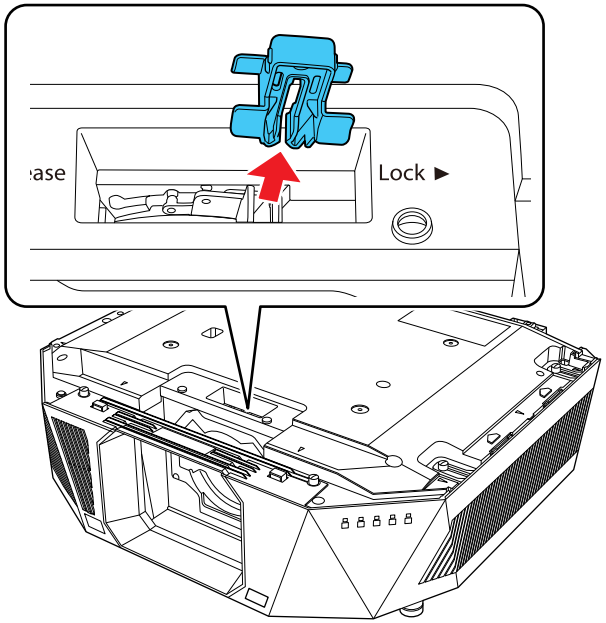
Note: For information on installing an ultra short-throw zoom lens, see the *User's Guide* supplied with the lens.

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

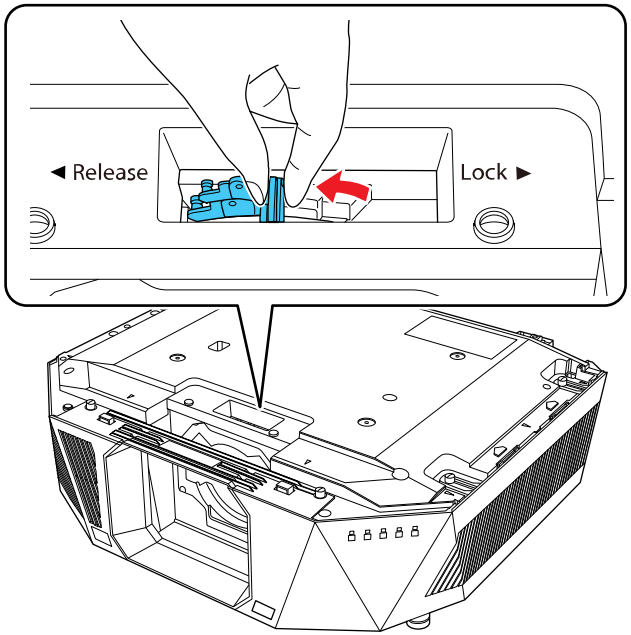
2. If you are installing the ELPLX02S or ELPLX02WS lenses, remove the lens replacement cover from the projector.



3. Remove the stopper, if necessary.

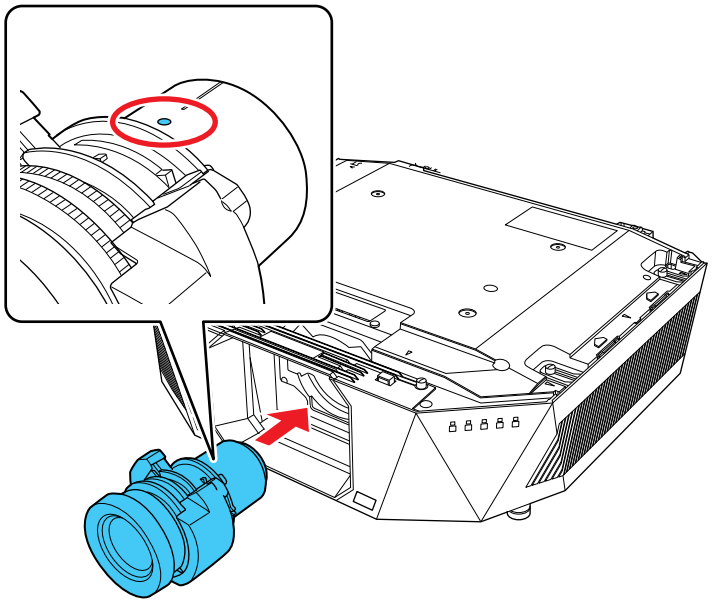


4. Pinch the lock lever and move it to the **Release** position.



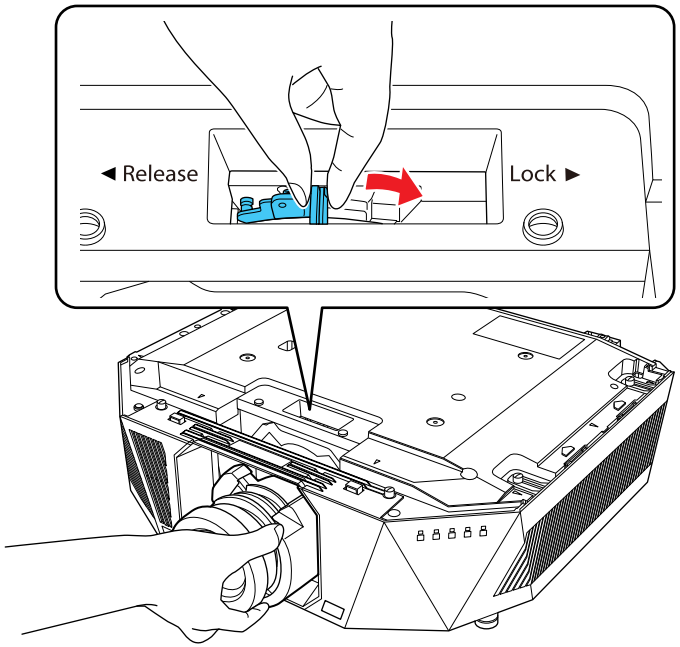
5. Insert the lens straight into the projector's lens socket with the white dot facing up.

   Caution: To avoid injury, be careful not to get your fingers caught between the projector and lens. Do not touch the glass surface of the lens.

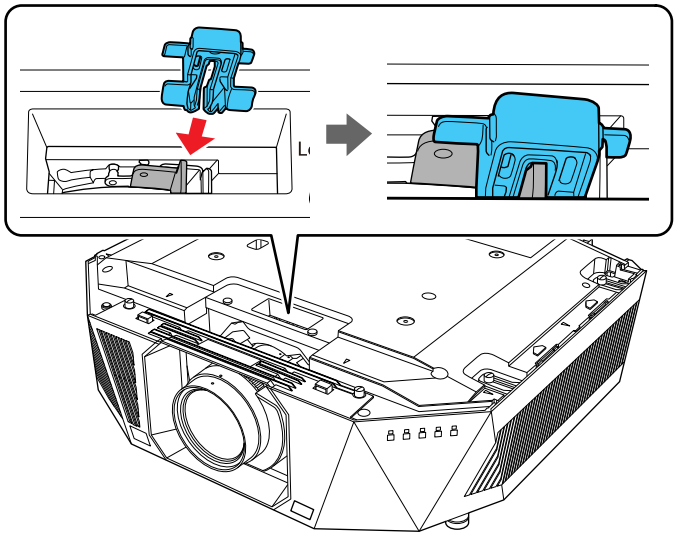


6. Hold the lens firmly after it is fully inserted, then pinch the lock lever and move it to the **Lock** position.

Warning: Make sure the lens is securely attached. If the lens is not secured, it may fall off and could cause an injury when moving the projector. The lever is secured even without using the lever lock, but the lock adds an additional measure of safety.



7. Reattach the stopper.



8. To perform lens calibration, turn on the projector.
9. If prompted, select **Yes** to calibrate the lens.
   Lens calibration helps the projector to correctly acquire the lens position and adjustment range and can take up to 100 seconds to complete. When calibration is finished, the lens returns to the same position it was in before calibration. (The ELPLX02S and ELPLX02WS lenses return to the standard position.)

   Note: If no message appears after attaching the lens, perform lens calibration manually by pressing the **Calibration** button on the remote control. You can also perform manual calibration by holding down the **Default** button on the remote control for approximately 3 seconds, or you can go to **Extended** > **Operation** > **Lens Calibration** in the projector menu.

   If you do not calibrate the lens, the following functions may not operate correctly:

   - Focus
   - Distortion
   - Zoom
   - Lens Shift
   - Memory (Lens Position)

Note: If the icon indicating that lens calibration has failed is displayed, remove the lens and then reinstall it. If the message continues to be displayed, stop using the projector, remove the power plug from the electrical outlet, and contact Epson for help.

Parent topic: Attaching and Removing a Lens

Related references

Optional Equipment and Replacement Parts

Removing a Lens

You can remove a lens and replace it with a different lens.

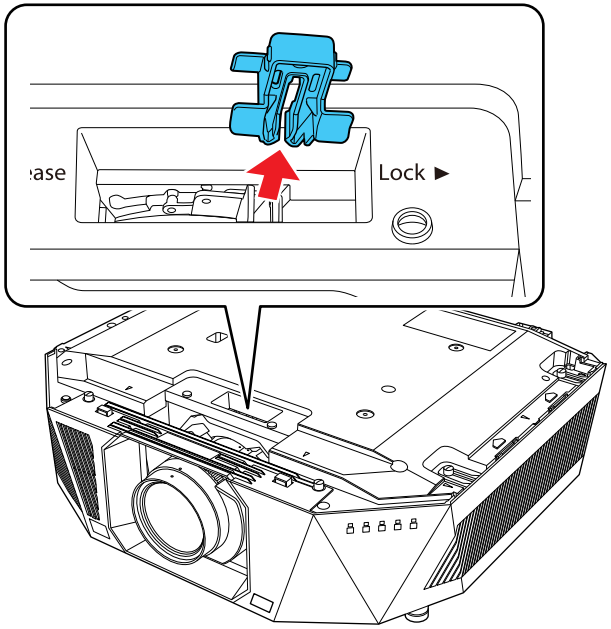
Warning: Wait at least 30 minutes to remove or replace the lens after turning off the projector. Touching the lens unit before it cools down may cause burns.

Caution: Remove the lens only when necessary, and make sure the front of the projector is not facing up when you remove the lens. This prevents dirt or dust from entering the projector and lowering the projection quality. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

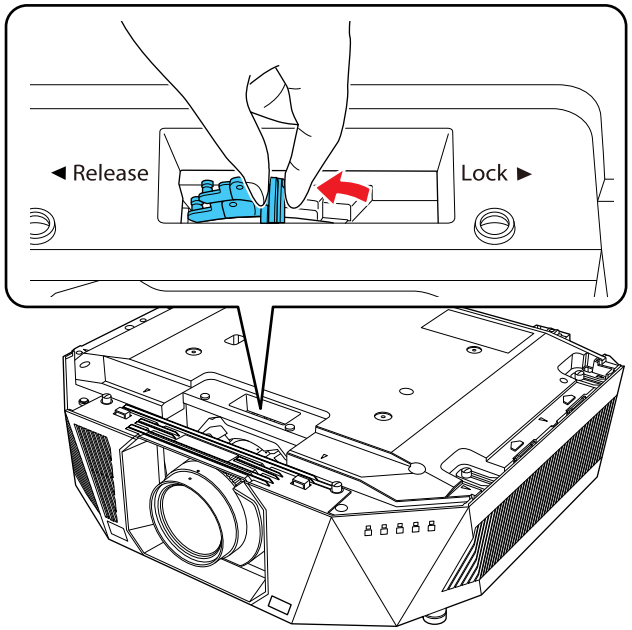
Note: The projector uses a laser as the light source. As a safety measure, the light source turns off when the lens is removed. Attach the lens, and then press the **On** button to turn it back on.

1. Press and hold the **Lens Shift** (remote control) or **Lens** (control panel) button for approximately 3 seconds to move the lens to the center position.
2. Turn off the projector and unplug the power cord.

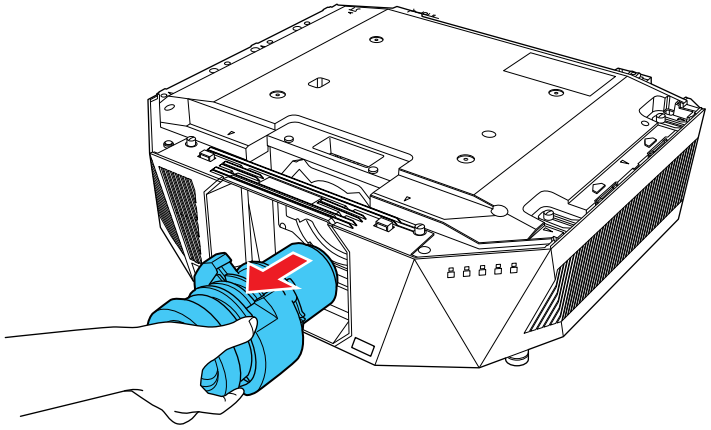
3. Remove the stopper, if necessary.



4. Hold the lens firmly as you pinch the lock lever and move it to the **Release** position.



5. Gently pull the lens straight out of the projector.

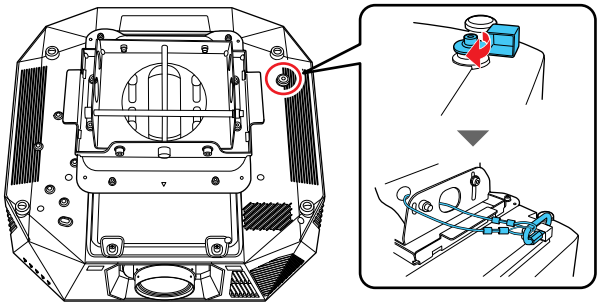


Parent topic: Attaching and Removing a Lens

Installing the Safety Wire

When you use the optional ceiling mount, you can install the safety wire to prevent the projector from falling from the mount.

Secure the ring of the safety wire using the M6 × 15 mm bolt included with the safety wire set, and loop the safety wire through the ceiling mount to secure it as shown.



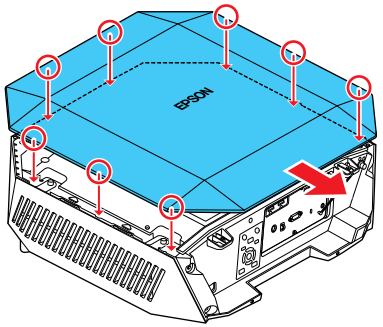
Parent topic: Setting Up the Projector

Attaching and Removing the Vanity Board

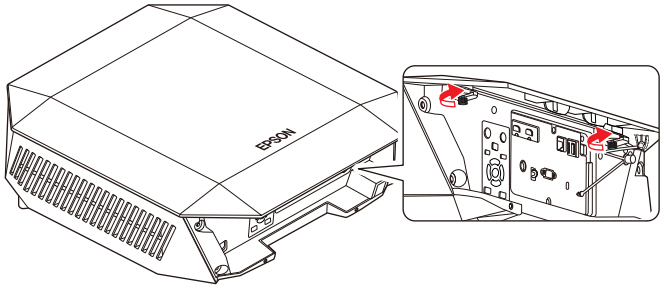
You can attach the vanity board that came with your projector to cover the top of the projector.

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

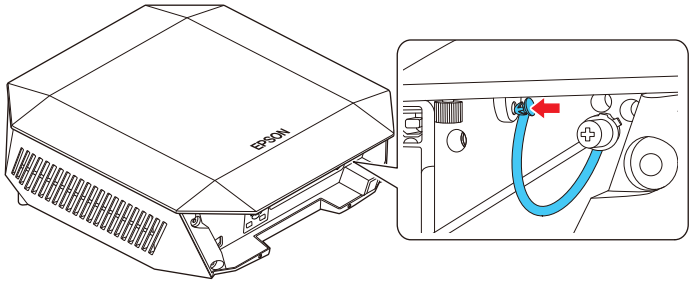
2. Align the tabs on the vanity board with the guides on the projector, place the vanity board on the projector , and then slide it backward until it fits in place.



3. Tighten the screws.



4. Attach one end of the vanity board fall prevention wire to the vanity board.



5. Remove the protective sheet from the vanity board.

When removing the vanity board, remove the screw for the vanity board fall prevention wire, and then remove the wire from the projector.

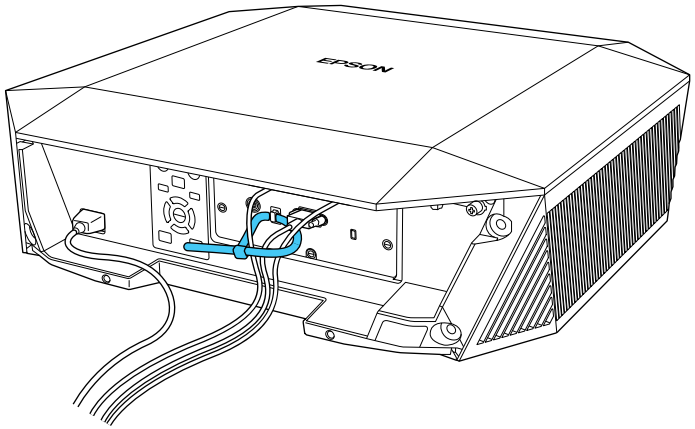
Parent topic: Setting Up the Projector

Attaching and Removing the Cable Cover

You can attach the cable cover that came with your projector to hide the attached cables from view.

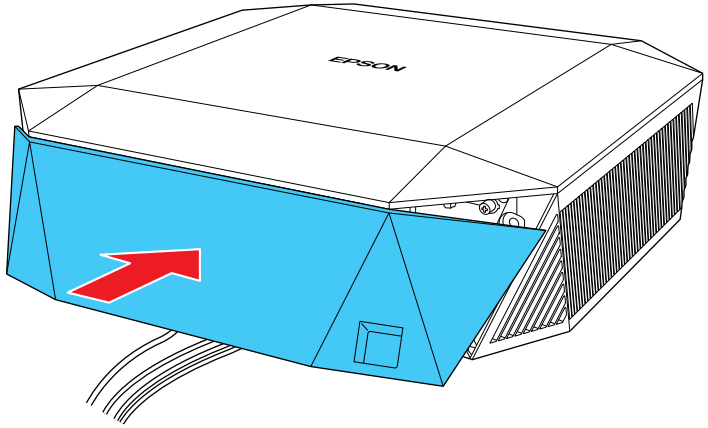
Note: Make sure to install the vanity board on the projector before attaching the cable cover.

1. Bundle the cables together using a band or other fastener (not provided) and pass it through the cable holder as shown.

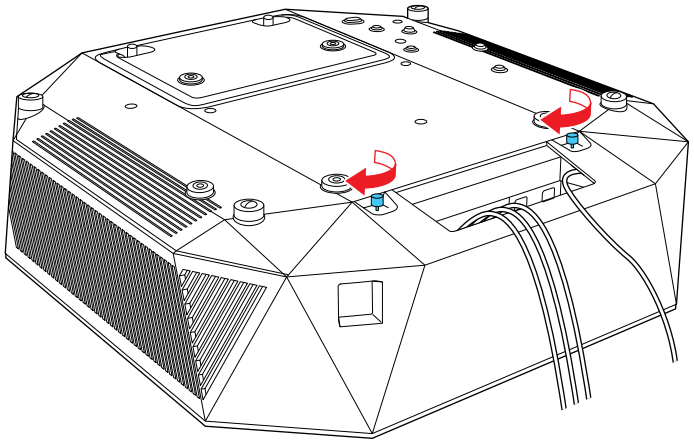


Caution: Do not bundle the power cord to the other cables. Otherwise, a fire may occur.

2. Place the cable cover on the projector as shown, guiding the cables through the notch on the base of the cable cover.



3. Tighten both cable cover screws.



To remove the cover, loosen both screws and pull the cover off of the projector.

Parent topic: Setting Up the Projector

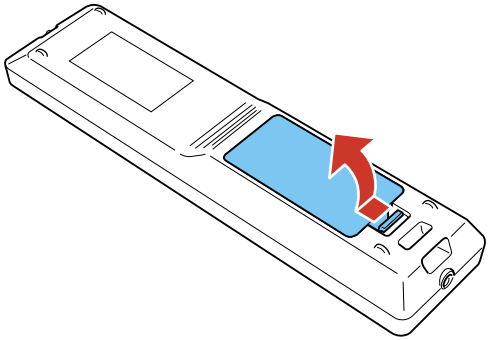
Installing Batteries in the Remote Control

The remote control uses the two AA batteries that came with the projector. Replace the batteries as soon as they run out.

Note: Make sure you read the safety instructions in this manual before handling the batteries.

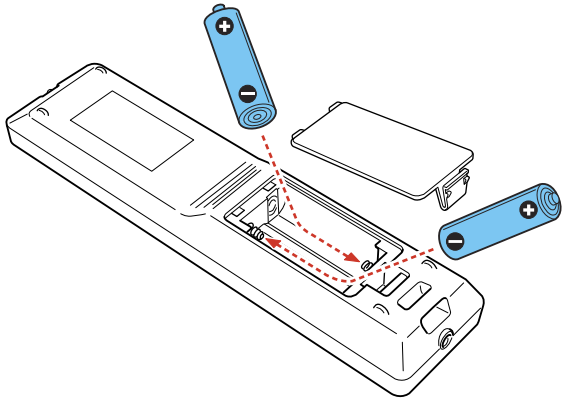
Caution: Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.

1. Remove the battery cover.



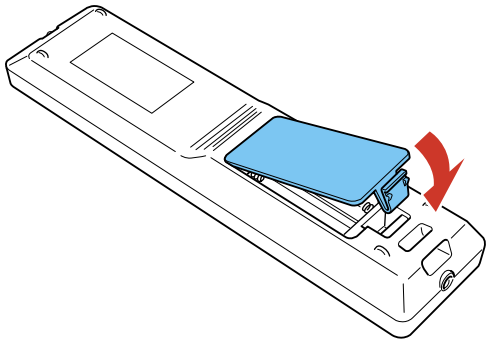
2. Remove the old batteries, if necessary.

3. 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.

4. Replace the battery cover and press it down 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

Using the Projector on a Network

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

Note: Epson iProjection is not recommended for use with streaming video.

Wired Network Projection
Selecting Other Network Settings
Monitoring and Controlling the Projector

Wired Network Projection

You can project through a wired network. To do this, connect the projector to your network with an Ethernet cable, and then set up your projector and computer for network projection.

You can use Epson iProjection to project static images and presentations over a wired network.

Note: Epson iProjection is not recommended for use with streaming video.

After connecting and setting up the projector, install the projector software. You may need to install it from a software CD, if included, or download the software and manuals as necessary.

Connecting to a Wired Network
Selecting Wired Network Settings

Parent topic: Using the Projector on a Network

Related references
Additional Projector Software and Manuals

Connecting to a Wired Network

To connect the projector to a wired local area network (LAN), use a 100Base-TX or 10Base-T network cable. To ensure proper data transmission, use a Category 5 shielded cable or higher.

1. Connect one end of the network cable to your network hub, switch, or router.
2. Connect the other end of the cable to the projector's **LAN** port.

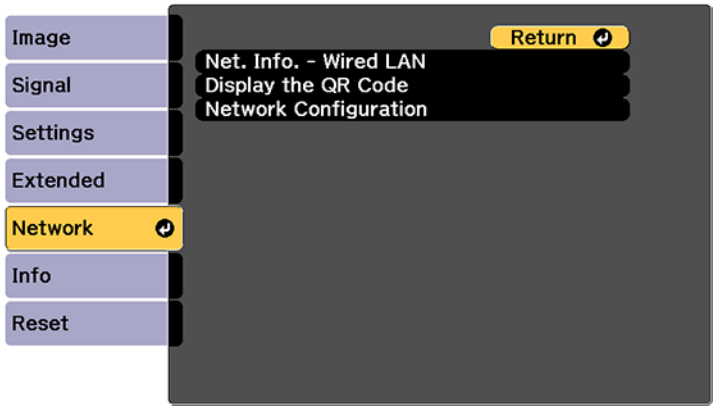
Parent topic: Wired Network Projection

Selecting Wired Network Settings

Before you can project from computers on your network, you must select the network settings for the projector using its menu system.

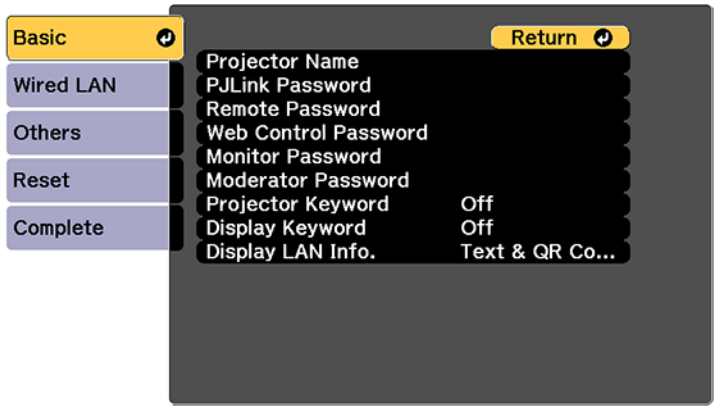
Note: Make sure you already connected the projector to your wired network using the **LAN** port.

1. Turn on the projector.
2. Press the **Menu** button.
3. Select the **Network** menu and press **Enter**.



4. Select **Network Configuration** and press **Enter**.

5. Select the **Basic** menu and press ↵ **Enter**.

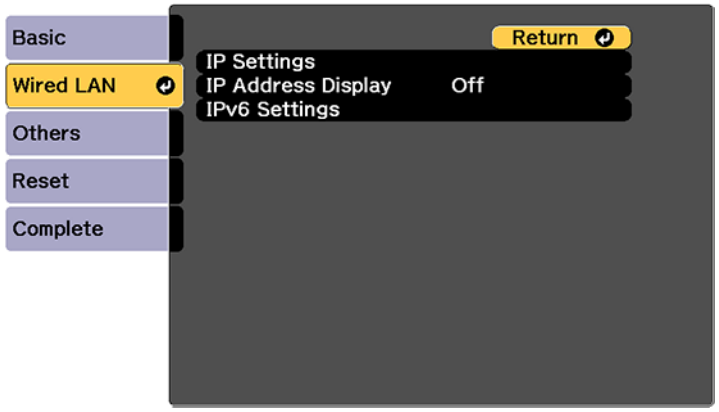


6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
   - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
   - **Remote Password** lets you enter a password up to 32 alphanumeric characters long for accessing the Remote or Basic Control screen in Epson Web Control. (Default user name is **EPSONREMOTE**; no default password is set.)
   - **Web Control Password** lets you enter a password up to 32 alphanumeric characters long for accessing Epson Web Control. (Default user name is **EPSONWEB**; no default password is set.)
   - **Monitor Password** lets you enter a password up to 16 alphanumeric characters long for monitoring projectors with a switcher and a system controller.
   - **Moderator Password** lets you enter a password up to 4 numbers long for accessing the projector as a moderator with the Epson iProjection (Windows/Mac) software or the Epson iProjection app.
   - **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. You must enter a displayed, randomized keyword from a computer using Epson iProjection to access the projector and share the current screen.
   - **Display Keyword** lets you display a keyword on the projected image when accessing the projector from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.

- **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices using the Epson iProjection app.

Note: Use the displayed keyboard to enter the name, passwords, and keyword. Press the arrow buttons on the remote control to highlight characters and press **Enter** to select them. You can also enter numbers by pressing the number buttons while holding down the **Num** button on the remote control.

7. Select the **Wired LAN** menu and press **Enter**.



8. Select your IP Settings as necessary:
   - If your network assigns addresses automatically, turn on the **DHCP** setting.
   - If you must set addresses manually, turn off **DHCP** and enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address** as needed.

   Note: Do not use these addresses:
   - for the IP Address: 0.0.0.0, 127.x.x.x, 192.0.2.x, or 224.0.0.0 through 255.255.255.255
   - for the Subnet Mask: 255.255.255.255 or 0.0.0.0 through 254.255.255.255
   - for the Gateway Address: 0.0.0.0, 127.x.x.x, or 224.0.0.0 through 255.255.255.255

   (where x is a number from 0 to 255)

Note: To highlight the numbers you want from the displayed keyboard, press the arrow buttons on the remote control. To select a highlighted number, press **Enter**.

9. To prevent display of the IP address on the standby screen, turn off **IP Address Display**.
10. To connect the projector to the network using IPv6, select **On** as the **IPv6 Settings** option. Then select the **Auto Configuration** and **Use Temporary Address** settings as necessary.
11. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

    Note: If the Web Control Password has not been set, a screen prompting you to set a password is displayed. Follow the on-screen instructions to set the password.

12. Press the **LAN** button on the remote control to confirm that the IP address on the LAN standby screen is correct.

Parent topic: Wired Network Projection

Related references

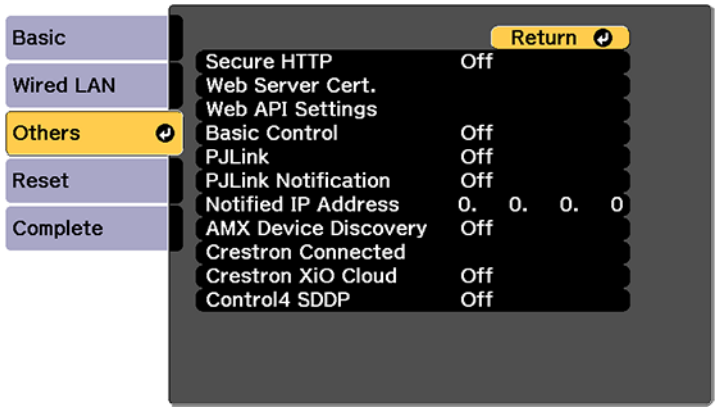
Network Menu

Selecting Other Network Settings

You can select optional network settings on the Others menu.

1. Press the **Menu** button.
2. Select the **Network** menu and press **Enter**.
3. Select **Network Configuration** and press **Enter**.

4. Select the **Others** menu and press **Enter**.



5. If you want to use the Secure HTTP protocol to encrypt communication when using Web Control, turn on the **Secure HTTP** setting and import the web server certificate using the **Web Server Cert.** setting.
6. If you want to operate the projector using Web API, turn on the **Web API** setting. The username for API authentication is **EPSONWEB**; use the password that is set for the **Web Control Password**.
7. If you want to monitor the projector using PJLink, turn on the **PJLink** setting.
8. Turn on the **PJLink Notification** setting to enable the PJLink notification function when the PJLink setting is enabled.
9. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.
10. If your network environment uses a Crestron Connected controller, turn on the **Crestron Connected** setting to allow the projector to be detected.
11. If your network environment uses Crestron Xio Cloud, turn on the **Crestron Xio Cloud** setting.
12. If your network environment uses a Control4 or Control4 SDDP controller, turn on the **Control4 SDDP** setting to allow the projector to be detected.
13. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Parent topic: Using the Projector on a Network

Related references

Network Menu

Monitoring and Controlling the Projector

Follow the instructions in these sections to monitor and control the projector over a network.

Epson Web Control
ESC/VP21 Commands
ESC/VP.net Commands
PJLink
Using Crestron Connected
Web API
Controlling a Networked Projector Using a Web Browser
Controlling a Networked Projector in Content Playback Mode
Secure HTTP

Parent topic: Using the Projector on a Network

Epson Web Control

Once you have connected your projector to your network, you can select projector settings and control projection using a compatible Web browser. This lets you access the projector remotely. See the link below for more information.

In Content Playback mode, you can also edit playlists.

Note: You can use the following Web browsers.

- Microsoft Edge (Windows)
- Safari (Mac, iOS)
- Chrome (Android)

While using the Web browser, do not connect using a proxy server. You cannot select all of the projector menu settings or control all projector functions using a Web browser.

If you set **Standby Mode** to **Communication On**, you can use a Web browser to select settings and control projection even if the projector is in standby mode.

- **Extended** > **Standby Mode**

Parent topic: Monitoring and Controlling the Projector

Related tasks

Controlling a Networked Projector Using a Web Browser

Controlling a Networked Projector in Content Playback Mode

ESC/VP21 Commands

You can control the projector from an external device using ESC/VP21.

When the power ON command is transmitted to the projector, the power turns on and enters warm-up mode. When the projector's power has turned on, a colon ":" (3Ah) is returned.

When a command is input, the projector executes the command and returns a":", and then accepts the next command.

If the command being processed terminates abnormally, an error message is output and a ":" is returned.

You can also execute some of the ESC/VP21 commands by Web API.

For additional information, visit the Epson website and search for your product's support page.

Parent topic: Monitoring and Controlling the Projector

ESC/VP.net Commands

You can monitor the projector using ESC/VP.net commands. You must set the Monitor Password before using the ESC/VP.net Commands.

For additional information, visit the Epson website and search for your product's support page.

Parent topic: Monitoring and Controlling the Projector

PJLink

PJLink was established by the JBMIA (Japan Business Machine and Information System Industries Association) as a standard protocol for controlling network compatible projectors as part of their efforts to standardize projector control protocols. The projector complies with the PJLink Class2 standard established by the JBMIA. The port number used for the PJLink search function is 4352 (UDP). You need to configure the network settings before you can use PJLink.

- **Network** > **Network Configuration** > **Basic** > **PJLink Password**
- **Network** > **Network Configuration** > **Others** > **PJLink Notification**
- **Network** > **Network Configuration** > **Others** > **PJLink**

It complies with all commands except for the following commands defined by PJLink Class2 and confirmed by the PJLink standard adaptability verification.

Non-compatible commands:

- Image muting set - **AVMT 11**
- Audio muting set - **AVMT 21**

For additional information, visit the Epson website and search for your product's support page.

Parent topic: Monitoring and Controlling the Projector

Using Crestron Connected

If you are using the Crestron Connected network monitoring and control system, you can set up your projector for use on the system. Crestron Connected lets you control and monitor your projector using a web browser.

You can access the Crestron Connected operation window from Epson Web Control. You need to enable Crestron Connected in the projector's Network menu before you can use Crestron Connected.

- **Network** > **Network Configuration** > **Others** > **Crestron Connected**

To monitor devices in the system, you can use Crestron RoomView Express or Crestron Fusion provided by Crestron. You can communicate with the help desk and send emergency messages.

For additional information on Crestron Connected, contact Crestron.

Parent topic: Monitoring and Controlling the Projector

Related references

Network Menu

Web API

You can use Web API to operate the projector.

