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# Pro L1490U/L1490UNL/L1495U/ L1495UNL/ L1500UH/L1500UHNL/ L1505UH/L1505UHNL/L1715SNL/ L1750UNL/L1755UNL User's Guide

# Contents

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# Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1715SNL/L1750UNL/L1755UNL User's Guide

Welcome to the Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1715SNL/L1750UNL/L1755UNL *User's Guide*.

For a printable PDF copy of this guide, click here.

# 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
Projector Part Locations

## Projector Features

Your projector includes these special features:

**Bright, high-resolution projection system**

- Pro L1490U/L1490UNL/L1495U/L1495UNL: Up to 9000 lumens of brightness (white light output and color light output)

  Pro L1500UH/L1500UHNL/L1505UH/L1505UHNL: Up to 12000 lumens of brightness (white light output and color light output)

  Pro L1715SNL/L1750UNL/L1755UNL: Up to 15000 lumens of brightness (white light output and color 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.

  **Note:** Some lenses will not support the maximum brightness level of the Pro L1715SNL/L1750UNL/L1755UNL. Visit epson.com/lenssupport (U.S.) or epson.com/soutienobjectifs (Canada) for details.

- Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL: Native resolution of 1920 × 1200 pixels (WUXGA)

  Pro L1715SNL: Native resolution of 1400 × 1050 pixels (SXGA+)

**Flexible connectivity**

- Wired and wireless (optional) network support for projection, monitoring, and control via remote network computer

- Variety of connection methods for a computer or video device including HDMI, BNC, DVI-D, SDI (not available for Pro L1715SNL), and HDBaseT
- Ports for connecting an external monitor and external speakers

**Easy-to-use setup and operation features**

- Interchangeable bayonet lens options available
- Project images side by side from two separate input sources
- Create one large seamless display when projecting from multiple projectors using Edge Blending
- Epson's Instant Off and Direct Power On features for quick setup and shut down
- Support for Crestron RoomView network monitoring systems
- Network message broadcast system to project timely messages to all networked projectors (Windows only)

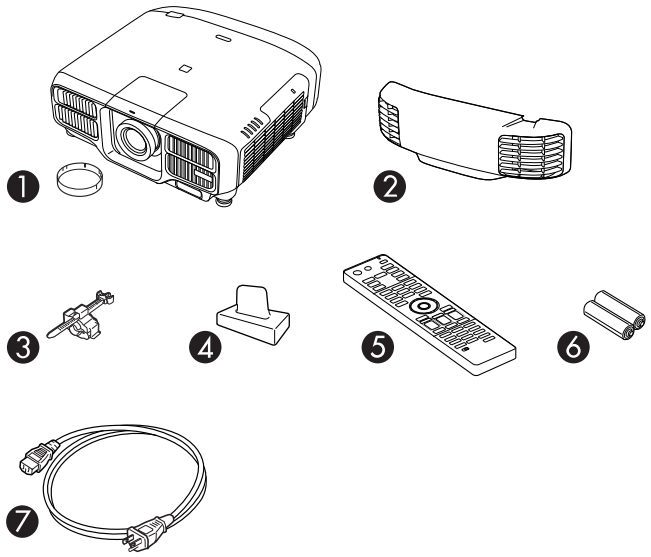
Product Box Contents
Additional Components
Additional Projector Software and Manuals
Optional Equipment and Replacement Parts
Warranty and Registration Information

**Parent topic:** Introduction to Your Projector

## Product Box Contents

Save all the packaging in case you need to ship the projector. Always use the original packaging (or equivalent) when shipping.

Make sure your projector box included all of these parts:



1 Projector with standard zoom lens and lens cap
2 Cable cover
3 Cable clip
4 Lens connector cap
5 Remote control
6 Remote control batteries (two AA alkaline)
7 Power cord

**Parent topic:** Projector Features

## Additional Components

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

**Note:** To connect a 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 that allows you to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer for compatible adapter options.

Unless listed as available from Epson in this table, see your local computer or electronics dealer for purchase information.

| Signal or connection type | Additional component necessary |
|---|---|
| Component video | Component-to-BNC or D-sub, 15-pin, component-to-VGA video cable or adapter<br>Available for purchase from Epson or an authorized Epson reseller. |
| HDMI | Compatible HDMI cable<br>Available for purchase from Epson or an authorized Epson reseller.<br><br>**Note:** Older Mac computers (2009 and earlier) may not support HDMI audio. |
| 3D | Three compatible HDMI cables, a splitter that supports 3D signals, and a silver screen (recommended gain: 2.3 to 2.7)<br>You can purchase HDMI cables from Epson or an authorized Epson reseller.<br><br>**Note:** If your video source is a 3D Blu-ray disc, you also need a Blu-ray player that supports 3D playback. See your local computer or electronics dealer for purchase information. |
| Audio from certain ports | Commercially available audio cable compatible with your device |
| VGA | To connect a computer through its VGA port to the projector's VGA video port, you need a VGA computer cable. |
| BNC | VGA-to-5-BNC cable or adapter<br>Available for purchase from Epson or an authorized Epson reseller. |
| DVI-D | Compatible DVI-D cable |
| HDBaseT | Compatible 100Base-TX LAN cable |

| Signal or connection type | Additional component necessary |
|---|---|
| SDI<br>(not available for Pro L1715SNL) | Compatible BNC video cable |

**Parent topic:** Projector Features

**Related concepts**

Projector Connections

## Additional Projector Software and Manuals

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.

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. For details, see "Where to Get Help."

| Projector software | Manual | Description |
|---|---|---|
| Epson Projector Management (Windows only) | *Epson Projector Management Operation Guide* | Lets you monitor and control your projector through the network.<br>You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector. |
| Epson iProjection (Windows/Mac) | *Epson iProjection Operation Guide (Windows/Mac)* | Lets you project the computer screens of users over a network.<br>You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector. |

| Projector software | Manual | Description |
|---|---|---|
| EasyMP Network Updater (Windows only) | *EasyMP Network Updater Operation Guide* | Lets you update firmware for a projector over a wired LAN.<br>You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector. |
| Epson iProjection app | Instructions are included with the app | Lets you project from an iOS device, Android device, or Chromebook if your projector is connected to a network that includes a wireless access point.<br>Visit epson.com/iprojection (U.S.) or epson.ca/iprojection (Canada) for more information. |
| Epson Projector Professional Tool | *Epson Projector Professional Tool Operation Guide* | Lets you manage multiple Epson projectors simultaneously<br>You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector. |
| — | *Open Source Software License* | You can download this document from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector. |

**Parent topic:** Projector Features

## Optional Equipment and Replacement Parts

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).

Epson offers the following optional accessories and replacement parts for your projector:

| Option or part | Part number |
|---|---|
| Air filter (ELPAF51) | V13H134A51 |

| Option or part | Part number |
|---|---|
| Wireless LAN module (ELPAP10) | V12H731P02 |
| HDBaseT Transmitter (ELPHD01) | V12H547020 |
| Replacement remote control | 158279900 |
| Remote control cable set (ELPKC28) | V12H005C28 |
| Passive 3D glasses for adults (ELPGS02A; Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL only) | V12H541A20 |
| Passive 3D glasses for children (ELPGS02B; Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL only) | V12H541B20 |
| Passive 3D Polarizer (ELPPL01; Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL only) | V12H618A01 |
| Low ceiling mount (ELPMB47) | V12H802010 |
| High ceiling mount (ELPMB48) | V12H803010 |
| Ultra short throw zoom lens (ELPLX02) | V12H004X02 |
| Short-throw #1 zoom lens (ELPLU03) | V12H004U03 |
| Short-throw #2 zoom lens (ELPLU04) | V12H004U04 |
| Wide-throw #1 zoom lens (ELPLW05) | V12H004W05 |
| Wide-throw #2 zoom lens (ELPLW06) | V12H004W06 |
| Middle-throw #2 zoom lens (ELPLM15; standard zoom lens) | V12H004M0F |
| Middle-throw #3 zoom lens (ELPLM10) | V12H004M0A |
| Middle-throw #4 zoom lens (ELPLM11) | V12H004M0B |
| Long-throw zoom lens (ELPLL08) | V12H004L08 |

**Note:** The following older lenses are also supported: ELPLU02, ELPLR04, ELPLW04, ELPLS04, ELPLM06, ELPLM07, ELPLL07.

**Parent topic:** Projector Features

## Warranty and Registration Information

Your projector comes with a basic warranty that lets you project with confidence. For details, see the warranty that came with your projector.

In addition, Epson offers free Extra Care Road Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, Epson will ship you a replacement unit anywhere in the United States, Canada, or Puerto Rico. See the Extra Care Road Service brochure for details.

**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

# 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:

- Built-in help system

  Press the **Home** button on the remote control or projector, select **Help**, and press **Enter** to get quick solutions to common problems.

- epson.com/support (U.S.), epson.ca/support (Canada), or epson.com.jm/support (Caribbean)

  View FAQs (frequently asked questions) and e-mail your questions to Epson technical support 24 hours a day.

- If you still need help after checking this manual and any other sources listed here, you can use the Epson PrivateLine Support service to get help fast. For details, see "Where to Get Help."

**Parent topic:** Introduction to Your Projector

**Related references**

Where to Get Help

**Related tasks**

Using the Projector Help Displays

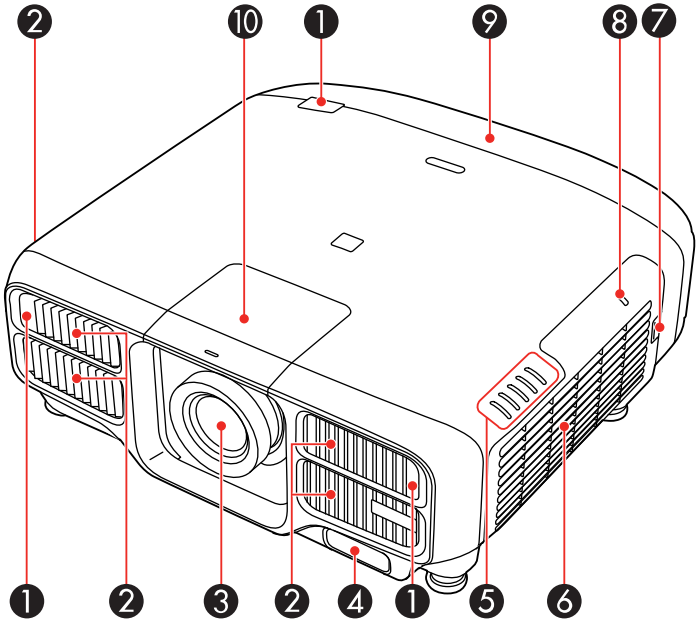
# Projector Part Locations

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

Projector Parts - Front/Top
Projector Parts - Rear
Projector Parts - Interface Ports
Projector Parts - Base
Projector Parts - Control Panel
Projector Parts - Remote Control

**Parent topic:** Introduction to Your Projector

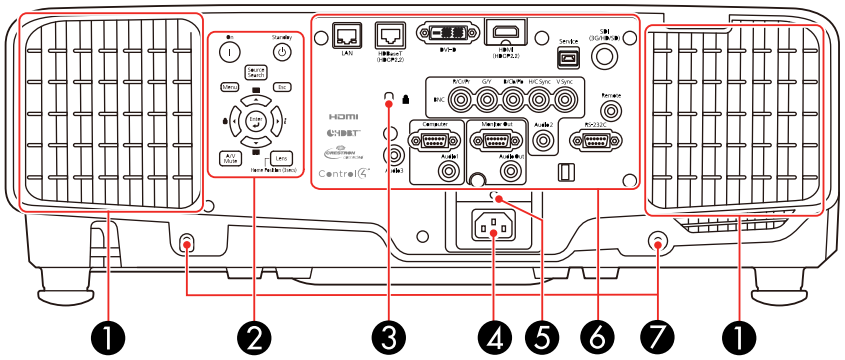
## Projector Parts - Front/Top



1 Remote receiver
2 Air intake vents
3 Projection lens
4 Built-in camera
5 Projector status lights
6 Air filter cover/intake vent
7 Air filter cover latch
8 Wireless LAN module indicator light
9 Cable cover
10 Lens replacement cover

**Parent topic:** Projector Part Locations

## Projector Parts - Rear



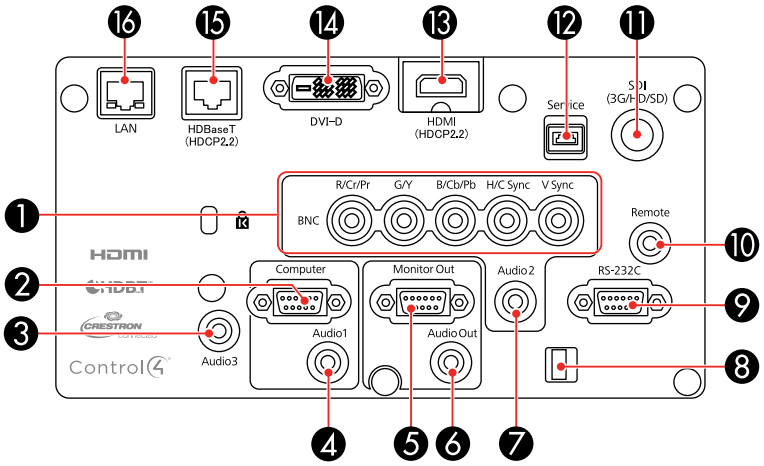

1 Air exhaust vents
2 Control panel
3 Kensington security slot
4 AC input
5 Cable clip slot

6 Interface ports

7 Cable cover screw holes

**Parent topic:** Projector Part Locations

## Projector Parts - Interface Ports




1 **BNC** ports

2 **Computer** port

3 **Audio3** port

4 **Audio1** port

5 **Monitor Out** port

6 **Audio Out** port

7 **Audio2** port

8 Cable clip slot

9 **RS-232C** port

10 **Remote** port

11 **SDI** port (not available for Pro L1715SNL)

12 **Service** port

13 **HDMI** port

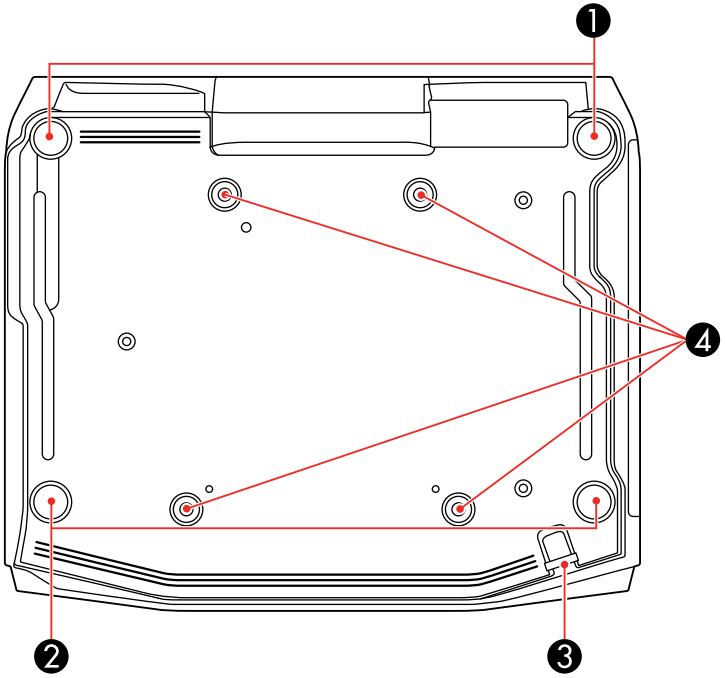
14 **DVI-D** port

15 **HDBaseT** port

16 Network **LAN** port

**Parent topic:** Projector Part Locations

## Projector Parts - Base




1 Front adjustable feet

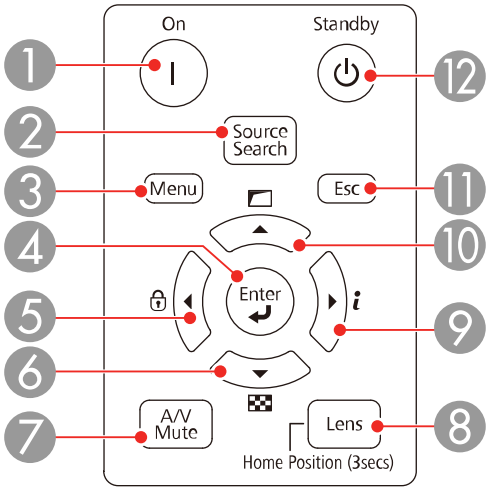
2 Rear feet

3 Security cable attachment point

4 Mounting bracket holes

**Parent topic:** Projector Part Locations

## Projector Parts - Control Panel




1 **On** button (turns on the projector)

2 **Source Search** button (searches for connected sources)

3 **Menu** button (accesses projector menu system)

4 **Enter** button (selects options)

5 Left arrow button and displays the Control Panel Lock screen

6 Down arrow button and displays a test pattern

7 **A/V Mute** button (turns the video and audio on or off)

8 **Lens** button (displays the lens shift, zoom, focus, and distortion adjustment screens; hold for 3 seconds to return the lens to the home position)

9 Right arrow button and displays the Info menu

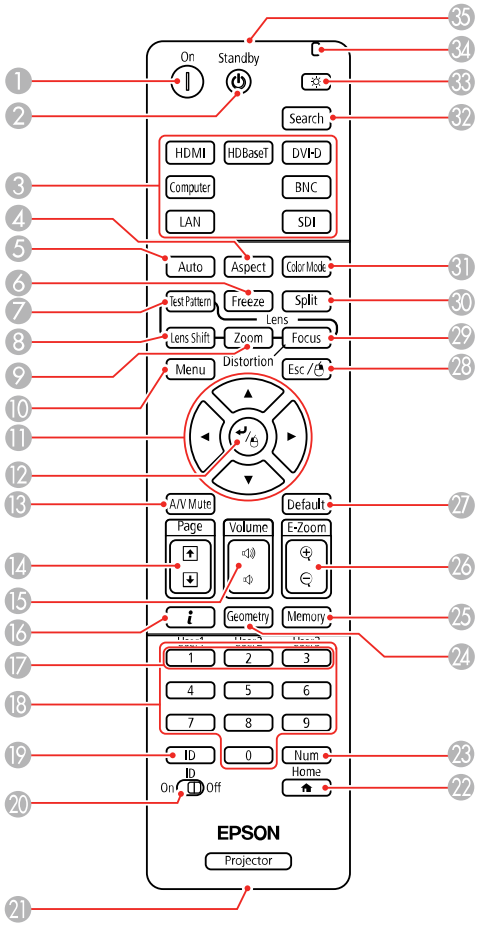
10 Up arrow button and displays screen adjustment options

11 **Esc** button (cancels/exits functions)

12 **Standby** button (turns off the projector)

**Parent topic:** Projector Part Locations

## Projector Parts - Remote Control




1 **On** button (turns on the projector)

2 **Standby** button (turns off the projector)

3 Source buttons (select an image source)

4 **Aspect** button (selects the image aspect ratio)

5 **Auto** button (automatically adjusts computer images)

6 **Freeze** button (stops video action)

7 **Test Pattern** button (displays a test pattern)

8 **Lens Shift** button (adjusts the image position)

9 **Zoom** button (changes the image size)

10 **Menu** button (accesses projector menu system)

11 Arrow buttons (move through on-screen options and move pointer)

12 Enter button (selects options and left mouse button)

13 **A/V Mute** button (turns the video and audio on or off)

14 **Page** up and down buttons (scroll through image files when projecting from a computer over a network connection)

15 **Volume** up and down buttons (adjust volume)

16 **i** button (displays the Info menu)

17 **User1**, **User2**, and **User3** buttons (open menu assigned by user)

18 Numeric buttons (enter numbers)

19 **ID** button (hold down and use numeric keys to select projector to control)

20 **ID** switch (controls one or all projectors)

21 Remote port (connects to a remote control cable)

22 **Home** button (displays the Home screen)

23 **Num** button (hold down and use numeric keys to enter numbers)

24 **Geometry** button (corrects image distortion)

25 **Memory** button (saves and applies presets)

26 **E-Zoom +/–** buttons (zoom into and out of the image)

27 **Default** button (resets settings to their default values in the projector menu system)

28 **Esc** button (cancels/exits functions and right mouse button)

29 **Focus** button (adjusts the image focus)

30 **Split** button (splits the screen between two inputs)

31 **Color Mode** button (selects display modes)

32 **Search** button (searches for connected sources)

33 Light button (lights up the remote control buttons temporarily)

34 Indicator light (lights up when the remote control is in use)

35 Remote control signal emitter (emits remote control signals)

**Parent topic:** Projector Part Locations

# Setting Up the Projector

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

Projector Placement
Projector Connections
Attaching and Removing a Lens
Attaching and Removing the Cable Cover
Attaching and Removing the Cable Clip
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.

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.
- 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.
- Position the projector within reach of a grounded electrical outlet or extension cord.

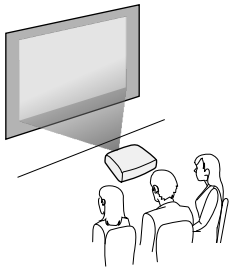
Projector Setup and Installation Options
Projection Distance

**Parent topic:** Setting Up the Projector

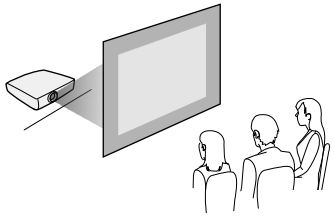
## Projector Setup and Installation Options

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

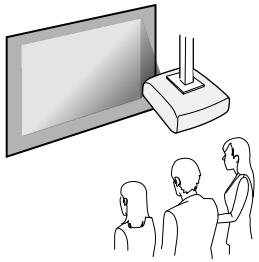
Front



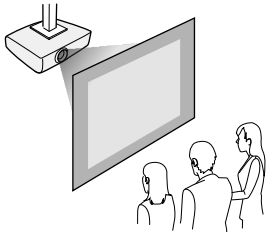
Rear



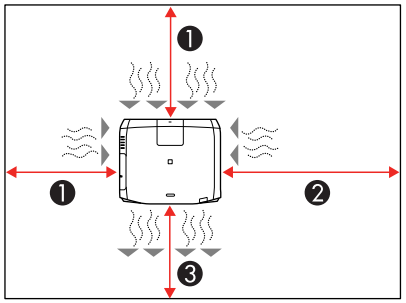
Front ceiling



Rear ceiling

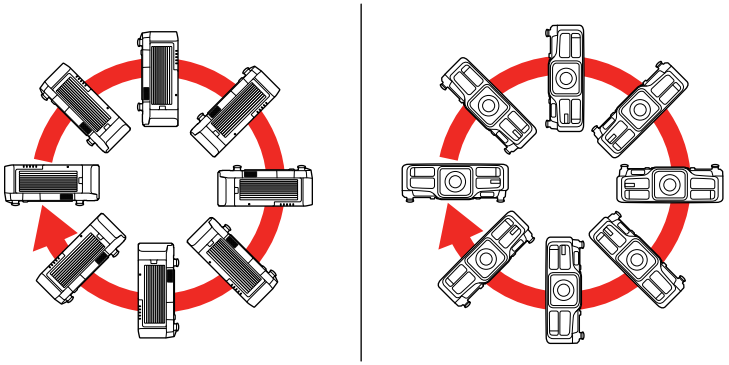


**Caution:** Be sure to leave the following amount of space around the projector to avoid blocking the air exhaust and intake vents.




| | |
|---|---|
| 1 | 19.7 inches (50 cm) |
| 2 | 31.5 inches (80 cm) |
| 3 | 15.7 inches (40 cm) |

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



If you are installing multiple projectors next to each other, be sure to leave at least 20 inches (50 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.

If you project from the ceiling or from the rear, select the correct **Projection** setting and, if necessary, turn on the **Inv Direction Button** setting and adjust the **OSD Rotation** setting.

**Parent topic:** Projector Placement

**Related references**

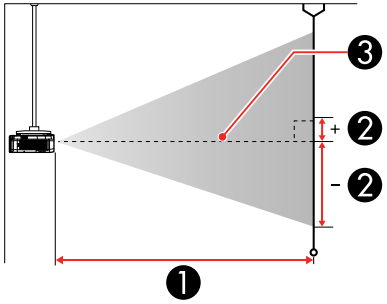
Projector Setup Settings - Extended Menu

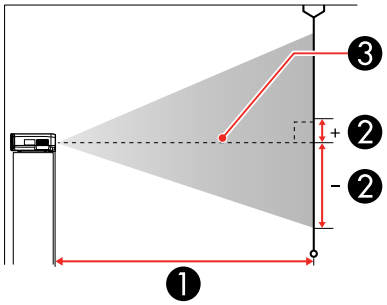
## Projection Distance

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.

**Note:** Image sizes over 500" may result in a loss of image detail.

Use the tables here to determine approximately how far to place the projector from the screen based on the size of the projected image. (Conversion figures may have been rounded up or down.) You can also use the Projection Distance Calculator here (U.S.), here (Canada), or here (Caribbean).




1 Projection distance

2 Distance from the center of the lens to the base of the image (varies depending on vertical lens shift)

3 Center of lens

**Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL (Standard Zoom Lens)**

| 16:10 Aspect Ratio Image or Screen | | |
|---|---|---|
| **Screen or image size** | **Projection distance (1)**<br>**Wide to Tele (Minimum to Maximum)** | **Vertical lens shift (2)**<br>**Top to bottom** |
| 60 inches | 78 to 128 inches<br>(199 to 326 cm) | –35 to 3.2 inches<br>(–89 to 8 cm) |
| 80 inches | 105 to 172 inches<br>(268 to 438 cm) | –46.7 to 4.3 inches<br>(–119 to 11 cm) |
| 100 inches | 133 to 216 inches<br>(337 to 549 cm) | –58.3 to 5.3 inches<br>(–148 to 14 cm) |
| 120 inches | 160 to 260 inches<br>(406 to 661 cm) | –70 to 6.4 inches<br>(–178 to 16 cm) |
| 150 inches | 201 to 326 inches<br>(509 to 828 cm) | –87.5 to 8 inches<br>(–222 to 20 cm) |
| 200 inches | 269 to 436 inches<br>(682 to 1106 cm) | –116.7 to 10.7 inches<br>(–296 to 27 cm) |
| 300 inches | 404 to 655 inches<br>(1027 to 1663 cm) | –175 to 16 inches<br>(–444 to 41 cm) |
| 500 inches | 676 to 1093 inches<br>(1717 to 2777 cm) | –291.7 to 26.7 inches<br>(–741 to 68 cm) |
| 800 inches | 1084 to 1752 inches<br>(2753 to 4449 cm) | -466.5 to 42.5 inches<br>(-1185 to 108 cm) |
| 1000 inches | 1356 to 2190 inches<br>(3443 to 5563 cm) | -583.4 to 53.1 inches<br>(-1482 to 135 cm) |

**Pro L1715SNL (Standard Zoom Lens)**

| 4:3 Aspect Ratio Image or Screen | | |
|---|---|---|
| **Screen or image size** | **Projection distance (1)**<br>**Wide to Tele (Minimum to Maximum)** | **Vertical lens shift (2)**<br>**Top to bottom** |
| 60 inches | 76 to 125 inches<br>(193 to 318 cm) | –37.8 to 1.8 inches<br>(–96 to 5 cm) |
| 80 inches | 103 to 168 inches<br>(260 to 427 cm) | –50.4 to 2.4 inches<br>(–128 to 6 cm) |
| 100 inches | 129 to 211 inches<br>(328 to 536 cm) | –63.0 to 3 inches<br>(–160 to 8 cm) |
| 120 inches | 155 to 254 inches<br>(395 to 644 cm) | –75.6 to 3.6 inches<br>(–192 to 9 cm) |
| 150 inches | 195 to 318 inches<br>(496 to 808 cm) | –94.5 to 4.5 inches<br>(–240 to 11 cm) |
| 200 inches | 261 to 425 inches<br>(663 to 1079 cm) | –126 to 6 inches<br>(–320 to 15 cm) |
| 300 inches | 393 to 639 inches<br>(999 to 1623 cm) | –189 to 9 inches<br>(–480 to 23 cm) |
| 500 inches | 658 to 1067 inches<br>(1671 to 2710 cm) | –315 to 15 inches<br>(–800 to 38 cm) |
| 800 inches | 1090 to 1709 inches<br>(2678 to 4342 cm) | 503.9 to 24 inches<br>(-1280 to 61 cm) |
| 1000 inches | 1319 to 2137 inches<br>(3350 to 5429 cm) | 629.9 to 29.9 inches<br>(-1600 to 76 cm) |

**Parent topic:** Projector Placement

# Projector Connections

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

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

Connecting to Video Sources
Connecting to Computer Sources
Connecting to an HDBaseT Transmitter
Connecting to an External Computer Monitor
Connecting to External Speakers

**Parent topic:** Setting Up the Projector

**Related references**

Projector Setup Settings - Extended Menu

## Connecting to Video Sources

Follow the instructions in these sections to connect video devices to the projector.

Connecting to an HDMI Video Source
Connecting to a Component-to-BNC Video Source
Connecting to a Component Video Source
Connecting to an SDI Video Source
Connecting to a Video Source for Sound

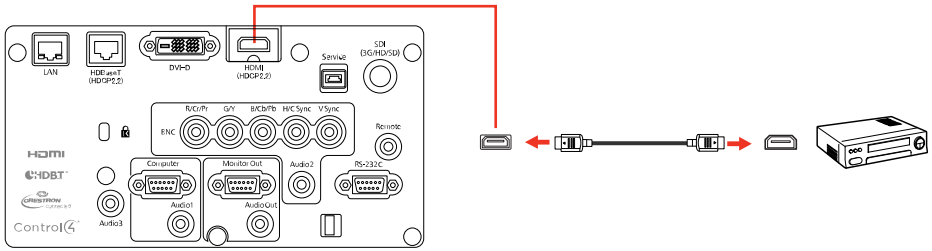
**Parent topic:** Projector Connections

### Connecting to an HDMI Video Source

If your video source has an HDMI port, you can connect it to the projector using an optional HDMI cable. The HDMI connection provides the best image quality.

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

2. Connect the other end to the projector's **HDMI** port.




**Parent topic:** Connecting to Video Sources

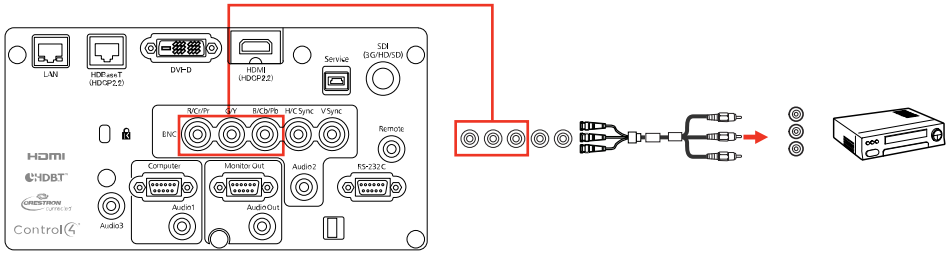
**Related references**

Projector Setup Settings - Extended Menu

## Connecting to a Component-to-BNC Video Source

If your video source has component video ports, you can connect it to the projector using an optional component-to-BNC video cable. Depending on your component ports, you may need to use an adapter cable along with a component video cable.

1. Connect the component connectors to your video source's color-coded component video output ports, usually labeled **Y**, **Pb**, **Pr** or **Y**, **Cb**, **Cr**. If you are using an adapter, connect these connectors to your component video cable.
2. Connect the BNC connectors to the projector's **R/Cr/Pr**, **G/Y**, **B/Cb/Pb** ports.

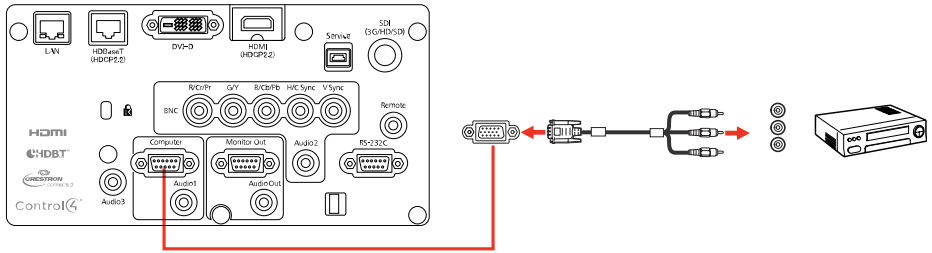



**Parent topic:** Connecting to Video Sources

## Connecting to a Component Video Source

If your video source has component video ports, you can connect it to the projector using an optional component-to-VGA video cable. Depending on your component ports, you may need to use an adapter cable along with a component video cable.

1. Connect the component connectors to your video source's color-coded component video output ports, usually labeled **Y**, **Pb**, **Pr** or **Y**, **Cb**, **Cr**. If you are using an adapter, connect these connectors to your component video cable.
2. Connect the VGA connector to a **Computer** port on the projector.




3. Tighten the screws on the VGA connector.

If your image colors appear incorrect, you may need to change the **Input Signal** setting in the projector's Signal menu.

**Parent topic:** Connecting to Video Sources

**Related references**

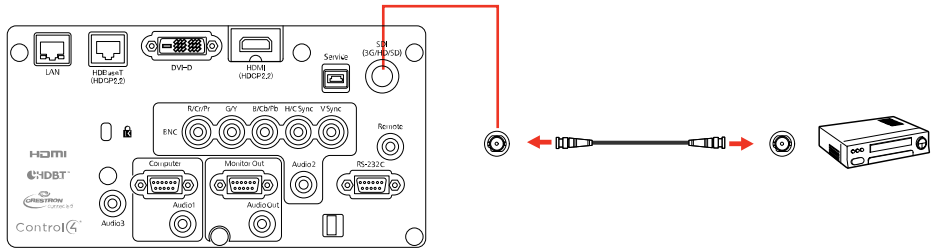
Input Signal Settings - Signal Menu

## Connecting to an SDI Video Source

If your video source has an SDI port, you can connect it to the projector using an optional BNC video cable
(Pro
L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL).

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

2. Connect the other end to the projector's **SDI** port.




**Parent topic:** Connecting to Video Sources

## Connecting to a Video Source for Sound

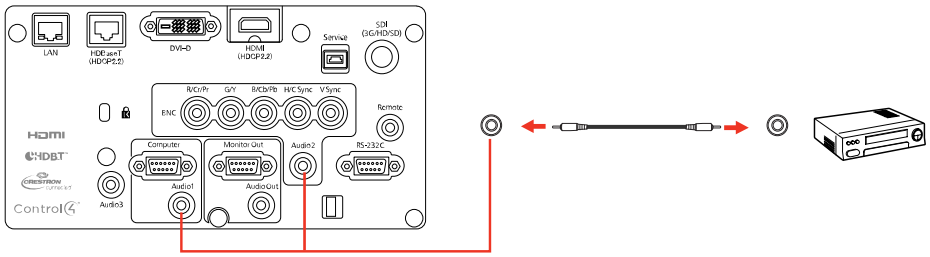
If you connected external speakers to the projector, you can connect your video source to the projector with an audio cable to play sound.

**Note:** If you connected your video source to the projector's **SDI** port (Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL), audio output is not supported.

**Note:** If you connected your video source to the projector using an HDMI cable, the audio signal is transferred with the video signal; you do not need an additional cable for sound. If you have problems hearing audio through the HDMI connection, you can play sound through an audio cable instead by following the steps described here.

1. Connect one end of a 3.5 mm stereo mini-jack audio cable to your video source's audio-out port.

2. Connect the other end of the cable to the projector's **Audio** port that corresponds to the **Computer** or **BNC** port you are using for video. If you are projecting video through the projector's **HDMI** port, connect the end of your audio cable to the **Audio3** port.




**Note:** If you connected to the **Audio3** port, select **Audio3** for the **HDMI Audio Output** setting in the Extended menu.

**Parent topic:** Connecting to Video Sources

**Related tasks**

Connecting to External Speakers

## Connecting to Computer Sources

Follow the instructions in these sections to connect a computer to the projector.

Connecting to a Computer for VGA Video

Connecting to a Computer for HDMI Video and Audio

Connecting to a Computer for DVI-D Video

Connecting to a Computer for 5 BNC Video

Connecting to a Computer for Sound

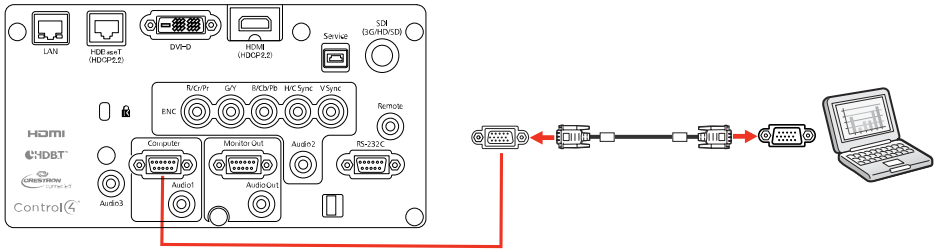
**Parent topic:** Projector Connections

### Connecting to a Computer for VGA Video

You can connect the projector to your computer using a VGA computer cable.

**Note:** To connect a Mac that includes only a Mini DisplayPort, Thunderbolt port, or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's VGA video port. Contact Apple for compatible adapter options.

1. If necessary, disconnect your computer's monitor cable.
2. Connect the VGA computer cable to your computer's monitor port.
3. Connect the other end to a **Computer** port on the projector.




4. Tighten the screws on the VGA connector.

**Parent topic:** Connecting to Computer Sources

**Related tasks**

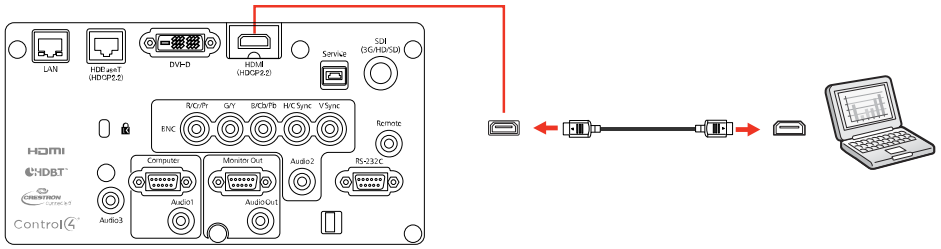
Connecting to a Computer for Sound

## Connecting to a Computer for HDMI Video and Audio

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

**Note:** To connect a Mac that includes only a Mini DisplayPort, Thunderbolt port, or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's **HDMI** port. Contact Apple for compatible adapter options. Older Mac computers (2009 and earlier) may not support audio through the **HDMI** port.

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

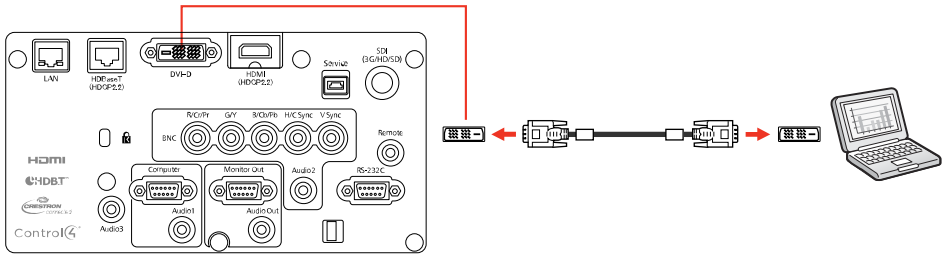


**Parent topic:** Connecting to Computer Sources

## Connecting to a Computer for DVI-D Video

If your computer has a DVI-D connector, you can connect it to the projector using an optional DVI-D cable.

1. Connect the DVI-D cable to your computer's DVI-D connector.
2. Connect the other end to the projector's **DVI-D** connector.




**Parent topic:** Connecting to Computer Sources

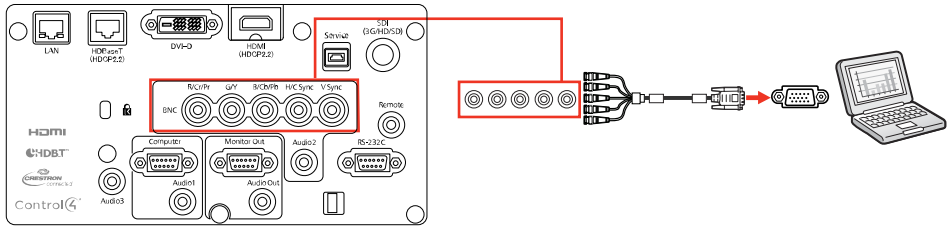
**Related tasks**

Connecting to a Computer for Sound

## Connecting to a Computer for 5 BNC Video

You can connect the projector to your computer using an optional VGA-to-5-BNC cable.

1. Connect the VGA connector to your computer's monitor port.
2. Connect the 5 BNC connectors to the projector's **BNC** ports.