You can authenticate Web API communications using API authentication (Digest authentication).

The user name for API authentication is **EPSONWEB**; use the password that is set for the **Web Control Password** (**Network** > **Network Configuration** > **Basic** > **Web Control Password**).

Parent topic: Monitoring and Controlling the Projector

Controlling a Networked Projector Using a Web Browser

Once you have connected your projector to your network, you can select projector settings and control projection using a compatible web browser. This lets you access the projector remotely. You can also control the projector using a web browser through the Epson iProjection app on iOS or Android.

Note: Make sure that the projector and your computer or device are on the same network and that you have set a **Web Control Password** in the Network Settings menu or you cannot access the Web Control screen.

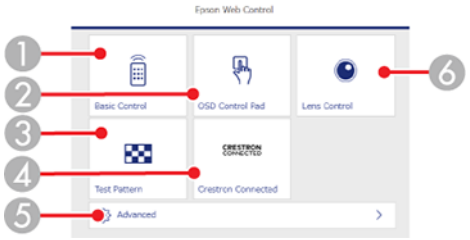
1. Make sure the projector is turned on.
2. Start your web browser on a computer or device connected to the network.
3. Enter the projector's IP address into the browser's address box (if you are entering an IPv6 address, wrap the address with [and]).

   Note: You can find the projector's IP address by selecting **Wired LAN Info.** in the projector's Network menu.

   Note: You may need to log in to access some of the options on the Web Control screen. If you see a log in window, enter your user name and password.

   - For the Basic Control option, the default user name is **EPSONREMOTE**. No password is set by default.
   - For all other options, the default user name is **EPSONWEB**. No password is set by default.
   - You can change the password in the projector's Network menu:
     - **Network** > **Network Configuration** > **Basic** > **Remote Password**
     - **Network** > **Network Configuration** > **Basic** > **Web Control Password**

   You see the Epson Web Control screen.



1 Select **Basic Control** to control the projector remotely.

2 Select **OSD Control Pad** to change the projector's menu settings.

3 Select **Test Pattern** to display a test pattern.

4 Select **Crestron Connected** to open the menu.

5 Select **Advanced** to open the advanced menu screen.

6 Select **Lens Control** to adjust the lens (focus, zoom, and lens shift).

Note: You can also check the projector's log files by entering "https://<projector's IP address>/logs/" into your browser's URL bar when you set **Log Save Destination** to **USB and Internal Memory** in the projector's Extended menu.

4. Select the option corresponding to the projector function you want to control.

Web Control Options

Parent topic: Monitoring and Controlling the Projector

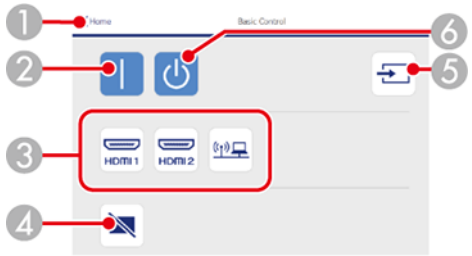
Related references

Network Menu

Web Control Options

Basic Control

Note: If the Remote Password is set to **On**, you need to enter your user name and password. (The default username is **EPSONREMOTE**. No password is set by default.)



1 Returns to the Home screen

2 Turns the projector on

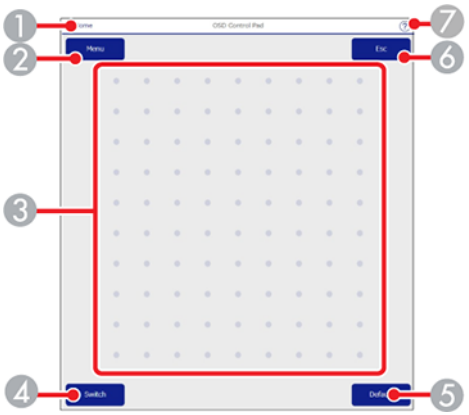
3 Input source selection controls (available sources vary depending on projector model)

4 Turns the video and audio on or off temporarily

5 Searches for sources

6 Turns the projector off

OSD Control Pad



1 Returns to the **Epson Web Control** screen

2 Displays the projector's setting menus

3 Use your finger or mouse to navigate the menus

4 Switches the operation method to button mode

5 Resets the selected setting to its default value

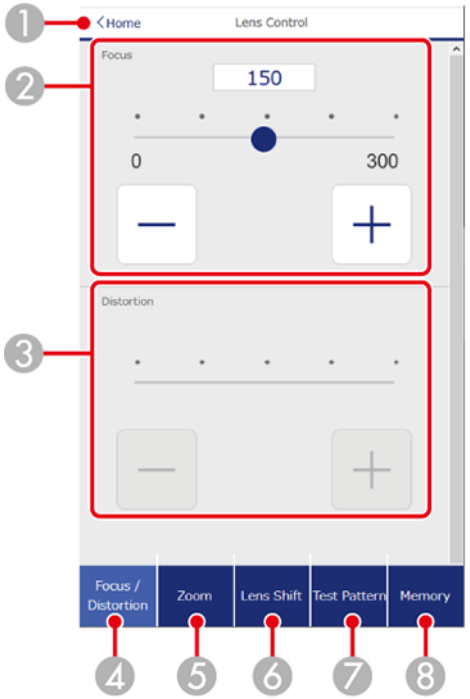
6 Returns to the previous menu

7 Displays help topics

Note: You cannot change some settings using Epson Web Control.

Lens Control

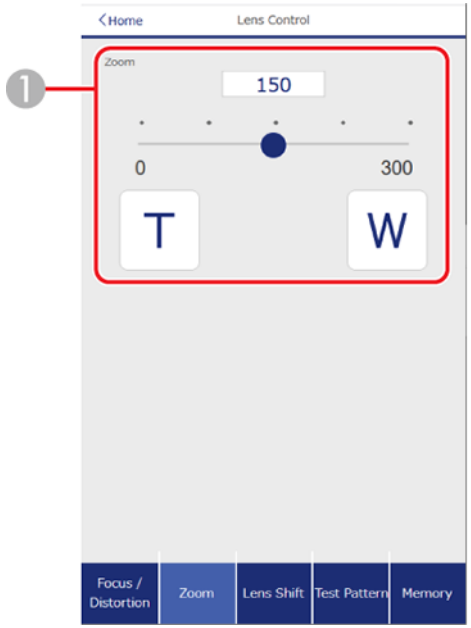
Focus/Distortion screen



1 Returns to the **Epson Web Control** screen
2 Focus adjustment slider
3 Distortion adjustment slider
4 Displays the Focus/Distortion screen
5 Displays the Zoom screen
6 Displays the Lens Shift screen
7 Displays the Test Pattern screen
8 Displays the Memory screen

Zoom screen

Note: Depending on the installed lens, the Zoom feature may not be available.

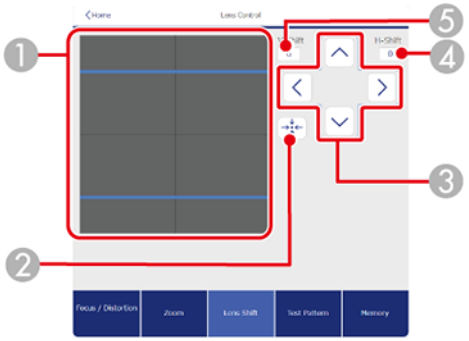


1 Zoom adjustment slider

T: Reduces the size of the image

W: Increases the size of the image

Lens Shift screen



1	The blue square displays the current image position and the red square displays the new image position
2	Moves the lens to the home position
3	Moves the image position up, down, left, or right
4	Displays the horizontal image position; select to change the value
5	Displays the vertical image position; select to change the value

Note: Depending on the currently installed lens, this screen may look different.

Test Pattern screen

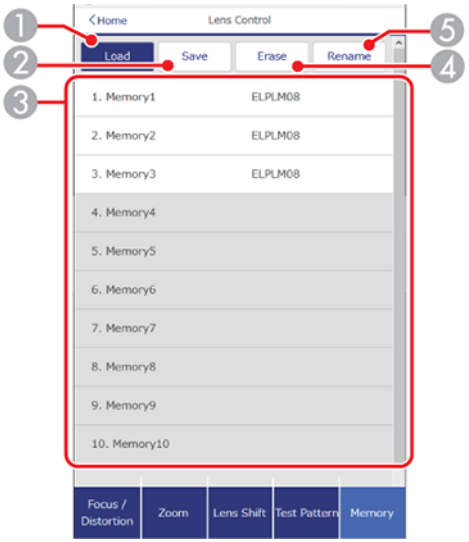
Note: The available test patterns may differ from the ones shown here.



1 Displays available test patterns; select to project a test pattern

2 Turns off test pattern display

Memory screen



1 Overwrites your current settings with saved settings

2 Saves your current settings to memory

3 Displays a list of saved memories

4 Erases a saved memory

5 Renames a saved memory

Advanced

If the default **Web Control Password** is set, a screen prompting you to change the password appears before you can view the **Advanced** screen. It is strongly recommended that you change the password regularly to prevent unauthorized access to your projector.



1 Opens the menus

2 Displays the selected menu name

3 Contains the selected projector settings (available settings vary depending on projector model)

4 Locks or unlocks the projector settings

5 Updates the projector settings

Note: You cannot change the following settings using Epson Web Control:

- Custom setting for Gamma
- EDID
- HDMI Link
- User Button

- Content Playback
- Message Position
- User's Logo
- Lens Calibration
- Language
- Event ID

You can only change the Display Logs settings using Epson Web Control.

Parent topic: Controlling a Networked Projector Using a Web Browser

Controlling a Networked Projector in Content Playback Mode

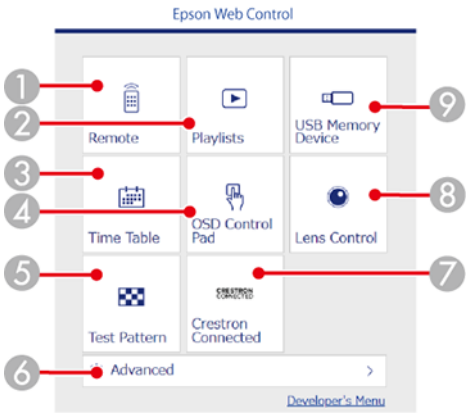
When Content Playback mode is turned on in the Settings menu, you can select projector settings, control projection, and edit playlists using a web browser.

Note: You can also control the projector using a web browser through the Epson iProjection app.

Note: Do not remove any USB device connected to the projector or unplug the power cord when the Playlists or USB Memory Device screen is displayed; data saved on the USB device may be damaged.

1. Make sure the projector is operating in **Content Playback** mode.
2. Make sure the projector is turned on and your computer or device is connected to the same network as the projector.
3. Start your web browser on the computer or device.
4. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

You see the Epson Web Control screen.



1 Controls the projector remotely
2 Selects the playlist you want to play and allows you to create or edit playlists
3 Opens the Time Table screen
4 Operates the projector's menus with your finger or a mouse
5 Displays a test pattern
6 Opens detailed projector settings
7 Opens the Crestron Connected window (available when Crestron Connected is turned on)
8 Operates the projector's lens
9 Registers or deletes playlist data on the USB device

5. Select the option corresponding to the projector function you want to control.

Note: You may need to log in to access some of the options on the Web Control screen. If you see a login window, enter your user name and password. (The default user name is **EPSONWEB** and the default password is not set.)

Web Control Options in Content Playback Mode

Parent topic: Monitoring and Controlling the Projector

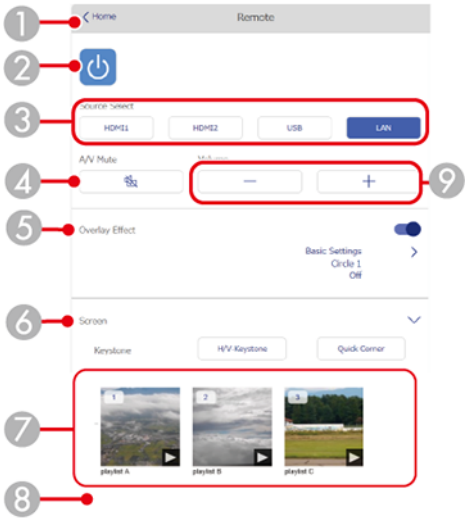
Related references

Network Menu

Web Control Options in Content Playback Mode

Remote

Note: If the Remote Password is set to **On**, you need to enter your user name and password. (The default username is **EPSONREMOTE**. No password is set by default.)



1 Returns to the **Epson Web Control** screen

2 Turns the projector on or off

3 Selects the input source (available sources vary depending on projector model)

4 Turns the video and audio on or off temporarily

5 Turns **Overlay Effect** on or off to add color and shape effects to a playlist

When on, the **Effects** screen is displayed

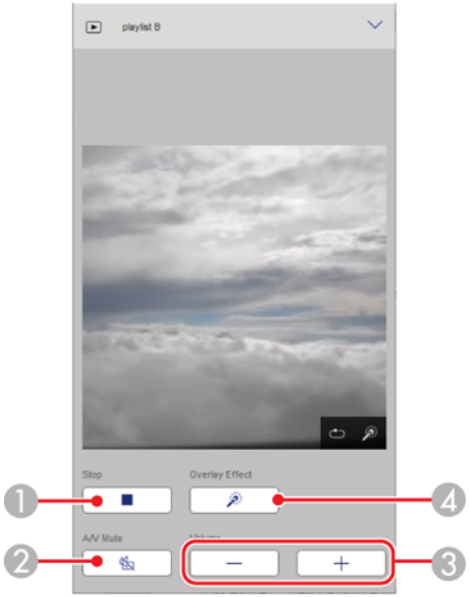
6 Displays the screen settings

7 Displays your favorite playlists

8 Displays playlist information

9 Adjusts the speaker volume

Screen displayed while projecting playlist



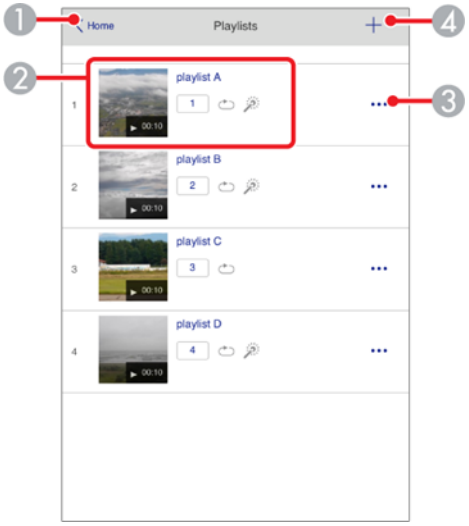
1 Stops projection

2 Turns the video and audio on or off temporarily, however, the audio and video continue to run so you cannot resume projection at the point you activated this function

3 Adjusts the speaker volume

4 Displays the **Effects** screen; you can select preset effects or select individual brightness, color, and shape effect filters

Playlists



1 Returns to the **Epson Web Control** screen

2 Controls playback of the playlist

3 Edits, copies, or deletes the playlist

4 Creates a new playlist

Create or Edit Playlist



1 Edits the playlist name

2 Enables repeat playback

3 Adds the playlist to your favorites list

4 Displays the images or movies in the order that they will be played

5 Adds items to the playlist

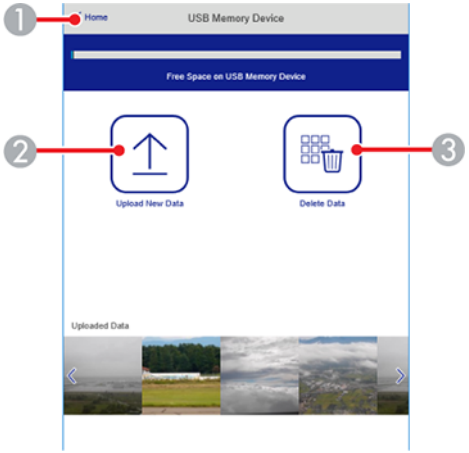
6 Deletes items from the playlist

7 Opens the **Switch Image** screen (specifies the time before the projector switches to the next item in the playlist)

8 Opens the **Effects** screen

9 Previews the playlist

USB Memory Device



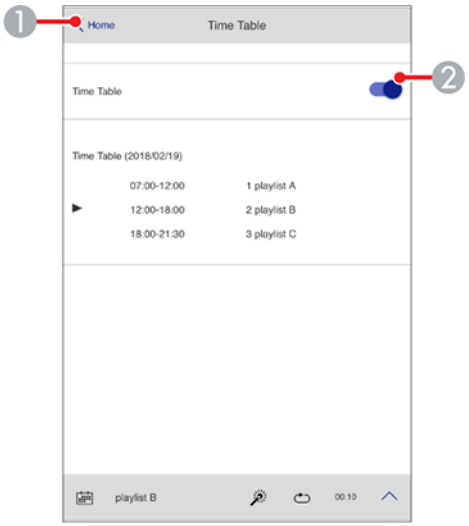
1 Returns to the **Epson Web Control** screen

2 Uploads images or videos to add to playlists on a USB device

3 Deletes images or videos on the USB device

Note: You can upload .avi, .jpeg (.jpg), .png, .bmp, or .gif files using Epson Web Control. If you want to add .mp4 or .mov files to the playlist, use the Epson Projector Content Manager software or the Epson Creative Projection app.

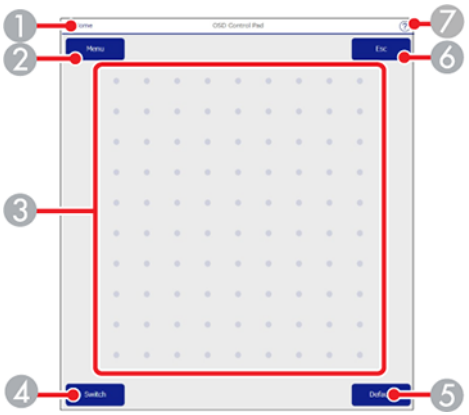
Time Table



1 Returns to the **Epson Web Control** screen

2 Turns the time table on or off (see the online *Epson Projector Content Manager Operation Guide* for more information)

OSD Control Pad



1 Returns to the Epson Web Control screen
2 Displays the projector's setting menus
3 Use your finger or mouse to navigate the menus
4 Switches the operation method to button operation.
5 Resets the selected setting to its default value.
6 Returns to the previous menu
7 Displays help topics

Note: You cannot change some settings using Epson Web Control.

Parent topic: Controlling a Networked Projector in Content Playback Mode

Secure HTTP

You can use the HTTPS protocol to increase security between the projector and a web browser communicating with it. To do this, you create a server certificate, install it on the projector, and turn on the **Secure HTTP** setting in the projector menus to verify the reliability of the web browser (**Network** > **Network Configuration** > **Others** > **Secure HTTP**).

Even if you do not install a server certificate, the projector automatically creates a self-signed certificate and allows communication. However, because the self-signed certificate cannot verify reliability from a web browser, you see a warning about the server's reliability when you access the projector from a web browser. This warning does not prevent communication.

Importing a Web Server Certificate Using the Projector Menus
Digital Certificate Types

Parent topic: Monitoring and Controlling the Projector

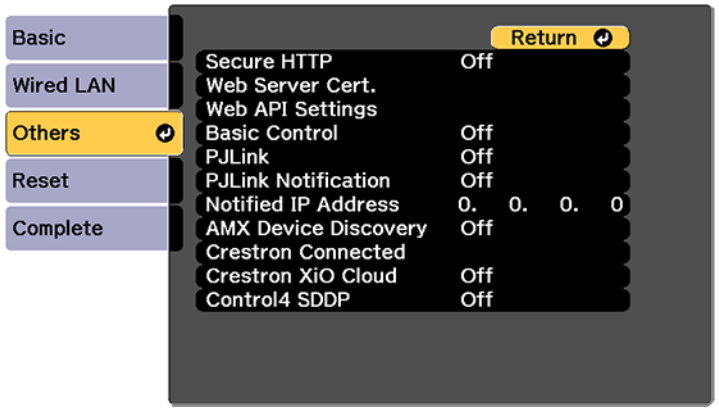
Related references
Network Menu

Importing a Web Server Certificate Using the Projector Menus

You can create your web server certificate and import it using the projector menus and a USB flash drive.

Note: You can also register digital certificates from your web browser. Make sure to only register once, or the certificate may not install correctly.

1. Make sure your digital certificate file is compatible with projector registration and saved in the root directory of the USB flash drive.
2. Press the **Menu** button on the remote control.
3. Select the **Network** menu and press **Enter**.
4. Select the **Network Configuration** setting and press **Enter**.
5. Select the **Others** menu and press **Enter**.



6. Select **On** as the **Secure HTTP** setting.
7. Select the **Web Server Cert.** setting and press **Enter**.
8. Select **Register** and press **Enter**.
9. Insert a USB flash drive into the projector's **USB-A** port.
10. Press **Enter** to display the certificate list.
11. Select the certificate you want to import from the displayed list.

    A message is displayed prompting you to enter the password for the certificate.
12. Enter the password and press **Enter**.

    The certificate is imported and a completion message appears.

Parent topic: Secure HTTP

Digital Certificate Types

You can register these types of digital certificates.

Web Server Certificate (Secure HTTP)

Specification	Description
Format	PKCS#12
Extension	PFX, P12
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Common name	Network host name
Organization	Optional
Password	Up to 64 alphanumeric characters; required

Note: You can set a password of up to 64 characters if you use a web browser to enter the text.

Parent topic: Secure HTTP

Using Basic Projector Features

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

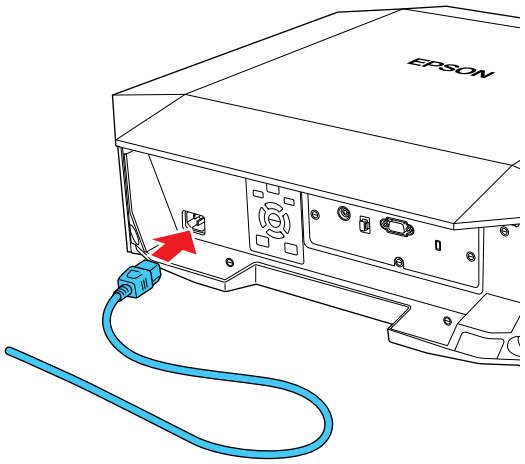
Turning On the Projector
Turning Off the Projector
Selecting the Language for the Projector Menus
Setting the Date and Time
Adjusting the Image Position Using Lens Shift
Image Shape
Resizing the Image with the Zoom Button
Focusing the Image Using the Focus Buttons
Remote Control Operation
Selecting an Image Source
Displaying a Test Pattern
Projection Modes
Image Aspect Ratio
Color Mode
Adjusting Image Sharpness
Adjusting the Projector's Brightness Level
Adjusting Luminance Controls
Turning On Dynamic Contrast
Adjusting the Color Temperature
Adjusting Gamma
Adjusting the Hue, Saturation, and Brightness
Controlling the Volume with the Volume Buttons
Projecting in Content Playback Mode

Turning On the Projector

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

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.



Note: Be sure to ground the power plug using a ground wire or 3-core power plug.

3. Plug the power cord into an electrical outlet.

   The projector's power light turns blue. This indicates that the projector is receiving power.

   Note: With **Direct Power On** turned on, the projector turns on as soon as you plug it in. If you enable the **Auto Power On** setting in the projector's Operation menu, the projector turns on when it detects a signal or cable connection from the selected port.

4. Press the **On** button on the projector or remote control to turn on the projector.

   The status light flashes blue as the projector warms up. Once 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 and light that is reflected back into the lens can cause the projector to malfunction. Use the A/V Mute function, or turn off the projector to stop projection.

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 projector or the **Search** button on the remote control to detect the video source.
- Change the screen output from the computer when using a laptop.
- Press the button for the video source on the remote control.

Parent topic: Using Basic Projector Features

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.

1. Press the **Standby** button on the projector or remote control.
2. If you see a shutdown confirmation screen, press the **Standby** button on the projector or remote control again. (To leave the projector on, press any other button.)

   The projector beeps twice, the laser turns off, and the Status light turns off.

   Note: With Epson's Instant Off technology, there is no cool-down period so you can pack up the projector for transport right away (if necessary).

   Note: If the **Light Source Calibration** setting is set to **Run Periodically** in the projector's Reset menu, light source calibration starts automatically if you turn off the projector and the following conditions are present:

   - 100 hours have passed since the last light source calibration.
   - You have used the projector continuously for at least 20 minutes.

3. To transport or store the projector, make sure the Status light is off, then unplug the power cord.

Parent topic: Using Basic Projector Features

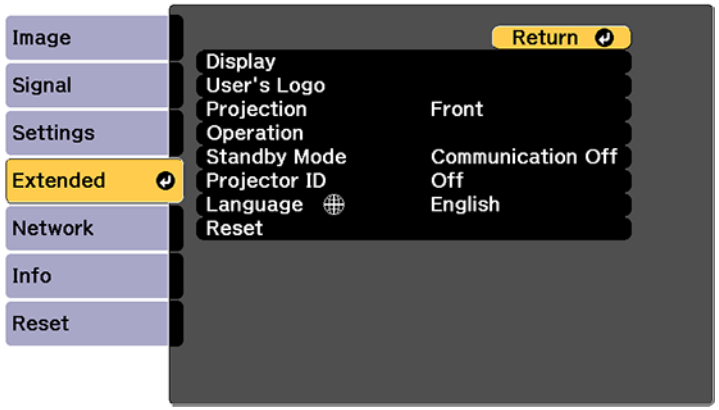
Related tasks

Running Light Source Calibration

Selecting the Language for the Projector Menus

If you want to view the projector's menus and messages in another language, you can change the Language setting.

1. Turn on the projector.
2. Press the **Menu** button on the projector or remote control.
3. Select the **Extended** menu and press **Enter**.



4. Select the **Language** setting and press **Enter**.
5. Select the language you want to use and press **Enter**.
6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

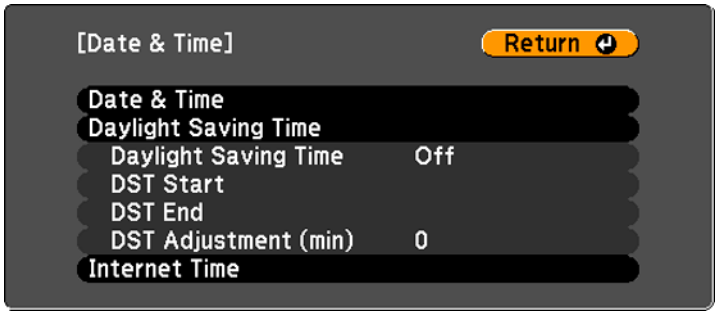
Setting the Date and Time

You can set the date and time for the projector.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Operation** setting and press **Enter**.

4. Select the **Date & Time** setting and press **Enter**.

   You see a screen like this:



5. Select the **Daylight Saving Time** setting and set it to **On**. Select your daylight saving settings. Then select **Set** and press **Enter** to confirm your changes.
6. To update the time automatically from an internet time server, select the **Internet Time** setting and press **Enter**.
7. Enter the IP address of the internet time server. Select **Set** and press **Enter** to confirm your changes.
8. When you are finished, press the **Menu** button to exit.

Parent topic: Using Basic Projector Features

Adjusting the Image Position Using Lens Shift

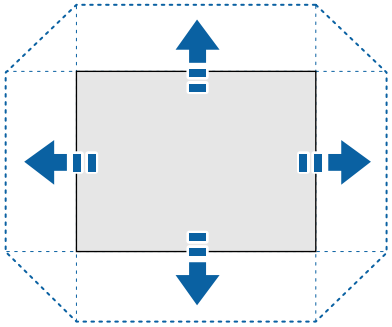
If you cannot install the projector directly in front of the screen, you can adjust the position of the projected image using the lens shift feature.

Caution: When shifting the lens, do not put your hands near the lens unit. Your fingers may get caught between the lens unit and the projector, and cause an injury.

Note: Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy.

1. Turn on the projector and display an image.

2. Press the arrow buttons on the remote control or the control panel to adjust the position of the projected image as necessary.



The distance the image can be shifted varies depending on the installed lens. The limits are described in the following table. You can shift the image up to the listed percentage of the image height or width.

Lens	Vertical	Horizontal
ELPLX02S ELPLX02WS	+45%~75%	±13%
ELPLU03S ELPLW05	±25%	±8%
ELPLU04 ELPLW06 ELPLW08 ELPLM10 ELPLM11 ELPLM15 ELPLL08	±64%	±16%

3. When you are finished, press the **Esc** button on the control panel or remote control.

Note: When adjusting the image height, position the image lower than where you want it to be and then move it up. This will help prevent the image from moving down after adjustment. The image is clearest when the lens is in the home position. To move the lens to the home position, press and hold the **Lens Shift** button on the remote control or the **Lens** button on the control panel for at least three seconds.

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.

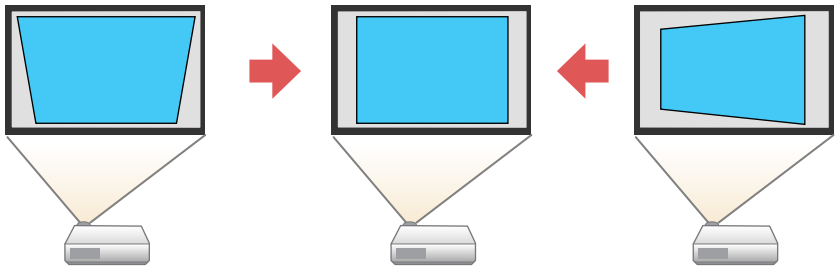
Correcting Image Shape with H/V-Keystone
Correcting Image Shape with Quick Corner
Correcting Image Shape with Curved Surface
Correcting Image Shape with Corner Wall
Correcting Image Shape with Point Correction

Parent topic: Using Basic Projector Features

Related references
Settings Menu

Correcting Image Shape with H/V-Keystone

You can use the projector's **H/V-Keystone** setting to correct the shape of an image that is unevenly rectangular on the sides.

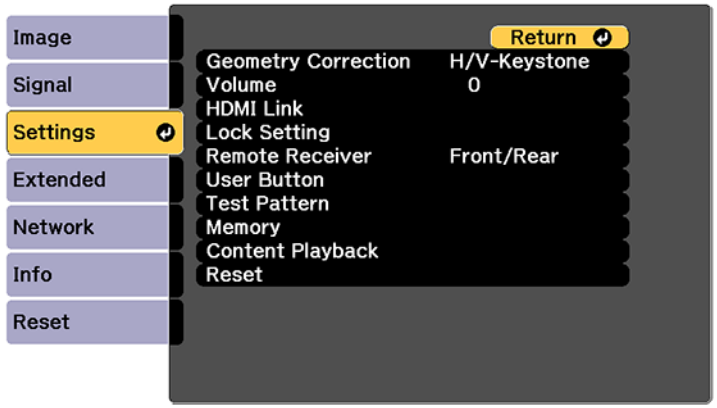


Note: You cannot combine H/V-Keystone correction with other image shape correction methods.

1. Turn on the projector and display an image.

   Note: You can also display a test pattern using the **Test Pattern** button on the remote control or the test pattern/down arrow button on the control panel.

2. Press the **Menu** button.
3. Select the **Settings** menu and press **Enter**.



4. Select the **Geometry Correction** setting and press **Enter**.

   Note: You can also open the geometric adjustment screen using the **Geometry** button on the remote control or the Geometry Correction/up arrow button on the control panel.

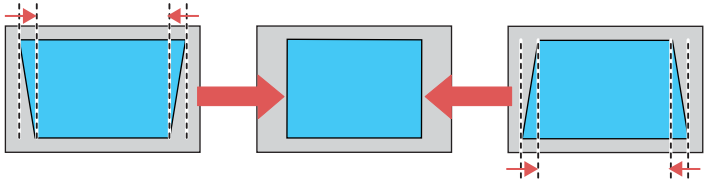
5. Select the **H/V-Keystone** setting and press **Enter**. Then press **Enter** again.

   You see the H/V-Keystone adjustment screen:

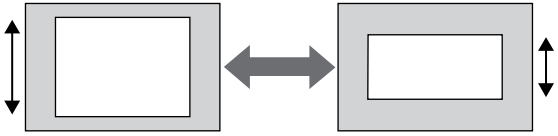


6. Use the arrow buttons on the projector or the remote control to select between vertical and horizontal keystone or balance correction and to adjust the image shape as necessary.

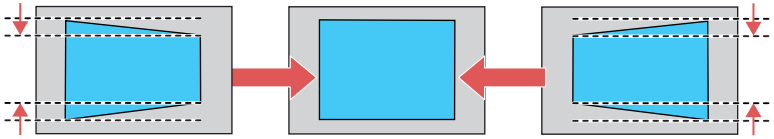
V-Keystone



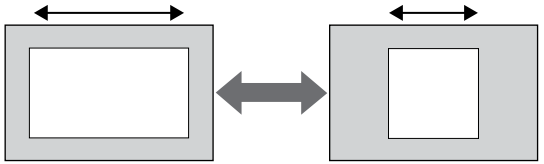
V-Balance



H-Keystone



H-Balance



7. When you are finished, press **Esc**.

   After correction, your image is slightly smaller.

Parent topic: Image Shape

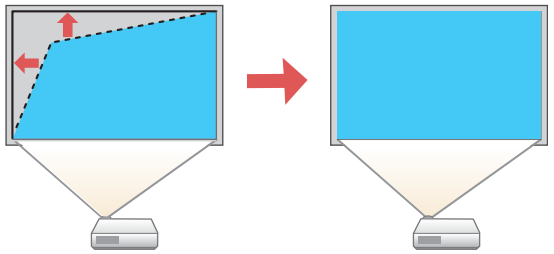
Related references

Settings Menu

Correcting Image Shape with Quick Corner

You can use the projector's Quick Corner setting 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 Quick Corner setting to correct the image shape.