**Parent topic:** Connecting to Computer Sources

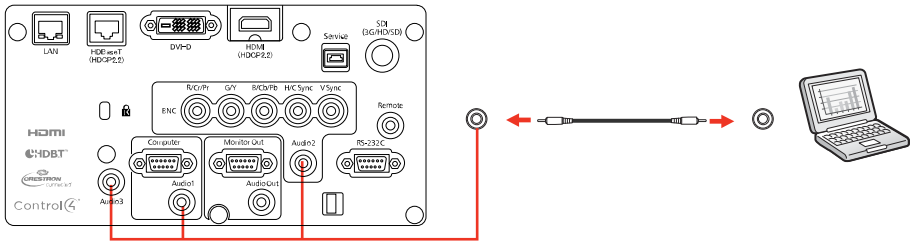
**Related tasks**

Connecting to a Computer for Sound

### Connecting to a Computer for Sound

If you connected external speakers to the projector, you can connect your computer to the projector with an audio cable to play sound.

1. Connect one end of a 3.5 mm stereo mini-jack audio to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.
2. Connect the other end to the **Audio** port that corresponds to the **Computer** or **BNC** port you are using. If you are projecting video through the projector's **DVI-D** port, connect the end of your audio cable to the **Audio3** port.




**Parent topic:** Connecting to Computer Sources

**Related tasks**

Connecting to External Speakers

## Connecting to an HDBaseT Transmitter

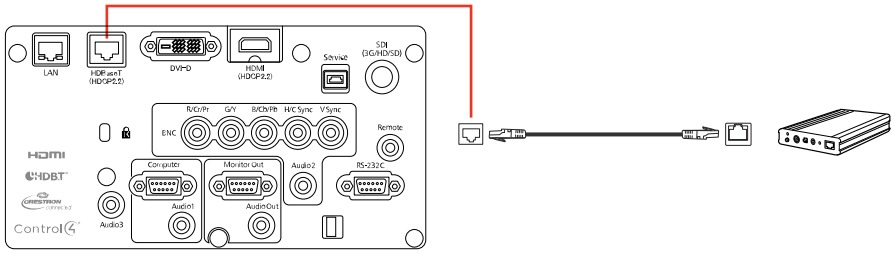
To send an HDMI or RS-232C signal over a long distance, you can connect the projector to an optional HDBaseT transmitter using a 100Base-TX network cable. This is useful when you want to send a signal to or control the projector from a remote location, such as in a hall or event site, since you can use a network cable up to 328 feet (100 m) in length. To ensure proper data transmission, use a Category 5e STP cable or better.

1. Turn off the projector and HDBaseT transmitter.

   **Note:** Make sure the projector and HDBaseT transmitter are turned off when connecting or disconnecting a network cable between the two devices.

2. Connect one end of the network cable to the **HDBaseT** port on the transmitter.

3. Connect the other end to the projector's **HDBaseT** port.




**Note:** See the documentation that came with the HDBaseT transmitter for instructions on connecting it to your video device or computer.

4. Turn on the projector and HDBaseT transmitter.

**Note:** To enable communication from the Ethernet and serial ports on the transmitter, select **On** as the **Control Communications** setting in the projector's Extended menu. Turning on this setting disables the projector's **LAN**, **RS-232C**, and **Remote** ports. If you connected an Extron XTP transmitter or switcher to the projector's **HDBaseT** port, select **On** as the **Extron XTP** setting in the projector's Extended menu.

**Parent topic:** Projector Connections

**Related references**

Projector Setup Settings - Extended Menu

## Connecting to an External Computer Monitor

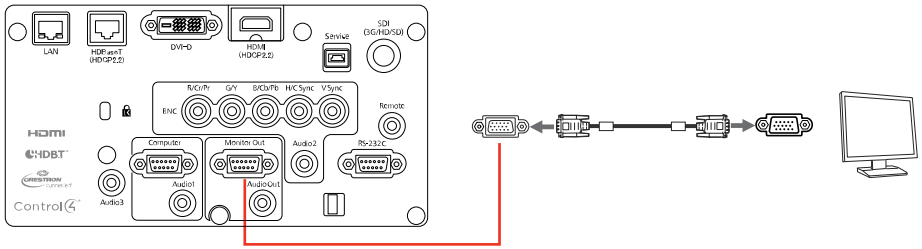
If you connected a computer to the projector's **Computer** port, you can also connect an external monitor to the projector. This lets you see your presentation on the external monitor even when the projected image is not visible.

If you want to output images to an external monitor when the projector is turned off, you need to select **Communication On** as the **Standby Mode** setting and **Always On** as the **A/V Output** setting in the projector's Extended menu.

**Note:** Monitors that use a refresh rate less than 60 Hz may not be able to display images correctly.

1. Make sure your computer is connected to the projector's **Computer** or **BNC** port.

2. Connect the external monitor's cable to your projector's **Monitor Out** port.




**Note:** If you do not see an image on the external monitor, you may need to change the **Monitor Out** setting in the Extended menu.

**Parent topic:** Projector Connections

**Related references**

Projector Setup Settings - Extended Menu

## Connecting to External Speakers

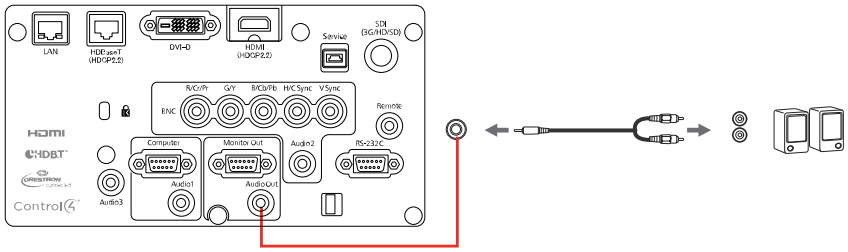
To enhance the sound from your presentation, you can connect the projector to external self-powered speakers. You can control the volume using the projector's remote control.

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

If you want to output audio from the external speakers when the projector is turned off, you need to select **Communication On** for the **Standby Mode** setting and **Always On** for the **A/V Output** setting in the projector's Extended menu.

1. Make sure your computer or video source is connected to the projector with both audio and video cables as necessary.
2. Locate the appropriate cable to connect your external speakers, such as a stereo mini-jack-to-pin-jack cable, or another type of cable or adapter.
3. Connect one end of the cable to your external speakers as necessary.

4. Connect the stereo mini-jack end of the cable to your projector's **Audio Out** port.




**Parent topic:** Projector Connections

**Related references**

Projector Setup Settings - Extended Menu

# Attaching and Removing a Lens

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

Attaching a Lens

Removing a Lens

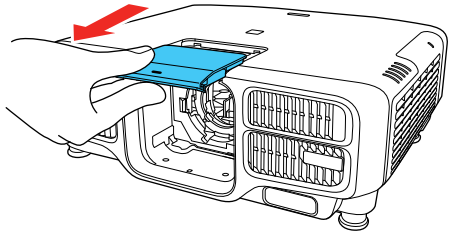
**Parent topic:** Setting Up the Projector

## Attaching a Lens

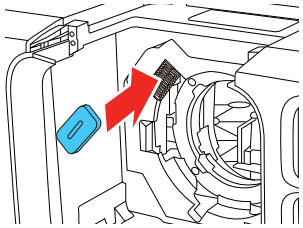
You can attach a compatible lens to the projector.

**Caution:** Unplug the power cord from the projector before attaching the lens. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

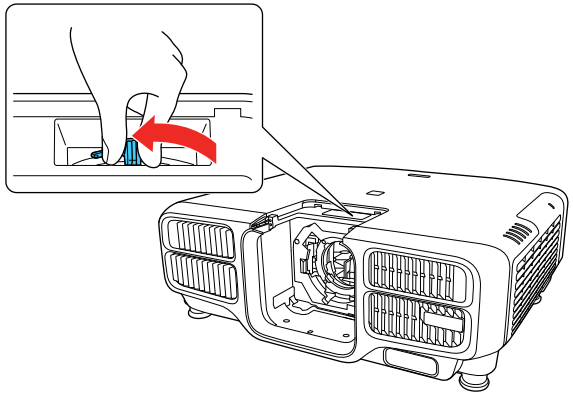
1. Pull the lens cover off of the projector.



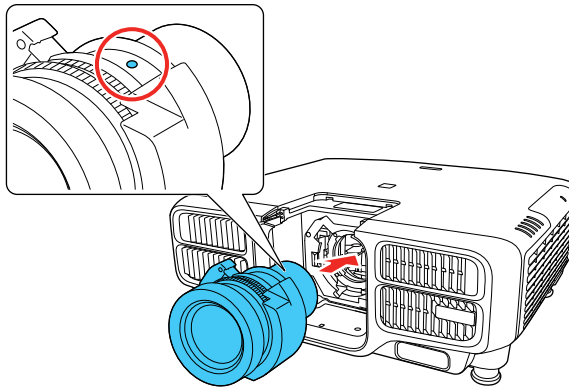
2. When using one of the following lenses, attach the lens connector cap: ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, or ELPLL07.



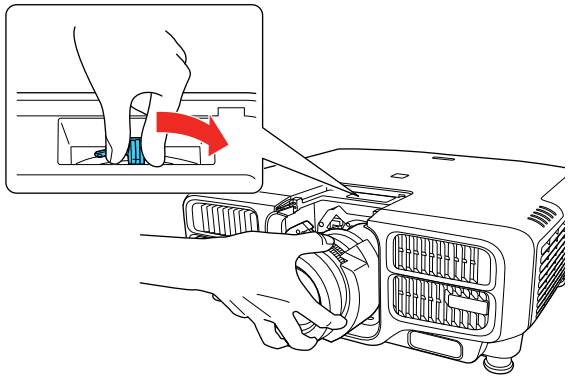
3. Slide the lock lever to the **Release** position (as shown) until you hear it click.



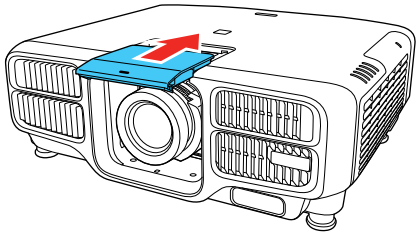
4. Insert the lens straight into the projector's lens socket with the white dot facing up.



5. Hold the lens firmly and slide the lock lever to the **Lock** position (as shown) until it locks.



6. Replace the lens cover.



7. If prompted, select **Yes** to calibrate the lens.

   **Note:** 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. (ELPX02 returns to the standard position.)

8. When using one of the following lenses, select the lens type in the **Extended** menu: ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, or ELPLL07.

**Parent topic:** Attaching and Removing a Lens

**Related tasks**

Setting the Lens Type

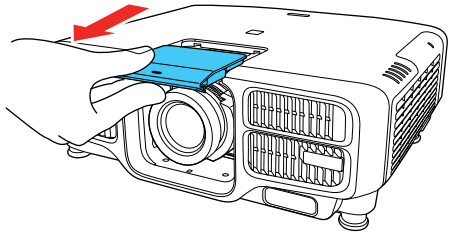
## Removing a Lens

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

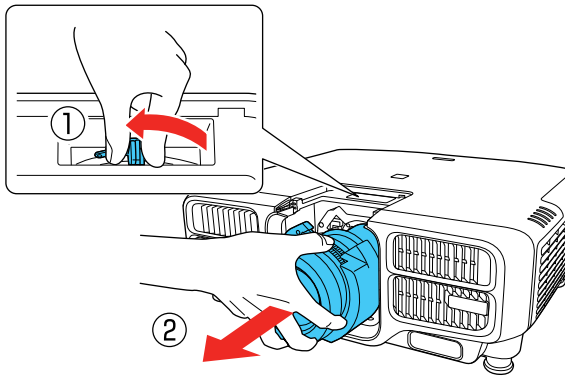
**Caution:** Remove the lens only when necessary and make sure the front of the projector is not facing up when you remove the lens. This prevents dirt or dust from entering the projector and lowering the projection quality. Avoid touching the lens with your bare hands to prevent fingerprints on or damage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

1. Center the lens using the **Lens Shift** (remote control) or **Lens** (control panel) button.
2. Turn off the projector and unplug the power cord.

3. Pull the lens cover off of the projector.



4. Hold the lens firmly as you slide the lock lever to the **Release** position (as shown) until you hear it click.



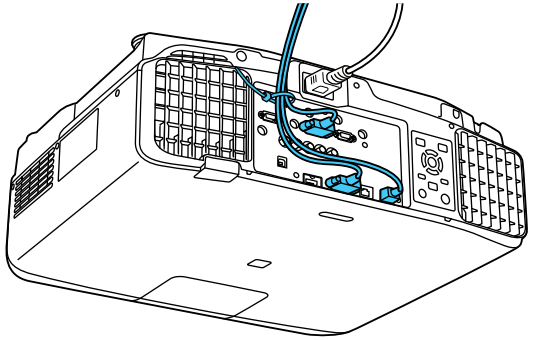

5. Gently pull the lens straight out of the projector.

**Parent topic:** Attaching and Removing a Lens

## Attaching and Removing the Cable Cover

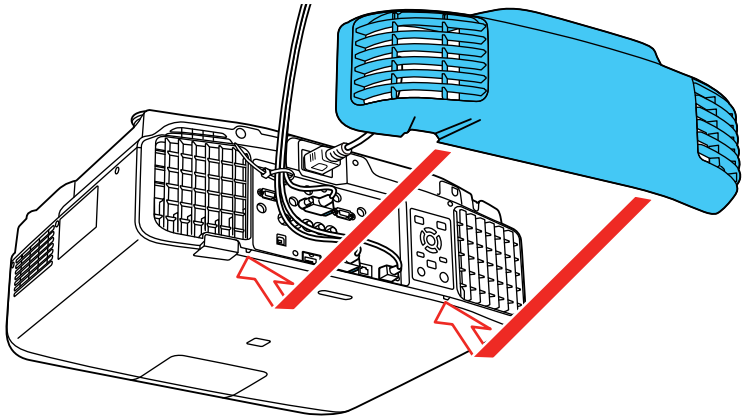
You can attach the cable cover that came with your projector to hide the attached cables from view.

1. Bundle the cables together using a band or other fastener (not provided).

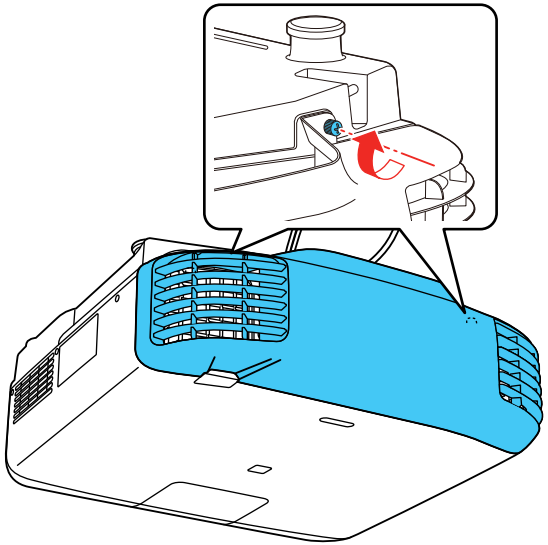


**Caution:** Do not bundle the power cord to the other cables. Otherwise, a fire may occur.

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.



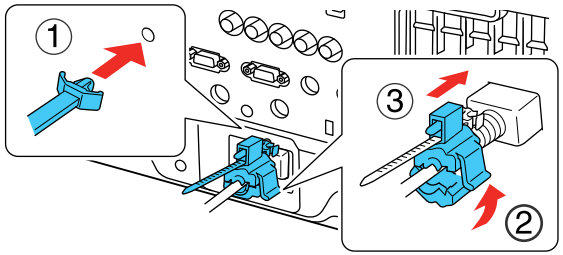
To remove the cover, loosen both screws and pull the cover off of the projector.

**Parent topic:** Setting Up the Projector

## Attaching and Removing the Cable Clip

You can install the cable clip that came with your projector to provide additional support to the power cable.

1. Connect the power cable to the projector.
2. Insert the end of the cable clip anchor into the cable clip slot near the power inlet.



3. Place the open cable clip around the power cable, but don't lock it into place.
4. Slide the cable clip onto the anchor and lock the clip onto the power connector as shown.

To remove the cable clip, open the clip and disconnect the power cable. Then pinch the sides of the cable clip anchor and carefully remove it from the cable clip slot.

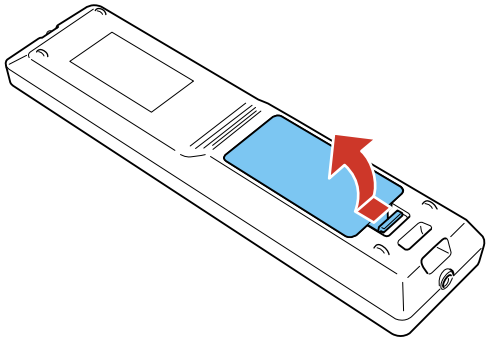
**Parent topic:** Setting Up the Projector

## Installing Batteries in the Remote Control

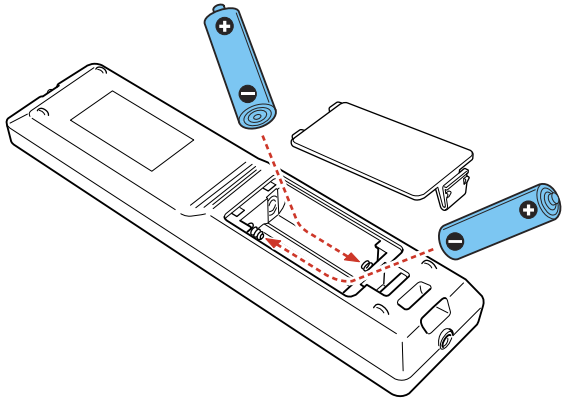
The remote control uses the two AA batteries that came with the projector.

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

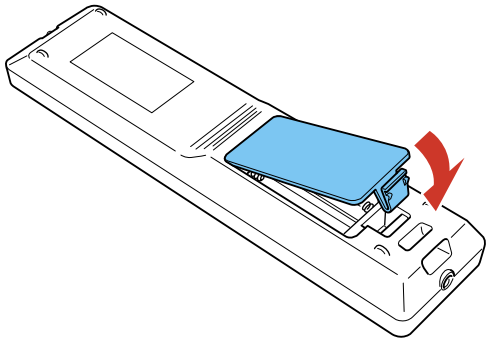
1. Remove the battery cover.



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



3. 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.

Wired Network Projection
Wireless Network Projection
Setting Up Projector Network E-Mail Alerts
Selecting Other Network Settings
Controlling a Networked Projector Using a Web Browser
Crestron RoomView Support

## Wired Network Projection

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

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.

**Note:** If your projector is connected via a LAN (Ethernet) cable to a network that includes a wireless access point, you can connect to the projector wirelessly through the access point using the Epson network software.

Connecting to a Wired Network
Selecting Wired Network Settings

**Parent topic:** Using the Projector on a Network

**Related references**

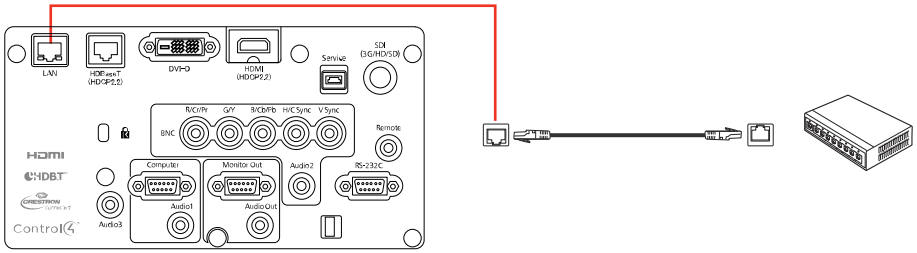
Additional Projector Software and Manuals

### 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 better.

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.



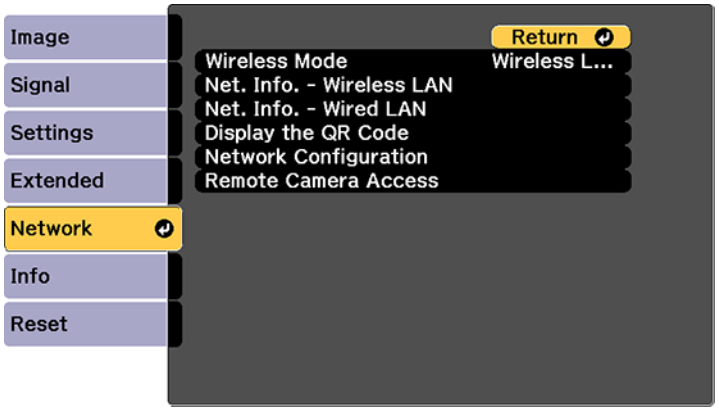

**Parent topic:** Wired Network Projection

## Selecting Wired Network Settings

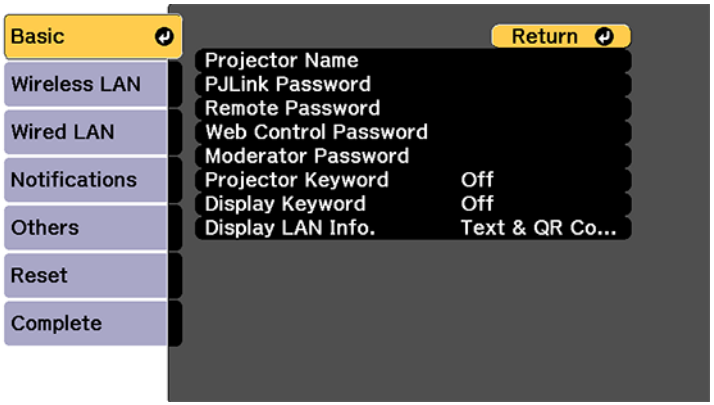
Before you can project from computers, tablets, or smartphones over your network, you must select the network settings for the projector using its menu system.

**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**.

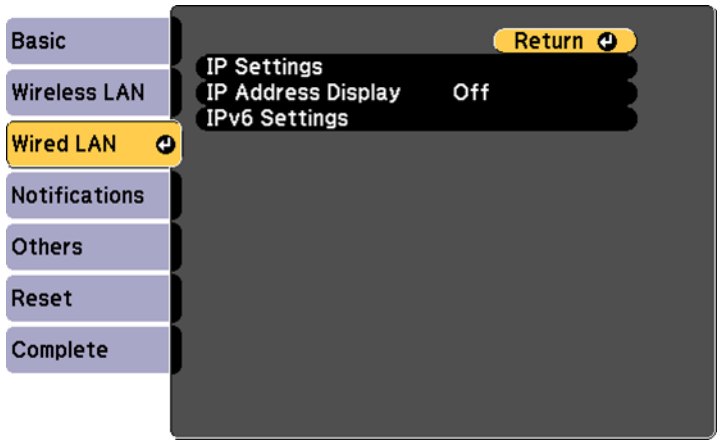



6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
   - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
   - **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote screen in Epson Web Control. (Default user name is **EPSONREMOTE**; default password is **guest**.)
   - **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing Epson Web Control. (Default user name is **EPSONWEB**; default password is **admin**.)
   - **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. The projector displays a random keyword that you must enter from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.
   - **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.

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:** 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.

**Parent topic:** Wired Network Projection

# Wireless Network Projection

You can project over a wireless network. To do this, you must set up your projector and computer for wireless projection.

**Note:** The Epson 802.11b/g/n wireless LAN module is not included with your projector and is optional.

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.

**Note:** If your projector is connected via a LAN cable to a network that includes a wireless access point, you can connect to the projector wirelessly through the access point using the Epson network software.

Installing the Wireless LAN Module
Using a QR Code to Connect a Mobile Device
Using Quick Wireless Connection (Windows)
Selecting Wireless Network Settings Manually
Selecting Wireless Network Settings in Windows
Selecting Wireless Network Settings on Mac
Setting Up Wireless Network Security

**Parent topic:** Using the Projector on a Network

**Related references**

Additional Projector Software and Manuals
Optional Equipment and Replacement Parts

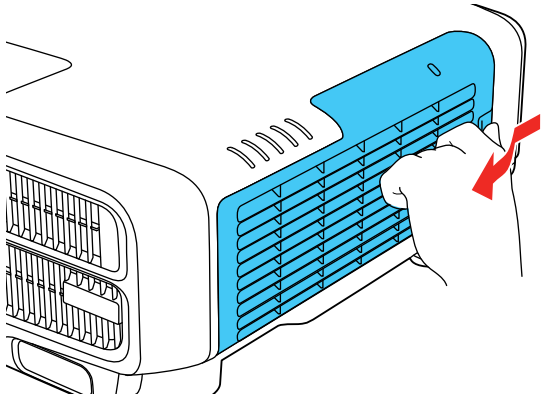
## Installing the Wireless LAN Module

To use the projector over a wireless network, install the optional Epson 802.11b/g/n wireless LAN module. Do not install any other type of wireless LAN module.

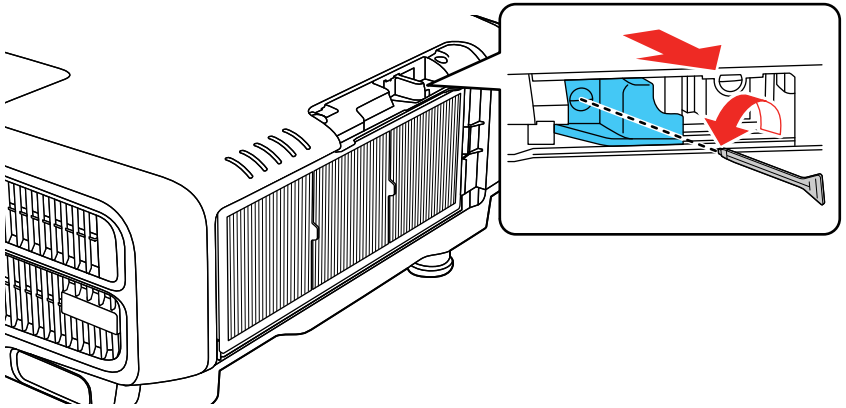
**Caution:** Never remove the module while its indicator light is on or flashing, or while you are projecting wirelessly. You may damage the module or lose data.

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

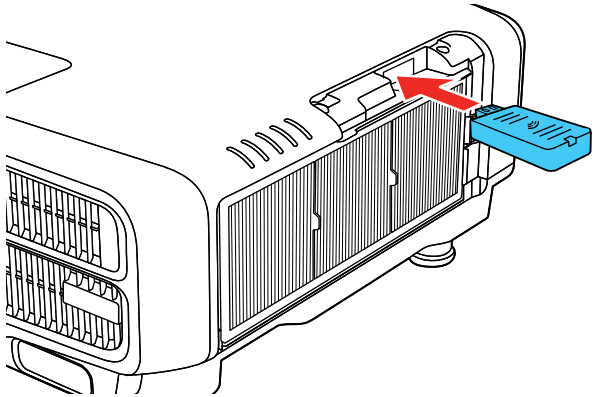
2. Slide the air filter cover latch and open the air filter cover.



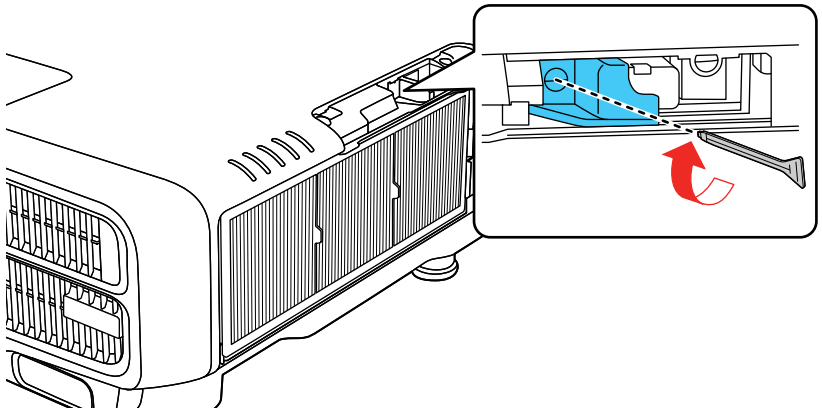
3. Remove the screw securing the wireless LAN module stopper, then remove the stopper.



4. Insert the wireless LAN module into the port.



5. Replace the wireless LAN module stopper and secure it using the screw you removed.



6. Close the air filter cover.
7. Plug in and turn on the projector.

**Parent topic:** Wireless Network Projection

**Related references**

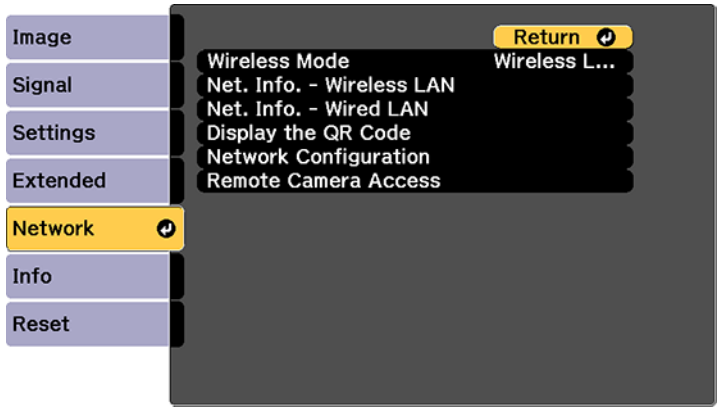
Optional Equipment and Replacement Parts

## Using a QR Code to Connect a Mobile Device

After you select the wireless network settings for your projector, you can display a QR code on the screen and use it to connect a mobile device using the Epson iProjection app.

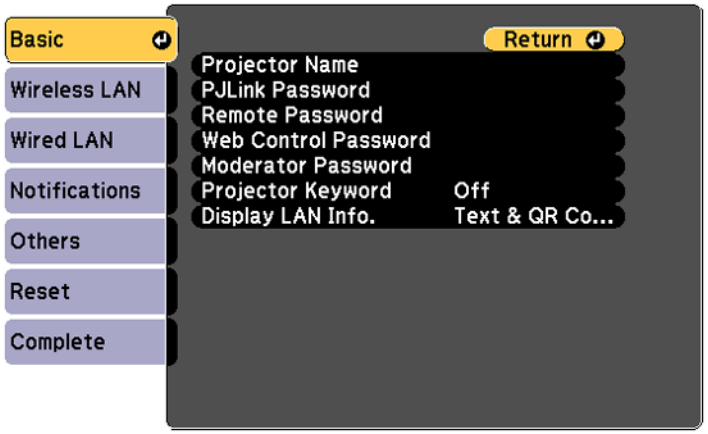
**Note:** Make sure you have installed the latest version of Epson iProjection on your device. Visit epson.com/iprojection (U.S.) or epson.ca/iprojection (Canada) for more information.

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




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

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




5. Set the **Display LAN Info** setting to **Text & QR Code**.
6. Select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
7. Do one of the following:
   - Press the **LAN** button on the remote control.
   - Select **Display the QR Code** in the projector's Network menu.
   - Press the **Home** button on the remote control and select **Display the QR Code** on the Home screen.

   Your projector displays the QR code on the projection surface.

   **Note:** If you do not see the QR code after pressing the **LAN** button, press **Enter** to display it.

8. Start Epson iProjection on your mobile device.
9. Use the QR code reader feature to read the QR code and connect your device to the projector. Visit epson.com/iprojection (U.S.) or epson.ca/iprojection (Canada) for instructions.

**Parent topic:** Wireless Network Projection

## Using Quick Wireless Connection (Windows)

You can create a Quick Wireless Connection USB Key to quickly connect the projector to a Windows computer wirelessly. Then you can project your presentation and remove the key when you are done.

**Note:** A USB flash drive is not included with your projector.

1. Create a Quick Wireless Connection USB Key with a USB flash drive and the Epson iProjection (Windows/Mac) software.

   **Note:** See the *Epson iProjection Operation Guide (Windows/Mac)* for instructions.

2. Turn on the projector.
3. Press the **LAN** button on the remote control.

   You see the LAN standby screen.
4. Verify that an SSID and IP address are displayed.
5. Remove the wireless LAN module from the projector.
6. Insert the USB key into the same port used for the wireless LAN module.

   You see a projected message that the network information update is complete.
7. Remove the USB key.
8. Reinsert the wireless LAN module into the projector.
9. Insert the USB key into a USB port on your computer.

   **Note:** In Windows Vista, if you see the AutoPlay window, select **Run MPPLaunch.exe**, then select **Allow** on the next screen.

10. Follow the on-screen instructions to install the Epson iProjection (Windows/Mac) software.

    **Note:** If you see a Windows Firewall message, click **Yes** to disable the firewall. You need administrator authority to install the software. If it is not installed automatically, double-click **MPPLaunch.exe** in the USB key.

    After a few minutes, your computer image is displayed by the projector. If it does not appear, press the **LAN** or **Source Search** button on your remote control or restart your computer.
11. Run your presentation as necessary.

12. When you finish projecting wirelessly, select the **Safely Remove Hardware** option in the Windows taskbar, then remove the USB key from your computer.

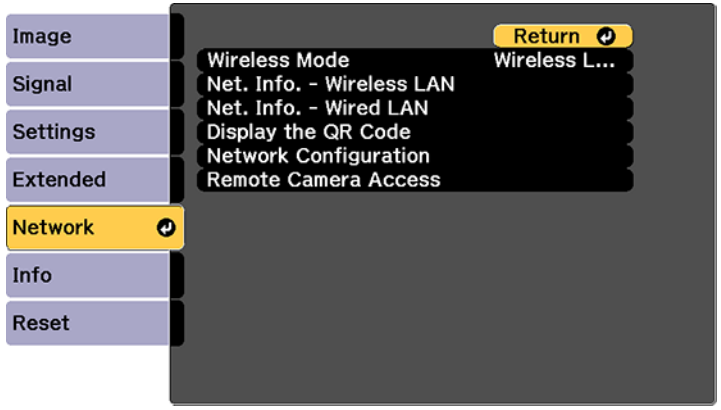
    **Note:** You can share the USB key with other computers without disconnecting your computer. You may need to restart your computer to reactivate your wireless LAN connection.

**Parent topic:** Wireless Network Projection

## Selecting Wireless Network Settings Manually

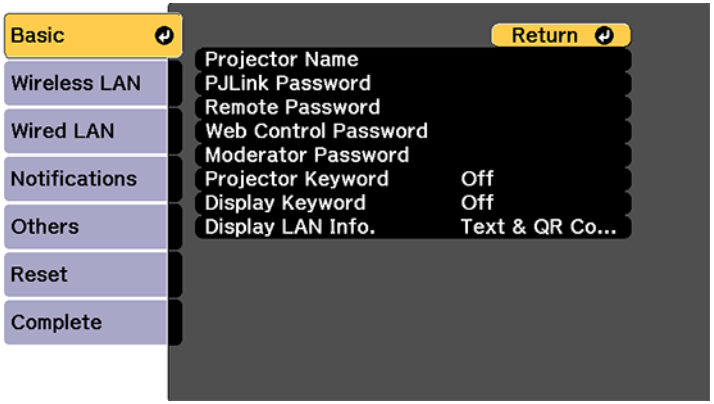
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

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**.

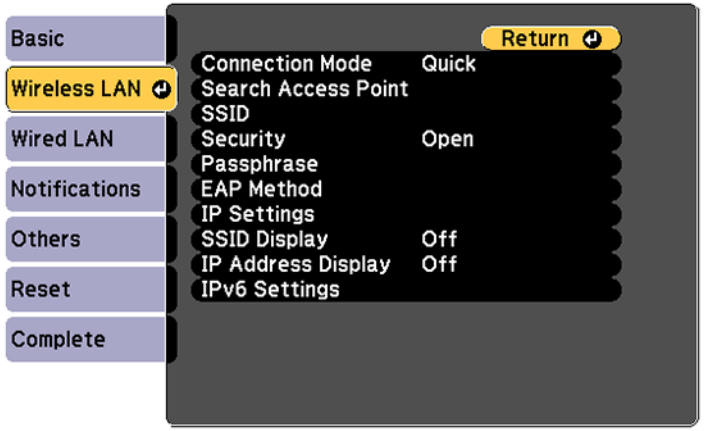



6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
   - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
   - **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen on a smartphone or tablet.
   - **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web. (Default user name is **EPSONWEB**; default password is **admin**.)
   - **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. The projector displays a random keyword that you must enter from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.
   - **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 with 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.

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




8. Select the settings on the **Wireless LAN** menu as necessary for your network.
9. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

After you complete the wireless settings for your projector, you need to select the wireless network on your computer, or iOS or Android device.

Wireless LAN Menu Settings

**Parent topic:** Wireless Network Projection

**Wireless LAN Menu Settings**

| Setting | Options | Description |
|---|---|---|
| **Connection Mode** | **Quick**<br>**Advanced** | Selects the type of wireless connection:<br>**Quick**: lets you connect to multiple smartphones, tablets, or computers directly<br>**Advanced**: lets you connect to multiple smartphones, tablets, or computers via a wireless network access point |
| **Search Access Point** | **To Search View** | Search for available wireless network access points in **Advanced** connection mode |
| **SSID** | Up 32 alphanumeric characters | Sets the SSID (network name) of the wireless LAN system the projector is connecting to |
| **Security** | **Open**<br>**WPA2-PSK**<br>**WPA/WPA2-PSK**<br>**WPA2-EAP**<br>**WPA/WPA2-EAP** | Selects the type of wireless security used in the wireless network (some options are only available when the **Connection Mode** setting is set to **Advanced**) |
| **Passphrase** | Between 8 to 63 alphanumeric characters | Enter a paraphrase for the wireless network |
| **EAP Method** | **EAP Type**<br>**User name**<br>**Password**<br>**Client Certificate**<br>**Verify Server Cert.**<br>**CA certificate**<br>**RADIUS Serv.Name** | Sets the EAP settings for WPA2-EAP and WPA/WPA2-EAP security |

| Setting | Options | Description |
|---|---|---|
| **Channel** | **1ch**<br>**6ch**<br>**11ch** | In **Quick** connection mode, selects the frequency band (channel) used by the wireless LAN |
| **IP Settings** | **DHCP**<br>**IP Address**<br>**Subnet Mask**<br>**Gateway Address** | Turns on DHCP if your network assigns addresses automatically; set to **Off** to manually enter the network's **IP Address**, **Subnet Mask**, and **Gateway Address** (some options are only available when the **Connection Mode** setting is set to **Advanced**) |
| **SSID Display** | **On**<br>**Off** | Selects whether to display the SSID on the network standby screen |
| **IP Address Display** | **On**<br>**Off** | Selects whether to display the IP address on the network standby screen |
| **IPv6 Settings** | **IPv6**<br>**Auto Configuration**<br>**Use Temporary Address** | Selects the IPv6 settings when you connect the projector to the network using IPv6 |

**Parent topic:** Selecting Wireless Network Settings Manually

## Selecting Wireless Network Settings in Windows

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

1. To access your wireless utility software, access the Desktop and double-click the network icon on the Windows taskbar.
2. Do one of the following:
   - If your projector is set up on an existing network (Advanced mode), select the network name (SSID).
   - If your projector is configured for Quick mode, select the projector's SSID.
3. Click **Connect**.

**Parent topic:** Wireless Network Projection

## Selecting Wireless Network Settings on Mac

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

1. Click the AirPort icon on the menu bar at the top of the screen.
2. Make sure AirPort is turned on, then do one of the following:
   - If your projector is set up on an existing network (Advanced mode), select the network name (SSID).
   - If your projector is configured for Quick mode, select the projector's SSID.

**Parent topic:** Wireless Network Projection

## Setting Up Wireless Network Security

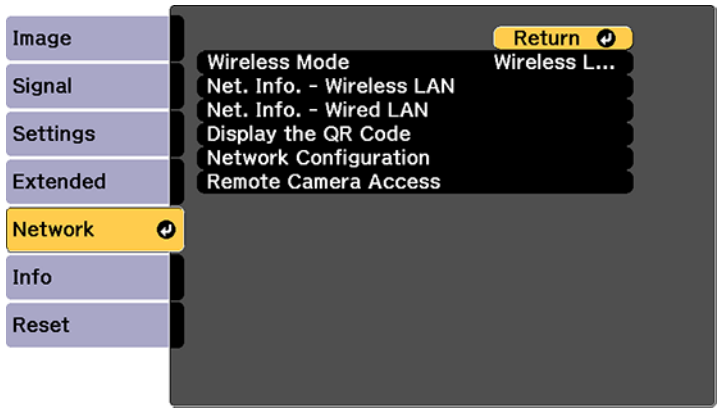
You can set up security for your projector to use on a wireless network. Set up one of the following security options to match the settings used on your network:

- WPA2-PSK (Advanced connection mode)
- WPA2-EAP (Advanced and Quick connection mode)
- WPA/WPA2-PSK (Advanced connection mode)
- WPA/WPA2-EAP (Advanced connection mode)

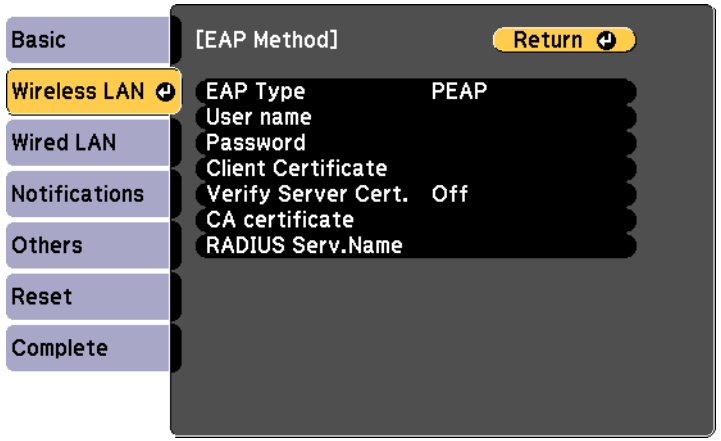
**Note:** Contact your network administrator for guidance on entering the correct information.