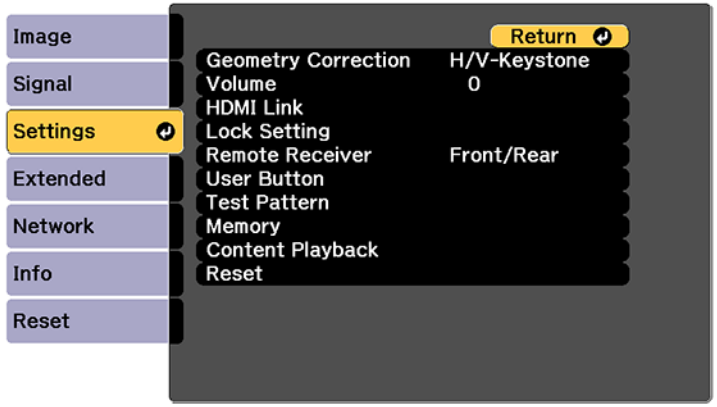


1. Turn on the projector and display an image.

   Note: You can also display the pattern by pressing the **Test Pattern** button on the remote control or the test pattern/down arrow on the control panel.

2. Press the **Menu** button.

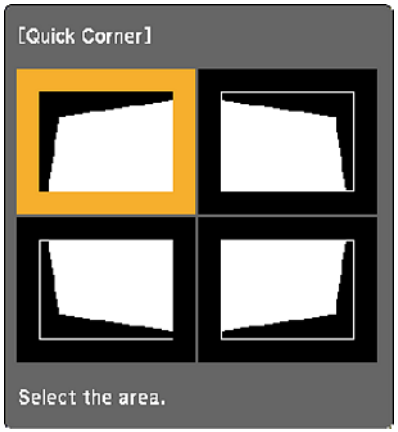
3. Select the **Settings** menu and press **Enter**.



Note: You can also press the **Geometry** button on the remote control to display the Geometry Correction screen.

4. Select the **Geometry Correction** setting and press **Enter**.
5. Select the **Quick Corner** setting and press **Enter**. Then press **Enter** again.

   You see the Quick Corner adjustment screen:



6. Use the arrow buttons on the projector or remote control to select the corner of the image you want to adjust. Then press **Enter**.

   Note: To reset your adjustments, press and hold the **Esc** button for at least 2 seconds to display a reset screen. Then select **Yes**.

7. Press the arrow buttons to adjust the image shape as necessary. Press **Enter** to return to the area selection screen.
8. When you are finished, press **Esc**.

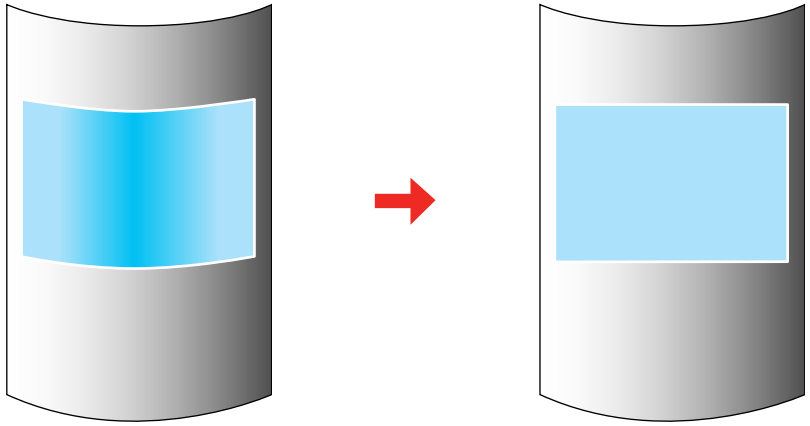
Parent topic: Image Shape

Related references

Settings Menu

Correcting Image Shape with Curved Surface

You can use the projector's Curved Surface setting to adjust the shape of an image projected on a curved surface.



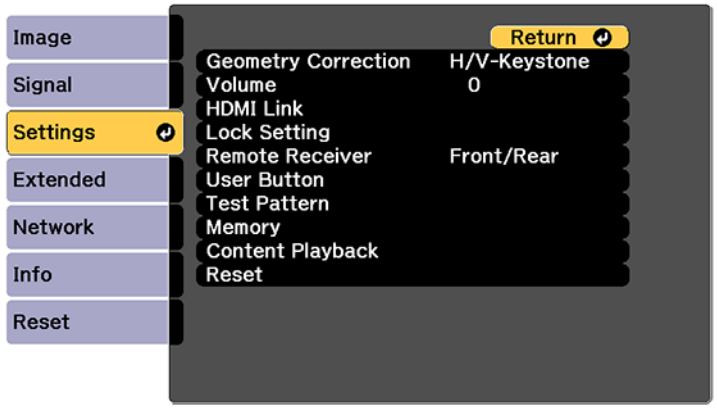
Note: For the best results, project from the front of the screen onto a surface with a uniform arc radius and with the lens in the home position.

1. Turn on the projector and display an image.

   Note: You can display a pattern to aid in adjusting the projected image using the Settings menu.

   Note: You can also display the pattern by pressing the **Test Pattern** button on the remote control or the test pattern/down arrow on the control panel.

2. Press the **Menu** button.
3. Select the **Settings** menu and press **Enter**.

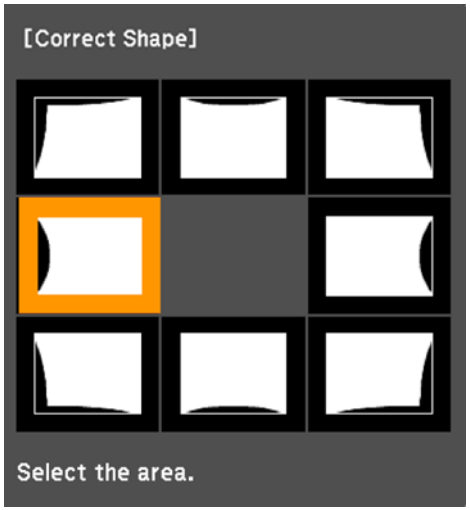


4. Select the **Geometry Correction** setting and press **Enter**.
5. Select the **Curved Surface** setting and press **Enter**.

   Note: If you see a confirmation message, press **Enter**.

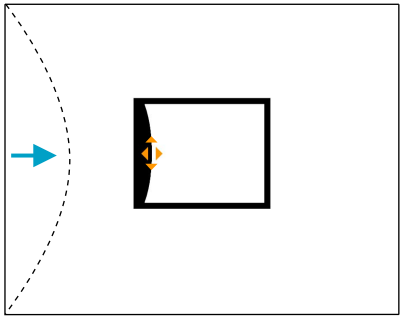
6. Select the **Correct Shape** setting and press **Enter**.

7. Use the arrow buttons on the projector or the remote control to select the area you want to adjust. Then press ↵ **Enter**.



Note: To reset your adjustments, press and hold the **Esc** button for at least 2 seconds to display a reset screen. Then select **Yes**.

8. Use the arrow buttons on the projector to adjust the image shape.

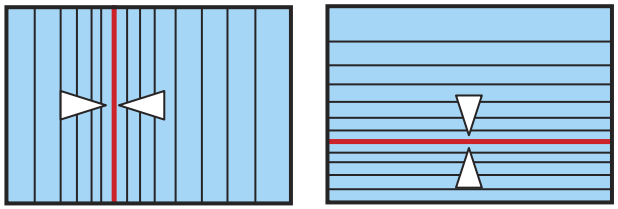


Note: If the adjustment triangle turns gray, you cannot adjust the shape any further in that direction.

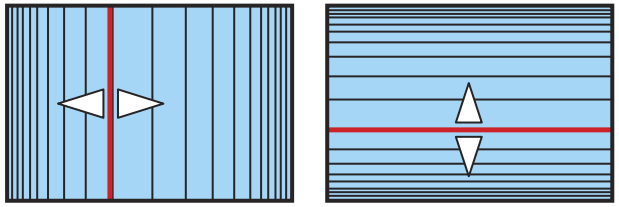
9. Press the **Esc** button to return to the Curved Surface menu screen.
10. Repeat the previous three steps as necessary to adjust other image areas.

    If the image expands or contracts, continue with the next step to adjust the linearity.
11. Select one of the following from the Curved Surface menu screen:
    - **Horizontal Linearity**: Adjusts horizontal expansion or contraction.
    - **Vertical Linearity**: Adjusts vertical expansion or contraction.
12. Select a displayed line to use as a baseline and press ↵ **Enter**.

    The selected baseline flashes orange and white.
13. Adjust the linearity by doing one of the following:
    - Press the left arrow button to contract the distance between the lines closest to the baseline.



    - Press the right arrow button to expand the distance between the lines closest to the baseline.



14. When you are finished, press the **Menu** button.

Note: If necessary, you can adjust the image tilt using the **Quick Corner** setting, then fine-tune your adjustments using the **Point Correction** setting.

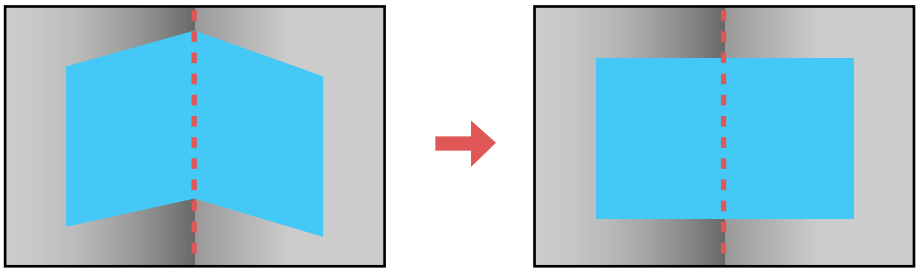
Parent topic: Image Shape

Related references

Settings Menu

Correcting Image Shape with Corner Wall

You can use the projector's Corner Wall setting to adjust the shape of an image projected on a surface with right angles, such as a rectangular pillar or the corner of a room.



Note: For the best results, move the lens position to the home position and adjust the image shape based on the point nearest to the center of the screen. If a large amount of adjustment is performed, the focus may not be uniform even after making adjustments.

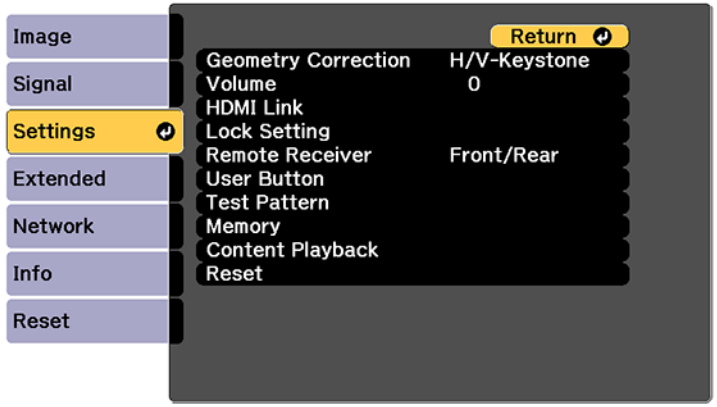
1. Turn on the projector and display an image.

   Note: You can display a pattern to aid in adjusting the projected image using the Settings menu.

   Note: You can also display the pattern by pressing the **Test Pattern** button on the remote control or the test pattern/down arrow button on the control panel.

2. Press the **Menu** button.

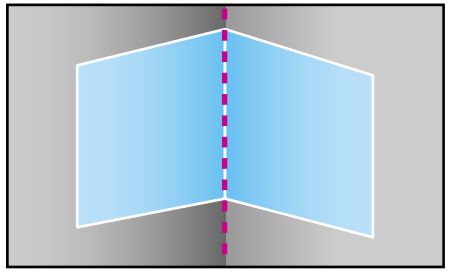
3. Select the **Settings** menu and press **Enter**.



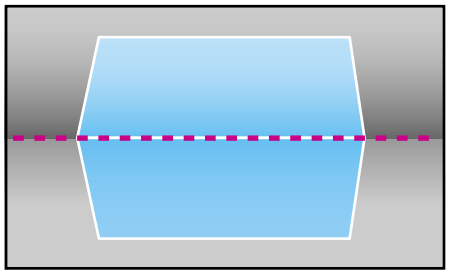
4. Select the **Geometry Correction** setting and press **Enter**.
5. Select the **Corner Wall** setting and press **Enter**.

   Note: If you see a confirmation message, press **Enter**.

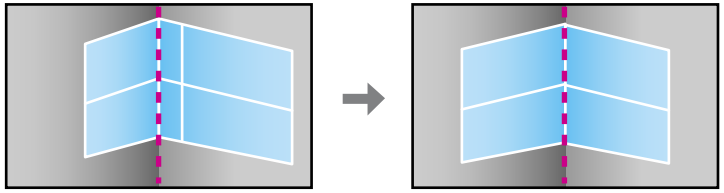
6. Select the **Corner Type** setting and press **Enter**.
7. Select one of the following:
   - **Horizontal Corner** when the surfaces line up horizontally



- **Vertical Corner** when the surfaces line up vertically

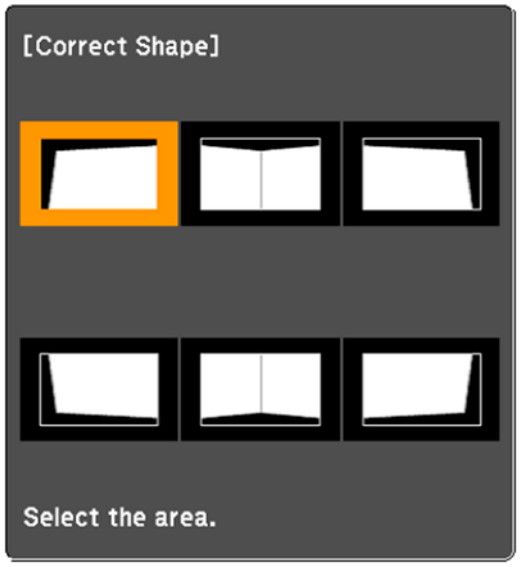


8. Press the **Esc** button to return to the Corner Wall menu screen.
9. Select the **Correct Shape** setting and press ↵ **Enter**.
10. Adjust the projector's position and use lens shift to center the image over the point where the two surfaces meet. (The rest of these steps show Horizontal Corner as the selected Corner Type but the steps are the same for Vertical Corner.)

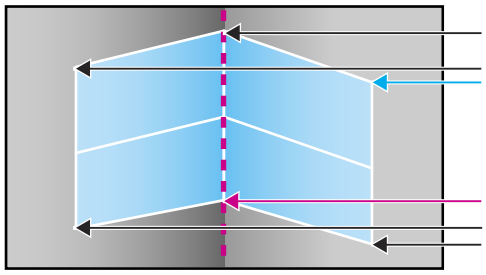


Note: You can press ↵ **Enter** to show or hide the image and grid to check the results.

11. Press the arrow buttons on the projector or the remote control to select the area you want to adjust. Then press **Enter**.



- For horizontal corners, adjust the top area using the lowest point (indicated by the blue arrow) as your reference. Adjust the lower area using the highest point (indicated by the pink arrow) as your reference.

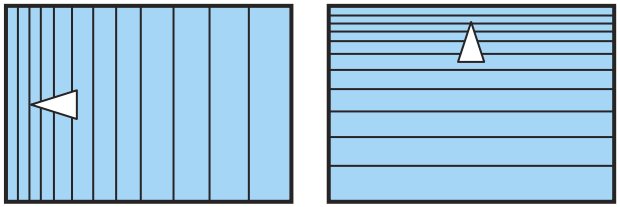


- For vertical corners, adjust the left and right areas using the points nearest the center of the image as your reference points.

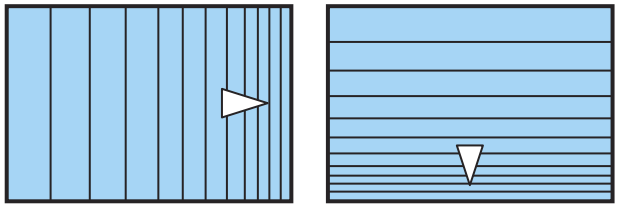
Note: To reset your adjustments, press and hold the **Esc** button for at least 2 seconds to display a reset screen. Then select **Yes**.

12. Press and hold the arrow buttons on the projector or remote control to adjust the image shape.
13. Repeat the previous two steps as necessary to adjust other image areas.

    If the image expands or contracts, continue with the next step to adjust the linearity.
14. Press the **Esc** button to return to the Corner Wall screen.
15. Select the **Linearity** setting and press ↵ **Enter**.
16. Adjust the linearity by doing the following as necessary:
    - Press and hold the left arrow button to contract the distance between the lines closest to the left or top of the image.



    - Press and hold the right arrow button to contract the distance between the lines closest to the right or bottom of the image.



17. When you are finished, press the **Menu** button.

Note: If necessary, you can adjust the image tilt using the **Quick Corner** setting, then fine-tune your adjustments using the **Point Correction** setting.

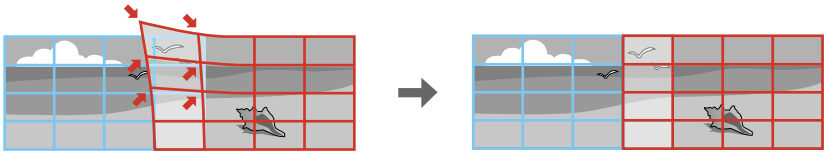
Parent topic: Image Shape

Related references

Settings Menu

Correcting Image Shape with Point Correction

You can use the projector's Point Correction feature to fine-tune the image shape using points on a grid. This is useful for adjusting overlapping areas in multiple projected images that do not line up correctly.



Note: You can move the points on the grid between 0.5 to 600 pixels in any direction.

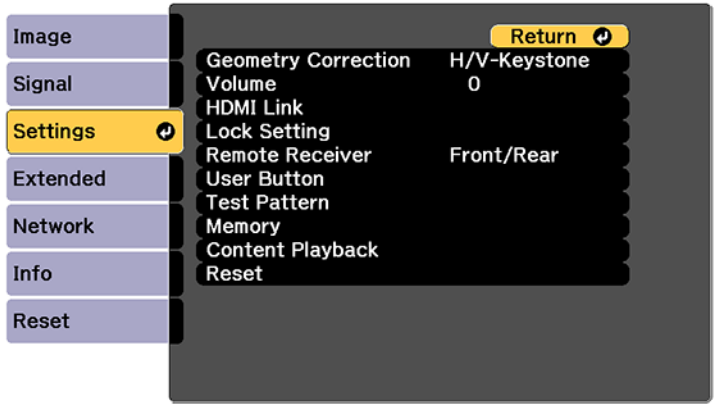
1. Turn on the projector and display an image.

   Note: You can display a pattern to aid in adjusting the projected image using the Settings menu.

   Note: You can also display the pattern by pressing the **Test Pattern** button on the remote control or the test pattern/down arrow button on the control panel.

2. Press the **Menu** button.

3. Select the **Settings** menu and press **Enter**.



4. Select the **Geometry Correction** setting and press **Enter**.
5. Select the **Point Correction** setting and press **Enter**.

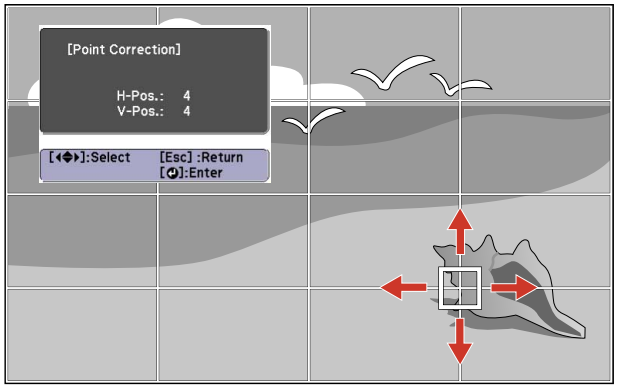
   Note: If you see a confirmation message, press **Enter**.

6. Select the **Point Correction** setting and press **Enter**.
7. Select the number of grid lines to display and press **Enter**.

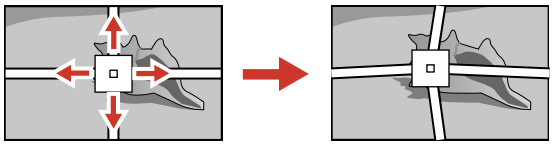
   Note: If you need to change the color of the grid lines, select the **Pattern Color** setting and select a suitable color.

8. Press the arrow buttons on the projector or remote control to move to the point on the grid that you want to adjust. Then press **Enter**.

The box changes from a single line to a double-lined square.



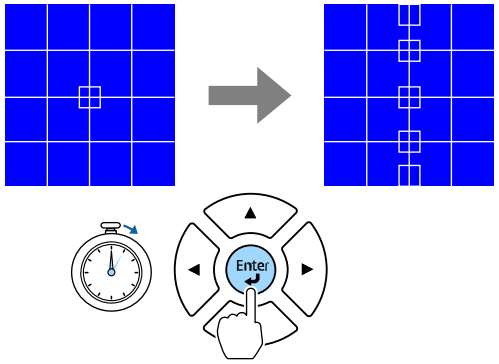
9. Press the arrow buttons to correct the image shape in all necessary directions.



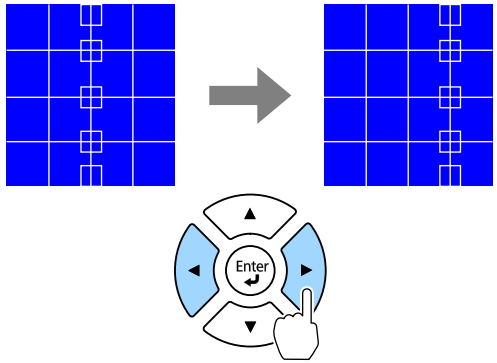
Note: You can press ↵ **Enter** to show or hide the image and grid to check the results.

10. Press **Esc** to return to the previous screen and select another point to correct, if necessary.

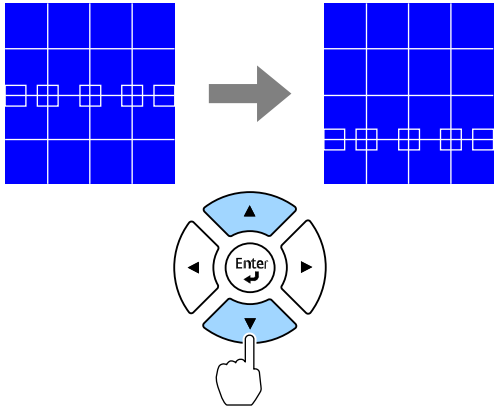
11. Hold down the **Enter** button to switch to the mode that corrects all points in a specified vertical column or horizontal row at once.



12. Use the left and right arrow buttons to select the column you want to adjust, then press **Enter**.



13. Use the up and down arrow buttons to select the row you want to adjust, then press **Enter**.



14. When you are finished, press the **Menu** button.

Parent topic: Image Shape

Related references

Settings Menu

Resizing the Image with the Zoom Button

You can adjust the size of the image using the zoom buttons. Zoom is not available for the ELPLX02 and ELPX02WS lenses.

Note: Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy.

1. Turn on the projector and display an image.
2. Press the **Lens** button on the control panel repeatedly until the zoom adjustment screen appears, or press the **Zoom** button on the remote control.
3. Press and hold the arrow buttons on the projector's control panel or remote control to resize the image.
4. Press the **Esc** button when finished.

Parent topic: Using Basic Projector Features

Focusing the Image Using the Focus Buttons

You can adjust the sharpness of the projected image using the focus buttons on the remote control.

Note: Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy. If you installed an optional short throw lens, see the link below on focusing with a short throw lens instead.

1. Turn on the projector and display an image.
2. Press the **Lens** button on the control panel repeatedly until the focus adjustment screen appears, or press the **Focus** button on the remote control.
3. Press and hold the arrow buttons on the projector's control panel or remote control to adjust the focus. Press the left and right arrow buttons to adjust the focus.
4. Press the **Esc** button when finished.

Note: You can also press the **Focus +** or **–** buttons on the remote control to adjust the focus.

Focusing the Image When Using an Optional Short Throw Lens

Parent topic: Using Basic Projector Features

Focusing the Image When Using an Optional Short Throw Lens

If you installed an optional short throw lens (ELPLX02S, ELPLX02WS, ELPLU03S, or ELPLU04), you may need to first focus on the center of your screen and then correct any distortion in the surrounding area.

1. Turn on the projector and display an image.
2. Press the **Focus** button on the remote control or press the **Lens** button on the control panel repeatedly until the focus adjustment screen appears.
3. Press the left or right arrow buttons until the center of the image is focused.
4. Press the **Distortion** button on the remote control.
5. Press the left or right arrow buttons until the edges of the image are also focused.

   Note: You can also press the **Focus +** or **–** button on the remote control to focus the center of your image. Then use the **Distortion +** or **–** button to adjust the edges of the image.

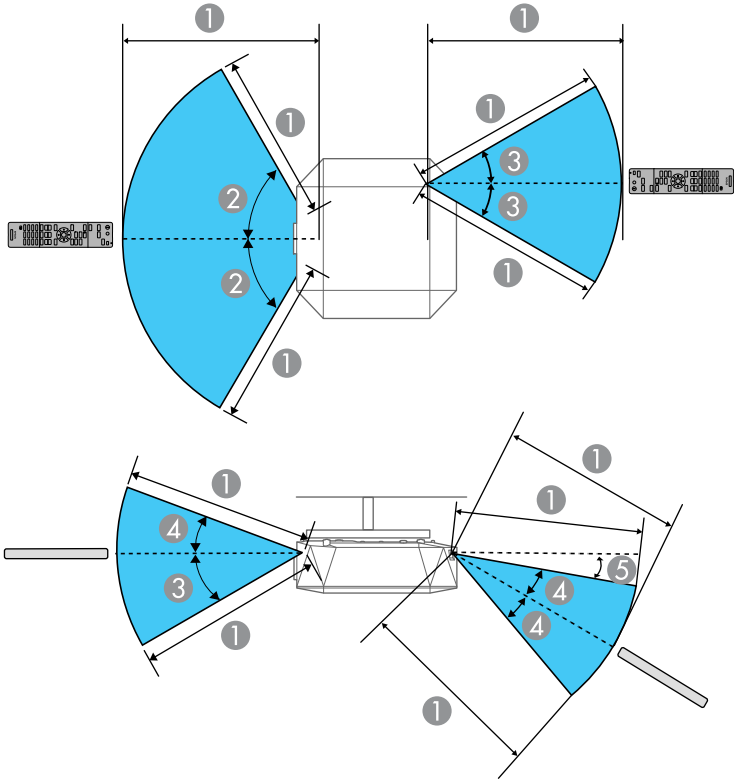
Note: Your projector operates in 4K display using shift technology. If you have difficulty adjusting the focus or the image distortion, press the ↵ **Enter** button on the remote control to select **4K** or **Full HD**.

Parent topic: Focusing the Image Using the Focus Buttons

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 32 feet (10 m) away. You can point it at the front or rear of the projector.

Make sure that you aim the remote control at the projector's receivers within the angles listed here.



Note: Depending on your installation environment, the available distance and angles may be shortened.

1	32.8 feet (10 m)
2	60°
3	30°
4	20°
5	10°

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

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. Do one of the following:
   - Press the **Source Search** button on the projector or press the **Search** button on the remote control until you see the image from the source you want.
   - Press the button for the source you want on the remote control. If there is more than one port for that source, press the button again to cycle through the sources.

Parent topic: Using Basic Projector Features

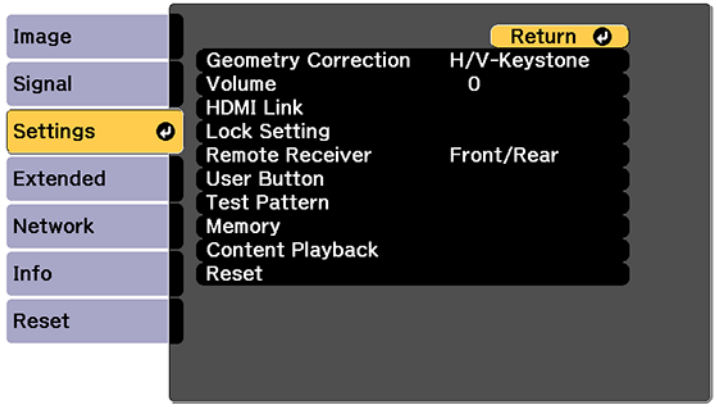
Displaying a Test Pattern

You can display a test pattern to adjust the projected image without connecting a computer or video device.

Note: Some menu options may be unavailable when displaying a test pattern and you may need to project from a connected device to change these settings.

1. Turn on the projector.
2. Press the **Menu** button on the remote control.

3. Select the **Settings** menu and press **Enter**.



4. Select the **Test Pattern** setting and press **Enter**.

   Note: You can also display a test pattern using the **Test Pattern** button on the remote control or the test pattern/down arrow on the control panel.

5. Select the pattern you want to display and press **Enter**.

   A test pattern is displayed.

6. Adjust the image as necessary.
7. Press **Esc** to clear the test pattern.

Parent topic: Using Basic Projector Features

Related references

Settings Menu

Projection Modes

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

- **Front** (default setting) lets you project from a table in front of the screen.
- **Front/Ceiling** flips the image over top-to-bottom to project upside-down from a ceiling or wall mount.
- **Rear** flips the image horizontally to project from behind a translucent screen.

- **Rear/Ceiling** flips the image over top-to-bottom and horizontally to project from the ceiling and behind a translucent screen.

Note: You can change the projection mode using the remote control or by changing the **Projection** setting in the Extended menu.

Changing the Projection Mode Using the Remote Control
Changing the Projection Mode Using the Menus

Parent topic: Using Basic Projector Features

Changing the Projection Mode Using the Remote Control

You can change the projection mode to flip the image over top-to-bottom.

1. Turn on the projector and display an image.
2. Hold down the **Shutter** button on the remote control for 5 to 10 seconds.

   The image disappears briefly and reappears flipped top-to-bottom.
3. To change projection back to the original mode, hold down the **Shutter** button for 5 to 10 seconds again.

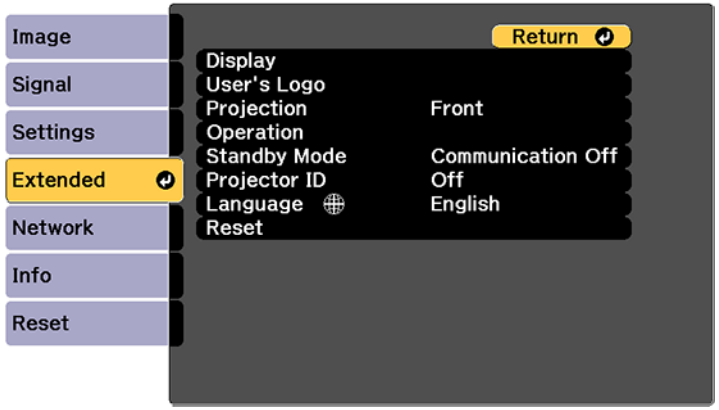
Parent topic: Projection Modes

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 **Menu** button.

3. Select the **Extended** menu and press **Enter**.



4. Select the **Projection** setting and press **Enter**.
5. Select a projection mode and press **Enter**.
6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Projection Modes

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 **Signal** menu.

Changing the Image Aspect Ratio
Available Image Aspect Ratios

Parent topic: Using Basic Projector Features

Related references

Signal Menu

Changing the Image Aspect Ratio

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

2. Select the menu and press **Enter**.
3. Select **Aspect** and press **Enter**.
4. Select the aspect ratio you want to use for your input signal and press **Enter**.

Parent topic: Image Aspect Ratio

Available Image Aspect Ratios

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

Note: Selecting an aspect ratio other than the ratio from the input signal may distort the projected image. 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 ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal and the Resolution setting (this setting is recommended in most cases).
Full	Displays images using the full width of the projection area, but does not maintain the aspect ratio and can distort the image.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image, but can cut off parts of the image.
Anamorphic Wide	Displays images that have a 2.40:1 aspect ratio when using a commercially available anamorphic lens. Set the **Overscan** setting in the projector's Signal menu to **Off** or the image will not display correctly.
Horiz. Squeeze	Displays images using the full width of the projection area when using a commercially available anamorphic lens.

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

Parent topic: Using Basic Projector Features

Related references

Image Menu

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 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 **Color Mode** button on the remote control to change the Color Mode.

   The image appearance changes and the name of the Color Mode appears briefly on the screen.
4. To cycle through all the available Color Modes for your input signal, press the **Color Mode** button repeatedly.

Parent topic: Color Mode

Available Color Modes

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

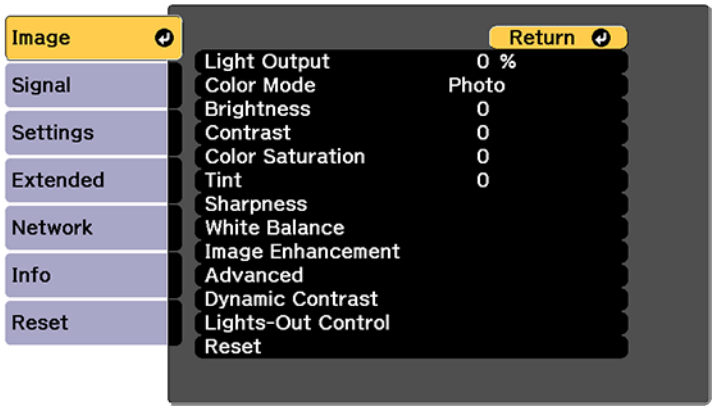
Color Mode	Description
Dynamic	This is the brightest mode; best for projecting in a bright room
Vivid	Best for projecting content with bright colors
Cinema	Gives images a natural tone; best for projecting movies in a dark environment
Natural	Reproduces colors faithfully; best for projecting still pictures such as photos

Parent topic: Color Mode

Adjusting Image Sharpness

You can adjust the outline of an image by adjusting its sharpness.

1. Turn on the projector and display an image.
2. Press the **Menu** button.
3. Select the **Image** menu and press **Enter**.



4. Select the **Sharpness** setting and press **Enter**.
5. Choose from the following options:
   - **Standard**: enhances outlines for the entire image, including the **Thin Line Enhancement** and **Thick Line Enhancement** settings.
   - **Thin Line Enhancement**: enhances details such as hair and clothing patterns
   - **Thick Line Enhancement**: enhances backgrounds and larger elements
6. Use the left and right arrow buttons to adjust the sharpness values.
7. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

Image Menu

Adjusting the Projector's Brightness Level

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

Note: The projector uses a laser as the light source with 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 use the **Light Output** setting to change the relationship between usage time and the decline in brightness.