1. If you want to set up WPA2-EAP or WAP/WAP2-EAP security, make sure your digital certificate file is compatible with projector registration and placed directly on the USB storage device.
2. Press the **Menu** button.

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




4. Select **Network Configuration** and press **Enter**.
5. Select the **Wireless LAN** menu and press **Enter**.
6. Set the **Security** setting to match your network settings.
7. Do one of the following depending on the network security setting you selected:
   - **WPA2-PSK** or **WPA/WPA2-PSK**: Select **Complete** and follow the on-screen instructions to save your settings and exit the menus. Skip the remaining steps.
   - **WPA2-EAP** or **WPA/WPA2-EAP**: Select **EAP Method** and press **Enter**.



8. Select your authentication protocol as the **EAP Type** setting.
9. To import your certification, select the certificate type (either **Client Certificate** or **CA certificate**) and press **Enter**.

   **Note:** You can also register a digital certificate from your web browser. Make sure to register just once or the certificate may not install correctly.

10. Select **Register** and press **Enter**.
11. Follow the on-screen instructions to connect a USB storage device to the projector's USB port.
12. Press **Enter** to display the certificate list.
13. Select the certificate to import from the displayed list.

    You see a message to enter the certificate password.
14. Enter a password and press **Enter**.

    You see a completion message after the certificate is imported.
15. Set the following EAP settings as necessary:
    - **User name** lets you enter a user name up to 64 alphanumeric characters long. To enter more than 32 characters, use your web browser.
    - **Password** lets you enter a password up to 64 alphanumeric characters long when using the PEAP, EAP-FAST, or LEAP protocols. To enter more than 32 characters, use your web browser.
    - **Verify Server Cert.** lets you select whether or not to verify the server certificate when a CA certificate has been set.
    - **RADIUS Serv.Name** lets you enter the server name to be verified.
16. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

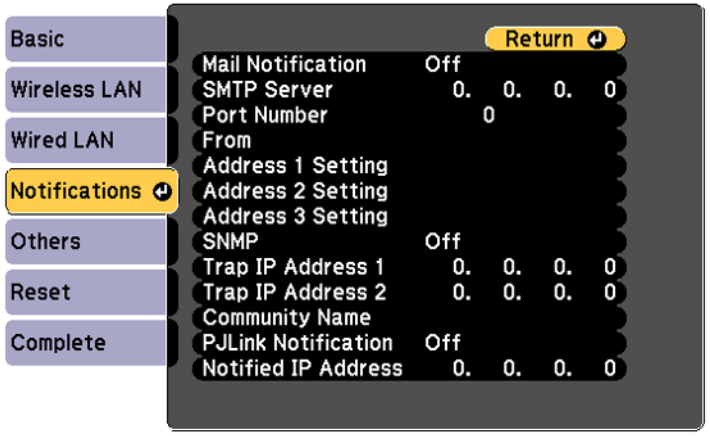
**Parent topic:** Wireless Network Projection

## Setting Up Projector Network E-Mail Alerts

You can set up the projector to send you an e-mail alert over the network if there is a problem with the projector.

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

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




5. Turn on **Mail Notification**.
6. Enter the IP address for the **SMTP Server** setting.

   **Note:** Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).

7. Select a number for the SMTP server **Port Number** setting, from 1 to 65535 (default is 25).
8. Enter the sender's email address as the **From** setting.
9. Choose an **Address** field, enter the e-mail address, and select the alerts you want to receive there. Repeat for up to three addresses. Your e-mail address can be up to 32 alphanumeric characters long.
10. If you are using the PJLink protocol for projector control, turn on the **PJLink Notification** setting and enter the IP address where you want to receive PJLink notifications as the **Notified IP Address** setting.
11. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

**Note:** If a critical problem causes a projector to shut down, you may not receive an e-mail alert.

Network Projector E-mail Alert Messages

**Parent topic:** Using the Projector on a Network

## Network Projector E-mail Alert Messages

When a problem occurs with a networked projector, and you selected to receive e-mail alerts, you receive an e-mail containing the following information:

- The email address entered as the **From** setting
- **Epson Projector** on the subject line
- The name of the projector experiencing a problem
- The IP address of the affected projector
- Detailed information about the problem

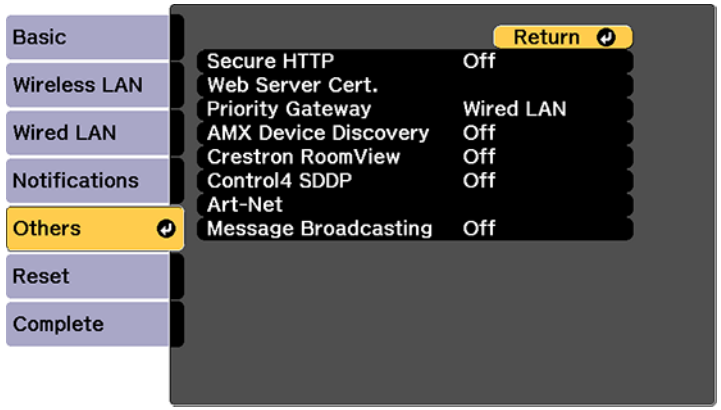
**Note:** If a critical problem causes a projector to shut down, you may not receive an e-mail alert.

**Parent topic:** Setting Up Projector Network E-Mail Alerts

# 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 available, select the **Priority Gateway** setting for your network.
7. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.
8. If your network environment uses a Crestron RoomView controller, turn on the **Crestron RoomView** setting to allow the projector to be detected.

   **Note:** Enabling Crestron RoomView disables the Epson Message Broadcast feature in the EasyMP Monitor software.

9. If your network environment uses a Control4 or Control4 SDDP controller, turn on the **Control4 SDDP** setting to allow the projector to be detected.
10. If you want to control the projector using Art-Net (an Ethernet communication protocol based on TCP/IP), turn on the **Art-Net** setting.
11. If you want this projector to receive broadcasted messages over the network, turn on the **Message Broadcasting** setting. Administrators can broadcast messages over the network using the Epson Projector Management software (Windows only).
12. 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

## 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.

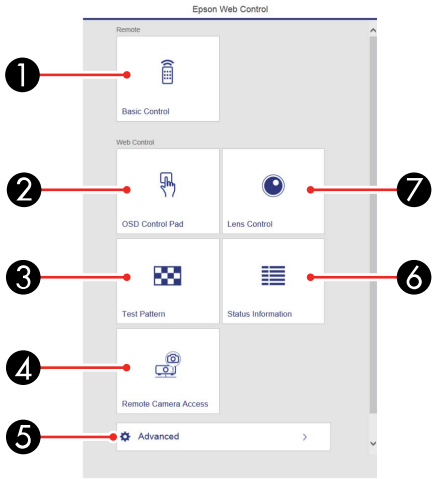
**Note:** The web setup and control features support Microsoft Internet Explorer 9.0 or later, and Safari on networks that do not use a proxy server for connection. You cannot select all of the projector menu settings or control all projector functions using a web browser.

**Note:** 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.

1. Make sure the projector is turned on.

2. Start your web browser on a computer or device connected to the network.
3. 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 | 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 **Remote Camera Access** to take an image capture of the displayed image from a remote location |
| 5 | Select **Advanced** to open the advanced menu screen. |
| 6 | Select **Status Information** to view the projector's status. |
| 7 | Select **Lens Control** to adjust the lens (focus, zoom, and lens shift). |

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

Web Control Options
Viewing an Image Capture of the Displayed Image from a Remote Location
**Parent topic:** Using the Projector on a Network

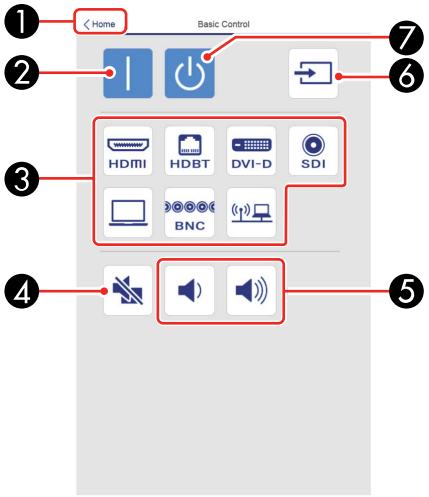
**Related references**

Projector Setup Settings - Extended 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** and the default password is **guest**).




1 Returns to the Home screen

2 Turns on the projector

3 Input source selection controls

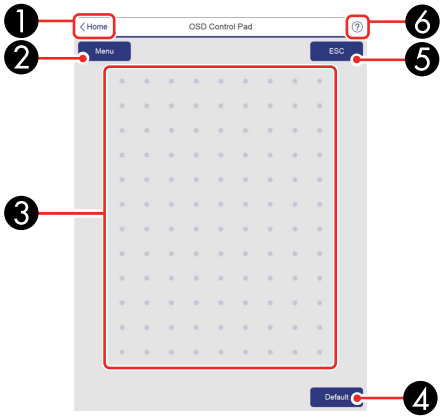
4 **A/V Mute** button control

5 **Volume** button controls

6 Searches for sources

7 Turns off the projector

## OSD Control Pad

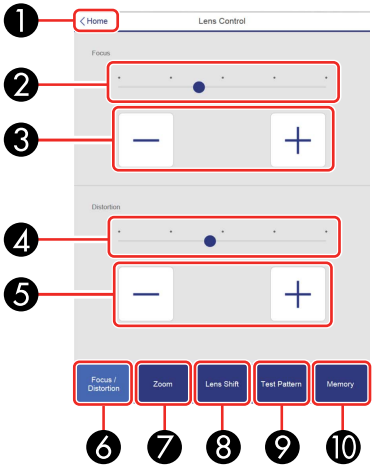



1 Returns to the Home screen
2 Displays the projector's setting menus
3 Use your finger or mouse to navigate the menus
4 Returns settings to their default values
5 Returns to the previous menu
6 Displays help topics

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

## Lens Control

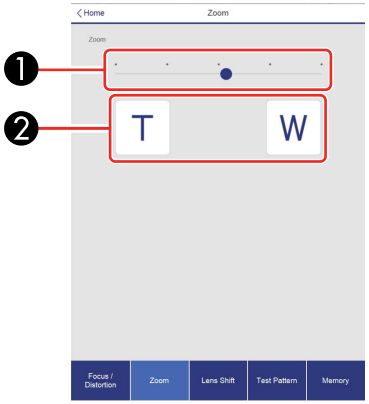
### Focus/Distortion screen




1 Returns to the Home screen
2 Focus adjustment slider
3 Focus adjustment buttons
4 Distortion adjustment slider (not available for ELPLU02)
5 Distortion adjustment buttons (not available for ELPLU02)
6 Displays the Focus/Distortion screen
7 Displays the Zoom screen
8 Displays the Lens Shift screen
9 Displays the Test Pattern screen
10 Displays the Memory screen

### Zoom screen

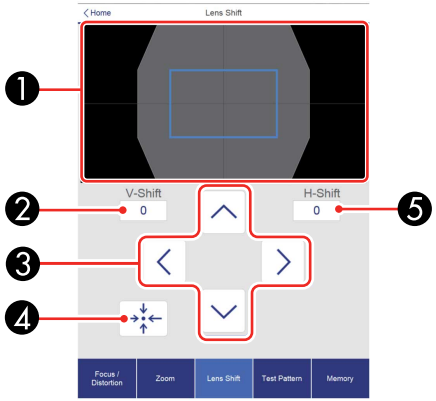
**Note:** Zoom is not available for the ELPLX02 and ELPLR04 lenses.




1 Zoom adjustment slider

2 Zoom adjustment buttons

### Lens Shift screen




1 The blue square displays the current image position and the red square displays the new image position

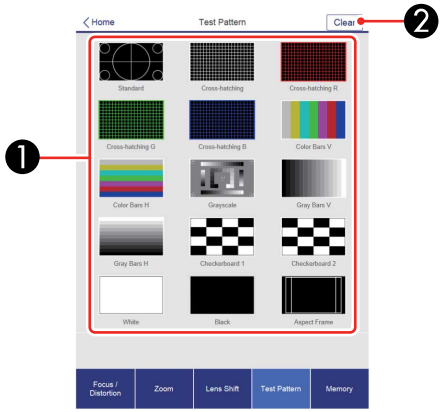
2 Displays the vertical image position; select to change the value

3 Moves the image position up, down, left, or right

4 Moves the lens to the home position

5 Displays the horizontal image position; select to change the value

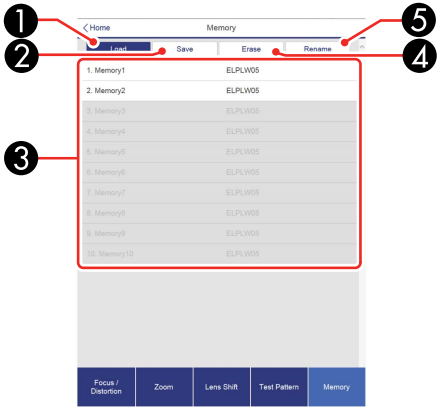
### Test Pattern screen




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

## Status Information screen

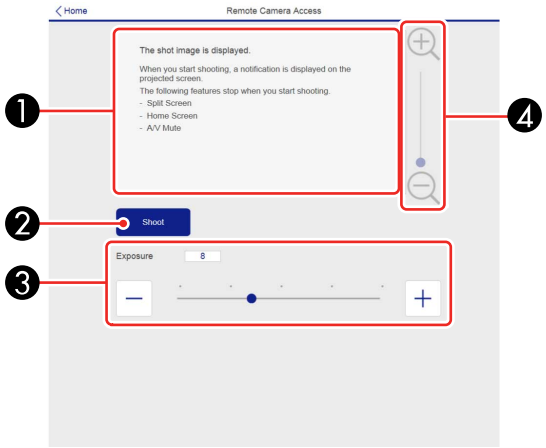
1 Returns to the Home screen

2 Displays a list of monitored settings

3 Displays the setting status

4 Select to view different status information

**Remote Camera Access screen**




1 Displays the image you captured using the **Shoot** button

2 Takes a picture of the projected image using the camera on the front of the projector

3 Adjusts the image exposure

4 Zooms in or out on the image you captured

**Parent topic:** Controlling a Networked Projector Using a Web Browser

## Viewing an Image Capture of the Displayed Image from a Remote Location

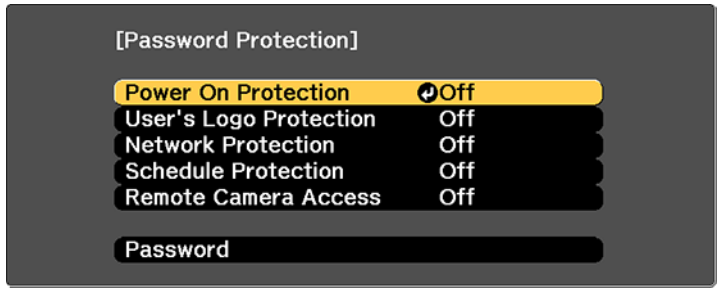
You can take an image capture of the projected image and view it from a remote location using the projector's built-in camera.

Note the following when using this feature:

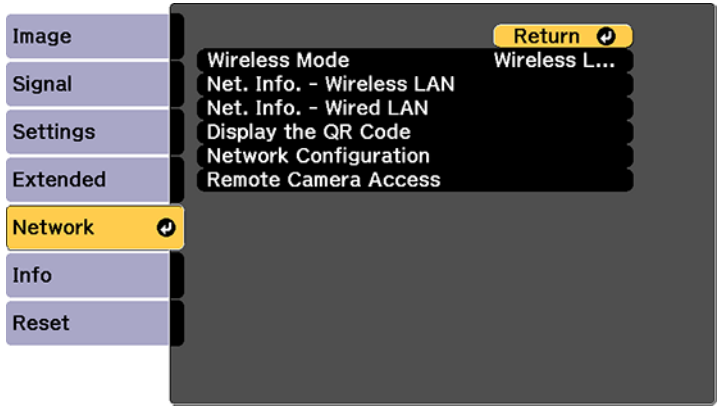
- This feature is not supported with the ELPLX02 lens.

- This feature is not supported when performing the following functions: Tiling, Screen Matching, Color Calibration, Lens Calibration, Message Broadcasting in the Epson Projector Management software.
- Using this feature will cancel the following functions: Split Screen, A/V Mute, display of the Home screen, On-Screen Display.

1. Hold down the **Freeze** button on the remote control for about five seconds or until you see this menu.



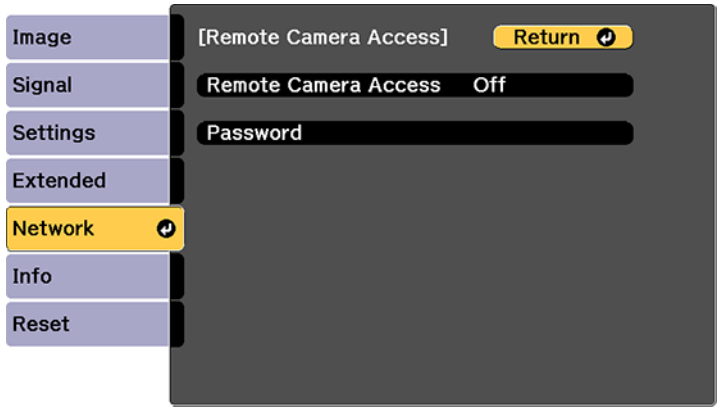

2. Make sure the **Remote Camera Access** setting is set to **Off,** then exit the menu.
3. Press the **Menu** button.
4. Select the **Network** menu and press **Enter**.




5. Make sure the **Secure HTTP** setting is enabled by selecting **Network Configuration** > **Others** > **Secure HTTP** > **On**, then return to the Network menu.

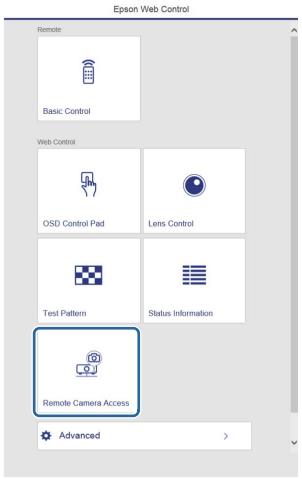
6. Select **Remote Camera Access** on the Network menu and press **Enter**.

   You see a screen like this:




7. Select **On** as the **Remote Camera Access** setting.
8. Select the **Password** setting and enter a password up to 32 alphanumeric characters long.
9. Open a web browser on a computer or mobile device connected to the projector over a network connection.
10. Enter the projector's IP address in your browser's address box to connect to Epson Web Control.

You see a screen like this:

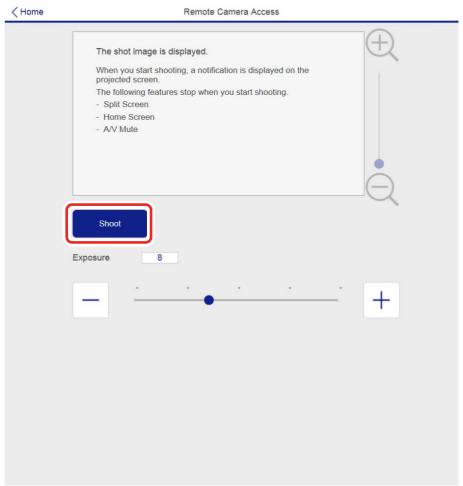



**Note:** You can view the projector's IP address by selecting **Net. Info. - Wireless LAN** or **Net. Info. - Wired LAN** on the Network menu.

11. Select **Remote Camera Access**.

    **Note:** You may need to log in to access some of the options on the Epson Web Control screen. If you see a log in window, enter your user name and password. (The default user name is **EPSONWEB** and the default password is **admin**.)

12. Click **Shoot** to take a capture of the projected image.




**Note:** If you see a password screen, enter the password you selected in step 8. You cannot capture warning or caution messages.

The projector displays a message on the projection screen for several seconds while it takes an image capture. When finished, the captured image is displayed in the area above the **Shoot** button.