1. Turn on the projector and switch to the image source you want to use.
2. Press the **Menu** button on the control panel or remote control.
3. Select **Light Output** and use the left and right arrow buttons to adjust the brightness.



Note: Press the **Default** button on the remote control to return to the default setting.

4. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

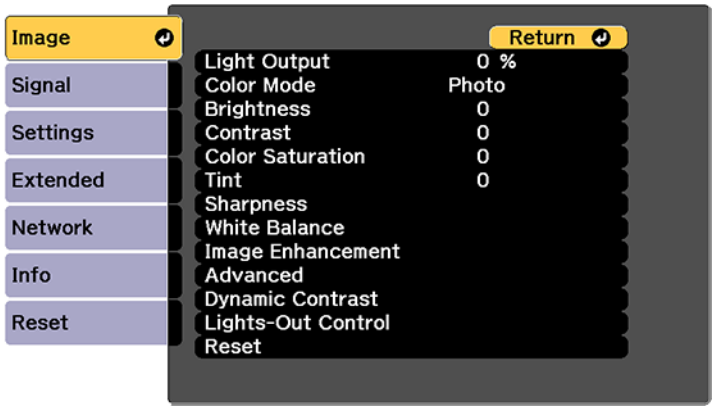
Image Menu

Adjusting Luminance Controls

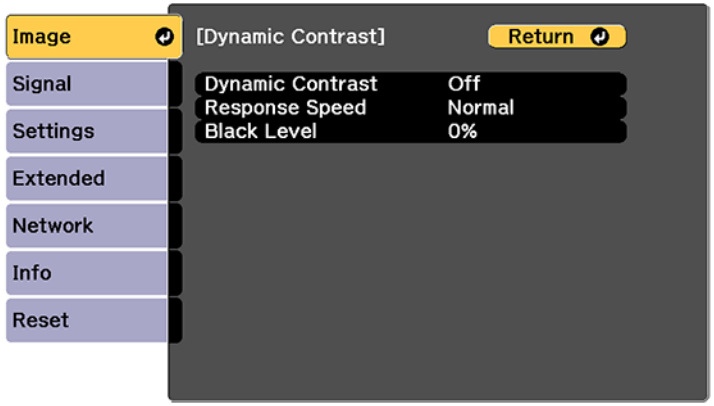
You can automatically optimize the image luminance to improve the image contrast based on the brightness of the content you project. You can also set the light source to turn off automatically after a certain time period while projecting at a specific brightness level.

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

3. Select the **Image** menu and press **Enter**.



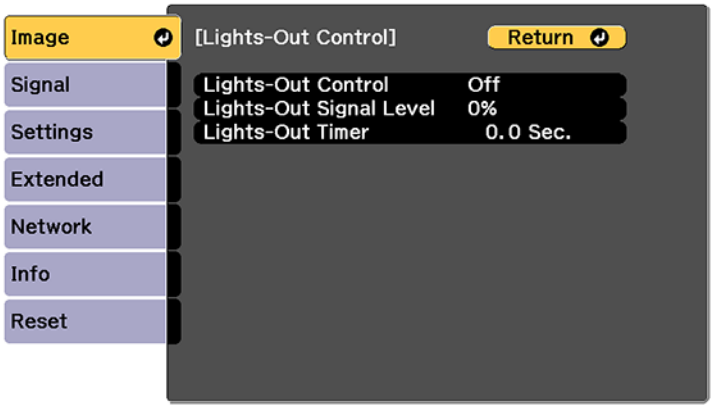
4. To automatically adjust the amount of light based on the brightness of the image, select the **Dynamic Contrast** setting and press **Enter**. Choose from the following options:



- **Dynamic Contrast**: Select **On** to automatically adjust the amount of light according to the brightness of the image.
- **Response Speed**: Select **Normal** to adjust brightness at the standard speed or **High Speed** to adjust brightness as soon as the scene changes.

- **Black Level**: Select the black level you want to project when the brightness level of the image signal is zero. (If you select **0%**, the light source turns off.)

5. Press the **Esc** button to return to the Image menu.
6. To automatically turn off the light source after a certain time has elapsed while projecting at the specified video level, select the **Lights-Out Control** setting and press **Enter**. Choose from the following options:



- **Lights-Out Control**: Select **On** to automatically turn off the light after a certain time has elapsed while projecting at the specified video level.
- **Lights-Out Signal Level**: Select the brightness level for the current video signal. If the brightness level exceeds this level, the light source turns off automatically and then turns back on immediately.
- **Lights-Out Timer**: Select the amount of time before the light source automatically turns off.

7. Press **Menu** to exit the menus.

Parent topic: Using Basic Projector Features

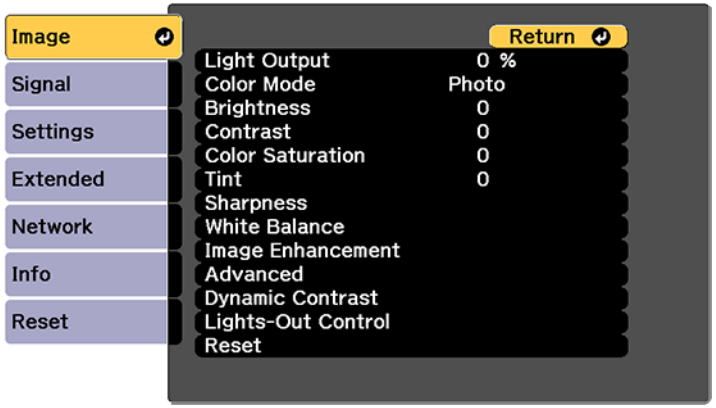
Related references

Image Menu

Turning On Dynamic Contrast

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 **Menu** button on the projector's control panel or remote control.
3. Select the **Image** menu and press **Enter**.



4. Select the **Dynamic Contrast** setting and press **Enter**.
5. Choose one of the following options and press **Enter**:
   - Select **Dynamic Contrast**> **On** to automatically adjust the amount of light.
   - Select **Response Speed** > **High Speed** to adjust the amount of light as soon as the scene changes.
   - Set the **Black Level** when the brightness level of the image signal is zero. When you select 0%, the light source turns off.
6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

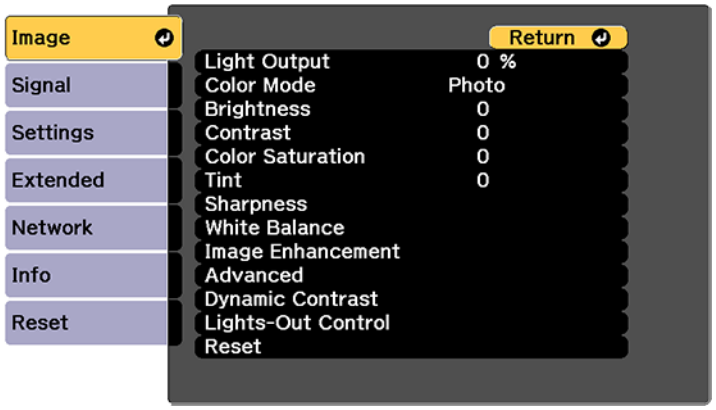
Image Menu

Adjusting the Color Temperature

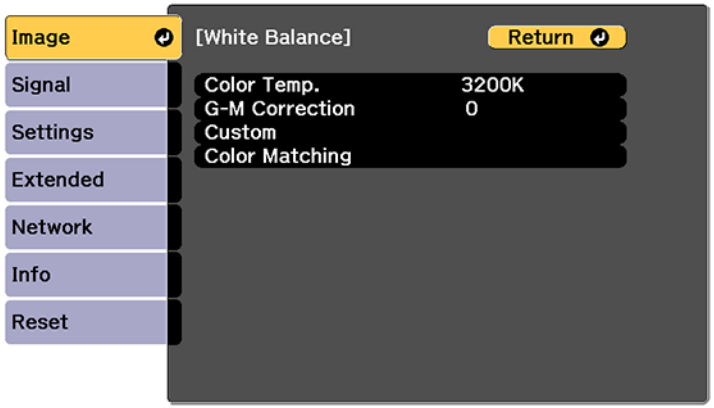
You can change the overall color tone if the image contains a bluish or reddish tone.

1. Turn on the projector and display an image.
2. Press the **Menu** button.

3. Select the **Image** menu and press **Enter**.



4. Select **White Balance** and press **Enter**.
5. Select **Color Temp.** and press **Enter**.



6. Use the left and right arrow buttons to adjust the color temperature. Higher values increase the blue tint, and lower values increase the red tint.

   Note: The temperature range is from 3200 K to 10000 K. Press the **Default** button on the remote control to return to the default setting.

7. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

Image Menu

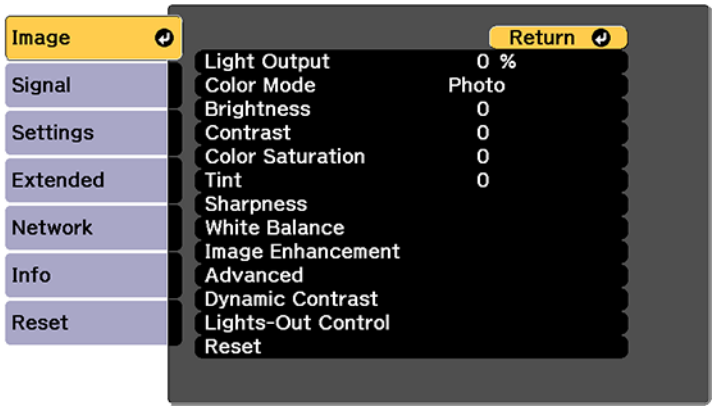
Adjusting Gamma

You can correct differences in projected image colors that occur between different image sources.

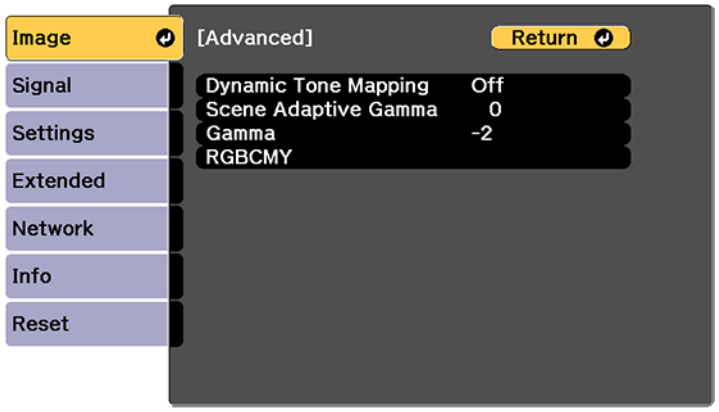
Note: These settings should be set by a professional color calibrator using specialized color calibration tools in a controlled lighting environment.

Note: To optimize the color tone according to the scene and obtain a more vivid image, adjust the **Scene Adaptive Gamma** setting in the projector's Image menu.

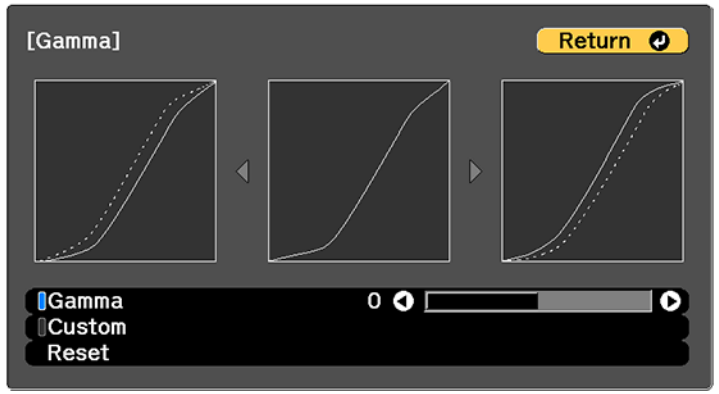
1. Turn on the projector and switch to the image source you want to use.
2. Press the **Menu** button.
3. Select the **Image** menu and press **Enter**.



4. Select **Advanced** and press ↵ **Enter**

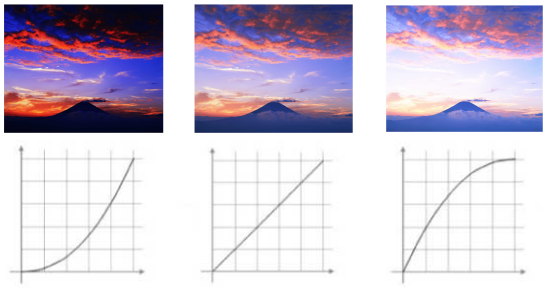


5. Select **Gamma** and press ↵ **Enter**.



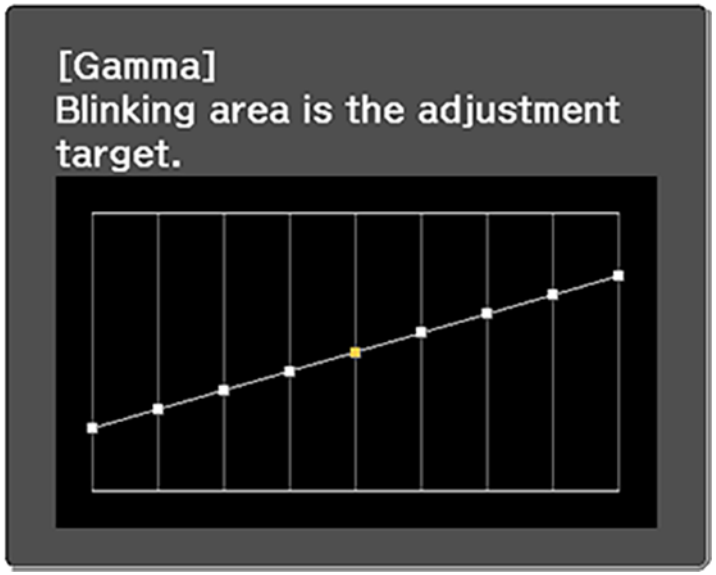
The projected image freezes.

6. Select and adjust the correction value.



When you select a smaller value, you can reduce the overall brightness of the image to make the image sharper. When you select a larger value, the dark areas of images become brighter, but the color saturation for lighter areas may become weaker.

7. If you want to make finer adjustments, select **Custom** and press ↵ **Enter**.



8. Press the left or right arrow button to select the tone you want to change, then press the up or down arrow button to adjust the tone and press **Enter**.

   Note: Select **Reset** to reset the Gamma settings.

9. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

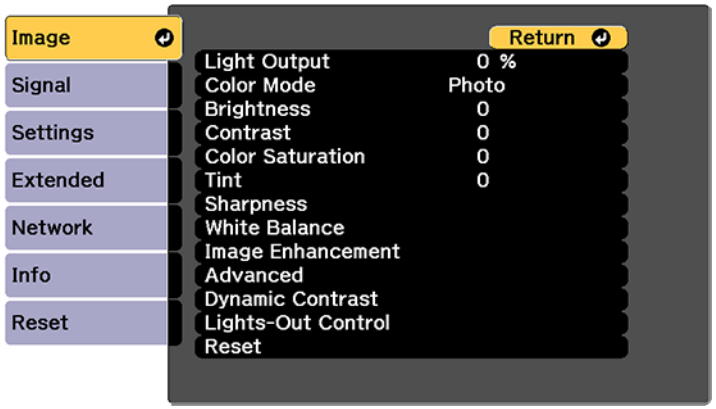
Image Menu

Adjusting the Hue, Saturation, and Brightness

You can adjust the hue, saturation, and brightness settings for individual image colors.

Note: These settings should be set by a professional color calibrator using specialized color calibration tools in a controlled lighting environment.

1. Turn on the projector and switch to the image source you want to use.
2. Press the **Menu** button on the control panel or remote control.
3. Select the **Image** menu and press **Enter**.



4. Do the following as necessary for each setting:
   - To adjust the overall vividness of the color, adjust the **Color Saturation** setting.

- To adjust the balance of green to magenta tones in the image, adjust the **Tint** setting.
- To adjust the overall brightness of the color, adjust the **Brightness** setting.

5. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

Image Menu

Controlling the Volume with the Volume Buttons

The volume buttons control 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.

Note: To adjust the volume of a connected audio/video system, set the **HDMI Link** setting to **On** and the **Audio Out Device** setting to **AV System** in the projector's Settings menu.

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 remote control.

Parent topic: Using Basic Projector Features

Projecting in Content Playback Mode

You can project images or other content from an external storage device using Content Playback mode. You can also add color or effects to the projected image.

Projecting a Playlist in Content Playback Mode

Creating a Playlist Using Epson Web Control

Supported Content Playback File Types

Content Playback Mode Restrictions

Parent topic: Using Basic Projector Features

Related references

Settings Menu

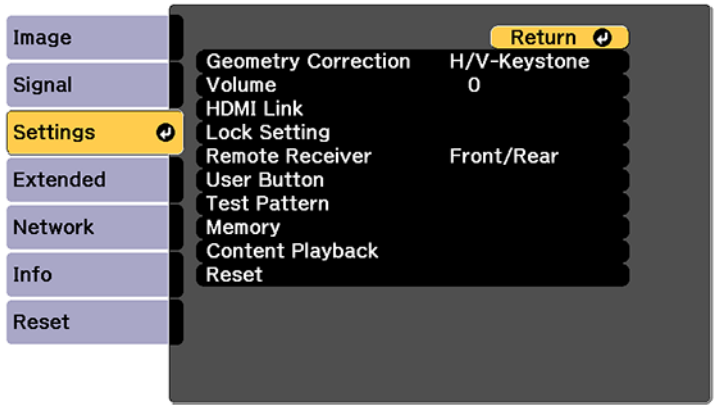
Projecting a Playlist in Content Playback Mode

You can project playlists that contain images and movies in Content Playback mode.

1. Create a playlist and export it to a USB device using the Epson Projector Content Manager software.

   Note: See the online *Epson Projector Content Manager Operation Guide* for more information.

2. Turn on the projector.
3. Press the **Menu** button.
4. Select the **Settings** menu and press **Enter**.



5. Select the **Content Playback** setting and press **Enter**.
6. Select the **On** setting and press **Enter**.

   You see a confirmation prompt.
7. Turn off the projector.
8. Turn on the projector again to enable Content Playback mode.
9. Insert the USB device containing the playlist to the projector's **USB-A** port.
10. Press the user button assigned to **USB** on the remote control to project the playlist.

    Note: To assign the USB option to a user button on the remote control, press the **Menu** button and go to **Settings** > **User Button**.

Note: To select a specific playlist from the USB device, press the **Menu** button and go to **Settings** > **Content Playback** > **USB Viewer**. Use the arrow buttons on the remote control to select the playlist you want to project.

If there is more than one playlist on the USB device, the first or scheduled playlist is projected.

Parent topic: Projecting in Content Playback Mode

Creating a Playlist Using Epson Web Control

You can create playlists using a web browser and save them to a USB flash drive connected to a projector on a network when the projector is in Content Playback mode.

Caution: Do not remove the USB flash drive from the projector or disconnect the projector's power cord while creating playlists. Data saved on the USB flash drive may be damaged.

1. Make sure the projector is in Content Playback mode.
2. Make sure your computer or device is connected to the same network as the projector.
3. Connect a USB device to the projector's **USB-A** port.
4. Start your web browser on your computer or device.
5. Enter the projector's IP address into the browser's address box and press the computer's **Enter** key.

   Note: When entering an IPv6 address, wrap the address with [and].

   You see the Epson Web Control screen.
6. Select **USB Memory Device**.
7. Select **Upload New Data**.
8. Select the images or movies you want to add to the playlist.

   Note: You cannot upload .mp4 or .mov files. If you want to add .mp4 or .mov files to the playlist, use Epson Projector Content Manager software or the Epson Creative Projection app.

   The selected files are copied to the USB device that is connected to the projector.
9. Do one of the following:
   - Select **Create New Playlist** to create a new playlist and add the files to it.
   - Select **Add to Playlist** and select the existing playlist you want to add the files to.

10. Edit the playlist.
11. Select **Finish** when you are done editing the playlist.

You can play the playlist from the Remote or Playlist screen. If you want to specify when the playlist starts and finishes, schedule the playlist using the Epson Projector Content Manager software. See the *Epson Projector Content Manager Operation Guide* for details.

Parent topic: Projecting in Content Playback Mode

Supported Content Playback File Types

You can project these types of files using the projector's Content Playback feature.

Note: For best results, place your files on media that is formatted in FAT16/32. If you have trouble projecting from media formatted for non-Windows file systems, try formatting the media for Windows instead. You may not be able to use the security features on certain USB storage devices with Content Playback features. When connecting a USB-compatible hard drive, connect the AC adapter supplied with the drive.

File type and extension	Details
Image (.jpg)	We recommend JPEGs taken with a digital still camera that complies with the Exif standard. The number of vertical and horizontal pixels must be a multiple of 8. Make sure the file is not: • Progressive format • Above 8192 × 8192 resolution
Image (.bmp)	Make sure the file resolution is not above 1280 × 800
Image (.gif)	The image must be a transparent .gif with a black background. Make sure the file is not: • Above 1280 × 800 resolution • Animated • Interlaced

File type and extension	Details
Image (.png)	Make sure the file is not: • Above 1280 × 800 resolution • Interlaced
Motion JPEG movie (.avi)	Supports only AVI 1.0 Make sure the file is not: • Above 1280 × 800 resolution • Larger than 2GB • Saved with a video codec other than Motion JPEG • Saved with an audio codec other than LPCM, IMA ADPCM, or no audio • Saved with an audio sampling rate other than 11.025 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1, or 48 kHz

Parent topic: Projecting in Content Playback Mode

Content Playback Mode Restrictions

The following operations cannot be performed in Content Playback mode.

- Changing the **Color Temp.** setting in the Image menu (when **Warm White** or **Cool White** is selected as **Color Filter**)
- Blanking
- Changing the **Display Background** setting in the Extended menu
- Changing the **Log Save Destination** setting in the Extended menu
- Detecting the input signal automatically
- Changing the **Remote Password** setting in the Network Settings menu

Parent topic: Projecting in Content Playback Mode

Adjusting Projector Features

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

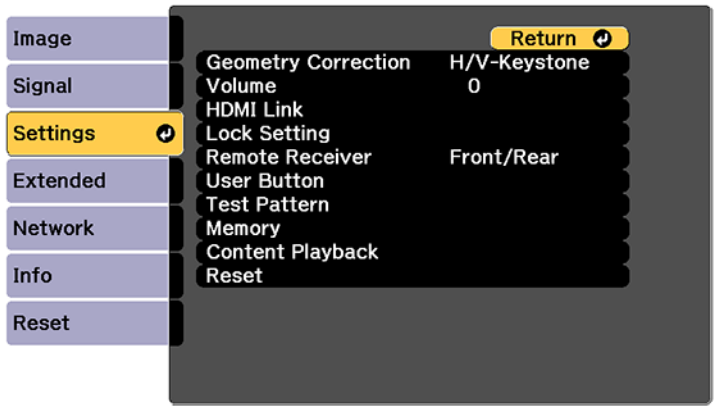
Operating Connected Devices Using the HDMI Link Features
Shutting Off the Picture and Sound Temporarily (A/V Mute)
Projector Security Features
Using Advanced Image Adjustment Features
Saving Settings to Memory and Using Saved Settings
Copying Menu Settings Between Projectors

Operating Connected Devices Using the HDMI Link Features

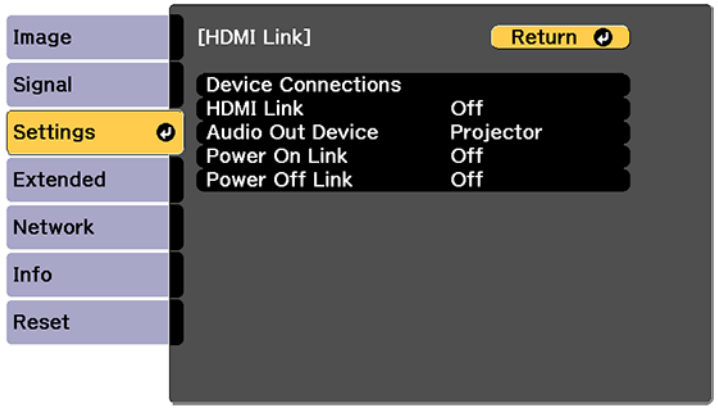
You can adjust the HDMI Link options that allow the projector remote to control HDMI-connected devices.

Note: The connected device and cable must meet the HDMI CEC standard. Up to three devices can be connected at the same time.

1. Press the **Menu** button.
2. Select the **Settings** menu and press **Enter**.



3. Select the **HDMI Link** setting and press **Enter**.



4. Select **On** and press **Enter**.
5. Select **Device Connections** and press **Enter**.
6. Select the device you want to control and project images from and press **Enter**.

   Note: A linked device is indicated with a blue mark.

7. Press **Esc** to return to the previous menu.
8. Select the following HDMI Link options as necessary:
   - **Audio Out Device**: To output audio from the speaker connected to the projector's Audio Out port, select **Projector**. If an audio/video system is connected to the projector and you want to output audio from it, select **AV System**. If an audio/video system is not connected to the projector, audio is output from the speaker connected to the Audio Out port even if **Audio Out Device** is set to **AV System**.
   - **Power On Link**: Select what happens when you turn on the projector or linked device. Select **Bidirectional** to automatically turn on the connected device when you turn on the projector, and vice versa. Select **Device -> PJ** to automatically turn on the projector when you turn on the connected device. Select **PJ -> Device** to automatically turn on the connected device when you turn on the projector.

- **Power Off Link**: Select whether linked devices are turned off when the projector is turned off. This option only works when the connected device's CEC power link function is enabled.

Note: Some linked devices and their functions may not operate, even if they meet the HDMI CEC standard. See the device's documentation for more information.

9. Press **Menu** or **Esc** to exit the menus.

Parent topic: Adjusting Projector Features

Related references

Settings Menu

Shutting Off the Picture and Sound Temporarily (A/V Mute)

You can temporarily turn off the projected picture and sound 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.

If you want to display an image such as a company logo or picture when the presentation is stopped, you can set up this feature using the projector's menus.

Note: If the picture and sound are off for more than 2 hours, the power automatically turns off. You can disable the **A/V Mute Timer** setting in the Extended menu to turn off this feature.

1. Press the **Shutter** button on the control panel or remote control to temporarily stop projection and mute any sound.
2. To turn the picture and sound back on, press the **Shutter** button again.

Note: You can add a fade out or fade in effect when turning the video on or off.

- **Extended** > **Operation** > **A/V Mute Settings**

Parent topic: Adjusting Projector Features

Related references

Extended Menu

Projector Security Features

You can secure your projector to deter theft or prevent unintended use by setting up the following security features:

- Lens lock to prevent changing the zoom, focus, or lens shift settings.
- Button lock security to block operation of the projector using the buttons on the control panel.
- Security cabling to physically cable the projector in place.

Locking the Projector's Lens Settings and Buttons
Unlocking the Projector's Buttons
Saving a User's Logo Image to Display

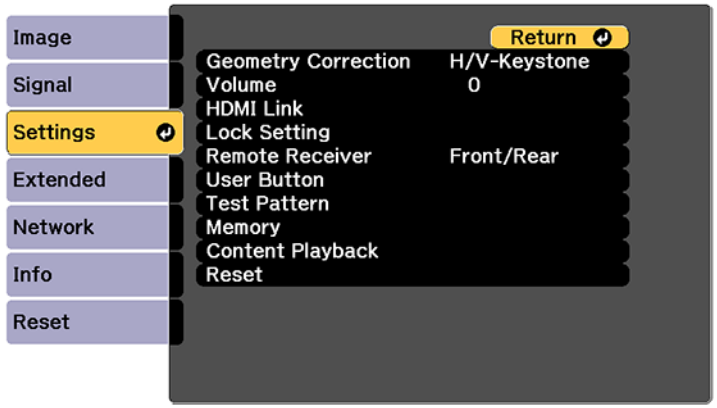
Parent topic: Adjusting Projector Features

Locking the Projector's Lens Settings and Buttons

You can lock the buttons on the projector's control panel to prevent anyone from using the projector. You can also lock the zoom, focus, distortion, calibration, and lens shift settings to prevent them from being adjusted.

Note: You can use the remote control to control the projector when the control panel buttons are locked.

1. Press the **Menu** button.
2. Select the **Settings** menu and press **Enter**.



3. Select the **Lock Setting** setting and press **Enter**.

   Note: You can also press the lock button on the control panel to display the Control Panel Lock screen.

4. Select one of these lock types and press **Enter**:
   - To lock the zoom, focus, distortion, calibration, and lens shift settings, select **Lens Lock**.
   - To lock all buttons, select **Control Panel Lock** > **Full Lock**.
   - To lock all buttons except the power button, select **Control Panel Lock** > **Partial Lock**.

     Note: A message is displayed on the screen if any control panel buttons are pressed while this setting is enabled.

   You see a confirmation prompt.
5. Select **Yes** and press **Enter**.
6. Restart the projector for the lock settings to take effect.

Parent topic: Projector Security Features

Related references

Settings Menu

Unlocking the Projector's Buttons

If the projector's buttons have been locked, hold the **Enter** button on the projector's control panel for 7 seconds to unlock them. You can also set the **Control Panel Lock** setting to **Off** in the Settings menu.

Parent topic: Projector Security Features

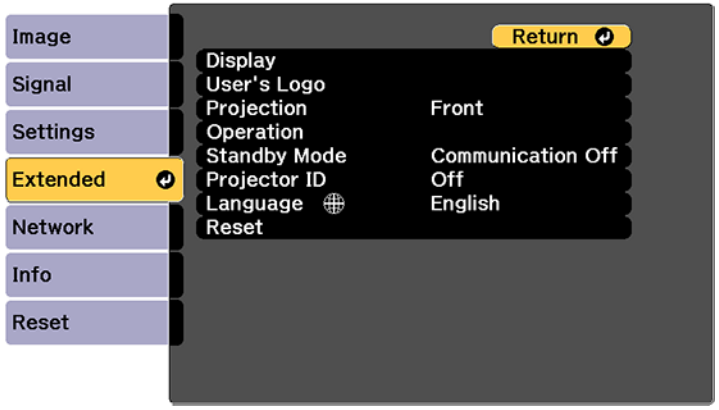
Saving a User's Logo Image to Display

You can transfer an image to the projector and then display it whenever the projector turns on. You can also display the image when the projector is not receiving an input signal. This transferred image is called the User's Logo screen.

The image you select as the User's Logo can be a photo, graphic, or company logo, which is useful in identifying the projector's owner to help deter theft. You can prevent changes to the User's Logo by setting up password protection for it.

Note: When you copy the menu settings from one projector to another using the batch setup feature, the user logo is also copied. Do not include any information in the user logo that you do not want to share between multiple projectors.

1. Display the image you want to project as the User's Logo.
2. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



3. Select the **User's Logo** setting and press **Enter**.
4. Select **Start Setting** and press **Enter**.
5. A prompt appears asking if you want to use the displayed image as the user's logo. Select **Yes** and press **Enter**.
6. A prompt appears again, asking if you want to use the displayed image as the user's logo. Select **Yes** and press **Enter**.

   You see a completion message.
7. Press **Esc** to return to the **Extended** menu.
8. Select **Display** and press **Enter**.
9. Select when you want to display the User's Logo screen:
   - To display it whenever there is no input signal, select **Display Background** and set it to **Logo**.
   - To display it whenever you turn the projector on, select **Startup Screen** and set it to **On**.
   - To display it whenever you press the **A/V Mute** button, select **A/V Mute** and set it to **Logo**.

Note:

- When you copy the menu settings from one projector to another using the batch setup feature, user's logo is also copied. Do not register the information that you do not want to share between multiple projectors as a user's logo.
- You cannot save content that is protected by HDCP.
- When **Content Playback** is set to **On**, you can display the user's logo only when the projector starts up.
- Adjustments for image shape and display range are temporarily canceled when you select **User's Logo**.
- This setting is unavailable when **Test Pattern** is set to **Captured Image**.

Parent topic: Projector Security Features

Related references

Extended Menu

Using Advanced Image Adjustment Features

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

Note: Not all adjustments may be available depending on the projection mode and input signal.

Creating Image Presets
Using Frame Interpolation
Adjusting Scaled Resolution Images (Super-resolution)
Adjusting the Color Convergence (Panel Alignment)
Adjusting the Color Tone (Color Uniformity)
Running Light Source Calibration

Parent topic: Adjusting Projector Features

Creating Image Presets

You can quickly optimize your projected image by selecting image adjustment settings and saving them as a preset you can reuse later.

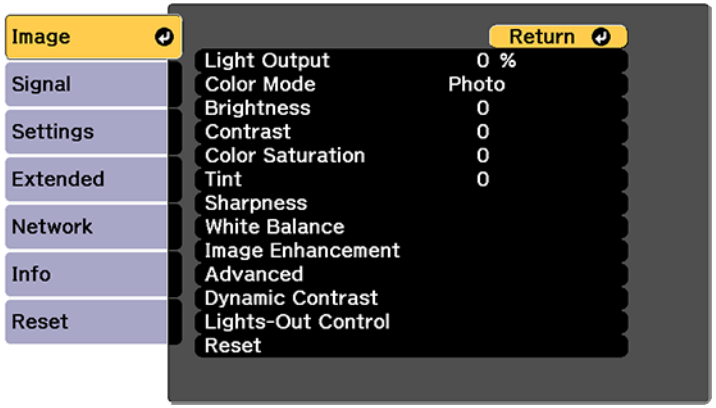
You can save the following settings in a preset:

- Frame Interpolation

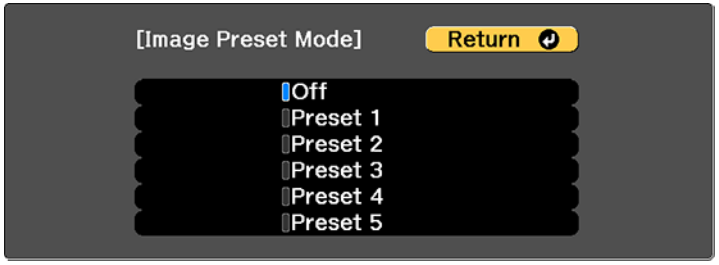
- Super-resolution
- Auto Contrast Enhancement

1. Press the **Menu** button.

   You see a screen like this:



2. Select the **Image** menu and press **Enter**.
3. Select the **Image Enhancement** setting and press **Enter**.
4. Select the **Image Preset Mode** setting and press **Enter**.



5. Select one of the presets and press **Enter**.

   Note: If you select a previously used preset, your new adjustments overwrite the old ones.

6. Press **Esc** to return to the Image Enhancement menu.
7. Fine-tune the following settings:
   - Frame Interpolation
   - Super-resolution
   - Auto Contrast Enhancement

   Note: To minimize delays, select **Off**. If you select **Off**, you cannot set the other items in the Image Enhancement setting.

8. Press **Menu** or **Esc** to exit the menus.

   The currently selected **Image Preset Mode** will be updated with the current settings.

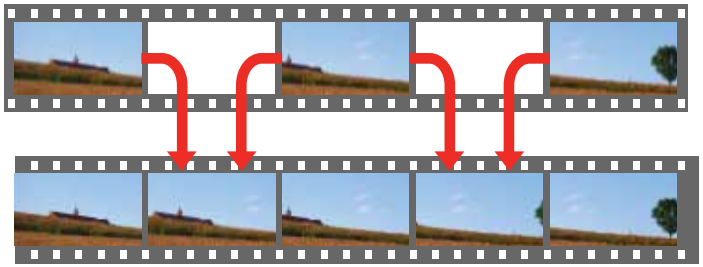
Parent topic: Using Advanced Image Adjustment Features

Related references

Image Menu

Using 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.

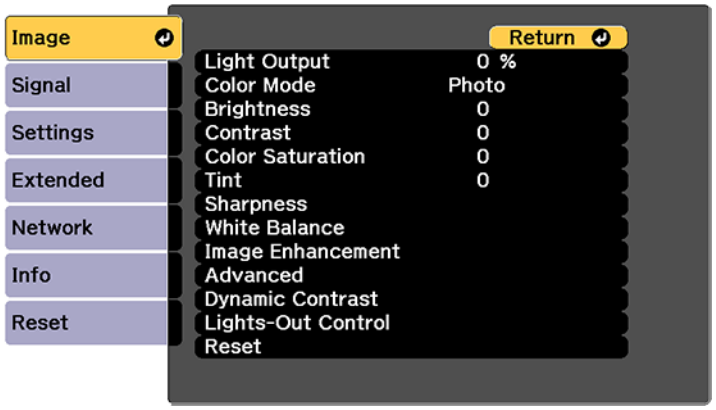


You cannot use this feature in any of the following conditions:

- **Image Processing** is set to **Fast** or **Auto (ALLM)**, and the current input source is compatible with ALLM (Auto Low Latency Mode).
- You turned off the **Image Preset Mode** setting

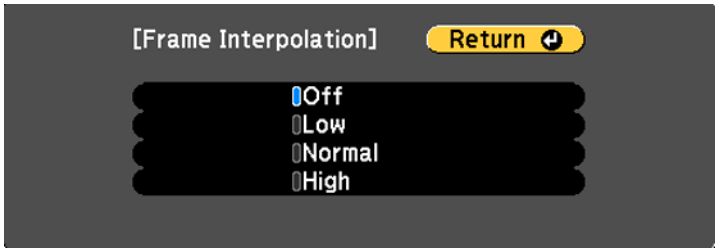
1. Press the **Menu** button.

You see a screen like this:



2. Select the **Image Enhancement** setting and press **Enter**.
3. Select the **Frame Interpolation** setting and press **Enter**.

   You see a screen like this:



4. Select the level of interpolation and press **Enter**.
5. When you are finished, press the **Menu** button.

Note: If your resulting images contain noise, turn off the **Frame Interpolation** setting.

Parent topic: Using Advanced Image Adjustment Features

Related references

Image Menu

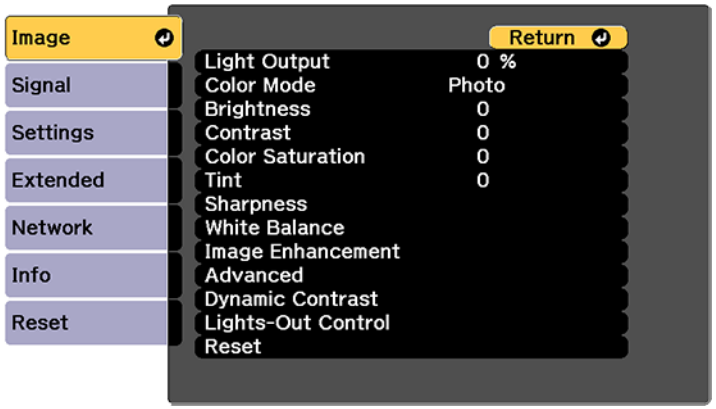
Adjusting Scaled Resolution Images (Super-resolution)

You can sharpen blurry, low-resolution images that had their resolution scaled up for projection using the **Super-resolution** setting.

Note: The **Image Preset Mode** setting must be enabled to select this setting.

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

   You see a screen like this:



3. Select the **Image Enhancement** setting and press **Enter**.
4. Select the **Super-resolution** setting and press **Enter**.
5. Adjust each of the following options as necessary:
   - **Fine Line Adjust** to enhance fine details such as hair and fabric patterns
   - **Soft Focus Detail** to enhance the outline, background, and main parts of an image

   Note: Higher values increase the intensity of the effect.

6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Advanced Image Adjustment Features

Related references

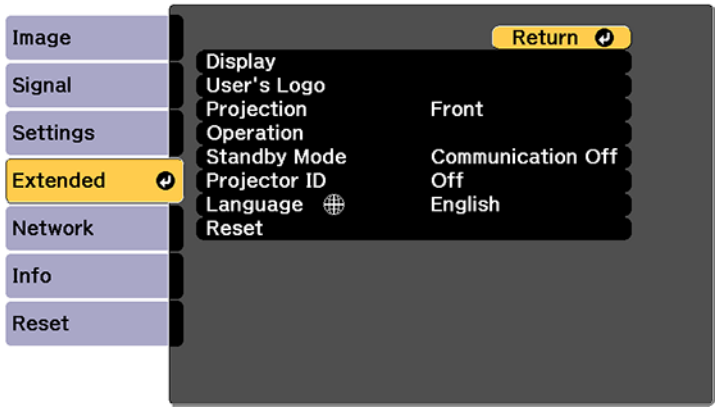
Image Menu

Adjusting the Color Convergence (Panel Alignment)

You can use the Panel Alignment feature to manually adjust the color convergence (the alignment of the red and blue colors) in the projected image.

Note: You can adjust only the red or blue color convergence. Green is the standard color panel and cannot be adjusted. You can adjust the pixels up to ±3 pixels in 0.125 pixel increments.

1. Turn on the projector.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.

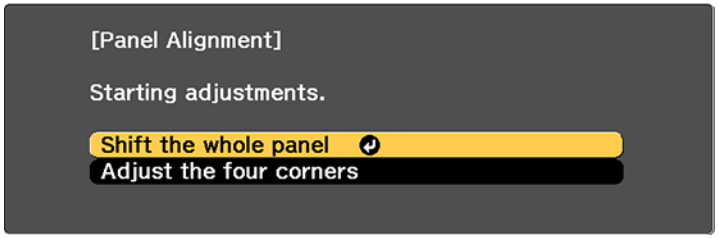


4. Select the **Display** setting and press **Enter**.
5. Select the **Panel Alignment** setting and press **Enter**.
6. Select the **Panel Alignment** setting again and press **Enter**.
7. Select **On** and press **Enter**.
8. Press **Esc** to return to the previous screen.
9. Select the **Select Color** setting and choose one of the following:
   - **R** to adjust the red color convergence.

- **B** to adjust the blue color convergence.

10. Press **Esc** to return to the previous screen.
11. Select the **Pattern Color** setting and press **Enter**.
12. Select the pattern you want to use and press **Enter**.
13. Press **Esc** to return to the previous screen.
14. Select **Start Adjustments** and press **Enter**.

    You see this screen:



15. First, select **Shift the whole panel** to adjust the entire panel and press **Enter**.
16. Use the arrow buttons on the remote control to adjust the whole panel and press **Enter**.
17. Next, select **Adjust the four corners** to make finer adjustments and press **Enter**.
18. Use the arrow buttons on the remote control to adjust the color alignment of the color you selected for the **Select Color** setting and press **Enter**.
19. When you are finished adjusting each corner of the screen, press **Enter**.
20. Do one of the following:
    - If your projector needs additional panel alignment, select **Select intersection and adjust** and press **Enter** to continue making adjustments.
    - If your projector's panel alignment is now correct, select **Exit** and press **Enter** to return to the Panel Alignment menu.

Parent topic: Using Advanced Image Adjustment Features

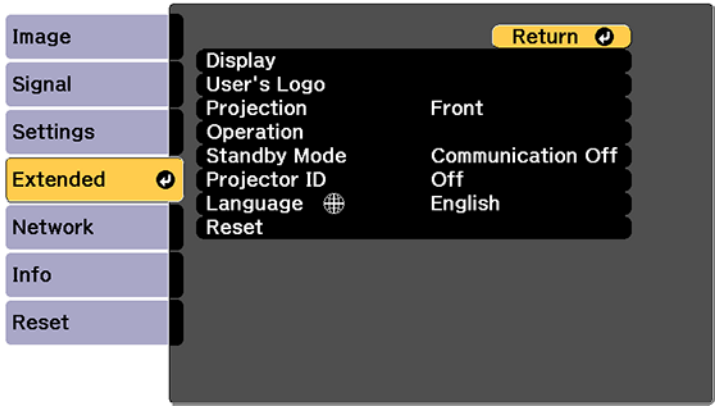
Related references

Extended Menu

Adjusting the Color Tone (Color Uniformity)

You can use the Color Uniformity feature to manually adjust the color tone balance in the projected image.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.



3. Select the **Display** setting and press **Enter**.
4. Select the **Color Uniformity** setting and press **Enter**.
5. Press **Enter** and select **On**.
6. Press **Esc**.
7. Select the **Adjustment Level** setting and press **Enter**.

   There are eight adjustment levels from white through gray, and you can adjust them individually.
8. Press the right and left arrow buttons to adjust the level, and press **Esc**.
9. Select the **Start Adjustments** setting and press **Enter**.
10. Select the area of the screen that you want to adjust and press **Enter**.

    Note: Adjust the outer areas first, then adjust the entire screen.

11. Select the color (**Red**, **Green**, or **Blue**) you want to adjust, and use the left arrow button to weaken the color tone and the right arrow button to strengthen the color tone.

12. Press **Esc**.
13. Repeat steps 10 and 11 for each area you want to adjust.
14. Repeat steps 7 to 11 for each adjustment level.
15. When you are finished, press the **Menu** button.

Note: The color tone may not be uniform even after adjusting the color uniformity

Parent topic: Using Advanced Image Adjustment Features

Related references
Extended Menu

Running Light Source Calibration

Light source calibration automatically adjusts any difference between the white balance and the brightness level of the light source. You should perform light source calibration every 100 hours of projector usage. You can also schedule automatic calibration or run the light source calibration manually using the menus.

Automatic light source calibration may not start in the following conditions:

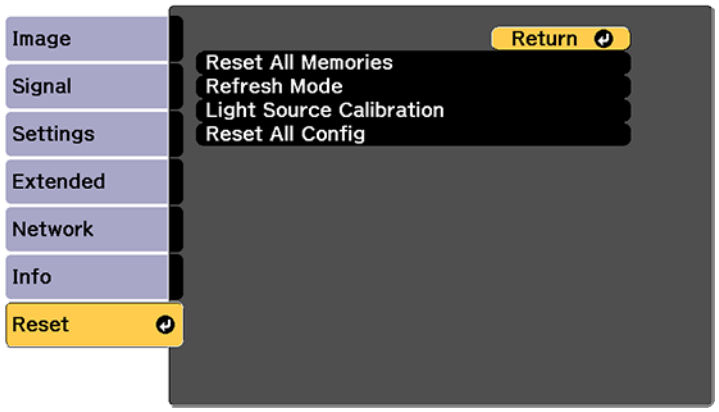
- Within 20 minutes of turning on the projector.
- When using direct power shutdown.
- When you have used the projector continuously for over 24 hours.
- When the brightness is automatically dimmed due to high temperatures.
- When the brightness is automatically dimmed due to use of the **Dynamic Contrast**, **A/V Mute**, or **Lights-Out Control** features.
- If **Brightness Settings** is set to 30% or less.

Note: To perform a light source calibration, the projector must have been on for at least 20 minutes and the projector brightness must not be automatically dimmed due to high temperatures.

1. Press the **Menu** button.

2. Select the **Reset** menu and press **Enter**.

   You see a screen like this:



3. Select **Light Source Calibration** and press **Enter**.
4. Select any of the following:
   - To run the light source calibration now, select **Run Now**.
   - To automatically run the light source calibration every 100 hours of projector usage, select **Run Periodically**.
   - To schedule automatic calibration, select **Schedule Settings**.
5. When you are finished, select **Return** and press the **Enter** button to return to the Reset menu.

Parent topic: Using Advanced Image Adjustment Features

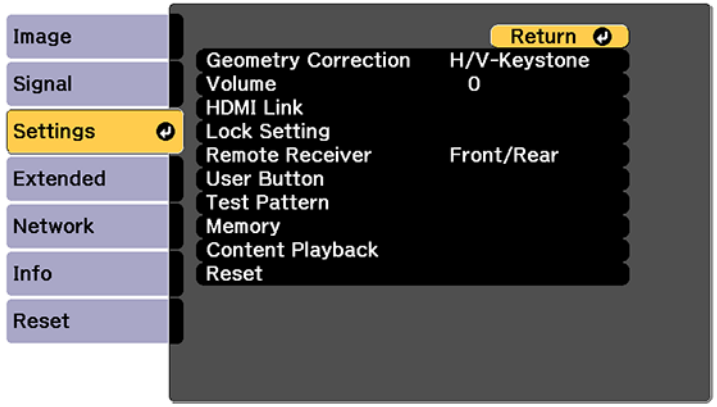
Saving Settings to Memory and Using Saved Settings

You can save customized settings and then select the saved settings whenever you want to use them.

1. Turn on the projector and display an image.
2. Press the **Menu** button.

   Note: You can also press the **Memory** button on the remote control. Skip to step 5.

3. Select the **Settings** menu and press **Enter**.

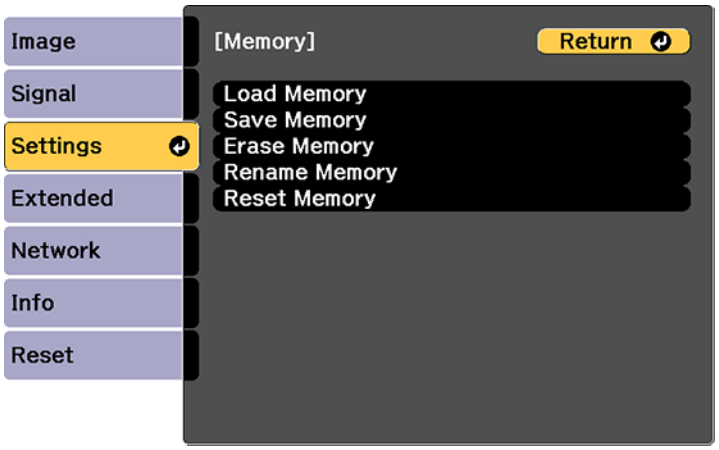


4. Select the **Memory** setting and press **Enter**.

   Note: You can also access this screen by pressing the **Memory** button on the remote control.

5. Select one of the following options:
   - **Memory**: Saves or loads various settings; you can save up to 10 different memories
   - **Lens Position**: Saves or loads settings related to the lens, such as the lens shift, focus, zoom, and distortion adjustment settings; you can save up to 10 different memories
   - **Geometry Correction**: Saves or loads any adjustments made in the **Geometry Correction** setting in the Settings menu; you can save up to 3 different memories

You see this screen:



6. Select one of the following options:
   - **Load Memory**: Overwrites your current settings with saved settings
   - **Save Memory**: Saves your current settings to memory

     Note: A memory name that has already been used is indicated by a blue mark. Saving over a previously saved memory overwrites the settings with your current settings.

   - **Erase Memory**: Erases the selected memory settings
   - **Rename Memory**: Renames a saved memory
   - **Reset Memory**: Resets the name and settings of a saved memory

     Note: To reset all saved memories of all types, select **Reset All Memories** in the Reset menu.

7. Press **Menu** or **Esc** to exit.

Parent topic: Adjusting Projector Features

Related references

Settings Menu

Copying Menu Settings Between Projectors

After you select menu settings for your projector, you can transfer them to another projector of the same model and the same firmware version.

Note: Copy the projector's settings before you adjust the image settings, such as keystone distortion correction. Since image adjustment values are also copied to another projector, the adjustments you made before performing the batch setup are overwritten and the projected screen you adjusted may change. Any saved User's Logo setting on the projector will transfer to the other projector. Do not register the information that you do not want to share between multiple projectors as a user's logo.

Caution: If the copy process fails due to a power failure, communication error, or for any other reason, Epson will not be responsible for any repair costs incurred.

The following settings will not transfer between projectors if you set the **Batch Setup Range** setting to **Limited**:

- **EDID** settings in the Signal menu
- Network menu settings other than those in the Others menu

Saving Settings to a USB Flash Drive
Transferring Settings from a USB Flash Drive
Saving Settings to a Computer
Transferring Settings from a Computer

Parent topic: Adjusting Projector Features

Related references

Projector Light Status
Info Menu

Saving Settings to a USB Flash Drive

You can save the projector settings you want to transfer to a USB flash drive.

Note: Use an empty flash drive. If the drive contains other files, the transfer may not complete correctly. The flash drive must use the FAT 32 format and cannot have any security features. Delete any files on the drive before using it for batch setup or the settings may not be saved correctly.

1. Turn off the projector and unplug the power cord from the projector's power inlet.

2. Insert the flash drive into the **USB-A** port.

   Note: Connect the flash drive directly to the projector. Do not use a hub or your settings may not be saved correctly.

3. Press and hold the **Esc** button on the control panel or remote control as you connect the power cord to the projector's power inlet.
4. When all of the projector lights (except the filter light) turn on, release the **Esc** button.

   The lights flash to indicate that settings are transferring to the flash drive. When the lights stop flashing, the projector turns off.

   Caution: Do not unplug the power cord or remove the flash drive while the lights are flashing. This could damage the projector.

5. Remove the flash drive.

   Note: The file name for the batch setup file is PJCONFDATA.bin. If you need to change the file name, add text after PJCONFDATA using only alphanumeric characters. If you change the PJCONFDATA section of the file name, the projector may not be able to recognize the file correctly.

Parent topic: Copying Menu Settings Between Projectors

Related references

Projector Light Status

Transferring Settings from a USB Flash Drive

After saving projector settings to a USB flash drive, you can transfer them to another projector of the same model.

Note: Make sure the USB flash drive contains only a single settings transfer from another projector of the same model. The settings are contained in a file called **pjconfdata.bin**. If the drive contains other files, the transfer may not complete correctly.

Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

1. Disconnect the power cord from the projector and check that all of the projector's indicators have turned off.

2. Insert the flash drive into the **USB-A** port.

   Note: Connect the flash drive directly to the projector. Do not use a hub or your settings may not be saved correctly.

3. Press and hold the **Menu** button on the control panel or remote control as you connect the power cord to the projector's power inlet.
4. When all of the projector lights (except the filter light) turn on, release the **Menu** button.

   The lights flash to indicate that settings are transferring to the projector. When the lights stop flashing, the projector turns off.

   Caution: Do not unplug the power cord or remove the flash drive while the lights are flashing. This could damage the projector.

5. Remove the flash drive.

Parent topic: Copying Menu Settings Between Projectors

Related references

Projector Light Status

Saving Settings to a Computer

You can save the projector settings you want to transfer to a computer.

Your computer must be running one of the following operating systems:

- Windows 10 or later
- macOS 10.13.x or later

1. Turn off the projector and unplug the power cord from the projector's power inlet.
2. Connect a USB cable to your projector's **Service** port.
3. Connect the other end to any available USB port on your computer.
4. Press and hold the **Esc** button on the control panel or remote control as you connect the power cord to the projector's power inlet.
5. When all of the projector lights (except the filter light) turn on, release the **Esc** button.

   The projector shows up as a removable disk on your computer.

6. Open the removable disk and copy the **pjconfdata.bin** file to your computer.

7. Once the file has been copied, do one of the following:
   - **Windows:** Open the **My Computer**, **Computer**, **Windows Explorer**, or **File Explorer** utility. Right-click the name of your projector (listed as a removable disk) and select **Eject**.
   - **Mac:** Drag the removable disk icon for your projector from the desktop into the trash.

   The projector turns off when you disconnect the USB cable.

   Note: If the projector does not turn off and the lights continue flashing, see the link below for a solution.

Parent topic: Copying Menu Settings Between Projectors

Related references

Projector Light Status

Transferring Settings from a Computer

After saving projector settings to a computer, you can transfer them to another projector of the same model.

Your computer must be running one of the following operating systems:

- Windows 10 or later
- macOS 10.13.x or later

Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.
2. Connect a USB cable to your projector's **Service** port.
3. Connect the other end to any available USB port on your computer.
4. Press and hold the **Menu** button on the control panel or remote control as you connect the power cord to the projector's power inlet.
5. When all of the projector lights (except the filter light) turn on, release the **Menu** button.

   The projector shows up as a removable disk on your computer.
6. Copy the **pjconfdata.bin** file from your computer to the removable disk.

   Note: Do not copy any other files to the removable disk.

7. Once the file has been copied, do one of the following:
   - **Windows:** Open the **My Computer**, **Computer**, **Windows Explorer**, or **File Explorer** utility. Right-click the name of your projector (listed as a removable disk) and select **Eject**.
   - **Mac:** Drag the removable disk icon for your projector from the desktop into the trash.

   Disconnect the USB cable. When all of the lights stop flashing, the projector turns off.

   Caution: Do not unplug the power cord while the lights are flashing. This could damage the projector.

   Note: If the projector does not turn off and the lights continue flashing, see the link below for a solution.

Parent topic: Copying Menu Settings Between Projectors

Related references

Projector Light Status

Adjusting the Menu Settings

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

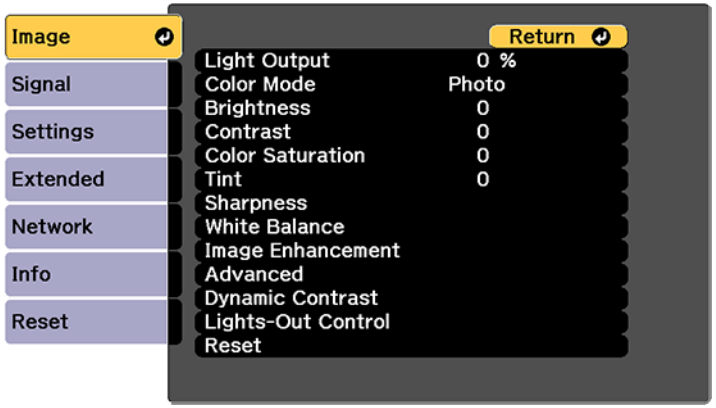
Using the Projector's Menus
Using the Displayed Keyboard
Image Menu
Signal Menu
Settings Menu
Extended Menu
Network Menu
Info Menu
Reset Menu

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 **Menu** button on the control panel or remote control.

   You see the menu screen displaying the Image menu settings.



2. Press the up or down arrow button to move through the menus listed on the left. The settings for each menu are displayed on the right.

   Note: The available settings depend on the current input source, resolution, or other menu settings.

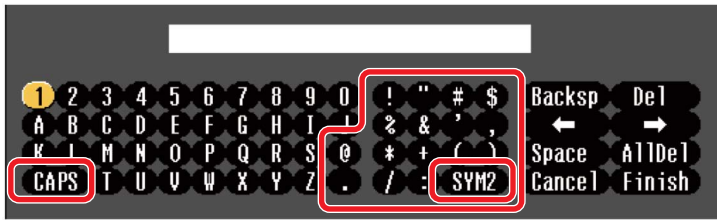
3. To change settings in the displayed menu, press **Enter**.
4. Press the up or down arrow button to move through the settings.
5. Change the settings using the buttons listed on the bottom of the menu screens.
6. To return all the menu settings to their default values, select the **Reset** menu.
7. When you finish changing settings on a menu, press **Esc**.
8. Press **Menu** or **Esc** to exit the menus.

Parent topic: Adjusting the Menu Settings

Using the Displayed Keyboard

You can use the displayed keyboard to enter numbers and characters.

1. Use the arrow buttons on the control panel or remote control to highlight the number or character you want to enter and press **Enter**.



   Note: Each time you select the **CAPS** key, the characters change between upper case and lower case. Each time you select the **SYM1/2** key, the symbols enclosed by the frame change.

2. After entering the text, select **Finish** on the keyboard to confirm your entries. Select **Cancel** to cancel entering text.

   Note: You can select projector settings and control projection over a network using a Web browser from your computer. Some symbols cannot be entered using the displayed keyboard. Use your Web browser to enter the text.

Available Keyboard Text

Parent topic: Adjusting the Menu Settings

Available Keyboard Text

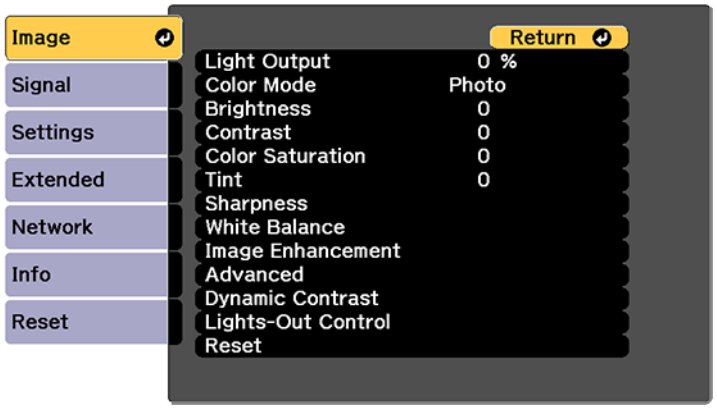
You can enter the following text when using the displayed keyboard.

Text type	Details
Numbers	0123456789
Alphabet	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
Symbols	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~

Parent topic: Using the Displayed Keyboard

Image Menu

Settings on the **Image** menu let you adjust the quality of your image. The available settings depend on the currently selected color mode and input source. The settings are saved separately for each selected color mode. Click the links at the end of this section for more information.



Setting	Options	Description
Light Output	Varying levels available	Adjusts the brightness of your projector's light source
Color Mode	See the list of available Color Modes	Adjusts the vividness of image colors for various image types and environments
Brightness	Varying levels available	Lightens or darkens the overall image **Note:** This setting does not affect light source brightness. To change the light source brightness, select **Image** > **Light Output**.
Contrast	Varying levels available	Adjusts the difference between light and dark areas of the image
Color Saturation	Varying levels available	Adjusts the intensity of the image colors
Tint	Varying levels available	Adjusts the balance of green to magenta tones in the image
Sharpness	**Standard** **Thin Line Enhancement** **Thick Line Enhancement**	Adjusts the sharpness or softness of image details
White Balance	See the list of available settings in the table below	Sets the overall color tone of the image
Image Enhancement	See the list of available settings in the table below	Adjusts the resolution of the image to reproduce a clear image with an emphatic texture and material feel

Setting	Options	Description
Advanced	**Dynamic Tone Mapping** **Scene Adaptive Gamma** **Gamma** **RGBCMY**	**Dynamic Tone Mapping**: optimizes the PQ (Perceptual Quantizer) curve settings based on the brightness of the projected HDR content; select **On** to improve the visibility of dark and bright images **Scene Adaptive Gamma**: adjusts the coloring and obtains a more vivid image depending on the scene; select a larger number to enhance contrast **Gamma**: adjusts the colors by selecting one of the gamma correction values or referring to a gamma graph. Select **Custom** to make finer adjustments. • Selecting a smaller value reduces the overall brightness of the image to make the image sharper. Selecting a larger value brightens the dark areas of images, but the color saturation for lighter areas may become weaker. • Project a still picture to adjust the Gamma. You cannot adjust the Gamma correctly when projecting movies. Medical images may not be reproduced correctly depending on your settings and screen specifications. **RGBCMY**: adjusts the hue, saturation, and brightness for each color
Dynamic Contrast	**Response Speed** **Black Level**	Adjusts the projected luminance based on the image brightness; set to **On** to automatically adjust the amount of light Select **Response Speed** > **High Speed** to adjust the amount of light as soon as the scene changes. Select **Black Level** to set the black level when the brightness level of the image signal is zero (if you select 0%, the light source turns off).

Setting	Options	Description
Lights-Out Control	**Lights-Out Signal Level** **Lights-Out Timer**	Automatically turns off the light source when the signal level falls below the reference level for a set period of time **Lights-Out Signal Level**: sets the brightness level for the video signal being controlled. After turning off automatically, it turns on immediately when exceeding the specified image level **Lights-Out Timer**: sets the amount of time before automatically turning off the light source
Reset	—	Resets all settings on the Image menu (except for Color Mode) to their default settings

White Balance Settings

Setting	Description
Color Temp.	Adjusts the overall tone of the image within a range from 3200K to 10000K; lower values tint the image red, and higher values tint the image blue **Note:** When **Color Mode** is set to **Dynamic**, the set Color Temp. may differ from the actual Color Temp. of the light from the projector. Use this menu as a guide.
G-M Correction	Makes fine adjustments to the color tone; higher values tint the image green and lower values tint the image red
Custom	Adjusts the individual RGB components of the offset and gain
Color Matching	Adjusts the tint and brightness for the color tone from white to black; half of the overlapped area is displayed in black so that you can check the edge of the image easily Select **Adjustment Level** to select from eight adjustment levels, from white to gray to black; adjust each level individually. Set to **All** to adjust the tint for each color from level 2 to 8 in a batch (once the values of red, blue, or green are at maximum or minimum at any level, you cannot perform further adjustments). Select **Red/Green/Blue** to adjust the tone for each color. Select **Brightness** to adjust the image brightness.

Image Enhancement Settings

Setting	Description
Image Preset Mode	Sets the Image Enhancement options as a batch using preset values. The following settings are saved in the preset options: • Frame Interpolation • Super-resolution • Auto Contrast Enhancement To minimize delays, select **Off**. If you select **Off**, you cannot set the other items in the **Image Enhancement** setting. After selecting **Preset 1** to **Preset 5**, you can fine tune each setting individually.
Frame Interpolation	Adjusts the smoothness of image movement **Note:** This setting is not available when **Image Preset Mode** is set to **Off**, or **Image Processing** is set to **Fast** or **Auto (ALLM)**, and the current input source is compatible with ALLM (Auto Low Latency Mode). Set to **Off** if your resulting images contain noise.
Super-resolution	Sharpens blurred images when projecting low-resolution images **Note:** This setting is not available when **Image Preset Mode** is set to **Off**. **Fine Line Adjust**: enhances the contrast and outlines of complicated images **Soft Focus Detail**: enhances the contrast and outlines of smooth backgrounds
Auto Contrast Enhancement	Automatically adjusts the contrast of the projected image to create a clearer and sharper image **Note:** This setting is not available when **Image Preset Mode** is set to **Off**.

Parent topic: Adjusting the Menu Settings

Related concepts

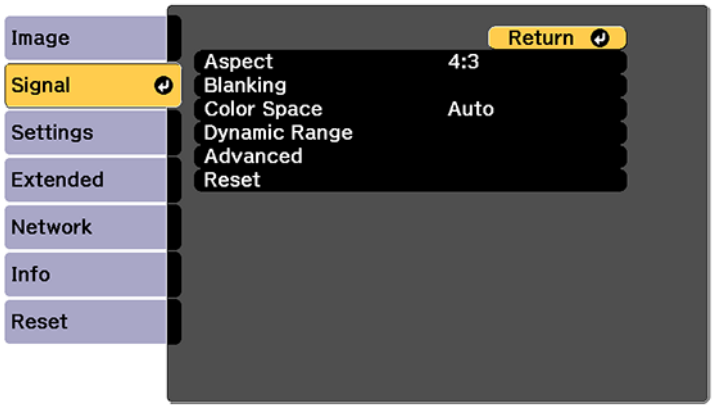
Color Mode

Related tasks

Adjusting the Projector's Brightness Level
Adjusting Image Sharpness
Adjusting Luminance Controls
Turning On Dynamic Contrast
Adjusting the Color Temperature
Adjusting Gamma
Adjusting the Hue, Saturation, and Brightness
Creating Image Presets
Using Frame Interpolation
Adjusting Scaled Resolution Images (Super-resolution)

Signal Menu

The projector detects and optimizes the input signal settings automatically. If you need to customize the settings, you can use the **Signal** menu. The available settings depend on the currently selected input source. The settings are saved separately for each selected input source.