**Parent topic:** Controlling a Networked Projector Using a Web Browser

# Crestron RoomView Support

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

**Note:** You cannot use the Epson Web Control feature or the Message Broadcasting tool for Epson Projector Management when you use Crestron RoomView.

For additional information on Crestron RoomView, contact Crestron.

Setting Up Crestron RoomView Support

Controlling a Networked Projector Using Crestron RoomView

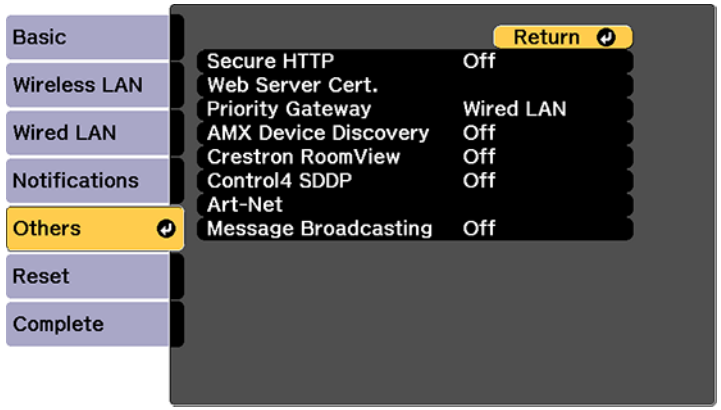
**Parent topic:** Using the Projector on a Network

## Setting Up Crestron RoomView Support

To set up your projector for monitoring and control using a Crestron RoomView system, make sure your computer and projector are connected to the network.

**Note:** If you want to use the Crestron RoomView system when the projector is turned off, you need to adjust the **Standby Mode** settings in the Extended 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. Set the **Crestron RoomView** setting to **On** to allow the projector to be detected.

   **Note:** Enabling Crestron RoomView disables the Epson Message Broadcasting feature in the Epson Projector Management software.

6. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
7. Turn off the projector, then turn it on again to enable the setting.

**Parent topic:** Crestron RoomView Support

**Related references**

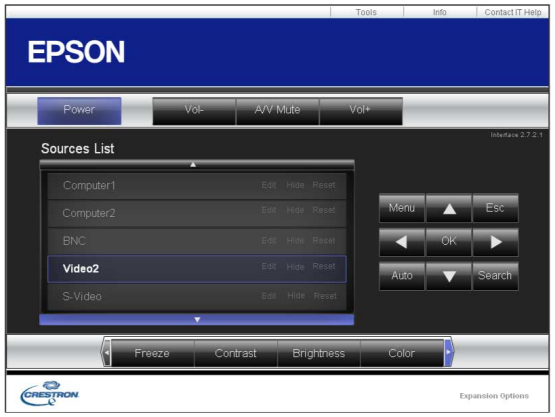
Projector Setup Settings - Extended Menu

## Controlling a Networked Projector Using Crestron RoomView

Once you have set up your projector to use Crestron RoomView, you can control and monitor projection using a compatible web browser.

1. Start your web browser on a computer connected to the network.
2. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

   You see this screen:




3. Select the input source that you want to control in the Sources List box. You can scroll through available sources using the up and down arrows in the box.
4. To control projection remotely, click the on-screen buttons that correspond to the projector's remote control buttons. You can scroll through button options at the bottom of the screen.

   **Note:** These on-screen buttons do not directly correspond to the projector's remote control buttons:

   - **OK** acts as the **Enter** button
   - **Menu** displays the projector's menu

5. To view information about the projector, click the **Info** tab.

6. To change projector, Crestron, and password settings, click the **Tools** tab, select settings on the displayed screen, and click **Send**.
7. When you finish selecting settings, click **Exit** to exit the program.

**Parent topic:** Crestron RoomView Support

# Using Basic Projector Features

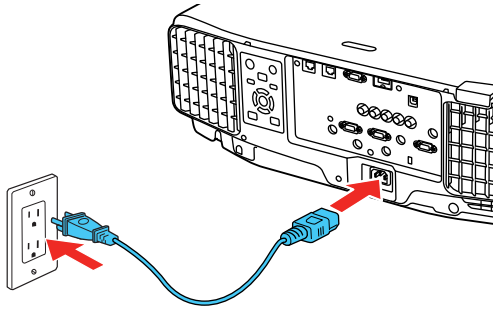
Follow the instructions in these sections to use your projector's basic features.

Turning On the Projector
Turning Off the Projector
Selecting the Language for the Projector Menus
Resizing the Image with the Zoom Button
Focusing the Image Using the Focus Buttons
Setting the Lens Type
Setting the Screen Type
Adjusting the Image Position Using Lens Shift
Adjusting the Image Position Using Screen Position
Displaying a Test Pattern
Adjusting the Image Height
Image Shape
Selecting an Image Source
Remote Control Operation
Projection Modes
Image Aspect Ratio
Color Mode
Adjusting the Brightness
Turning On Automatic Luminance Adjustment
Controlling the Volume with the Volume Buttons
Setting the Date and Time

## Turning On the Projector

Turn on the computer or video equipment you want to use before you turn on the projector so it can display the image source.

1. Connect the power cord to the projector's power inlet.



2. Plug the power cord into an electrical outlet.

   The projector's On/Standby 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.

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

   The projector beeps and the Status light flashes blue as the projector warms up. After about 30 seconds, 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.

   **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.

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

- Make sure the lens cap is off.
- 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.

**Note:** If the **Auto Source Search** setting in the Extended menu is enabled, the projector automatically detects the input signal when you turn it on.

- Change the screen output from the computer when using a laptop.
- Press the button for the video source on the remote control.
- If the Home screen is displayed, select the source you want to project.

Using the Home Screen

**Parent topic:** Using Basic Projector Features

**Related references**

Projector Setup Settings - Extended Menu

**Related tasks**

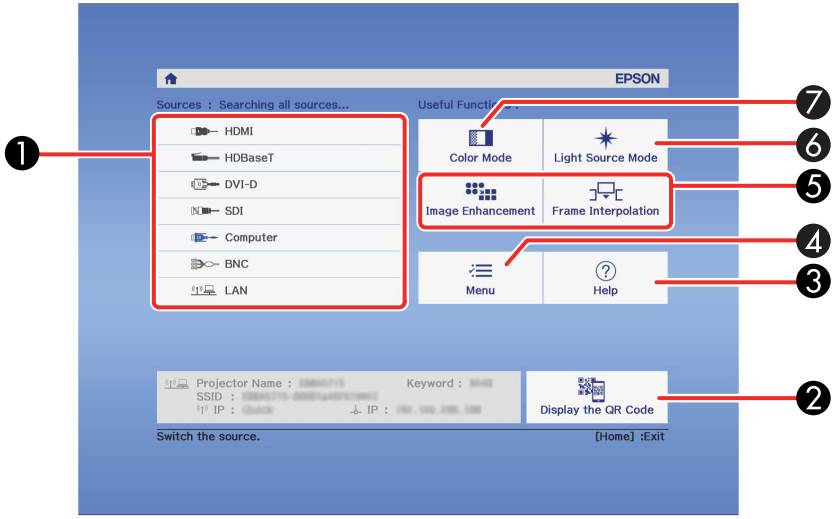
Turning Off the Projector

## Using the Home Screen

You can select input sources and other frequently used options from the Home screen.

1. To display the Home screen, do one of the following:
   - Press the **Home** button on the remote control.
   - Turn on the projector with the **Home Screen Auto Disp** setting enabled.
   - Turn on the projector when no signal is received from the selected input source.

2. Press the arrow buttons on the remote control or control panel to navigate the screen, and press **Enter** to select an option.




1 Select the video source you want to project

2 Display the QR code

3 Display the Help screen

4 Display the projector's menus

5 Select customizable menu options

6 Select to change the Light Source Mode

7 Select to change the Color Mode

**Note:** You can select the customizable menu options using the **Custom Function 1** and **Custom Function 2** settings in the Extended menu.

3. Press the **Home** button to hide the Home screen.

**Parent topic:** Turning On the Projector

**Related references**

Projector Setup Settings - Extended Menu

## 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.

   The projector displays a shutdown confirmation screen.

2. Press the **Standby** button on the projector or remote control again. (To leave it 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).

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**

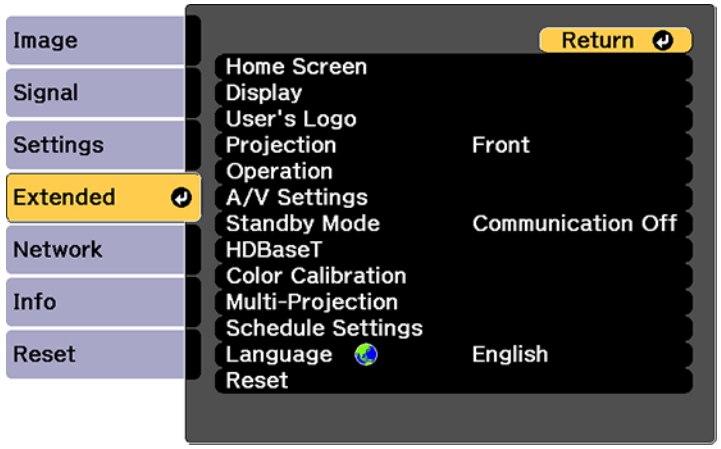
Turning On the Projector

## 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.
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

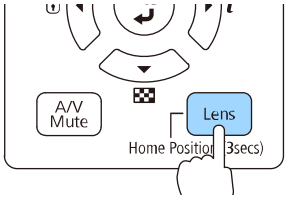
## Resizing the Image with the Zoom Button

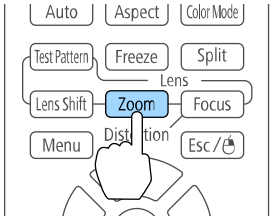
You can adjust the size of the image using the zoom buttons. Zoom is not available for the ELPLX02 and ELPLR04 lenses.

**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

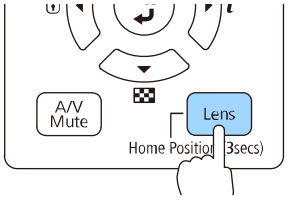
## Focusing the Image Using the Focus Buttons

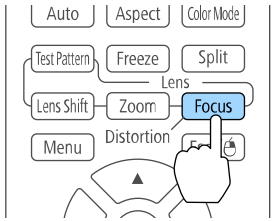
You can adjust the sharpness of the projected image using the focus buttons.

**Note:** Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy. If you installed any of the following lenses, see the link below on focusing with a short throw lens instead: ELPLX02, ELPLU03, ELPLU04, ELPLW05, or ELPLU02.

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.
4. Press the **Esc** button when finished.

Focusing the Image When Using an Optional Short Throw Lens

**Parent topic:** Using Basic Projector Features

**Related tasks**

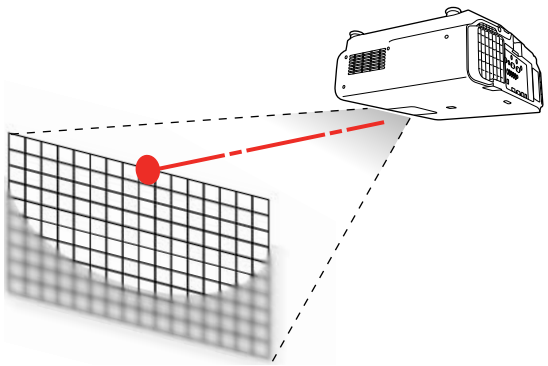
Focusing the Image When Using an Optional Short Throw Lens

## Focusing the Image When Using an Optional Short Throw Lens

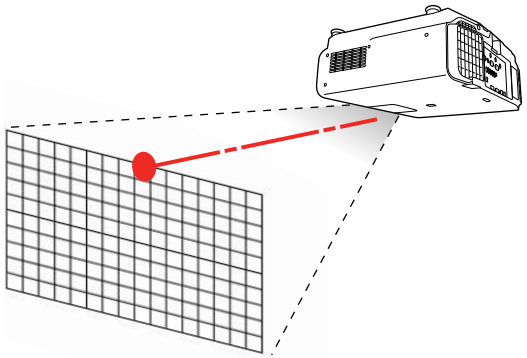
If you installed an optional short throw lens (ELPLX02, ELPLU03, ELPLU04, ELPLW05, or ELPLU02), you may need to first focus on the center of your screen and then correct any distortion in the surrounding area.

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.

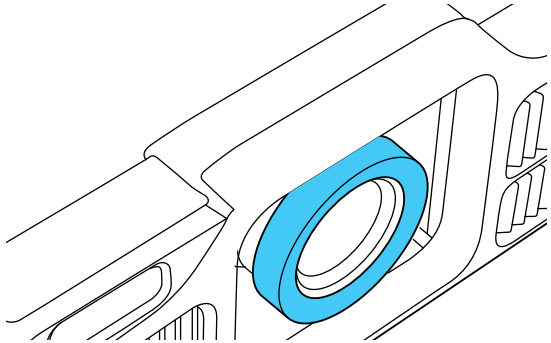
3. Press the left or right arrow buttons until the center of the image is focused.



4. Press the **Focus** button on the remote control or press the **Lens** button on the control panel repeatedly until the distortion adjustment screen appears.
5. Press the left or right arrow buttons until the edges of the image are also focused.



**Note:** If you installed the optional ELPLU02 short throw lens and you see a message prompting you to manually adjust the image distortion, manually rotate the distortion ring counterclockwise. Adjust the focus and then rotate the distortion ring again to correct image distortion.



**Parent topic:** Focusing the Image Using the Focus Buttons

## Setting the Lens Type

If you installed one of the following lenses, you need to select the model number for the lens: ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, or ELPLL07.

1. Turn on the projector and display an image.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
4. Select **Operation** > **Advanced** > **Lens Type**.
5. Select your lens model number and press **Enter**.
6. Press the **Menu** button to exit.

**Parent topic:** Using Basic Projector Features

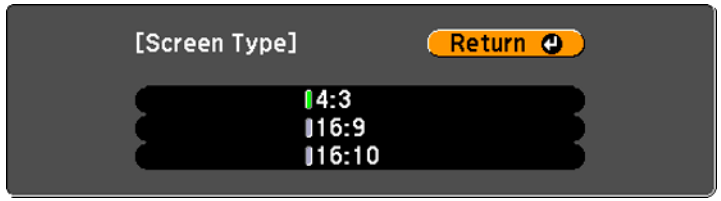
## Setting the Screen Type

You can use the Screen Type setting to match the aspect ratio of the displayed image to the screen you are using.

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

3. Select the **Extended** menu and press **Enter**.
4. Select **Display** > **Screen** > **Screen Type**.

   You see this screen:




5. Select your screen's aspect ratio and press **Enter**.
6. Press the **Menu** button to exit.
7. Adjust the aspect ratio for the projected image, if necessary.

**Parent topic:** Using Basic Projector Features

**Related concepts**

Image Aspect Ratio

## Adjusting the Image Position Using Lens Shift

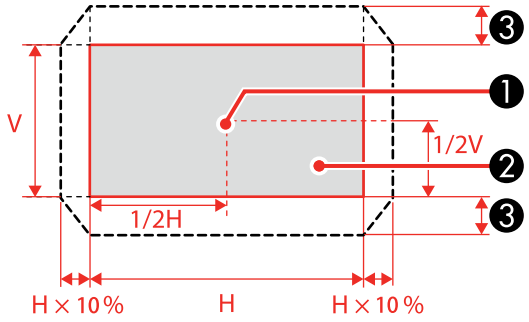
If you cannot install the projector directly in front of the screen, you can adjust the position of the projected image using the lens shift feature.

**Note:** Wait 20 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy. Lens shift is not supported for the ELPLR04 lens.

1. Turn on the projector and display an image.

2. Press the arrow buttons to adjust the position of the projected image as necessary.

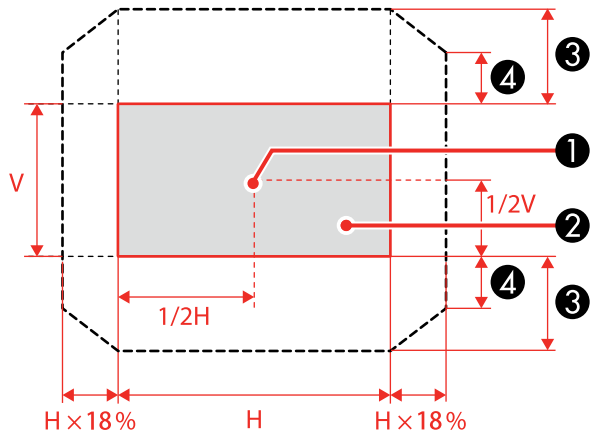
**Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL - ELPLU03 or ELPLW05 lens**




| | |
|---|---|
| 1 | Center of lens |
| 2 | Projected image when lens shift is set to the home position |
| 3 | Maximum range: V × 24% |

**Note:** You cannot move the image upward when the lens is shifted horizontally all the way.

**Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL - ELPLU04, ELPLW06, ELPLM10, ELPLM11, ELPLM15, or ELPLL08 lens**



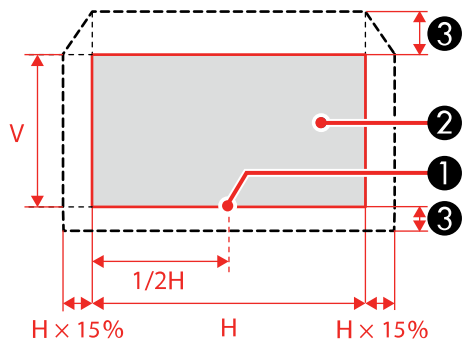

1 Center of lens

2 Projected image when lens shift is set to the home position

3 Maximum range: V × 60%

4 Maximum range when the lens is shifted horizontally all the way: V × 31%

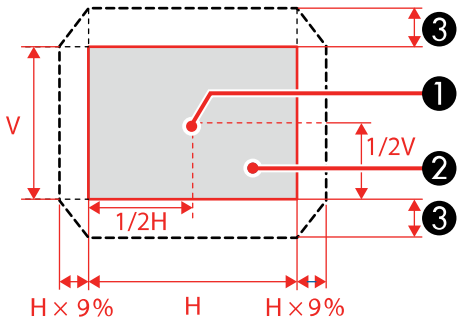
**Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL - ELPLX02 lens**



1 Center of lens
2 Projected image when lens shift is set to the home position
3 Maximum range: V × 20% (top); V × 5% (bottom)

**Note:** You cannot move the image upward when the lens is shifted horizontally all the way.

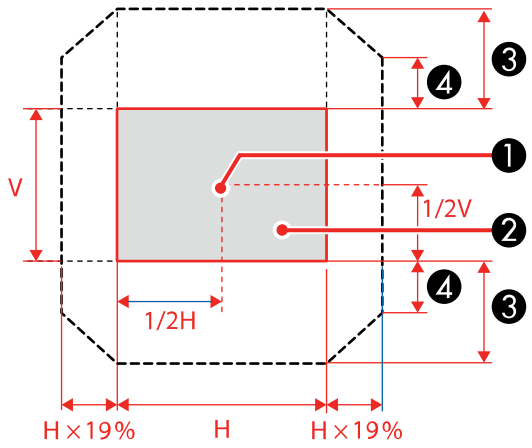
**Pro L1715SNL - ELPLU03 or ELPLW05 lens**




1 Center of lens
2 Projected image when lens shift is set to the home position
3 Maximum range: V × 16%

**Note:** You cannot move the image upward when the lens is shifted horizontally all the way.

### Pro L1715SNL - ELPLU04, ELPLW06, ELPLM10, ELPLM11, ELPLM15, or ELPLL08 lens



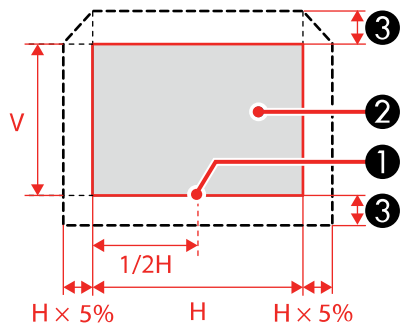

1 Center of lens

2 Projected image when lens shift is set to the home position

3 Maximum range: V × 55%; maximum range when performing screen matching or color calibration: V × 45% (ELPLU04)

Maximum range when the lens is shifted horizontally all the way: V × 32%

### Pro L1715SNL - ELPLX02 lens



1 Center of lens
2 Projected image when lens shift is set to the home position
3 Maximum range: V × 5%

**Note:** You cannot move the image upward when the lens is shifted horizontally all the way.

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 at 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

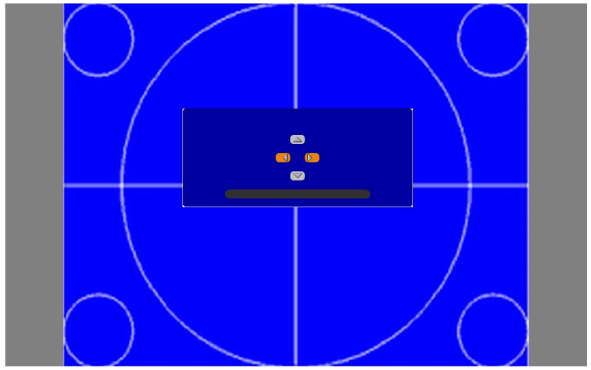
## Adjusting the Image Position Using Screen Position

You can adjust the image position if there are margins between the edge of the image and the projected screen frame.