Setting	Options	Description
Aspect	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio)

Setting	Options	Description
Blanking	**Top** **Bottom** **Left** **Right**	Hides images in the specified area Use the arrow buttons on the control panel or remote control to adjust the area. You can hide up to half of the projected image in each direction (except for one pixel). **Note:** This setting is only displayed when the **Content Playback** setting is set to **Off** in the projector's **Settings** menu.
Color Space	Various settings available	Switches the color space that can handle the color information of the input image Select **Auto** to apply a suitable color space for the AVI InfoFrame of the image
Dynamic Range	**Dynamic Range** **Signal Status** **HDR10 Setting** **HLG Setting**	Sets the video range to match the setting of input source **Dynamic Range**: changes the range of dark and bright areas in the image (set to **Auto** for most cases) **Signal Status**: displays the detected input signal **HDR10 Setting**: adjusts the PQ curve of the dynamic range in the HDR PQ (Perceptual Quantizer) method (available only when **Dynamic Range** or **Signal Status** is set to **HDR10**) **HLG Setting**: adjusts the HLG curve of the dynamic range in the HDR HLG (Hybrid Log Gamma) method (available only when **Dynamic Range** or **Signal Status** is set to **HLG**) **Note:** HLG HDR is for Broadcast content only.
Advanced > **Video Range**	**Limited (16-235)** **Full (0-255)**	Sets the video range to match the setting of input source from the HDMI port **Limited (16-235)**: for the color tone range 16 to 235 **Full (0-255)**: for the color tone range 0 to 255

Setting	Options	Description
Advanced > **EDID**	**EDID Mode** **Reset**	Describes the display capabilities of your projector (if images are not displayed correctly, you may be able to display them by changing this setting) Even if you setup multiple displays with different resolutions, you can set the same EDID as the standard display and switch the EDID of the current source to unify the EDID across the displays. You can set the EDID options as a batch using preset values. The following settings are saved in the preset options: • Resolution • Refresh Rate • Color Depth You can change the preset settings, if necessary. Select **Reset** to reset all adjustment values for **EDID** to their default values.
Advanced > **Image Processing**	**Auto (ALLM)** **Fine** **Fast**	Improves the response speed for images projected at high speed (only available when **EDID Mode** is set to **Up to 4K 120Hz 40Gbps** or **2560x1080(21:9)**) The Source device enables ALLM. If the source supports ALLM, then the ALLM feature should be listed as "on" in the projector's Info menu. **Auto (ALLM)**: automatically adjusts the response speed according to your projected content **Fine**: improves the response speed for images (**Frame Interpolation** in the Image menu must be turned off) **Fast**: disables the **Frame Interpolation** setting
Reset	—	Resets all the adjustment values (except for the EDID settings) in the Signal menu back to the default settings

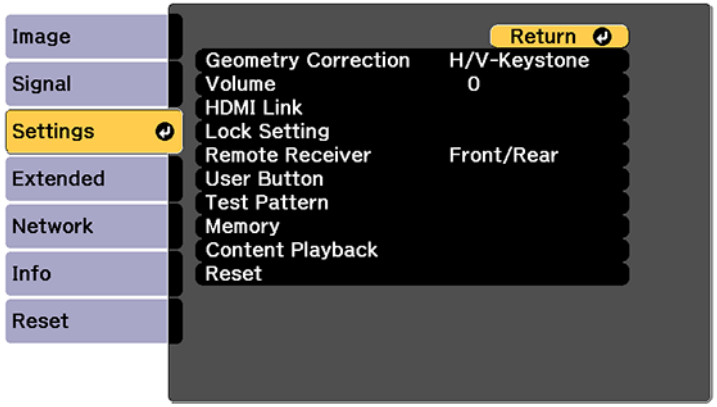
Parent topic: Adjusting the Menu Settings

Related concepts

Image Aspect Ratio

Settings Menu

Options on the **Settings** menu let you customize various projector features. Click the links at the end of this section for more information.



Setting	Options	Description
Geometry Correction	See the list of available settings in the table below	Adjusts the image shape to rectangular (horizontally and vertically); after correction, your image is slightly smaller Select **Off** to temporarily cancel geometry correction. Even when set to **Off**, the correction values are saved.
Volume	Varying levels available	Adjusts the volume of external speakers connected to the projector's Audio Out port
HDMI Link	**Device Connections** **HDMI Link** **Audio Out Device** **Power On Link** **Power Off Link**	Adjusts the HDMI Link options that allow the projector remote to control HDMI-connected devices Set **HDMI Link** to **On** to enable the HDMI Link features

Setting	Options	Description
Lock Setting	**Control Panel Lock** **Lens Lock**	Lets you set up projector security features to deter theft or prevent unintended use **Control Panel Lock**: controls projector button locking to secure the projector. Select **Full Lock** to lock all buttons or **Partial Lock** to lock all buttons except for the **On** button and the **Standby** button. Select **Off** to unlock all buttons. **Note:** You can also control projector button locking using the lock button on the control panel. To unlock the buttons, hold down the **Enter** button on the control panel for approximately 7 seconds. A message is displayed and the lock is released. **Lens Lock**: allows you to lock **Lens Shift**, **Zoom**, **Focus**, **Distortion**, and **Calibration** button operations on the remote control.
Remote Receiver	—	When the remote control does not operate stably due to noise from other devices, you can limit reception of remote control signals to the selected receiver Select **Off** to turn off all receivers. You can turn on all remote receivers by holding down the **Menu** button on the remote control for about 15 seconds.
User Button	various settings available	Allows you to assign one of the following menu options to the **User** buttons on the remote control for one-touch access: • Display the QR Code • Image Enhancement • Frame Interpolation • Link Menu • Content Playback • USB **Note:** The USB option is only displayed when Content Playback is set to **On**.

Setting	Options	Description
Test Pattern	**Display Position** **Color Isolation: R** **Color Isolation: G** **Color Isolation: B**	Displays a test pattern to assist in focusing and zooming the image and correcting image shape. The color isolation options let you display the selected color component of the projected image. These settings should be set by a professional color calibrator using specialized color calibration tools in a controlled lighting environment. • Press the **Page** button to change the test pattern while displaying a test pattern. • Press the **Esc** button to cancel pattern display. • To set menu items that cannot be set while the test pattern is being displayed or to fine-tune the projected image, project an image from the connected device. • To display **Color Isolation**, you need to project an image from the connected video source. • You can also display a test pattern using the **Test Pattern** button on the remote control or the test pattern/down arrow button on the control panel.
Memory	**Memory** **Lens Position** **Geometry Correction** **Load Memory** **Save Memory** **Erase Memory** **Rename Memory** **Reset Memory Settings**	Allows you to save customized settings and then select the saved settings whenever you want to use them • A memory name that has already been used is indicated by a blue mark. Saving over a previously saved memory overwrites the settings with your current settings. • The lens position when a memory is loaded may not completely match the lens position when the memory was saved. If there is a large discrepancy between the lens position, calibrate the lens. • You can also open the Memory screen using the **Memory** button on the remote control.

Setting	Options	Description
Content Playback	**Content Playback** **Overlay Effect** **USB Viewer**	Selects playlists and effects for projection **Content Playback**: set to **On** to play back a playlist **Overlay Effect**: adds color and shape effects to the projected image (not available if the current source is USB and there is no playlist being played, or if the current source is USB and a writing error has occurred) **USB Viewer**: select and play back a playlist saved on the USB flash drive You can use the following methods to create playlists: • Using Epson Projector Content Manager on your computer. You can download and install Epson Projector Content Manager from the Epson support site. • Using Epson Web Control with a Web browser. • Using Epson Creative Projection on iOS devices. You can download Epson Creative Projection from the App Store. Any fees incurred when communicating with the App Store are the responsibility of the customer. When you assign the USB function to the **User** button on the remote control using the **User Button** setting in the projector's **Settings** menu, you can start the playlist by pressing the **User** button. When there is a timetable assigned, the playlist will play back according to the schedule in the timetable. You can also hold down the **Num** and numeric buttons to project your favorite playlist. You can set a remote control shortcut key using the software you used to create the playlists.

Setting	Options	Description
Reset	—	You can reset all adjustment values on the Settings menu to their default settings, except for the following: • Audio Out Device • Power On Link • Power Off Link • User Button • Test Pattern

Geometry Correction Settings

The following options are available in the Geometry Correction menu.

Setting	Description
H/V Keystone	Manually corrects distortion in the horizontal and vertical directions independently. If the image aspect is incorrect, adjust the image balance by using V-Balance and H-Balance. You cannot combine with other correction methods.
Quick Corner	Corrects each of the four corners of the projected image independently
Curved Surface	Corrects the corners and sides of an image projected on a curved surface with the same radius • Move the lens position to the home position. • If a large amount of adjustment is performed, the focus may not be uniform even after making adjustments. • If you set the **Maintain Aspect Ratio** setting to **On** after correcting the corrections may not be applied. Reset the corrections to their default values or reduce the amount of correction, and try it again. • If you change the standard line during correcting, the present settings are reset.

Setting	Description
Corner Wall	Corrects the corners and sides of an image projected on a curved surface with right angles • Move the lens position to the home position. • If a large amount of adjustment is performed, the focus may not be uniform even after making adjustments. • We recommend you adjust the image shape based on the point nearest to the center of the screen.
Point Correction	Divides the projected image into a grid and corrects the distortion in 0.5 pixel increments by moving the selected point of intersection in any direction. You can move the points on the grid between 0.5 to 600 pixels in any direction, including outside the projection range. Use the arrow buttons to make the necessary corrections.
Memory	Allows you to save the shape of an image you have adjusted and load it when needed **Note:** You can also open the Memory screen using the **Memory** button on the remote control.

Parent topic: Adjusting the Menu Settings

Related concepts

Image Shape

Related tasks

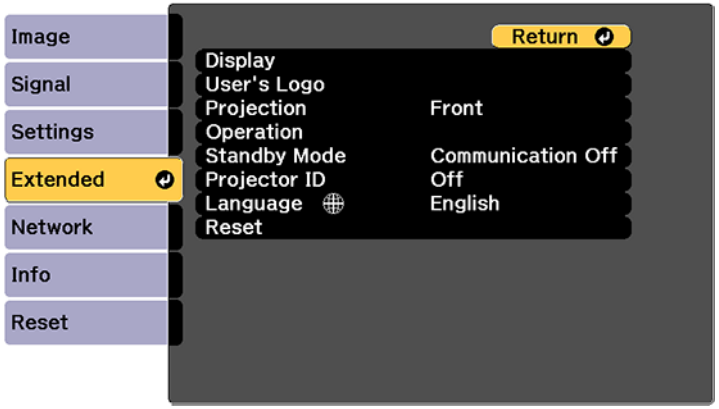
Displaying a Test Pattern
Correcting Image Shape with H/V-Keystone
Correcting Image Shape with Quick Corner
Correcting Image Shape with Curved Surface
Correcting Image Shape with Corner Wall
Correcting Image Shape with Point Correction
Operating Connected Devices Using the HDMI Link Features
Locking the Projector's Lens Settings and Buttons
Saving Settings to Memory and Using Saved Settings

Related topics

Projecting in Content Playback Mode

Extended Menu

Settings on the **Extended** menu let you customize various projector setup features that control its operation.



Setting	Options	Description
Display	**Menu Position** **Message Position** **Messages** **Display Background** **Startup Screen** **Standby Confirmation** **Air Filter Notice** **Panel Alignment** **Color Uniformity** **OSD Rotation**	Selects various message display options **Menu Position**: allows you to select the position of the projector menu displayed on the screen **Message Position**: allows you to select the position of the projector messages displayed on the screen **Messages**: allows you to display or hide messages such as the input source name, color mode name, aspect ratio, no signal message, or high temperature warning on the projected image **Display Background**: allows you to select the screen color or logo to display when no signal is received **Note:** This setting is only displayed when **Content Playback** is set to **Off**. **Startup Screen**: controls whether a special screen appears when the projector logo starts up **Standby Confirmation**: controls whether a confirmation screen appears after pressing the **Standby** button on the remote control. When set to **Off**, you can turn off the projector simply by pressing the **Standby** button once. **Air Filter Notice**: displays a message when a clog in the air filter is detected **Panel Alignment**: see the list of available settings in the table below **Color Uniformity**: see the list of available settings in the table below **OSD Rotation**: rotates the menu display 90°.

Setting	Options	Description
User's Logo	—	Allows you to save an image on the projector and display it whenever the projector turns on You can also display the image when the projector is not receiving an input signal. This image is called the user's logo screen. You can select a photo, graphic, or company logo as the user's logo, which is useful in identifying the projector's owner to help deter theft. Display the image you want to project as the user's logo and then select this setting. **Note:** • When you copy the menu settings from one projector to another using the batch setup feature, the user's logo is also copied. Do not register the information that you do not want to share between multiple projectors as a user's logo. • You cannot save content that is protected by HDCP. • When **Content Playback** is set to **On**, you can display the user's logo only when the projector starts up. • Adjustments for image shape and display range are temporarily canceled when you select **User's Logo**.
Projection	Various settings available	Selects the way the projector faces the screen so the image is oriented correctly

Setting	Options	Description
Operation	**Direct Power On** **Sleep Mode** **Sleep Mode Timer** **High Altitude Mode** **Auto Source Search** **Startup Source** **A/V Mute Settings** **Advanced** **Date & Time** **Lens Calibration**	Selects various operation options **Direct Power On**: lets you turn on the projector without pressing the power button by plugging in to ac outlet **Sleep Mode**: set to **On** to automatically turn off the projector after a period of inactivity; select **Sleep Mode Timer** to set a time (between 1 and 30 minutes) before the projector automatically turns off **High Altitude Mode**: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m) **Auto Source Search**: set to **On** to detect the input signal automatically and project images when there is no input signal (not available when **Content Playback** is enabled) **Startup Source**: select the input source you want to display from when the projector is turned on in Content Playback mode **A/V Mute Settings**: select **A/V Mute Timer** to turn off the projector automatically if there has been more than two hours of inactivity. Select **Release A/V Mute** if you want to use only the **Shutter** button to turn off **A/V Mute** or if you want to send a command to turn off **A/V Mute**, or select **Any Button** to use any button to turn it off. **Advanced**: see the list of available settings in the table below **Date & Time**: adjusts the projector's date and time settings • **Daylight Savings Time**: enables daylight savings time • **Internet Time**: updates the time automatically via an online time server **Lens Calibration**: displays information about the lens currently in use (it takes up to approximately 100 seconds). When calibration is finished, the lens returns to the same position it was in before calibration.

Setting	Options	Description
Standby Mode	**Communication On** **Communication Off**	Allows monitoring and control of the projector over a network when the projector is in standby mode Select **Communication On** to monitor and control the projector over a network. **Note:** Even if **Communication On** is set for a wired LAN connection, if the connection between the projector and the network device is not established for more than 15 minutes, the projector will enter a power status in which network communication is not possible. The following shows the statuses when the connection between the projector and the network device is not established: • A LAN cable is not connected • The power is off for network devices such as hubs
Projector ID	—	Lets you to set the projector to a particular ID number which allows you to use a remote control to individually control projectors. This is useful when you want to control multiple projectors using one remote control. **Note:** • You need to set the remote control's ID to match the projector's ID to operate only a particular projector. To set the remote control's ID, set the remote control **ID** switch to **On**. Press the **ID** button on the remote control and press the numeric button that matches the projector's ID within five seconds. (Enter a one digit or two-digit number.) • If you do not know the projector's ID, press the **ID** button during projection to temporarily display the projector's ID and the remote control's ID on the screen. (This is only available when you use the remote control that comes with this projector.) • You can set up to 30 IDs.
Language	Various languages available	Selects the language for projector menu and message displays

Setting	Options	Description
Reset	—	Resets all adjustment values on the **Extended** menu to their default settings, except for the following: • Projection • High Altitude Mode • Auto Source Search • Release A/V Mute • Standby Mode • Language

Panel Alignment Settings

The **Panel Alignment** setting (**Extended** > **Display** > **Panel Alignment**) allows you to manually adjust the color convergence (the alignment of the red and blue colors) in the projected image. You can adjust the pixels horizontally and vertically in increments of 0.125 pixels within a range of ±3 pixels. The following settings are available in the **Panel Alignment** menu.

Setting	Description
Panel Alignment	Set to **On** to correct color misalignment in the projected image.
Select Color	Select the color you want to adjust.
Pattern Color	Select the grid color displayed during adjustments. • R/G/B to display the grid color in white. • R/G to display the grid color in yellow. • G/B to display the grid color in cyan. The available color varies depending on the **Select Color** setting.

Setting	Description
Start Adjustments	Starts the panel alignment process. The image may become distorted while adjusting. The image is restored once adjustments are complete. • Select **Shift the whole panel** to adjust the whole panel roughly. • Select **Adjust the four corners** to adjust the four corners of the panel precisely. If you need to make additional adjustments, select **Select intersection and adjust** to adjust more precisely.
Reset	Resets all adjustment values on the **Panel Alignment** menu to their default settings. **Note:** Image quality may decline after performing alignment. Images for pixels that extend beyond the edge of the projected screen are not displayed.

Color Uniformity Settings

You can use the **Color Uniformity** setting (**Extended** > **Display** > **Color Uniformity**) to manually adjust the color tone balance in the projected image. The following settings are available in the **Color Uniformity** menu.

Setting	Description
Color Uniformity	Set to **On** to adjust the color tone balance for the whole screen.
Adjustment Level	Select the adjustment level you want to adjust. There are eight adjustment levels, from white to gray to black. Adjust each level individually. Set to **All** to adjust the tint for each color from level 2 to 8 in a batch. (Once the values of red, blue, or green are at maximum or minimum at any level, you cannot perform further adjustments.)
Start Adjustments	Starts adjustments for the selected adjustment level. The image may become distorted while adjusting. The image is restored once adjustments are complete. Adjust the outer areas first, and then adjust the entire screen.

Setting	Description
Reset	Resets all adjustment values on the **Color Uniformity** menu to their default settings. **Note:** The color tone may not be uniform even after adjusting the color uniformity.

Advanced Settings

The following settings are available in the **Advanced** menu (**Extended** > **Operation** > **Advanced**).

Setting	Description
Indicators	Set to **Off** to turn off the indicator lights on the projector except when an error or warning occurs.
Log Save Destination	You can set where you want to save the operation logs for the projector (only available when **Content Playback** is set to **Off**). Select **USB and Internal Memory** to save logs as text files (.log) to a USB flash drive inserted into the projector's USB-A port.
Batch Setup Range	You can select which menu settings you want copied. Select **All** to copy all of the projector menu settings using the batch setup option. Select **Limited** if you do not want to copy the **EDID** and **Network** menu settings.
AC Voltage Monitoring	Set to **On** to monitor the projector's voltage status and obtain a log when a warning, disconnection, or power blockage occurs. Set to **Off** if you regularly turn off the projector by turning off the power outlet (direct shutdown). **Note:** You can view the log in the projector's Info menu.

Parent topic: Adjusting the Menu Settings

Related tasks

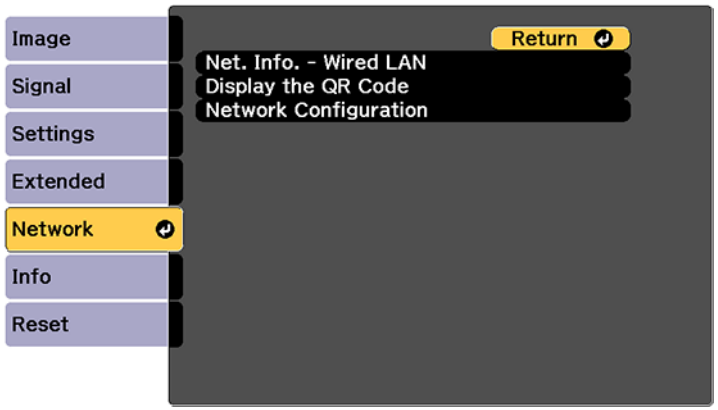
Shutting Off the Picture and Sound Temporarily (A/V Mute)
Saving a User's Logo Image to Display
Adjusting the Color Convergence (Panel Alignment)

Adjusting the Color Tone (Color Uniformity)

Network Menu

Settings on the **Network** menu let you view network information and set up the projector for monitoring and control over a network.

Note: If no password has been set, a screen prompting you to set a password is displayed. Follow the on-screen instructions to set the password.



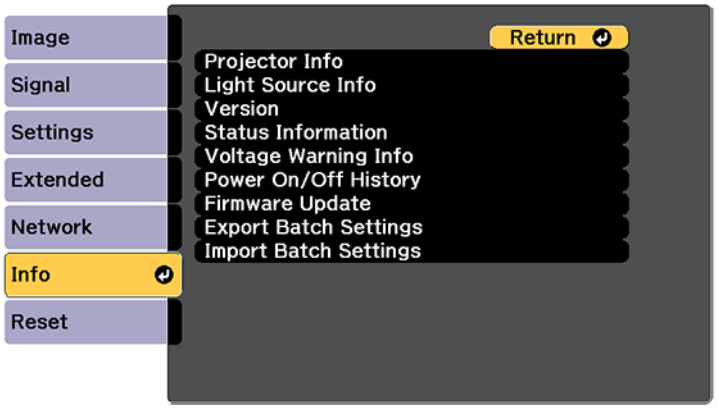
Setting	Options	Description
Net. Info - Wired LAN	—	Displays wired network status and details for the following: • Projector Name • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address • IPv6 Address (Manual) • IPv6 Address (Auto)

Setting	Options	Description
Display the QR Code	—	Displays a QR code for connecting with iOS or Android devices using the Epson iProjection app
Network Configuration	Accesses additional network menus	Configures your network settings

Parent topic: Adjusting the Menu Settings

Info Menu

You can display information about the projector and input sources by viewing the Info menu. However, you cannot change any settings in the menu.



Setting	Options	Description
Projector Info	**Operation Hours** **Source** **Input Signal** **Resolution** **Refresh Rate** **Sync Info** **Color Format** **Status** **Serial Number** **Lens Type** **Event ID**	Displays the projector's information **Operation Hours**: displays the number of hours (**H**) the projector has been used since it was turned on. The cumulative use time is displayed as "0H" for the first 10 hours. When exceeding 10 hours, it is displayed as "10H" and "11H" in 1 hour units. **Source**: displays the name of the port to which the current input source is connected **Input Signal**: displays the input signal setting of the current input source **Resolution**: displays the resolution of the current input source **Refresh Rate**: displays the refresh rate of the current input source **Sync Info**: displays information about video signals that may be needed by a service technician **Color Format**: displays the color format of the current input source **Status**: displays information about projector problems that may be needed by a service technician **Serial Number**: displays the projector's serial number **Lens Type**: displays the model number of the installed lens **Event ID**: displays the Event ID number corresponding to a network problem; see the list of Event ID codes
Light Source Info	**Light Source Hours**	Displays the projector's light source information Select **Light Source Hours** to display the number of operating hours
Version	—	Displays the projector's firmware information

Setting	Options	Description
Status Information	**Status Information** **Source** **Signal Information** **Network Wired** **Maintenance** **Version**	Displays the projector's basic status information **Status Information**: displays the projector's operating status **Source**: displays the input signal information **Signal Information**: displays the input digital signal information **Network Wired**: displays the wired LAN settings **Maintenance**: displays the operating time for the projector and light source **Version**: displays the projector's firmware version
Voltage Warning Info	—	Displays various voltage warnings Select **Detail** when a warning or error is displayed to check detailed logs for before and after the error was detected
Power On/Off History	—	Lets you view the power on/off logs
Firmware Update	—	Performs a firmware update of the projector Follow the on-screen instructions to use one of the following methods to update the firmware: • Connecting an empty USB flash drive directly to the projector's **USB-A** port • Connecting a USB cable to the computer's USB port and to the projector's **Service** port
Export Batch Settings	—	Exports the projector's menu settings to a USB flash drive or a computer, allowing you to copy them to other projectors of the same model
Import Batch Settings	—	Imports the menu settings saved to a USB flash drive or a computer

Event ID Code List

Parent topic: Adjusting the Menu Settings

Related topics

Copying Menu Settings Between Projectors

Event ID Code List

If the **Event ID** option on the Info menu displays a code number, check this list of Event ID codes for the solution to the projector problem associated with the code.

If you cannot resolve the problem, contact your network administrator or Epson for technical support.

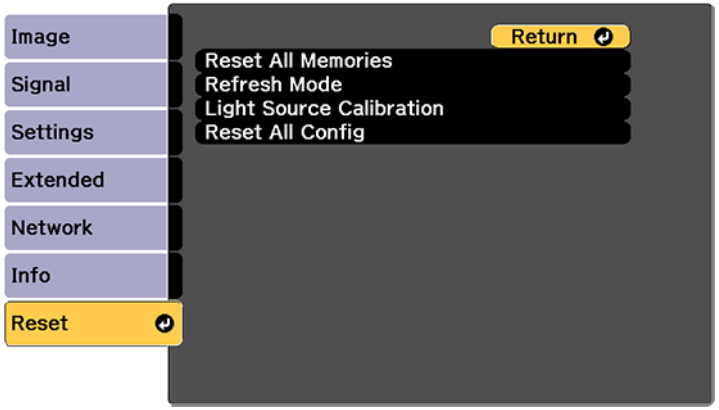
Event ID code	Cause and solution
0432	The network software did not start. Turn the projector off and then on again.
0435	
0433	Cannot display the transferred images. Restart the network software.
0434	Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0481	
0482	
0485	
0484	Communication with computer was disconnected. Restart the network software.
0483	The network software quit unexpectedly. Check the network communication status, then turn the projector off and then on again.
04FE	
0479	A projector system error has occurred. Turn the projector off and then on again.
04FF	

Note: If the projector is turned on immediately after being powered off, the projector may start up "heat protection mode" where the fans run at high speed and the laser is not turned on for 30-90 seconds.

Parent topic: Info Menu

Reset Menu

Settings on the **Reset** menu let you reset certain projector settings to their default values.



Setting	Options	Description
Reset All Memories	—	Deletes all memories saved in **Memory**, **Lens Position**, and **Geometry Correction**
Refresh Mode	**Timer** **Messages** **Start**	Clears any projected afterimage and turns off the projector after a specified period of time **Timer**: lets you set a time period during which the projector displays the refresh image **Messages**: set to **On** to display a message informing you that the projector is in refresh mode **Start**: starts the refresh mode process to clear any projected afterimage and turn off the projector after a specified period of time. Press any button on the remote control to cancel this process.

Setting	Options	Description

Light Source Calibration	**Run Now**
	Run Periodically
	Last Run
		Optimizes the color balance of the projected image
		Run Now: starts light source calibration to optimize the color balance of the currently projected image. You may not be able to start calibration if the projector's environmental temperature is out of range. (Wait 20 minutes after turning on the projector before starting calibration for the best results.)
		Light Source Calibration does not start in the following cases:
		• If the projector is not used continuously for more than 20 minutes
		• If the surrounding temperature gets too high, and the brightness has been automatically dimmed
		• If you use the following functions and the brightness of the light source declines to a specific level or lower:
		  • Dynamic Contrast
		  • Lights-Out Control
		  • A/V Mute
		• If **Light Output** is set to 30% or less
		Run Periodically: starts Light Source Calibration after every 100 hours of use
		Last Run: displays the date and time of the last light source calibration

Reset All Config	—	Resets most of the projector settings to their default values

You cannot reset the following settings using the **Reset All Config** option:

- Memory
- Panel Alignment
- Color Uniformity
- User's Logo
- Date & Time

- Color Matching
- Language
- Network menu items

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
Updating the Firmware
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 , lens unit, 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, unplug the power cord, and let it cool down. 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 Epson qualified servicers.

Cleaning the Lens
Cleaning the Projector Case

Parent topic: Maintaining and Transporting the Projector

Cleaning the Lens

Clean the projector's lens periodically, or whenever you notice dust or smudges on the surface. Make sure you turn off the projector and unplug the power cord before cleaning the lens.

Note: If the lens is dusty, first blow off the dust and then wipe the lens.

- To remove dust or smudges, gently wipe the lens with clean and dry lens-cleaning paper.
- To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the lens. Do not spray any liquid directly on the lens.

  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 wipe the lens immediately after turning off the projector; otherwise, the lens could be damaged. Do not use glass cleaner or harsh materials to clean the lens and do not subject the lens to any impacts; otherwise, you may damage the lens. Do not use canned air to clean the lens; the gases may leave a residue. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface. Do not use cleaning products that contain ammonia; the protective coating on the lens could be damaged.

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

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

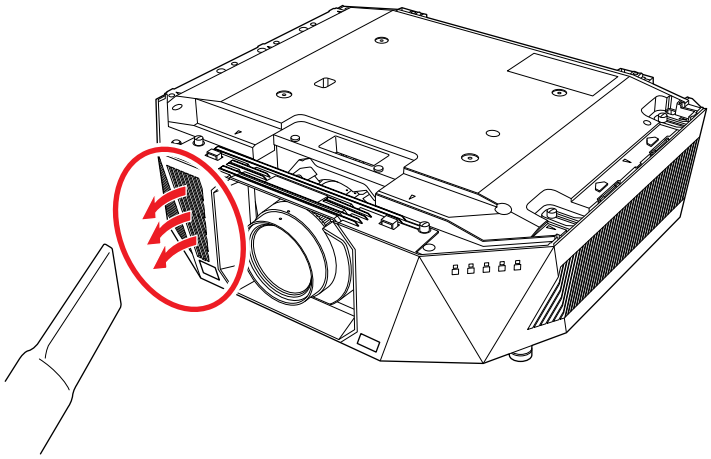
Clean the projector's air filter or vents if they get dusty, or if you see a message telling you to clean them. It is recommended that you clean these parts every 20000 hours, or more often if you use the projector in an environment that is dustier than expected.

Caution: Do not use water or detergent to clean the air filter. Do not use canned air, or the gases may leave a flammable residue.

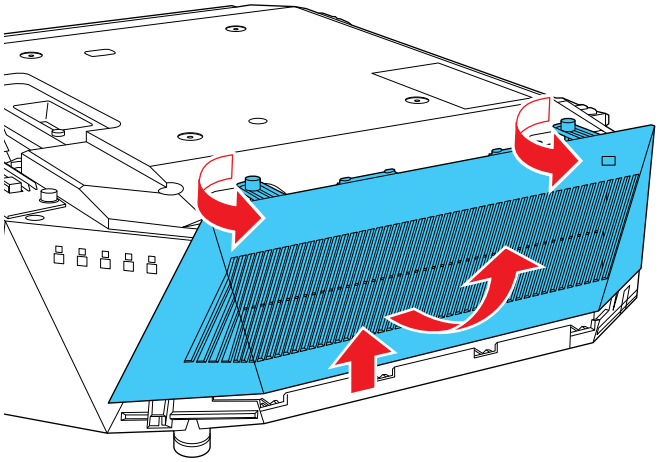
1. Turn off the projector and unplug the power cord.

   Note: Make sure to remove the vanity board from the projector in advance.

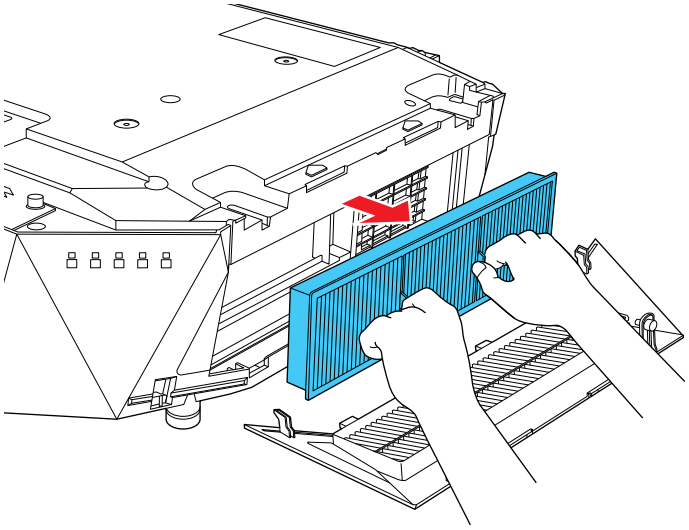
2. Gently remove the dust using a small vacuum designed for computers or a very soft brush (such as a paintbrush).



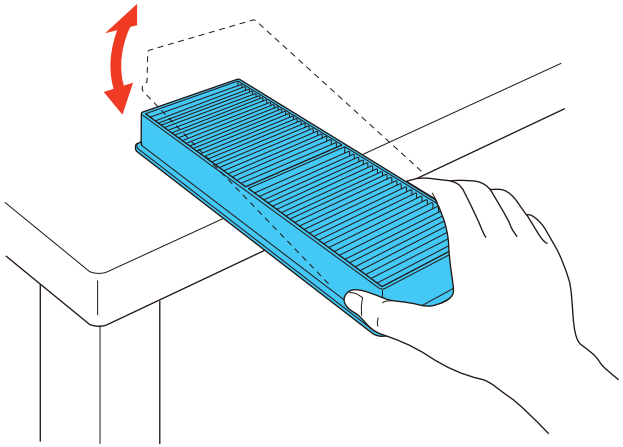
3. Loosen the screws securing the air filter cover and remove the air filter cover (it is attached with a tether).



4. Pull the air filter out of the projector.

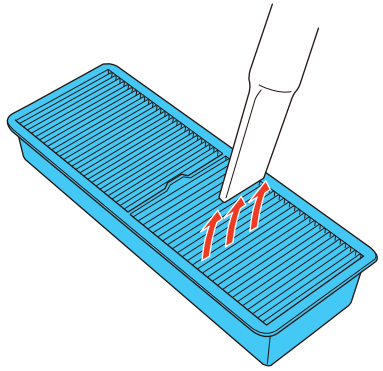


5. Tap each side of the filter 4 to 5 times to shake off any excess dust. Do this outside the room or away from the projector.



Caution: Do not use excessive force when tapping the air filter, or it may crack and become unusable. 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.

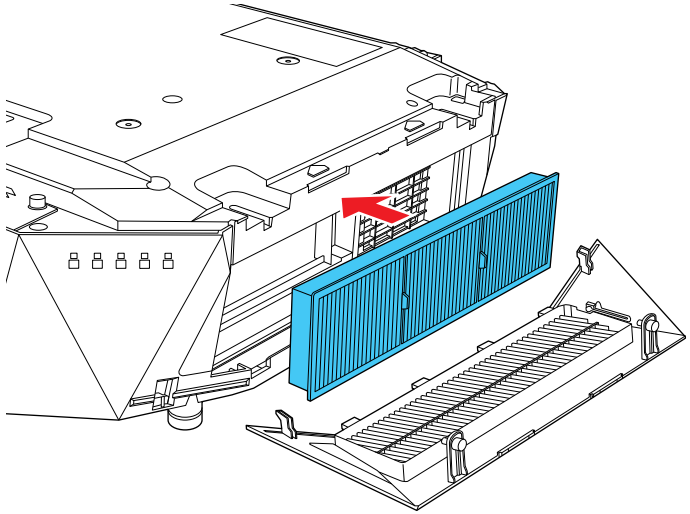
6. Vacuum the front of the air filter (the side with the tabs) to remove any remaining dust.