**Note:** You cannot adjust the screen position if the **Screen Type** setting is set to **16:10** for a WUXGA projector model or **4:3** for a SGA+ projector model.

1. Turn on the projector and display an image.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
4. Select **Display** > **Screen** > **Screen Position**.

5. Use the arrow buttons on the remote control or projector to adjust the position of the image.



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

**Parent topic:** Using Basic Projector Features

**Related tasks**

Setting the Screen Type

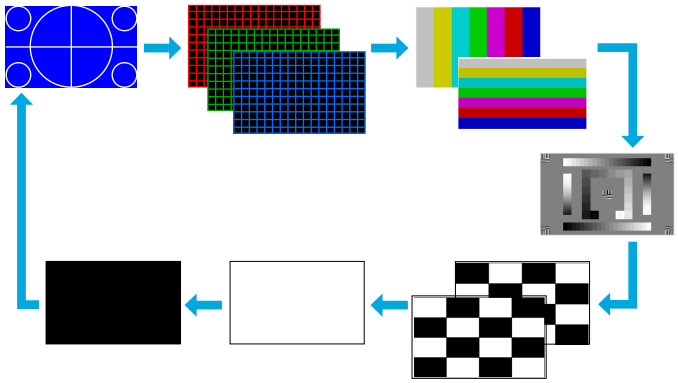
## Displaying a Test Pattern

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

**Note:** The test pattern's shape is determined by the **Screen Type** setting. Be sure to set the correct screen type before adjusting with the test pattern.

1. Turn on the projector.
2. Press the **Test Pattern** button on the remote control or the down arrow button on the control panel.

3. Press the left or right arrow button on the remote control or press **Enter** on the control panel to cycle through the available test patterns.



4. Adjust the image as necessary.
5. Press the **Esc** to clear the test pattern.

Available Test Pattern Image Adjustments

**Parent topic:** Using Basic Projector Features

**Related tasks**

Setting the Screen Type

## Available Test Pattern Image Adjustments

You can adjust the following settings while the test pattern is displayed.

| Menu | Settings |
|---|---|
| **Image** | **Color Mode** |
| | **White Balance** |
| | **Advanced**<br>• **Gamma**[1]<br>• **RGBCMY** |

| Menu | Settings |
|---|---|
| Settings | Geometry Correction |
| | Brightness Settings |
| Extended | Display[2] |
| | Color Calibration |
| | Multi-Projection[3] |

[1] Except for custom **Gamma** settings

[2] Except for the **Screen**, **Panel Alignment**, and **Color Uniformity** settings

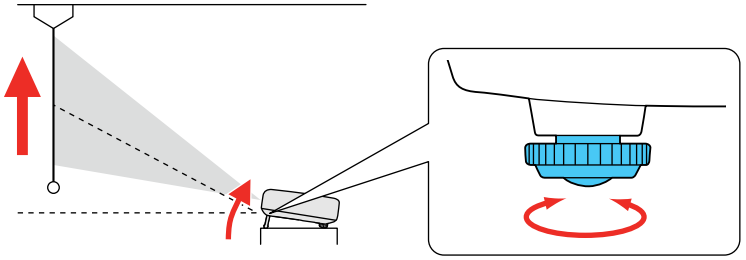
[3] Except for the **Black Level**, **Scale**, **Color Uniformity**, and **Color Adjustment** settings

**Parent topic:** Displaying a Test Pattern

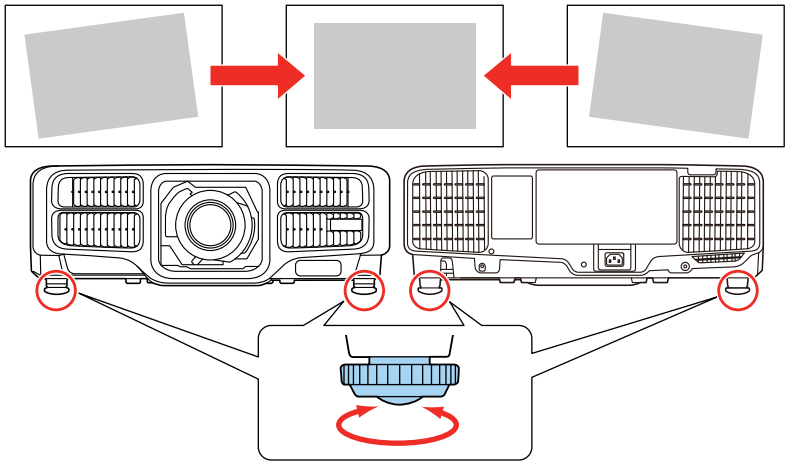
## Adjusting the Image Height

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

1. Turn on the projector and display an image.
2. To adjust the image height, rotate the front foot to extend or retract it.



3. If the image is tilted, rotate the rear feet to adjust their height.



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

**Parent topic:** Using Basic Projector Features

**Related concepts**

Image Shape

## 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

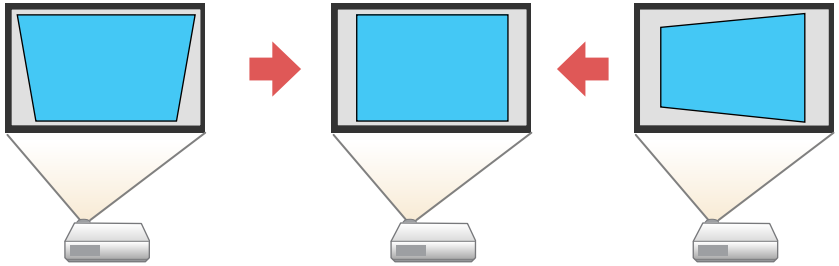
Correcting Image Shape with Corner Wall

Correcting Image Shape with Point Correction

**Parent topic:** Using Basic Projector Features

## 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.

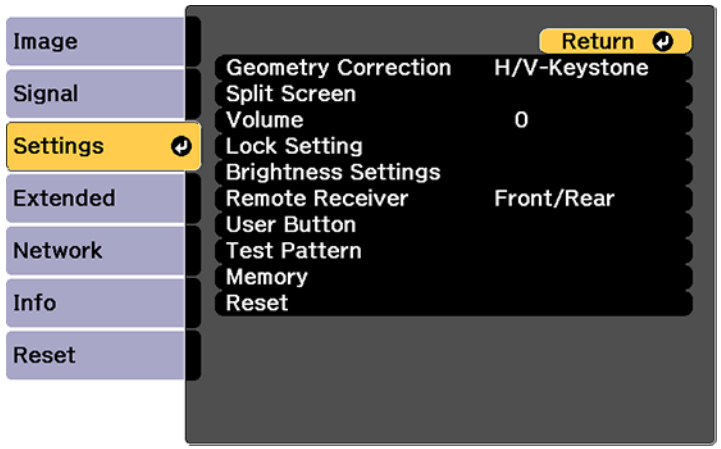
1. Turn on the projector and display an image.

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

   **Note:** You can also display a pattern to aid in adjusting the projected image using the **Test Pattern** button on the remote control.

2. Press the **Menu** button.

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




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

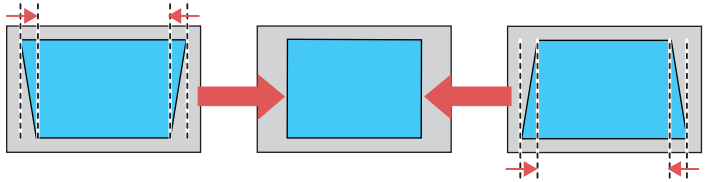
   **Note:** You can also access the geometric adjustment screen by pressing the **Geometry** button on the remote control or the up arrow button on the control panel.

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

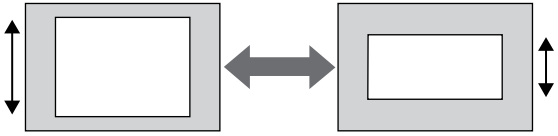
   You see the H/V-Keystone adjustment screen:

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.

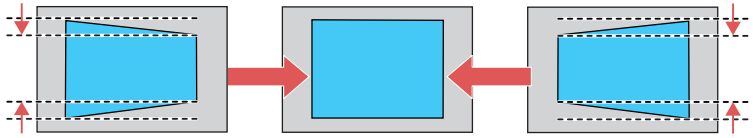
**V-Keystone**



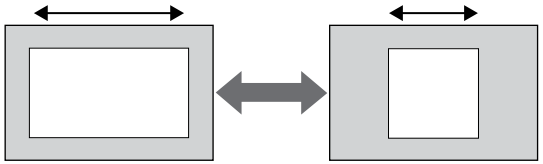
**V-Balance**



**H-Keystone**



**H-Balance**



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

   After correction, your image is slightly smaller.

**Parent topic:** Image Shape

**Related references**

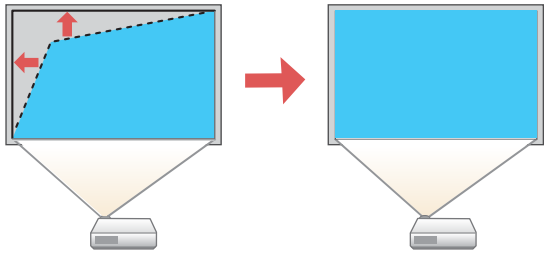
Projector Feature Settings - Settings Menu

**Related tasks**

Displaying a Test Pattern

## 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.



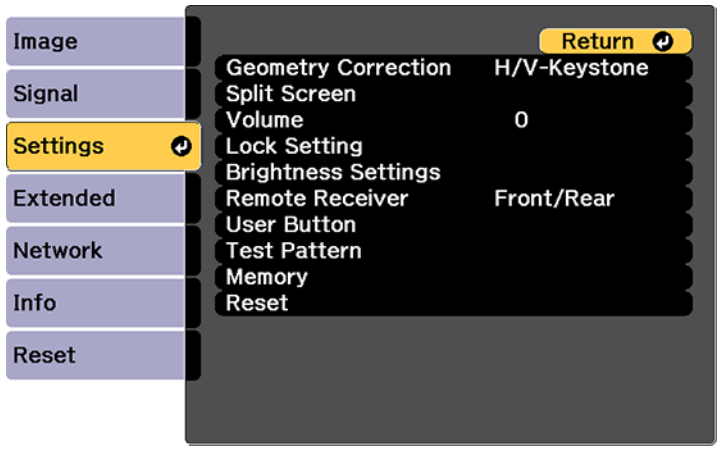
1. Turn on the projector and display an image.

   **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.

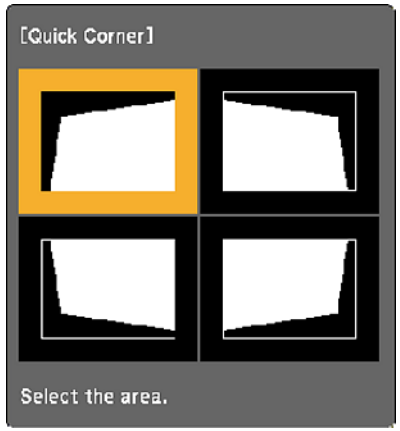
2. Press the **Menu** button.

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




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

   You see the Quick Corner adjustment screen:




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

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

**Parent topic:** Image Shape

**Related references**

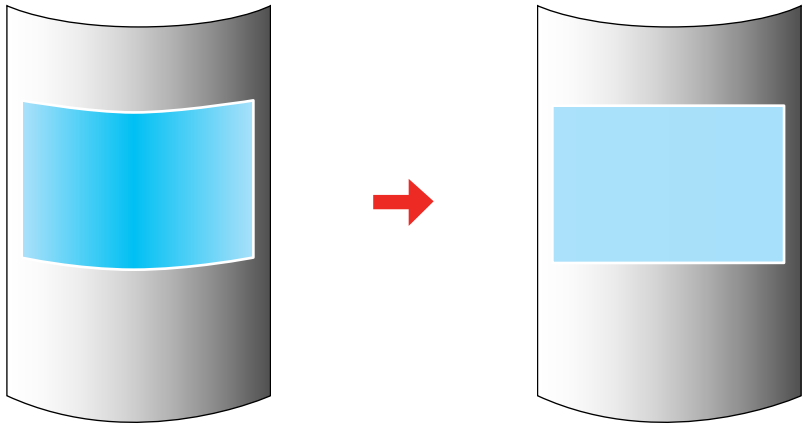
Projector Feature Settings - Settings Menu

**Related tasks**

Displaying a Test Pattern

## 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.



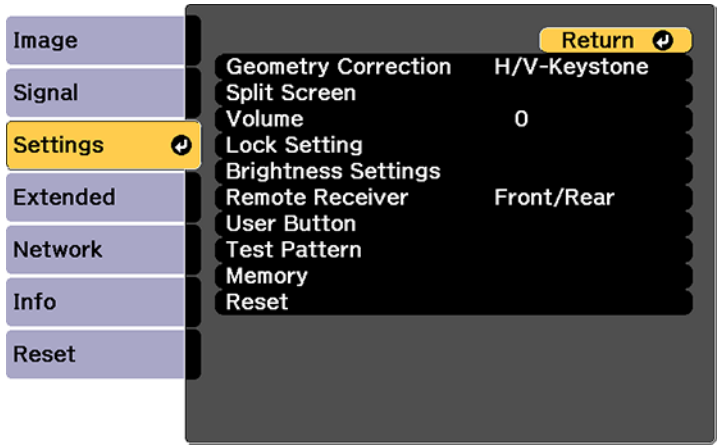
**Note:** For the best results, project from the front of the screen onto a surface with a uniform arc radius and with the lens in the home position. The image may not be evenly focused throughout even after performing the steps here. If you see a 4K Enhancement message, select **Yes** to disable the 4K Enhancement feature.

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 a pattern to aid in adjusting the projected image using the **Test Pattern** button on the remote control.

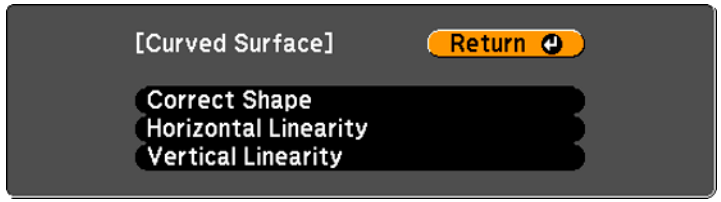
2. Press the **Menu** button.
3. Select the **Settings** menu and press **Enter**.




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

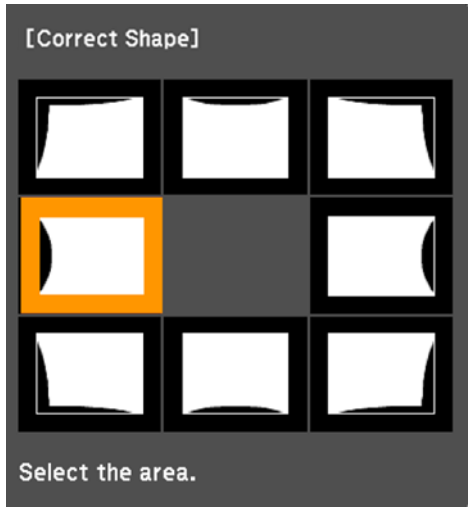
**Note:** If you see a confirmation message, press **Enter**.

You see this screen:



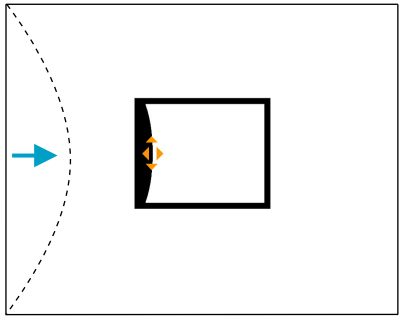

6. Select the **Correct Shape** setting and press **Enter**.

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.

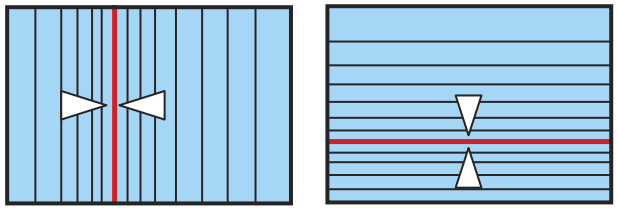


**Note:** If the adjustment triangle turns gray, you cannot adjust the shape any further in that direction.

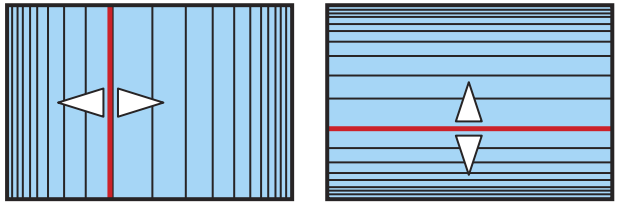
9. Press the **Esc** button to return to the Curved Surface menu screen.
10. Repeat the previous three steps as necessary to adjust other image areas.

    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 red 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**

Projector Feature Settings - Settings Menu

**Related tasks**

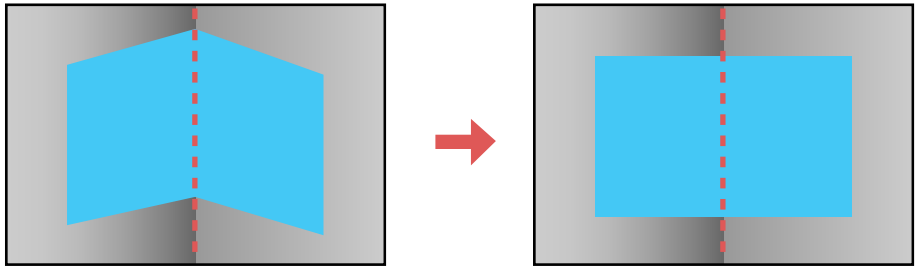
Displaying a Test Pattern

Correcting Image Shape with Quick Corner

Correcting Image Shape with Point Correction

## 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, project from the front of the screen onto a right-angled surface and with the lens in the home position. The image may not be evenly focused throughout even after performing the steps here. If you see a 4K Enhancement message, select **Yes** to disable the 4K Enhancement feature. Corner Wall is not supported for the ELPLX02 lens.

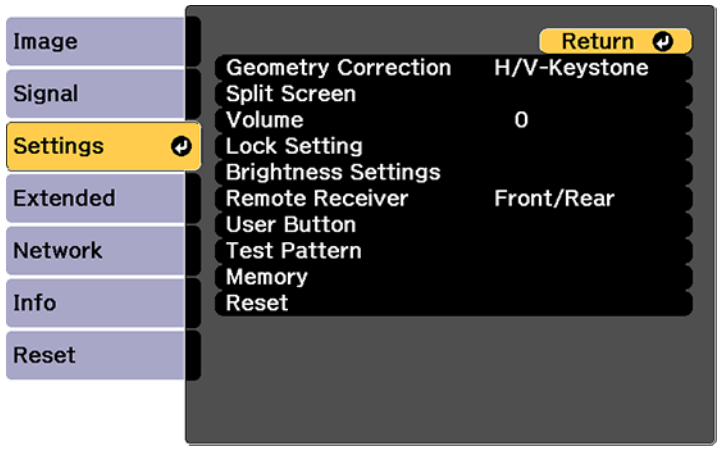
1. Turn on the projector and display an image.

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

   **Note:** You can also display a pattern to aid in adjusting the projected image using the **Test Pattern** button on the remote control.

2. Press the **Menu** button.

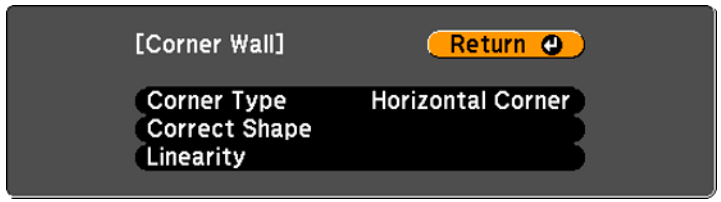
3. Select the **Settings** menu and press **Enter**.