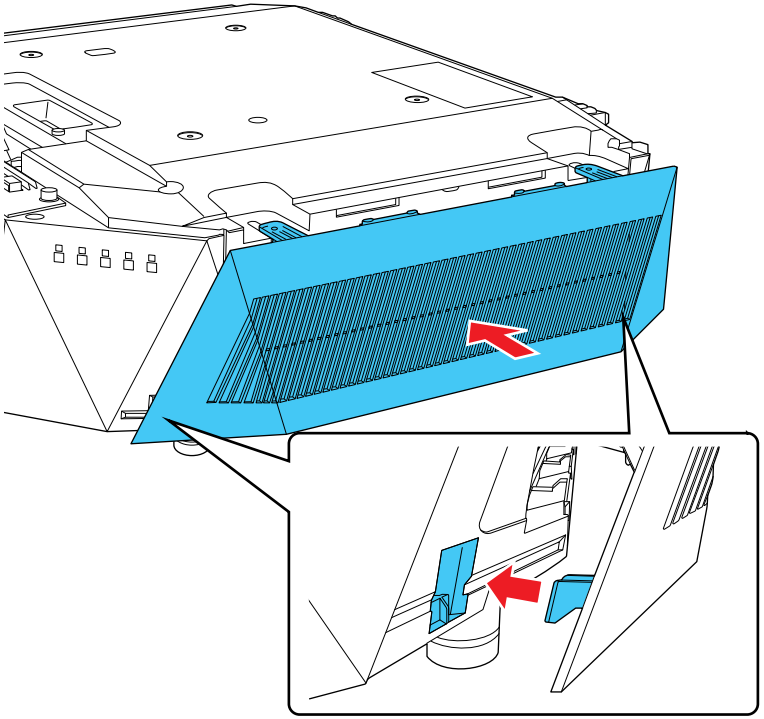
Caution: Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not use canned air; the gases may leave a flammable residue, or push dust and debris into the projector's optics or other sensitive areas.

Note: If dust is difficult to remove or the air filter is damaged, replace the air filter.

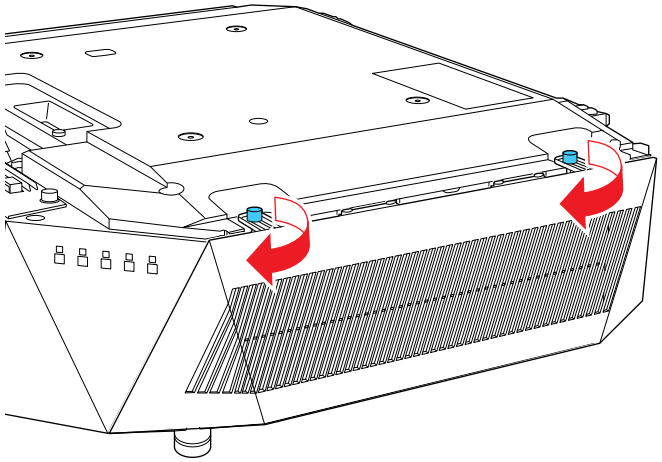
7. Place the air filter back in the projector as shown.



8. Install the air filter cover as shown.



9. Tighten the screws.



Note: After installing the air filter, reinstall the vanity board.

Parent topic: Air Filter and Vent Maintenance

Replacing the Air Filter

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

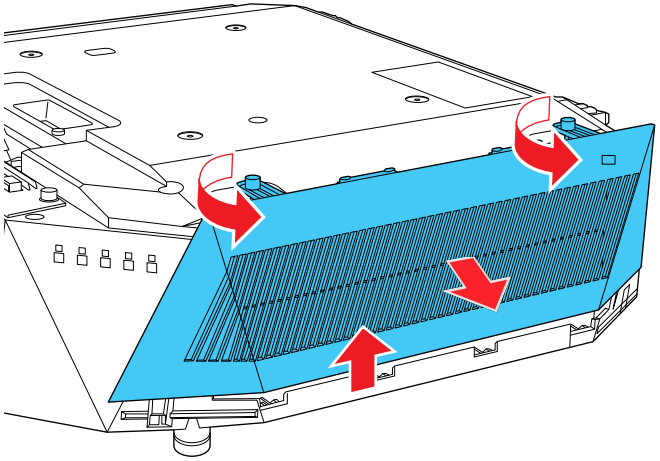
- After cleaning the air filter, you see a message telling you to clean or replace it
- The air filter is torn or damaged

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

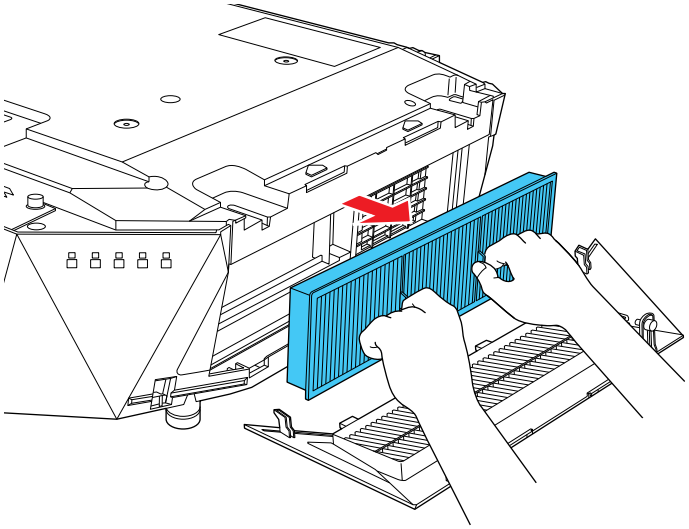
Note: Make sure that the vanity board has been removed from the projector in advance.

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

2. Loosen the screws and remove the air filter cover as shown (it is attached with a tether).

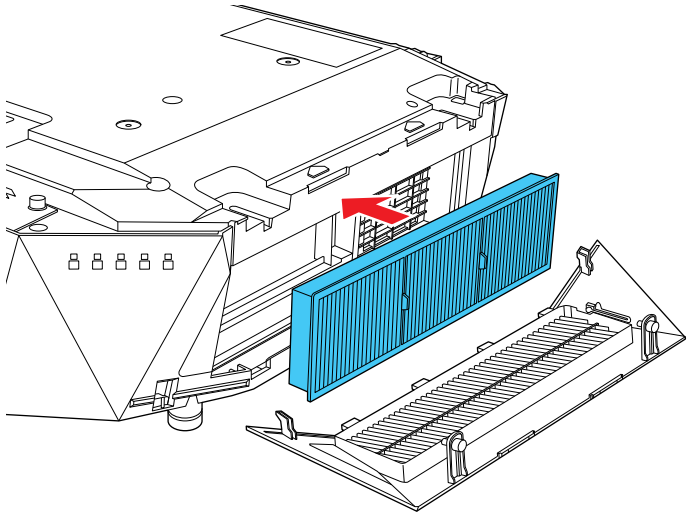


3. Pull the air filter out of the projector.

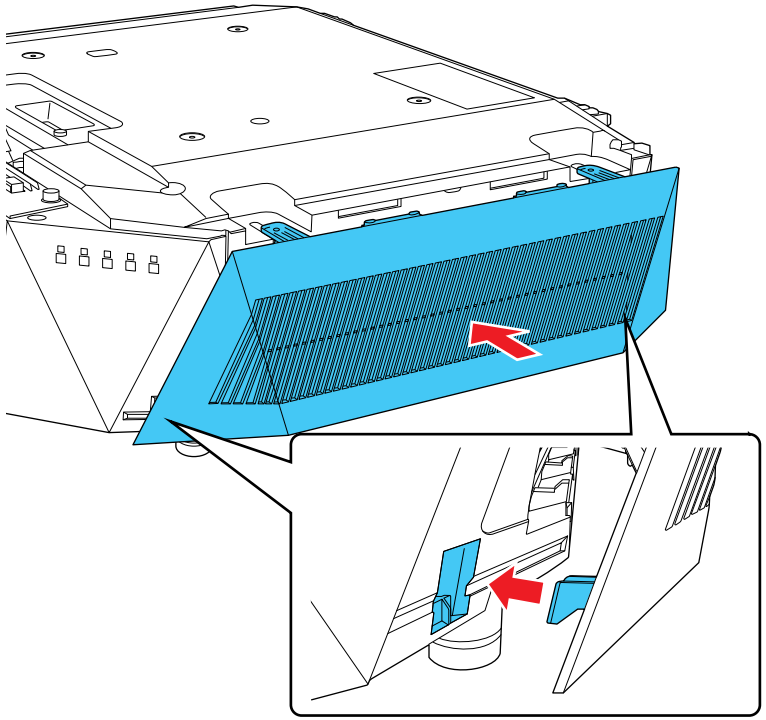


Note: Air filters contain polypropylene. Dispose of used air filters according to local regulations.

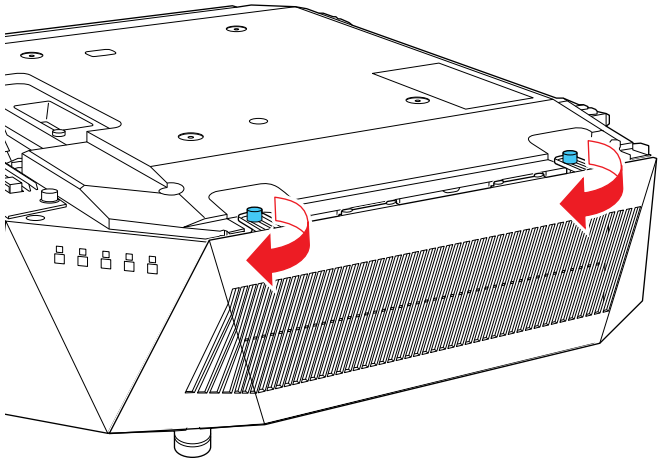
4. Place the new air filter in the projector as shown.



5. Attach the air filter cover as shown.



6. Tighten the screws.



Note: After installing the air filter, reinstall the vanity board.

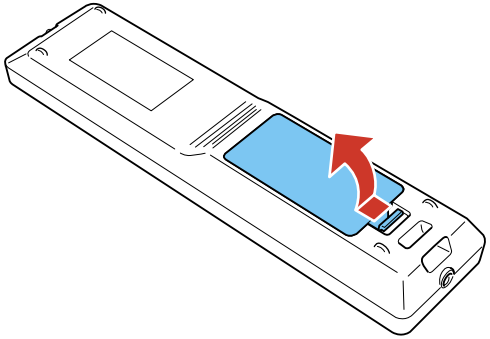
Parent topic: Air Filter and Vent Maintenance

Replacing the Remote Control Batteries

The remote control uses two AA 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.

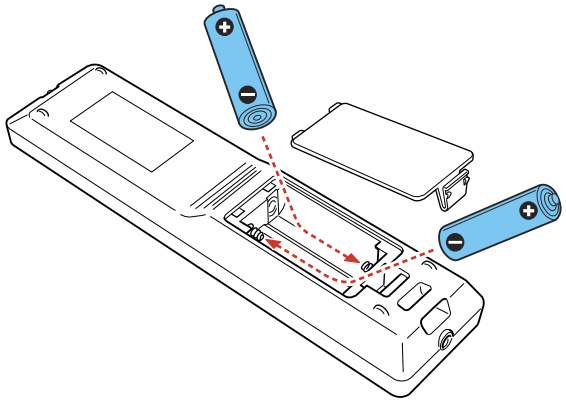
1. Remove the battery cover as shown.



2. Remove the old batteries.

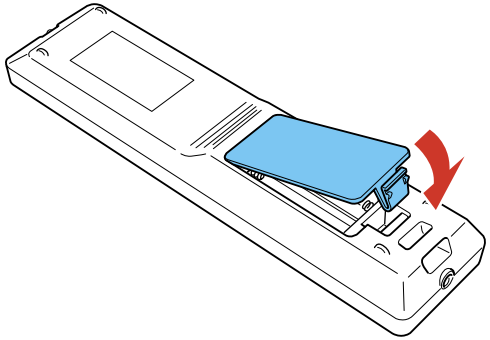
   Warning: If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.

3. 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.

4. Replace the battery cover and press it down 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: Maintaining and Transporting the Projector

Updating the Firmware

You can update the projector's firmware using a USB storage device or a computer and a USB cable.

Note: Your computer must be running one of the following operating systems to update the firmware:

- Windows 8.x or later
- macOS 10.13.x or later

If a firmware update is available for your product, you can select the **Firmware Update** option in the projector's **Initial/All Settings** menu. The projector enters firmware update mode and is ready to perform a firmware update. If a firmware update file is not found, the projector enters standby mode.

For more information, contact Epson support.

Updating Projector Firmware Using a USB Storage Device
Updating Projector Firmware Using a Computer and USB Cable

Parent topic: Maintaining and Transporting the Projector

Updating Projector Firmware Using a USB Storage Device

You can update the projector's firmware using a USB storage device.

1. Download the projector firmware file from the Epson support website. Make sure it is the correct firmware file for your model.

   Note: If the firmware file is not the correct file for your model, or if you renamed the file, the update will not start.

2. Copy the downloaded firmware file onto the root (top) folder of the USB storage device.

   Note: Do not rename the firmware file. The USB device should be completely empty except for the firmware file and should be formatted in FAT format.

3. Turn on the projector.
4. Connect the USB storage device to the projector's **USB-A** port.
5. Press the **Menu** button, select the **Information** menu, and press **Enter**.
6. Select **Firmware Update** and press **Enter**.
7. Select **Yes** to start the firmware update.

   Note: Do not disconnect the power cable or remove the USB storage device while the firmware is updating.

While the firmware is updating, all of the status indicators on the projector start flashing. After the update is complete, the projector enters standby mode. If the **Direct Power On** setting is enabled, the projector restarts automatically.

Note: If all of the status indicators flash rapidly, the firmware update may have failed. Disconnect and reconnect the projector's power cord. If the indicators continue to flash even after reconnecting the power cord, unplug the cord from the electrical outlet and contact Epson Support.

After the update is complete, check the **Version** setting in the **Information** menu to confirm that the firmware was updated successfully.

Parent topic: Updating the Firmware

Updating Projector Firmware Using a Computer and USB Cable

You can update the projector firmware using a computer and a USB cable.

Note: You need a USB Type A to USB Mini-B cable.

Your computer must be running one of the following operating systems when updating firmware:

- Windows 8.1 (32- and 64-bit)
- Windows 10 (32- and 64-bit)
- Windows 11 (64-bit)
- macOS 10.13.x (64-bit)
- macOS 10.14.x (64-bit)
- macOS 10.15.x (64-bit)

1. Download the projector firmware file from the Epson support website. Make sure it is the correct firmware file for your model.

   Note: If the firmware file is not the correct file for your model, or if you renamed the file, the update will not start.

2. Turn on the projector.
3. Connect the USB cable to the computer's USB port and to the projector's **Service** port.
4. Press the **Menu** button, select the **Information** menu, and press **Enter**.
5. Select **Firmware Update** and press **Enter**.
6. Select **Yes** to start the firmware update.

   Note: Do not disconnect the power cable or remove the USB cable while the firmware is updating.

   All of the status indicators on the projector turn on and the projector enters firmware update mode. The projector appears as a removable drive on the connected computer.

   Note: If the projector is in firmware update mode for longer than 20 minutes before a firmware update starts, it automatically shuts off. Return to step 2 and repeat the process.

7. Copy the downloaded firmware file onto the root (top) directory of the projector's removable drive.

   Note: Do not rename the firmware file.

8. Safely remove the projector's removable drive from the computer, then disconnect the USB cable from the projector.

   The firmware update starts.

While the firmware is updating, the status indicators on the projector start flashing. After the update is complete, the projector enters standby mode. If **Direct Power On** is enabled, the projector restarts automatically.

Note: If all status indicators flash rapidly, the firmware update may have failed. Disconnect and reconnect the projector's power cord. If the indicators continue to flash even after reconnecting the power cord, unplug the cord from the electrical outlet and contact Epson Support.

After the update is complete, check the **Version** setting in the **Information** menu to confirm that the firmware was updated successfully.

Parent topic: Updating the Firmware

Transporting the Projector

The projector contains precision parts, some of which are glass. Follow these guidelines to transport, ship, or store the projector safely.

- Turn off the projector and make sure the status light is off before you unplug the power cord.
- Remove any equipment connected to the projector.
- Remove the lens and attach the protective cover that was on the lens mount when you purchased the projector.

  Note: Do not transport the projector with the lens installed. Doing so could damage the projector and the lens.

- Do not hold the protective lens cover or the lens unit when moving the projector; they may become disconnected and the projector may fall, which could cause an injury.
- When transporting the projector a long distance or as checked luggage, pack it in a firm box with cushioning around it and mark the box "Fragile."

- When shipping the projector for repairs, place it in its original packing materials, if possible, or use equivalent materials with cushioning around the projector. Mark the box "Fragile."

Note: Epson shall not be liable for any damages incurred during transportation.

Warning: The projector is heavy and should be carried or moved by two people.

Parent topic: Maintaining and Transporting the Projector

Solving Problems

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

Projection Problem Tips
Projector Light Status
Solving Image or Sound Problems
Solving Projector or Remote Control Operation Problems
Solutions When a Battery Message Appears
Solutions to Problems Using Content Playback
Solving Network Problems
Where to Get Help (U.S. and Canada)
Where to Get Help (Latin America)

Projection Problem Tips

If the projector is not working properly, try turning it off and unplugging it. Then plug it back in and turn it on.

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

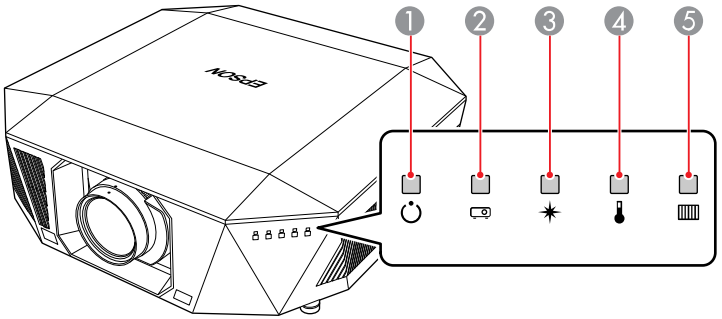
- The lights on the projector may indicate what the problem is.
- The solutions in this manual can help you solve many problems.

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

Parent topic: Solving Problems

Projector Light Status

The lights on the projector indicate the projector status and let you know when a problem occurs. Check the status and color of the lights and look for a solution in the table here.



1 Power light
2 Status light
3 Laser light
4 Temp (temperature) light
5 Filter light

Power light	Status light	Laser light	Temp light	Filter light	Status and solution
Blue	Blue	Varies	Off	Off	Normal operation
Blue	Flashing blue	Varies	Off	Off	Warming up; all buttons are disabled (image appears after about 30 seconds)

Power light	Status light	Laser light	Temp light	Filter light	Status and solution
Blue	Flashing blue	Off	Off	Off	Shutting down or cooling down; all buttons are disabled 
Off	Off	Off	Off	Off	Standby or sleep mode; press power button to start projection 
Blue	Off	Off	Off	Off	Monitoring; press power button to start projection 
Flashing blue	Off	Off	Off	Off	Preparing for network monitoring; all buttons are disabled 
Blue	Blue	Flashing blue	Off	Off	A/V Mute is on 
Varies	Flashing blue	Flashing orange	Varies	Varies	**Refresh Mode** is on 

Power light	Status light	Laser light	Temp light	Filter light	Status and solution
Flashing blue	Varies	Varies	Flashing orange	Varies	Projector is too hot • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • Make sure the environmental temperature is not too hot 
Off	Flashing blue	Off	Orange	Off	Projector has overheated and turned off; leave the projector off for at least 5 minutes • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • Make sure the environmental temperature is not too hot • If operating the projector at high altitude, turn on **High Altitude Mode** • If the problem persists, unplug the projector and contact Epson for help 
Flashing blue	Varies	Flashing orange	Varies	Varies	Laser warning; turn off the projector, unplug it, and contact Epson for help 

Power light	Status light	Laser light	Temp light	Filter light	Status and solution
Flashing blue	Varies	Flashing orange	Varies	Varies	An unsupported lens is attached; remove the unsupported lens and attach a lens that is supported 
Off	Flashing blue	Orange	Off	Off	Laser error; turn off the projector, unplug it, and contact Epson for help 
Off	Flashing blue	Off	Flashing orange	Off	Fan or sensor error; turn the projector off, unplug it, and contact Epson for help 
Off	Flashing blue	Flashing orange	Off	Off	Internal error; turn off the projector, unplug it from the electrical outlet, and contact Epson for help 
Varies	Varies	Varies	Varies	Flashing orange	A message to clean or replace the air filter is displayed; turn the projector off, unplug it, and clean or replace the air filter as necessary 

Power light	Status light	Laser light	Temp light	Filter light	Status and solution
Flashing blue	Varies	Varies	Varies	Orange	Low air flow through the air filter • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • If the problem persists, unplug the projector and contact Epson for help 
Off	Flashing blue	Off	Off	Orange	Low air flow through the projector • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • If the problem persists, unplug the projector and contact Epson for help 
Off	Flashing blue	Orange	Orange	Off	Lens Shift error, Supply Voltage error, or Communication error with AC Micro controller; turn off the projector, unplug it from the electrical outlet, and contact Epson for help 

Power light	Status light	Laser light	Temp light	Filter light	Status and solution
Off	Flashing blue	Orange	Orange	Off	Lens problem or no lens is installed • Remove and reattach the installed lens • Attach a supported lens • If the problem persists, unplug the projector and contact Epson for help 
Off	Off	Flashing orange	Flashing orange	Off	The batch setup file may be corrupt, or the USB flash drive may not be connected correctly Disconnect the USB flash drive, unplug and then plug in the projector's power cord, and then try again 
Flashing blue	Flashing blue	Flashing orange	Flashing orange	Off	Writing the settings may have failed and an error may have occurred in the projector's firmware Stop using the projector, unplug the projector's power cord, and contact Epson for help. 

Note: If the lights display a pattern not listed in the table above, turn the projector off, unplug it, and contact Epson for help.

Parent topic: Solving Problems

Solving Image or Sound Problems

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

Solutions When No Image Appears
Solutions When "No Signal" Message Appears
Solutions When "Not Supported" Message Appears
Solutions When Only a Partial Image Appears
Solutions When the Image is Not Rectangular
Solutions When the Image Contains Noise or Static
Solutions When the Image is Fuzzy or Blurry
Solutions When the Image Brightness or Colors are Incorrect
Solutions When an Afterimage Remains On the Projected Image
Solutions to Sound Problems

Parent topic: Solving Problems

Solutions When No Image Appears

If no image appears, try the following solutions:

- Check the status lights to confirm the projector is operating normally.
- Press the **Shutter** button on the remote control to see if the image was temporarily turned off.
- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- Press the projector's **On** button to wake it from standby or sleep mode. Also see if your connected computer is in sleep mode or displaying a blank screen saver.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked for security. Unlock the buttons in the **Control Panel Lock** setting in the projector's **Settings** menu or use the remote control to turn on the projector.
- If the projector does not respond when you press any buttons on the projector, an internal error may have occurred in the projector. Contact Epson for help.
- Adjust the **Brightness** setting on the Image menu.
- Adjust the brightness of your projector's light source.
- Check the Display menu to make sure the **Messages** setting is set to **On**.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.

- For images projected from applications using Windows DirectX, turn off DirectX functions.
- The projector may not be able to project copyrighted videos that you play back on a computer. For details, see the manual supplied with your computer.

Parent topic: Solving Image or Sound Problems

Solutions When "No Signal" Message Appears

If the "No Signal" message appears, try the following solutions:

- Press the Search button on the remote control or the Source Search button on the control panel until you see the image from the source you want.
- Turn on the connected computer or video source, and press its play button to begin your presentation, if necessary.
- Check the connection from the projector to your video sources.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
- If necessary, turn the projector and the connected computer or video source off and then on again.
- If you are projecting from an HDMI source, replace the HDMI cable with a shorter one.

Displaying From a PC Laptop
Displaying From a Mac Laptop

Parent topic: Solving Image or Sound Problems

Displaying From a PC Laptop

If you see the "No Signal" message when you display from a PC laptop, you need to set up the laptop to display on an external monitor.

1. On Windows 7 or later, hold down the Windows key and press **P** at the same time, then click **Duplicate**.
2. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)
3. If necessary, check your video card settings and set the multiple display option to **Clone**, **Mirror**, or **Duplicate**.

Parent topic: Solutions When "No Signal" Message Appears

Displaying From a Mac Laptop

If you see the "No Signal" message when you display from a Mac laptop, you need to set up the laptop for mirrored display. (See your laptop manual for details.)

1. Open the **System Preferences** utility and select **Displays**, **Display**, or **Color LCD**.
2. Click the **Arrange** or **Arrangement** tab.
3. Select the **Mirror Displays** checkbox.

Parent topic: Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

If the "Not Supported" message appears, try the following solutions:

- Make sure the correct input signal is selected on the Signal menu.
- Make sure the computer's display resolution does not exceed the projector's resolution and frequency limit. If necessary, select a different display resolution for your computer. (See your computer manual for details.)

Parent topic: Solving Image or Sound Problems

Solutions When Only a Partial Image Appears

If only a partial computer image appears, try the following solutions:

- Make sure the **Resolution** setting in the Image menu is set correctly for the input signal.
- Check the **Blanking** setting in the Signal menu.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution than the one you are projecting. (See your software help for details.)
- Make sure you selected the correct **Projection** setting in the Extended menu.
- If you are projecting in **Content Playback** mode, make sure you are using the correct **Overlay Effect** setting in the Settings menu.

Parent topic: Solving Image or Sound Problems

Solutions When the Image is Not Rectangular

If the projected image is not evenly rectangular, try the following solutions:

- Place the projector directly in front of the center of the screen, facing it squarely, if possible.
- If you are mounting the projector from the ceiling, use the adjustment controls on the mount at the time of installation.

- Adjust the image shape using the **Geometry Correction** menu settings.
- Adjust the **H/V-Keystone** setting to correct the image shape.
- Adjust the **Quick Corner** setting to correct the image shape.
- Adjust the **Curved Surface** setting to adjust the corners and sides of an image projected on a curved surface.
- Adjust the **Corner Wall** setting to correct the image shape projected on a curved surface with right angles.
- Adjust the **Point Correction** setting to correct slight distortion that affects a portion of the screen.
- If the projected image is bowed in the middle or the sides, then the projection surface is not flat. This type of distortion cannot be corrected from the projector's settings.

Parent topic: Solving Image or Sound Problems

Solutions When the Image Contains Noise or Static

If the projected image seems to contain electronic interference (noise) or static, try the following solutions:

- Check the cables connecting your computer or 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
- Check the settings on the projector's Signal menu to make sure they match the video source.
- Adjust the **Blanking** setting in the Installation menu to hide noise or static on the edges of the projected image.
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting to improve image quality.
- Make sure the correct **Video Range** or **EDID** settings are selected in the Signal menu.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
- When interlaced signals are input, line doubler processing is not performed,so the projected image may flicker. We recommend that interlaced signals be progressively converted using an external device before being input.

Parent topic: Solving Image or Sound Problems

Solutions When the Image is Fuzzy or Blurry

If the projected image is fuzzy or blurry, try the following solutions:

- Adjust the image focus.
- Clean the projector lens.

  Note: 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.

- Position the projector close enough to the screen.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Adjust the **Sharpness** setting to improve image quality.
- If you are projecting from a computer, use a lower resolution or adjust the computer's resolution to match the projector's native resolution, if possible.

Parent topic: Solving Image or Sound Problems

Solutions When the Image Brightness or Colors are Incorrect

If the projected image is too dark or light, or the colors are incorrect, try the following solutions:

- Press the **Color Mode** button on the remote control to try different color modes for the image and environment.
- Check your video source settings.
- Adjust the available settings on the Image menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, and/or **Color Saturation**.
- Make sure you selected the correct **RGBCMY** setting in the Image menu.
- Make sure you selected the correct **Video Range** or **EDID** setting on the Signal menu, if available for your image source.
- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.
- Make sure the **Light Output** setting in the Image menu is set correctly.
- Position the projector close enough to the screen.

- When using multiple projectors, make sure **Light Source Calibration** in the Reset menu is set correctly in all of the projectors. If light source calibration is performed only in some of the projectors, the white balance and the brightness level of the projected image may differ between the projectors.
- To achieve the best possible color output, it is recommended to have the projector professionally color-calibrated by an IFS-Certified calibrator. (Epson does not cover the cost of this service.)

Parent topic: Solving Image or Sound Problems

Solutions When an Afterimage Remains On the Projected Image

If you see an afterimage in the projected image, select **Refresh Mode** > **Start** in the Reset menu.

Parent topic: Solving Image or Sound Problems

Solutions to Sound Problems

If there is no sound when you expect it or the volume is too low or high, try the following solutions:

- Adjust the projector's volume settings.
- Press the **Shutter** button on the remote control to resume video and audio if they were temporarily stopped.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Check the audio cable connections between the projector and your video source.
- If you do not hear sound from an HDMI source, set the connected device to PCM output.
- Make sure any connected audio cables are labeled "No Resistance."
- If you are using a Mac and you do not hear sound from an HDMI source, make sure your Mac supports audio through the HDMI port. If not, you need to connect an audio cable.
- If the volume for the computer is set to the minimum while the projector's volume is set to maximum, the sound level may be mixed. Turn up the computer's volume and decrease the projector's volume (when using Epson iProjection [Windows/Mac]).

Parent topic: Solving Image or Sound Problems

Solving Projector or Remote Control Operation Problems

Check the solutions in these sections if you have problems operating the projector or remote control.

Solutions to Projector Power or Shut-Off Problems
Solutions to Remote Control Problems

Solutions to Password Problems

Parent topic: Solving Problems

Solutions to Projector Power or Shut-Off Problems

If the projector does not come on when you press the power button or it shuts off unexpectedly, try the following solutions:

- Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- The projector's buttons may be locked for security. Unlock the buttons or use the remote control to turn on the projector.
- If the projector's light source turns off unexpectedly, it may have entered sleep mode after a period of inactivity. Perform any operation to wake the projector. To turn off sleep mode, set the **Sleep Mode** setting to **Off** (**Menu** > **Extended** > **Operation** > **Sleep Mode**).
- If the projector's light source turns off unexpectedly, the A/V mute timer may be enabled. Select **Off** as the **A/V Mute Timer** setting.
- If the projector's light source turns off, the Status light is flashing, and the temp (temperature) light is lit, the projector has overheated and turned off. Check the solutions for this light status.
- If the power button on the remote control does not turn on the projector, check its batteries and make sure the **Remote Receiver** setting is turned on in the projector's menu, if available.
- The power cord may be defective. Try another power cord. If that doesn't work, disconnect the cord and contact Epson.
- 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.

Parent topic: Solving Projector or Remote Control Operation Problems

Solutions to Remote Control Problems

If the projector does not respond to remote control commands, try the following solutions:

- Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.
- Make sure you are operating the remote control within the reception angle and range of the projector.
- Make sure the projector is not warming up or shutting down.
- Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.

- 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.
- If available, turn on one of the remote receivers in the projector's menu system, or check if all the remote receivers were turned off in the Settings menu.
- If you assigned an ID number to the remote control to operate multiple projectors, you may need to check or change the ID setting.
- To set the remote control so it will operate any projector, set the remote **ID** switch to **Off**.
- If you lose the remote control, you can purchase another from an Epson parts distributor.

Parent topic: Solving Projector or Remote Control Operation Problems

Solutions to Password Problems

If you cannot enter or remember a password, try the following solutions:

- If you lose the remote control, you cannot enter a password. Order a new one from an Epson parts distributor.
- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson. Do not attempt to enter the password again. Provide the request code and proof of ownership for assistance in unlocking the projector.

  Note: If you perform **Reset All** or **Reset Network Settings** in the projector's menu, all of the passwords that have been set for the **Network** menu are also reset and you need to set them again. To prevent the passwords from being reset by unauthorized users, set **Network** to **On** in the **Menu Protection** menu.

Parent topic: Solving Projector or Remote Control Operation Problems

Solutions When a Battery Message Appears

If you see a message telling you that the battery that saves your clock settings is running low, contact Epson for help.

Parent topic: Solving Problems

Solutions to Problems Using Content Playback

If you cannot play back a playlist correctly, try the following solutions:

- Check the following on all projectors:
  - All projectors are the same model. If any of the projectors are a different model or have a different resolution, synchronized playback may not be performed properly.
  - Make sure the name, date, and time settings are correct.
  - Make sure all projectors are connected to the same network.
  - Make sure the **Content Playback** setting is turned on in the Settings menu.
- Make sure your USB device contains a playlist.
- Make sure your USB device is connected directly to the projector and not through a USB hub or card reader.
- If the USB device is partitioned, you may not be able to play back playlists. Delete all of the partitions before saving the playlists on your USB device.
- Do not share a playlist between projectors that are different in resolution. Color and shape effects added by using the **Overlay Effect** setting may not be reproduced correctly.

Parent topic: Solving Problems

Solving Network Problems

Check the solutions in these sections if you have problems using the projector on a network.

Solutions When You Cannot Access the Projector Through the Web
Solutions When the Image Contains Static During Network Projection

Parent topic: Solving Problems

Solutions When You Cannot Access the Projector Through the Web

If you are unable to access the projector through a web browser, make sure you are using the correct ID and password, which are case sensitive.

- For the user ID, enter **EPSONWEB**. (You cannot change the user ID.)
- For the password, enter the password set in the projector's Network menu. There is no default password.
- Make sure you have access to the network the projector is on.

- If your Web browser is set up to connect via a proxy server, the **Epson Web Control** screen cannot be displayed. Make settings for a connection without using a proxy server.
- If you set **Standby Mode** to **Communication On** in the projector's Extended menu, make sure the network device is turned on. After turning on the network device, turn on the projector and connect to a wired LAN.

Note: The user ID and password are case sensitive.

Parent topic: Solving Network Problems

Solutions When the Image Contains Static During Network Projection

If the projected image contains static during network projection, try the following solutions:

- Check for any obstacles between the access point, the computer, the mobile device, and the projector. If necessary, change their positions to improve communication. Also make sure that they are not too far apart; move them closer together and try to connect again.
- If the connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.
- If the connection speed declines, reduce the number of connected devices.

Parent topic: Solving Network Problems

Where to Get Help (U.S. and Canada)

If you need to contact Epson for technical support services, use the following support options.

Internet Support

Visit Epson's support website at epson.com/support (U.S.) or epson.ca/support (Canada) and select your product for solutions to common problems with your projector. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

To use the Epson PrivateLine Support service, call (800) 637-7661. This service is available for the duration of your warranty period. You may also speak with a projector support specialist by dialing (562) 276-4394 (U.S.) or (905) 709-3839 (Canada).

Support hours are Monday through Friday, 7 a.m. to 4 p.m., Pacific Time.

Days and hours of support are subject to change without notice. Toll or long distance charges may apply.

Before you call, have the following information ready:

- Product name
- Product serial number (located on the bottom or rear of the projector, or in the menu system)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

Purchase Supplies and Accessories

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).

You can purchase a replacement remote control from an Epson parts distributor here (U.S. sales) or here (Canadian sales).

Parent topic: Solving Problems

Where to Get Help (Latin America)

If you need to contact Epson for technical support services, use the following support options.

Internet Support

Visit Epson's support website at latin.epson.com/support and select your product for solutions to common problems with your projector. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

Before you call for support, please have the following information ready:

- Product name
- Product serial number (located on the bottom or rear of the projector, or in the projector's menu system)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

Then call:

Country	Telephone
Argentina	0800-288-37766
Bolivia*	800-100-116
Brazil	State capitals and metropolitan areas: 3004-6627 Other areas: 0800-377-6627 / 0800-EPSONBR
Chile	(56 2) 2484-3400
Colombia	Bogota: 601 602-4751 Other cities: 01-8000-915235
Costa Rica	800-377-6627
Dominican Republic*	1-888-760-0068
Ecuador*	1-800-000-044
El Salvador*	800-6570
Guatemala*	1-800-835-0358
Mexico	Mexico City: (52 55) 1323-2052 Other cities: 800-087-1080
Nicaragua*	00-1-800-226-0368
Panama*	00-800-052-1376
Paraguay	009-800-521-0019
Peru	Lima: (51 1) 418-0210 Other cities: 0800-10126
Uruguay	00040-5210067

*Contact your local phone company to call this toll-free number from a mobile phone.

Note: Toll or long distance charges may apply. If your country does not appear on the list, contact the sales office in the nearest country.

Purchase Supplies and Accessories

You can purchase optional accessories and replacement parts from an Epson authorized reseller. To find the nearest reseller, go to latin.epson.com. Or you can contact your nearest sales office as described in "Where to Get Help."

Parent topic: Solving Problems

Technical Specifications

These sections list the technical specifications of your projector.

General Projector Specifications
Projector Light Source Specifications
Remote Control Specifications
Projector Dimension Specifications
Projector Electrical Specifications
Projector Environmental Specifications
Projector Safety and Approvals Specifications

General Projector Specifications

Note: Specifications are based on having the standard zoom lens (ELPLM15) installed. The lens is not included with the projector.

Type of display	Poly-silicon TFT active matrix
Screen resolution	4K 8,294,400 dots (1920 × 1080 × 4)
Number of pixels	Full HD (1920 [W] × 1080 [H] dots × 3)
Color reproduction	Full color, up to 1.07 billion colors (depends on the interface)
Brightness	**EH-QL3000W/EH-QL3000B**:
(Color mode: Dynamic, Zoom: Wide, Lens shift: V Center / H Center)	White light output 6000 lumens
	Color light output 6000 lumens
	EH-QL7000W/EH-QL7000B
	White light output 10000 lumens
	Color light output 10000 lumens
Contrast ratio	5,000,000:1 exceeded (Dynamic Contrast Normal/High Speed)
Projection distance	Zoom (Wide): 77.95 inches to 1346 inches (1.98 m to 34.19 m)
(in native aspect ratio)	Zoom (Tele): 127.55 inches to 2176.37 inches (3.24 m to 55.28 m)
Projection methods	Front, rear, ceiling-mounted

Focus adjustment	Powered
Zoom adjustment	1.0 to 1.6 (Optical Zoom)
Lens	Optional lens supported. Standard lens: ELPLM15 (not included)
Lens shift	Powered Maximum vertical direction: Approx. ±64% Maximum horizontal direction: Approx. ±16%
Noise level	**EH-QL3000W/EH-QL3000B**: Light Source Mode Normal: 28 dB Light Source Mode Quiet: 26 dB **EH-QL7000W/EH-QL7000B**: Light Source Mode Normal: 33 dB Light Source Mode Quiet: 26 dB
Keystone correction angle	± 45° vertical (Tele Zoom) ± 30° horizontal (Tele Zoom)
USB Type A port compatibility	2 USB 2.0 compliant ports for wireless LAN, firmware update, copying menu settings, Content Playback, or power supply (5V/2A, 5V/0.9A)
Service port compatibility	USB 2.0 compliant for service and firmware update (USB Mini-B cable)

Parent topic: Technical Specifications

Projector Light Source Specifications

Note: Specifications are based on having the standard zoom lens (ELPLM15) installed. The lens is not included with the projector.

Type	Laser Diode

Light source output power	**EH-QL3000W/EH-QL3000B**: Up to 194 W **EH-QL7000W/EH-QL7000B**: Up to 252 W
Light source input power	Normal Light Source Mode Environment temperature: 77°F (25°C) **EH-QL3000W/EH-QL3000B**: Up to 261 W **EH-QL7000W/EH-QL7000B**: Up to 431 W
Wavelength	449 to 461 nm
Light source life	Up to about 20000 hours

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.

Parent topic: Technical Specifications

Remote Control Specifications

Reception range	32 feet (10 m)
Batteries	Two (2) alkaline or manganese AA

Parent topic: Technical Specifications

Projector Dimension Specifications

Dimensions do not include raised section.

Height (excluding feet)	7.12 inches (181 mm)
Width	22.36 inches (568 mm)
Depth	22.36 inches (568 mm)

Weight (without lens)	Approximately 46.5 lbs (21.1 kg)

Parent topic: Technical Specifications

Projector Electrical Specifications

Note: Specifications are based on having the standard zoom lens (ELPLM15) installed. The lens is not included with the projector.

Rated frequency	50/60 Hz
Power supply	**EH-QL3000W/EH-QL3000B**: 100 - 240 V AC ±10% 4.6 to 2.1 A **EH-QL7000W/EH-QL7000B**: 100 - 240 V AC ±10% 6.4 to 2.9 A
Power consumption (100 to 120 V)	**EH-QL3000W/EH-QL3000B**: Normal/Custom Light Source Mode: 453 W Quiet/Extended Light Source Mode: 357 W Standby: 0.5 W (Communication Off), 2.0 W (Communication On) **EH-QL7000W/EH-QL7000B**: Normal/Custom Light Source Mode: 636 W Quiet/Extended Light Source Mode: 328 W Standby: 0.5 W (Communication Off), 2.0 W (Communication On)

Power consumption (220 to 240 V)	**EH-QL3000W/EH-QL3000B**: Normal/Custom Light Source Mode: 437 W Quiet/Extended Light Source Mode: 346 W Standby: 0.5 W (Communication Off), 2.0 W (Communication On) **EH-QL7000W/EH-QL7000B**: Normal/Custom Light Source Mode: 612 W Quiet/Extended Light Source Mode: 318 W Standby: 0.5 W (Communication Off), 2.0 W (Communication On)

Parent topic: Technical Specifications

Projector Environmental Specifications

Note: Specifications are based on having the standard zoom lens (ELPLM15) installed. The lens is not included with the projector. Turn **High Altitude Mode** on when operating the projector above 4921 feet (1500 m).

Temperature (when using a single projector)	Operating: Up to 7500 feet (2286 m): 41 to 95 °F (5 to 35 °C) 7500 to 10000 feet (2286 to 3048 m): 41 to 86 °F (5 to 30 °C) Storage: 14 to 140 °F (–10 to 60 °C)
Thermal output (max.)	**EH-QL3000W/EH-QL3000B**: 100 to 120 V area: 1,540 BTU/h 220 to 240 V area: 1,486 BTU/h **EH-QL7000W/EH-QL7000B**: 100 to 120 V area: 2,162 BTU/h 220 to 240 V area: 2,081 BTU/h
Airflow (max.)	169 CFM

Humidity (relative, non-condensing)	Operating: 20 to 80% Storage: 10 to 90%
Operating altitude	Up to 10000 feet (3048 m) Above 4921 ft (1500 m), use **High Altitude Mode**

Parent topic: Technical Specifications

Projector Safety and Approvals Specifications

United States	FCC Part 15B Class B UL62368-1 3rd edition (cTUVus Mark)
Canada	ICES-003 Class B CSA C22.2 No. 62368-1-19 (cTUVus Mark)

Parent topic: Technical Specifications

Notices

Check these sections for important notices about your projector.

Recycling (U.S. and Canada)
Important Safety Information
Laser Safety Information
Important Safety Instructions
List of Safety Symbols
FCC Compliance Statement
Binding Arbitration and Class Waiver
Trademarks
Copyright Notice

Recycling (U.S. and Canada)

Epson offers a recycling program for end of life products. Please go to this site for information on how to return your products for proper disposal.

Parent topic: Notices

Important Safety Information

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. 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. 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: The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

Parent topic: Notices

Laser Safety Information

This product is a laser projector that projects images onto surfaces such as walls and screens.

This projector is a Class 1 laser product that complies with the following international standards for lasers:

- IEC60825-1:2014
- EN60825-1:2014+A11:2021
- EN50689:2021

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.
- As with any bright source, do not stare into the beam, RG2 IEC/EN 62471-5:2015.
- No direct exposure to the beam shall be permitted.
- Incorrect installation may cause the bright light that can damage your eyes.

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

Note: 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.

Laser Safety Labels

Parent topic: Notices

Laser Safety Labels

Laser warning labels are attached on the projector.

Note: The label attached to the projector varies by country and region.

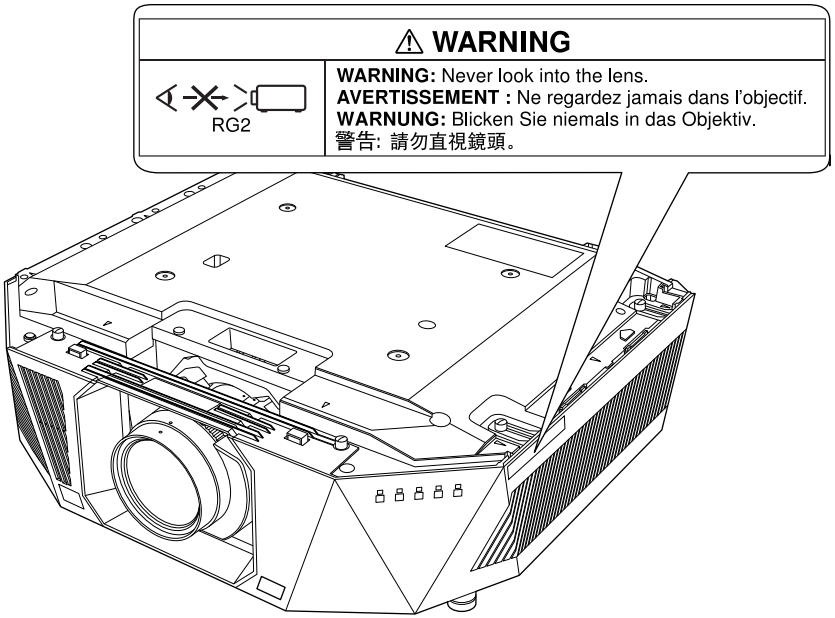
Inside



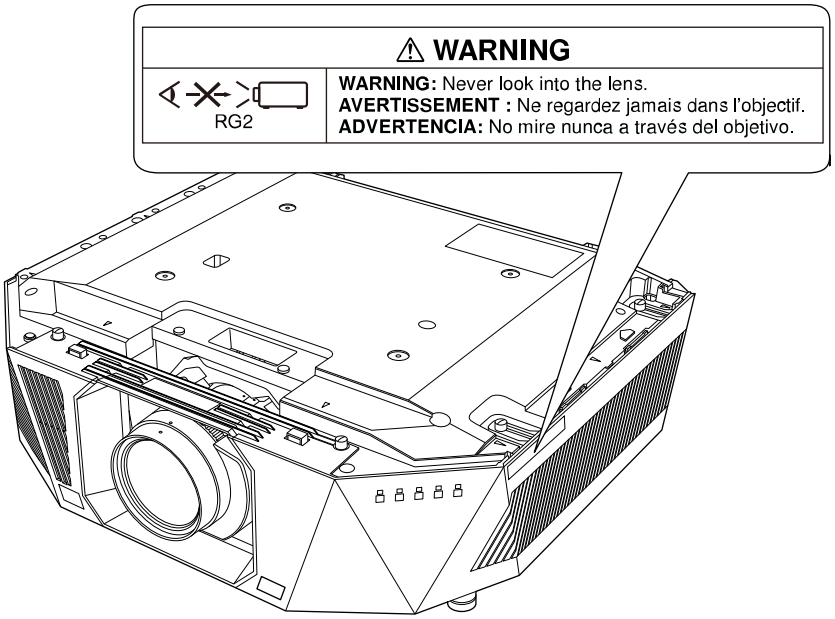
CAUTION/DANGER: CLASS 4 LASER RADIATION WHEN OPEN AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

Side

EH-QL3000W/EH-QL3000B



EH-QL7000W/EH-QL7000B



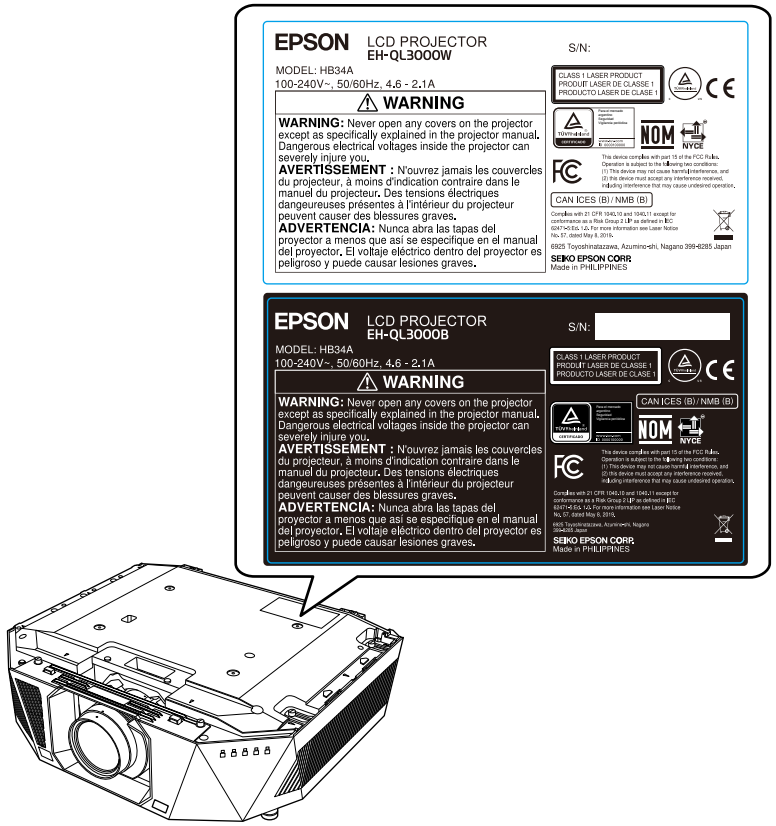
Warning:

- 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.

Top

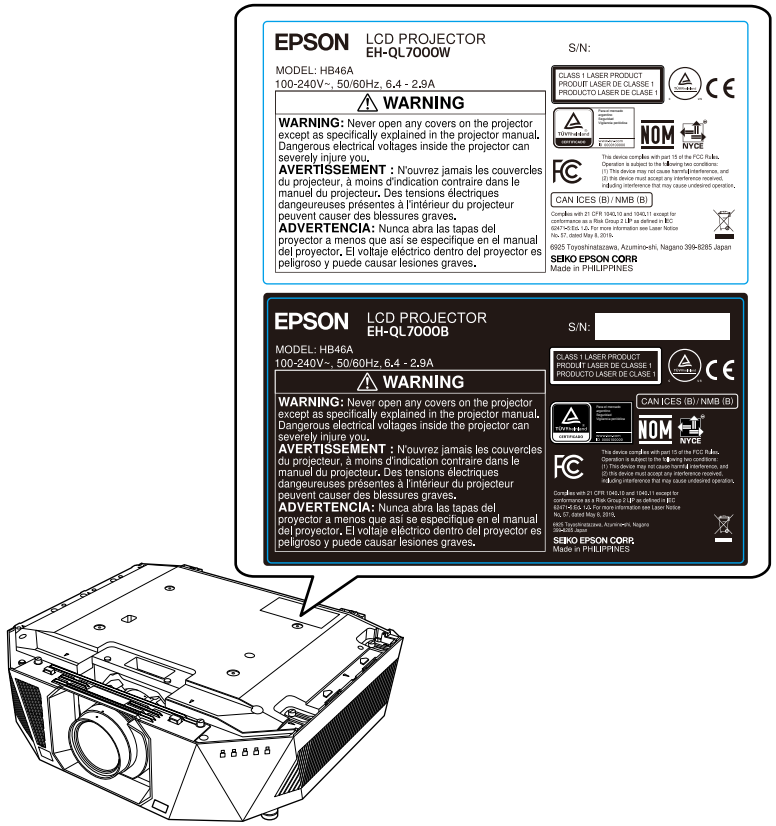
The rating label on the top of the projector provides certification and identification information for the projector.

EH-QL3000W/EH-QL3000B



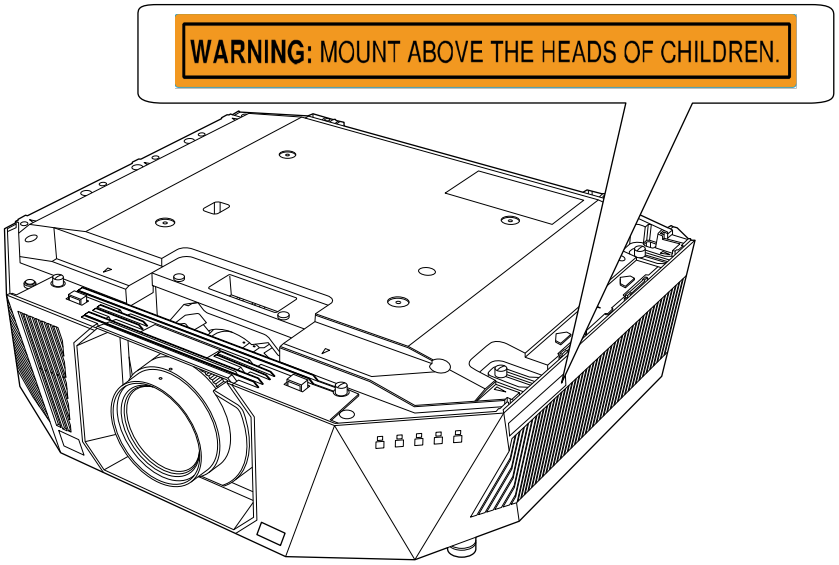
Complies with FDA performance standards for laser products except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5: Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.

EH-QL7000W/EH-QL7000B



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.

Warning: MOUNT ABOVE THE HEADS OF CHILDREN. The use of a ceiling mount is recommended with this product to place it above the eyes of children.



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.

Lens	Throw ratio	EH-QL3000B/ EH-QL3000W	EH-QL7000B/ EH-QL7000W
ELPLX02S/ELPLX02WS	0.34	RG2	RG2
ELPLU03/ELPLU03S	0.46 - 0.56		
ELPLU04	0.62 - 0.75		
ELPLW05	0.74 - 1.04		
ELPLW08	0.83 - 1.17		
ELPLW06	1.15 - 1.57		
ELPLM08	1.02 - 1.64		
ELPLM09/ELPLM15	1.52 - 2.47		
ELPLM10	2.34 - 3.59		
ELPLM11	3.42 - 5.23		
ELPLL08	5.09 - 7.16		

Parent topic: Laser Safety Information

Important Safety Instructions

Follow these safety instructions to avoid damage to the product and serious or fatal bodily injury:

Setup and operation

- Do not install the projector in locations exposed to high humidity and dust, such as on a kitchen counter, in the kitchen, or near a humidifier, or in locations exposed to oil smoke or steam. Doing so could cause fire or electric shock. 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

- Do not install the projector in a location that does not allow air to circulate, such as on a shelf or in a box.
- If an error occurs in the projector, turn off the power and unplug the projector immediately. Continuing to use the projector could result in an electric shock, fire, or visual impairment. Contact Epson support.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.
- Do not look into the lens when the projector is on. The bright light can damage your eyes. Avoid standing in front of the projector so the bright light does not shine into your eyes.
- Possibly hazardous optical radiation emitted from this product. Do not direct or reflect the laser light toward people or reflective objects. Do not look at the operating light source or expose your skin to it. Eye and/or skin injury may result if these instructions are not followed.
- Do not look into the lens using optical devices, such as a magnifying glass or telescope. This could cause visual impairment.
- Do not apply optical devices, such as a magnifying glass or reflector, to the projected image. Using the projector in this way may result in physical harm, fire, or an accident.
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers. Do not cover the projector with a blanket, curtain, or tablecloth. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the projector.
- Do not allow small children to operate the projector. Children must be accompanied by an adult.
- Before using the projector, make sure there is nothing in the area that could reflect the projected image.
- If the projector is mounted on a ceiling or wall, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- When installing or adjusting a ceiling or wall mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the projector case to crack and the

projector to fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector.

- Do not use the projector near water, sources of heat, high-voltage electrical wires, or sources of magnetic fields.
- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into a dusty outlet. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Do not overload wall outlets, extension cords, or power strips. Failure to comply with these precautions could result in fire or electric shock.
- Never allow objects of any kind to enter any openings in the projector. Do not leave objects, especially flammable objects, near the projector. Never spill liquid of any kind into the projector.
- Never open any covers on the projector except as specifically explained in this manual. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: if it does not operate normally when you follow the operating instructions, or exhibits a distinct change in performance; if smoke, strange odors, or strange noises come from the projector; if the power cord or plug is damaged or frayed; if liquid or foreign objects get inside the projector, or if it has been exposed to rain or water; if it has been dropped or the housing has been damaged.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Do not use the projector where flammable or explosive gases may be present.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not block the lens during projection using a book or any other object. This could damage the projector or cause a fire.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.
- Always attach the lens cover to the lens when not using the projector to prevent the lens from becoming dirty or damaged.

- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range below:

  32 to 122 °F (0 to 50 °C) at an altitude of 7500 feet (2286 m) or less, and 32 to 113 °F (0 to 45 °C) at an altitude of 7500 to 10000 feet (2287 to 3048 m) with a non-condensing humidity of 20 to 80%.

  Doing so may cause an unstable display and could lead to projector damage. Do not use or store the projector where it may be exposed to sudden changes in temperature.

  Light source brightness automatically dims if the surrounding temperature gets above 104 °F (40 °C) below 7500 feet (2286 m), or above 95 °F (35 °C) above 7500 feet (2286 m). This may vary depending on the surrounding environment.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress. Do not bring your face close to the projector while it is in use.
- Do not place the projector on an unstable cart, stand, or table.

Maintenance, storage, and transportation

- Unplug the projector from the wall outlet and allow to cool before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners, any sprays containing flammable gas, or solvents such as alcohol, paint thinner, or benzine.
- Do not open the projector's case. The projector contains a high-powered laser.
- Do not attempt to disassemble or modify the projector. The projector contains a high-power laser component. Serious injury could result.
- Do not store the projector outdoors for an extended length of time.
- Do not use or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.
- Unplug the projector when it will not be used for extended periods.
- Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) with non-condensing humidity of 20 to 80% or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- When disposing of the projector, do not disassemble it. Dispose of the projector in accordance with your local or national laws and regulations.

Restriction of Use

Parent topic: Notices

Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive; disaster prevention devices; various safety devices; or functional/precision devices, 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, please make your own judgment on this product's suitability after a full evaluation.

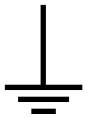
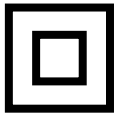
Parent topic: Important Safety Instructions

List of Safety Symbols

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

No.	Symbol	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.

No.	Symbol	Approved Standards	Description
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 DC power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC power supply may be connected.
9		—	Polarity of DC power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC. power supply may be connected.
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.

No.	Symbol	Approved Standards	Description
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		—	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
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.
17		IEC60417 No. 5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.

No.	Symbol	Approved Standards	Description
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 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.

No.	Symbol	Approved Standards	Description
26		IEC 60417 No. 6056	Caution (moving fan blades) To indicate that you must keep away from the moving fan blades.
27		IEC 60417 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) Take 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.

Parent topic: Notices

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.

For Canadian Users

CAN ICES (B) / NMB (B)

Parent topic: Notices

Binding Arbitration and Class Waiver

1. DISPUTES, BINDING INDIVIDUAL ARBITRATION, AND WAIVER OF CLASS ACTIONS AND CLASS ARBITRATIONS

1.1 **Disputes**. The terms of this Section 1 shall apply to all Disputes between you and Epson. The term "Dispute" is meant to have the broadest meaning permissible under law and includes any dispute, claim, controversy or action between you and Epson arising out of or relating to this Agreement, Epson branded products (hardware and including any related software), or other transaction involving you and Epson, whether in contract, warranty, misrepresentation, fraud, tort, intentional tort, statute, regulation, ordinance, or any other legal or equitable basis. "DISPUTE" DOES NOT INCLUDE IP CLAIMS, or more specifically, a claim or cause of action for (a) trademark infringement or dilution, (b) patent infringement, (c) copyright infringement or misuse, or (d) trade secret misappropriation (an "IP Claim"). You and Epson also agree, notwithstanding Section 1.6, that a court, not an arbitrator, may decide if a claim or cause of action is for an IP Claim.

1.2 **Binding Arbitration**. You and Epson agree that all Disputes shall be resolved by binding arbitration according to this Agreement. **ARBITRATION MEANS THAT YOU WAIVE YOUR RIGHT TO A JUDGE OR JURY IN A COURT PROCEEDING AND YOUR GROUNDS FOR APPEAL ARE LIMITED**. Pursuant to this Agreement, binding arbitration shall be administered by JAMS, a nationally recognized

arbitration authority, pursuant to its code of procedures then in effect for consumer related disputes, but excluding any rules that permit joinder or class actions in arbitration (for more detail on procedure, see Section 1.6 below). You and Epson understand and agree that (a) the Federal Arbitration Act (9 U.S.C. §1, et seq.) governs the interpretation and enforcement of this Section 1, (b) this Agreement memorializes a transaction in interstate commerce, and (c) this Section 1 shall survive termination of this Agreement.

1.3 **Pre-Arbitration Steps and Notice**. Before submitting a claim for arbitration, you and Epson agree to try, for sixty (60) days, to resolve any Dispute informally. If Epson and you do not reach an agreement to resolve the Dispute within the sixty (60) days), you or Epson may commence an arbitration. Notice to Epson must be addressed to: Epson America, Inc., ATTN: Legal Department, 3131 Katella Ave., Los Alamitos, CA 90720 (the "Epson Address"). The Dispute Notice to you will be sent to the most recent address Epson has in its records for you. For this reason, it is important to notify us if your address changes by emailing us at EAILegal@ea.epson.com or writing us at the Epson Address above. Notice of the Dispute shall include the sender's name, address and contact information, the facts giving rise to the Dispute, and the relief requested (the "Dispute Notice"). Following receipt of the Dispute Notice, Epson and you agree to act in good faith to resolve the Dispute before commencing arbitration.

1.4 **Small Claims Court**. Notwithstanding the foregoing, you may bring an individual action in the small claims court of your state or municipality if the action is within that court's jurisdiction and is pending only in that court.

1.5 **WAIVER OF CLASS ACTIONS AND CLASS ARBITRATIONS. YOU AND EPSON AGREE THAT EACH PARTY MAY BRING DISPUTES AGAINST THE OTHER PARTY ONLY IN AN INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY CLASS OR REPRESENTATIVE PROCEEDING, INCLUDING WITHOUT LIMITATION FEDERAL OR STATE CLASS ACTIONS, OR CLASS ARBITRATIONS. CLASS ACTION LAWSUITS, CLASS-WIDE ARBITRATIONS, PRIVATE ATTORNEY-GENERAL ACTIONS, AND ANY OTHER PROCEEDING WHERE SOMEONE ACTS IN A REPRESENTATIVE CAPACITY ARE NOT ALLOWED. ACCORDINGLY, UNDER THE ARBITRATION PROCEDURES OUTLINED IN THIS SECTION, AN ARBITRATOR SHALL NOT COMBINE OR CONSOLIDATE MORE THAN ONE PARTY'S CLAIMS WITHOUT THE WRITTEN CONSENT OF ALL AFFECTED PARTIES TO AN ARBITRATION PROCEEDING.**

1.6 **Arbitration Procedure**. If you or Epson commences arbitration, the arbitration shall be governed by the rules of JAMS that are in effect when the arbitration is filed, excluding any rules that permit arbitration on a class or representative basis (the "JAMS Rules"), available at http://www.jamsadr.com or by calling 1-800-352-5267 (U.S. or Canada), or https://www.jamsadr.com/about/ or by calling +1-949-224-1810 (Latin America), and under the rules set forth in this Agreement. All Disputes shall be resolved by a single neutral arbitrator, and both parties shall have a reasonable opportunity to participate in the selection of the arbitrator. The arbitrator is bound by the terms of this Agreement. The arbitrator, and not any federal, state or local court or agency, shall have exclusive authority to resolve all disputes arising out of or relating to the interpretation, applicability, enforceability or formation of this Agreement,

including any claim that all or any part of this Agreement is void or voidable. Notwithstanding this broad delegation of authority to the arbitrator, a court may determine the limited question of whether a claim or cause of action is for an IP Claim, which is excluded from the definition of "Disputes" in Section 1.1 above. The arbitrator shall be empowered to grant whatever relief would be available in a court under law or in equity. The arbitrator may award you the same damages as a court could, and may award declaratory or injunctive relief only in favor of the individual party seeking relief and only to the extent necessary to provide relief warranted by that party's individual claim. In some instances, the costs of arbitration can exceed the costs of litigation and the right to discovery may be more limited in arbitration than in court. The arbitrator's award is binding and may be entered as a judgment in any court of competent jurisdiction.

You may choose to engage in arbitration hearings by telephone. Arbitration hearings not conducted by telephone shall take place in a location reasonably accessible from your primary residence, or in Orange County, California, at your option.

a) Initiation of Arbitration Proceeding. If either you or Epson decides to arbitrate a Dispute, both parties agree to the following procedure:

(i) Write a Demand for Arbitration. The demand must include a description of the Dispute and the amount of damages sought to be recovered. You can find a copy of a Demand for Arbitration at http://www.jamsadr.com ("Demand for Arbitration").

(ii) Send three copies of the Demand for Arbitration, plus the appropriate filing fee, to: JAMS, 500 North State College Blvd., Suite 600 Orange, CA 92868, U.S.A.

(iii) Send one copy of the Demand for Arbitration to the other party (same address as the Dispute Notice), or as otherwise agreed by the parties.

b) Hearing Format. During the arbitration, the amount of any settlement offer made shall not be disclosed to the arbitrator until after the arbitrator determines the amount, if any, to which you or Epson is entitled. The discovery or exchange of non-privileged information relevant to the Dispute may be allowed during the arbitration.

c) Arbitration Fees. Epson shall pay, or (if applicable) reimburse you for, all JAMS filings and arbitrator fees for any arbitration commenced (by you or Epson) pursuant to provisions of this Agreement.

d) Award in Your Favor. For Disputes in which you or Epson seeks $75,000 or less in damages exclusive of attorney's fees and costs, if the arbitrator's decision results in an award to you in an amount greater than Epson's last written offer, if any, to settle the Dispute, Epson will: (i) pay you $1,000 or the amount of the award, whichever is greater; (ii) pay you twice the amount of your reasonable attorney's fees, if any; and (iii) reimburse you for any expenses (including expert witness fees and costs) that your attorney reasonably accrues for investigating, preparing, and pursuing the Dispute in arbitration. Except as agreed upon by you and Epson in writing, the arbitrator shall determine the amount of fees, costs, and expenses to be paid by Epson pursuant to this Section 1.6d).

e) Attorney's Fees. Epson will not seek its attorney's fees and expenses for any arbitration commenced involving a Dispute under this Agreement. Your right to attorney's fees and expenses under Section 1.6d) above does not limit your rights to attorney's fees and expenses under applicable law; notwithstanding the foregoing, the arbitrator may not award duplicative awards of attorney's fees and expenses.

1.7 **Opt-out. You may elect to opt-out (exclude yourself) from the final, binding, individual arbitration procedure and waiver of class and representative proceedings specified in this Agreement by sending a written letter to the Epson Address within thirty (30) days of your assent to this Agreement (including without limitation the purchase, download, installation of the Software or other applicable use of Epson Hardware, products and services) that specifies (i) your name, (ii) your mailing address, and (iii) your request to be excluded from the final, binding individual arbitration procedure and waiver of class and representative proceedings specified in this Section 1. In the event that you opt-out consistent with the procedure set forth above, all other terms shall continue to apply, including the requirement to provide notice prior to litigation.**

1.8 **Amendments to Section 1**. Notwithstanding any provision in this Agreement to the contrary, you and Epson agree that if Epson makes any future amendments to the dispute resolution procedure and class action waiver provisions (other than a change to Epson's address) in this Agreement, Epson will obtain your affirmative assent to the applicable amendment. If you do not affirmatively assent to the applicable amendment, you are agreeing that you will arbitrate any Dispute between the parties in accordance with the language of this Section 1 (or resolve disputes as provided for in Section 1.7, if you timely elected to opt-out when you first assented to this Agreement).

1.9 **Severability**. If any provision in this Section 1 is found to be unenforceable, that provision shall be severed with the remainder of this Agreement remaining in full force and effect. **The foregoing shall not apply to the prohibition against class or representative actions as provided in Section 1.5. This means that if Section 1.5 is found to be unenforceable, the entire Section 1 (but only Section 1) shall be null and void.**

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