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

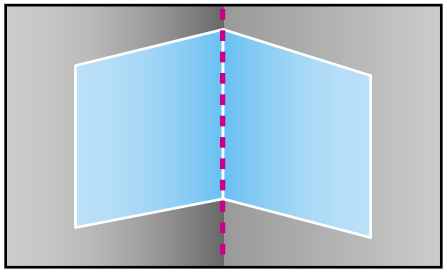
   **Note:** If you see a confirmation message, press **Enter**.

   You see this screen:

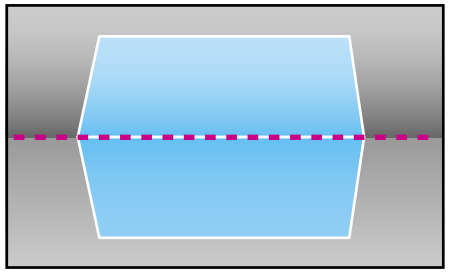



6. Select the **Corner Type** setting and press **Enter**.

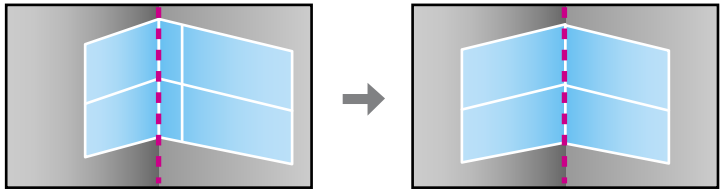
7. Select one of the following:
   - **Horizontal Corner** when the surfaces line up horizontally



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

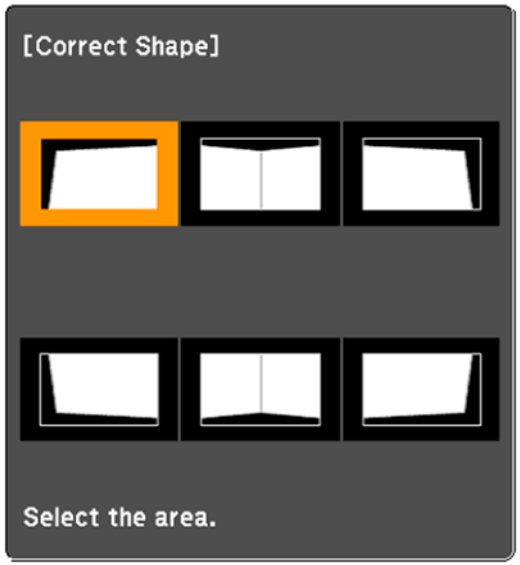


8. Press the **Esc** button to return to the Corner Wall menu screen.
9. Select the **Correct Shape** setting and press **Enter**.
10. Adjust the projector's position and use lens shift to center the image over the point where the two surfaces meet. (The rest of these steps show Horizontal Corner as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

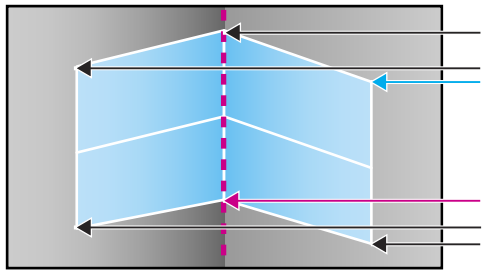


**Note:** You can press **Enter** to show or hide the image and grid to check the results.

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.

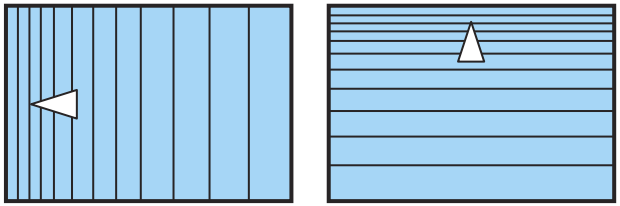


- For vertical corners, adjust the left and right areas using the points nearest the center of the image as your reference points.

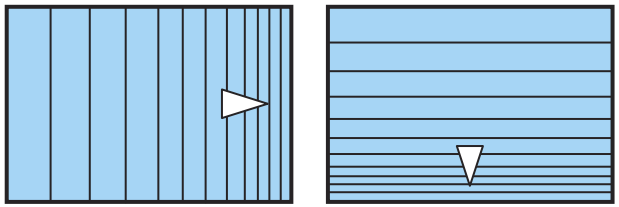
**Note:** To reset your adjustments, press and hold the **Esc** button for at least 2 seconds to display a reset screen. Then select **Yes**.

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**

Projector Feature Settings - Settings Menu

**Related tasks**

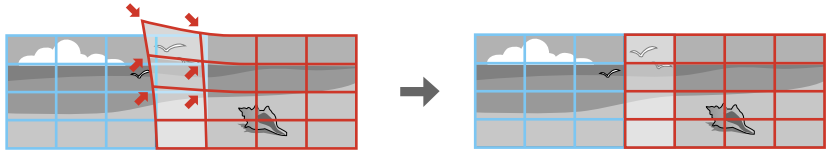
Displaying a Test Pattern

Correcting Image Shape with Quick Corner

Correcting Image Shape with Point Correction

## 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 32 pixels for WUXGA models or 0.5 to 27 pixels for SXGA+ models in any direction. If you see a 4K Enhancement message, select **Yes** to disable the 4K Enhancement feature.

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 a pattern to aid in adjusting the projected image using the **Test Pattern** button on the remote control.

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**.

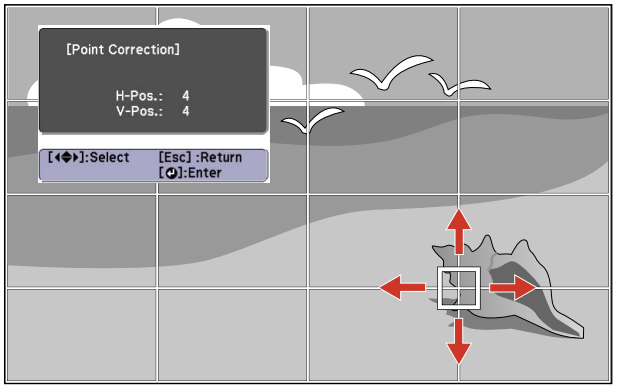
   You see this screen:

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

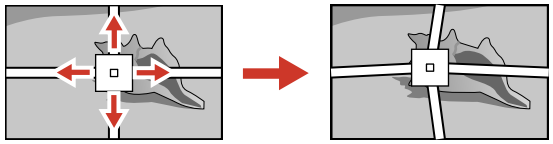
   **Note:** If you need to change the color of the grid lines, select the **Pattern Color** setting and select a suitable color.

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

**Note:** If necessary, you can fine-tune your image adjustments using the **Corner Wall** setting.

**Parent topic:** Image Shape

**Related references**

Projector Feature Settings - Settings Menu

**Related tasks**

Displaying a Test Pattern

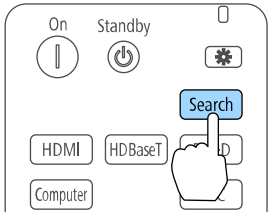
## Selecting an Image Source

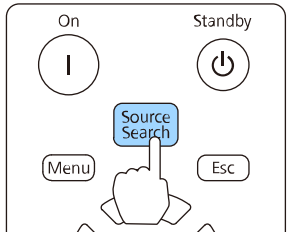
If you connected multiple image sources to the projector, such as a computer and DVD player, you may want to switch from one image source to the other.

**Note:** If you turned on the **Auto Source Search** setting in the Extended menu, the projector automatically switches to another detected image source if the signal to the current image source is lost.

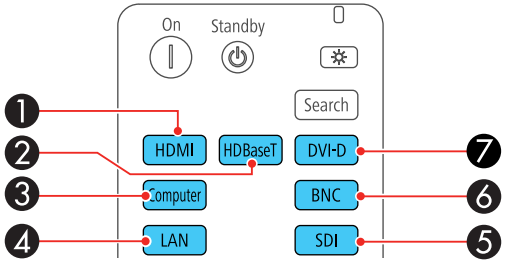
1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press its play button, if necessary.

3. Do one of the following:
   - Press the **Source Search** button on the projector or 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.




| | |
|---|---|
| 1 | HDMI port source |
| 2 | HDBaseT port source |
| 3 | Computer port source |

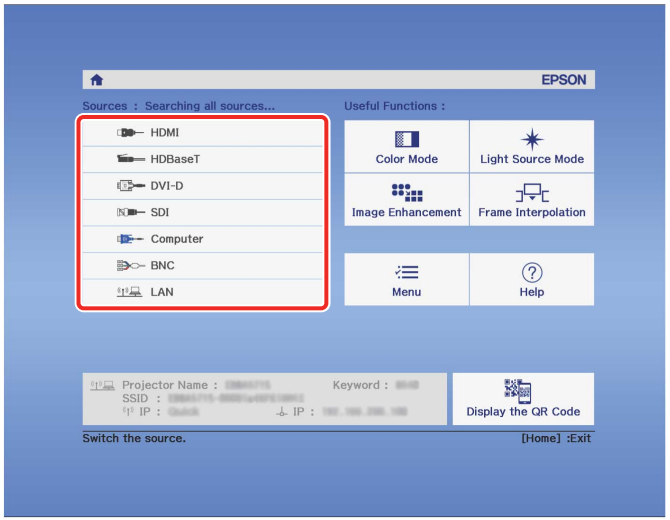
4 Network port source

5 SDI port source (not supported for Pro L1715SNL)

6 BNC port source

7 DVI-D port source

- Press the **Home** button on the remote control and select your image source.




**Parent topic:** Using Basic Projector Features

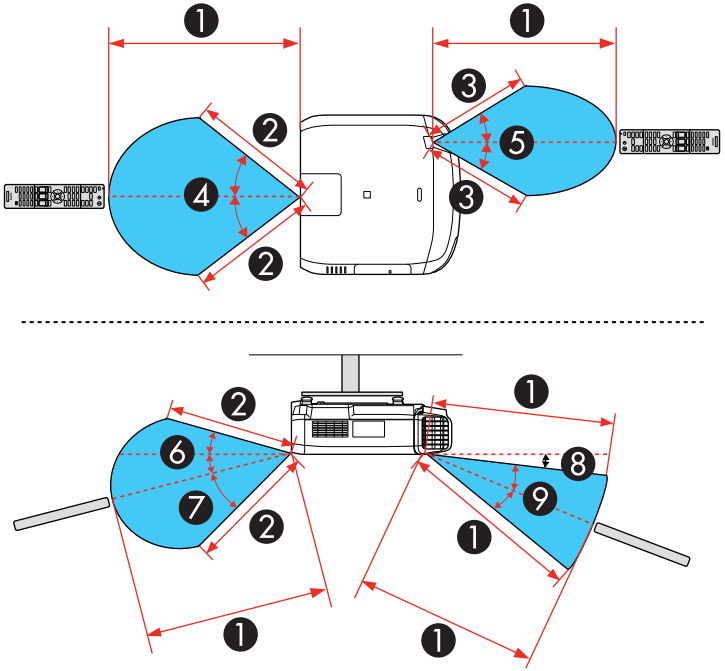
**Related references**

Projector Setup Settings - Extended Menu

# Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 98.4 feet (30 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.




| | |
|---|---|
| 1 | 98.4 feet (30 m) |
| 2 | 82.0 feet (25 m) |
| 3 | 65.6 feet (20 m) |
| 4 | ±60° |
| 5 | ±30° |
| 6 | ±15° |
| 7 | 30° |
| 8 | 10° |
| 9 | ±20° |

**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

**Related tasks**

Replacing the Remote Control Batteries

# 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:** To view 3D images, you must project onto the front of a silver screen designed for passive 3D images (Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL).

Changing the Projection Mode Using the Remote Control

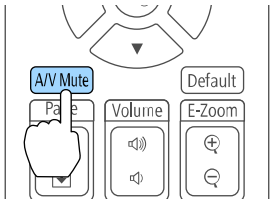
Changing the Projection Mode Using the Menus

**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 **A/V Mute** button on the remote control for 5 to 10 seconds.



The image disappears briefly and reappears flipped top-to-bottom.

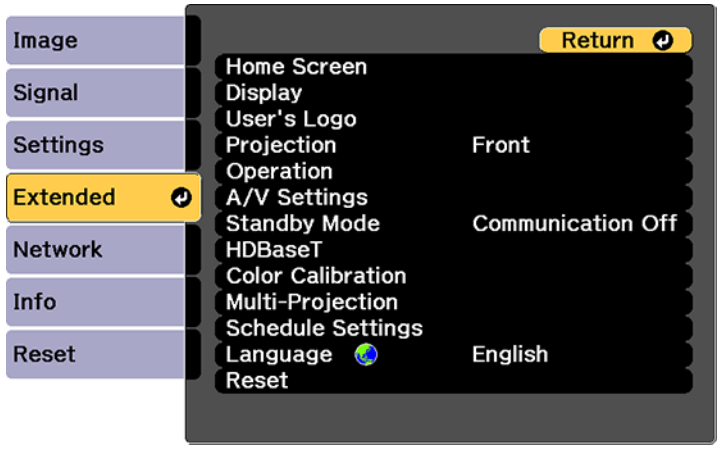
3. To change projection back to the original mode, hold down the **A/V Mute** button for 5 to 10 seconds again.

**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. However, for certain images you can change the aspect ratio to fit your screen by pressing a button on the remote control.

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

Changing the Image Aspect Ratio
Available Image Aspect Ratios

**Parent topic:** Using Basic Projector Features

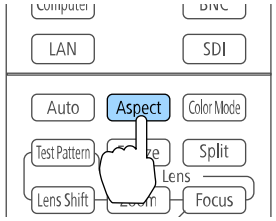
**Related references**
Image Quality Settings - Image Menu

## Changing the Image Aspect Ratio

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

**Note:** Set the **Screen Type** setting in the projector's Extended menu before changing the aspect ratio.

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




The shape and size of the displayed image changes, and the name of the aspect ratio appears briefly on the screen.

3. To cycle through the available aspect ratios for your input signal, press the **Aspect** button repeatedly.

**Note:** If you are projecting from a computer and parts of the image are cut off, set the **Resolution** setting to **Wide** or **Normal** in the Signal menu.

**Parent topic:** Image Aspect Ratio

**Related references**

Input Signal Settings - Signal Menu

**Related tasks**

Setting the Screen Type

## Available Image Aspect Ratios

You can select the following image aspect ratios, depending on the selected Screen Type setting and the input signal from your image source.

**Note:** Black bands and cropped or stretched images may project in certain aspect ratios, depending on the aspect ratio and resolution of your input signal.

| Screen Type setting | Available aspect ratios |
|---|---|
| **4:3** | Auto, Normal, 4:3, 16:9, H-Zoom, V-Zoom,Native* |
| **16:9** | Auto, Normal, Full, H-Zoom, V-Zoom, Native |
| **16:10** | Auto, Normal, 16:9, Full, H-Zoom, V-Zoom, Native |

*Available only when projecting computer images or from sources connected to the **HDMI** port

| Aspect ratio setting | Description |
|---|---|
| **Auto** | Automatically sets the aspect ratio according to the input signal. |
| **Normal** | Displays images in the same aspect ratio of the input signal. |
| **4:3** | Displays images at a 4:3 aspect ratio. |
| **16:9** | Displays images at a 16:9 aspect ratio. |
| **Full** | Displays images using the full size of the projection area, but does not maintain the aspect ratio. |
| **H-Zoom**<br>**V-Zoom** | Displays images using the full width (H-Zoom) or full height (V-Zoom) of the projection area and maintains the aspect ratio of the image. Areas that exceed the edges of the projected screen are not projected. |

| Aspect ratio setting | Description |
|---|---|
| **Native** | Displays images as is (aspect ratio and resolution are maintained). Areas that exceed the edges of the projected screen are not projected. |

**Parent topic:** Image Aspect Ratio

**Related tasks**

Setting the Screen Type

# 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.

If you always want to use a particular color mode for a certain video input source, you can select it using the projector menus.

Changing the Color Mode

Available Color Modes

**Parent topic:** Using Basic Projector Features

**Related references**

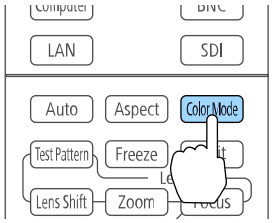
Image Quality Settings - Image Menu

## 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** | Best for projecting in a bright room |
| **Presentation** | Best for color presentations in a bright room |
| **Natural** | Best for projecting still pictures such as photos |
| **Cinema** | Best for movies projected in a dark room |
| **BT.709** | Best for watching digital TV or Blu-ray discs; produces images that conform to the ITU-R BT.709 standard |
| **DICOM SIM*** | Best for projecting X-ray photographs and other medical images |
| **Multi-Projection** | Best for projecting from multiple projectors (reduces the color tone difference between images) |

* Available only when inputting RGB signals

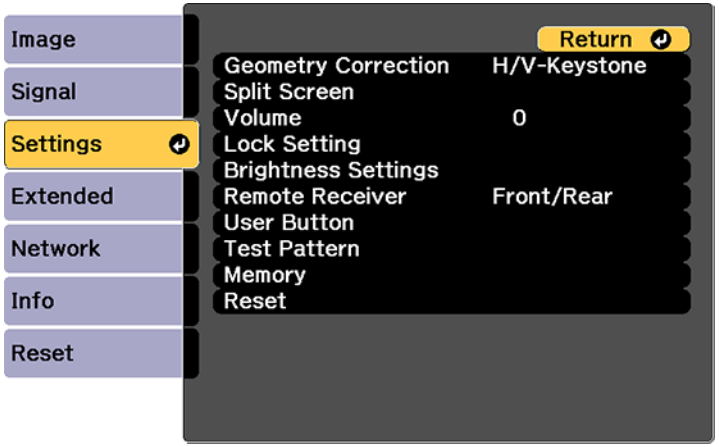
**Note:** The **DICOM SIM** Color Mode is for reference purposes only and should not be used to make medical diagnoses.

**Parent topic:** Color Mode

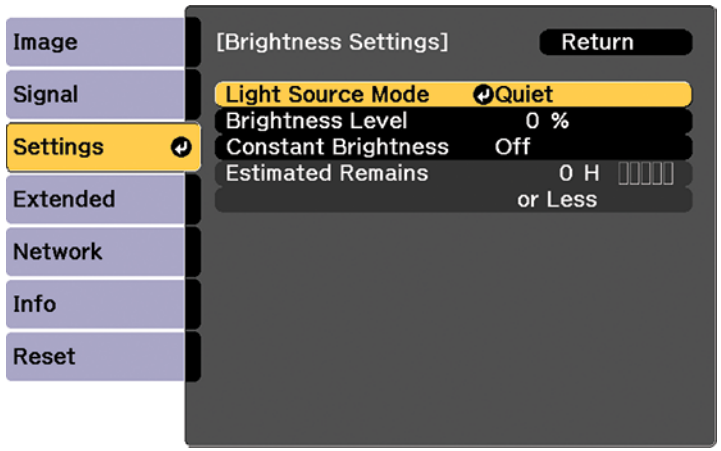
## Adjusting the Brightness

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

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



4. Select the **Brightness Settings** setting and press **Enter**.




5. Select the **Light Source Mode** setting and press **Enter**.
6. Select one of the following options:
   - **Normal**: Sets brightness to the maximum level (ideal for conference rooms, auditoriums, and lecture halls)
   - **Quiet**: Sets brightness to 70% and reduces fan noise (ideal for libraries, theaters, museums, and art galleries)
   - **Extended**: Sets brightness to 70% and extends the life expectancy of the light source (ideal for darker environments with ambient light, such as museums and art galleries, where a reduced maintenance cycle is desired)
   - **Custom**: Allows you to select a custom brightness level between 30 to 100%

   **Note:** Some lenses will not support the maximum brightness level of the Pro L1715SNL/L1750UNL/L1755UNL and you may not be able to select or adjust some of the options on this screen. Visit epson.com/lenssupport (U.S.) or epson.ca/soutienobjectifs (Canada) for details.

7. If you selected **Custom**, select **Brightness Level** from the Brightness Settings screen and use the left and right arrow buttons to select the brightness.

8. If you selected **Custom** and want to maintain consistent brightness, turn on the **Constant Brightness** setting.

   **Note:** If you turn on **Constant Brightness**, you cannot change the **Light Source Mode** and **Brightness Level** settings. If you turn off **Constant Brightness**, the **Brightness Level** setting changes according to the status of the light source.

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

**Note:** If you use the projector continuously for more than 24 hours, or regularly turn it off by shutting off the power outlet, schedule periodic **Light Source Calibration** events from the Extended menu. Otherwise, the **Constant Brightness** setting may not work properly.

Constant Brightness Usage Hours

**Parent topic:** Using Basic Projector Features

**Related references**

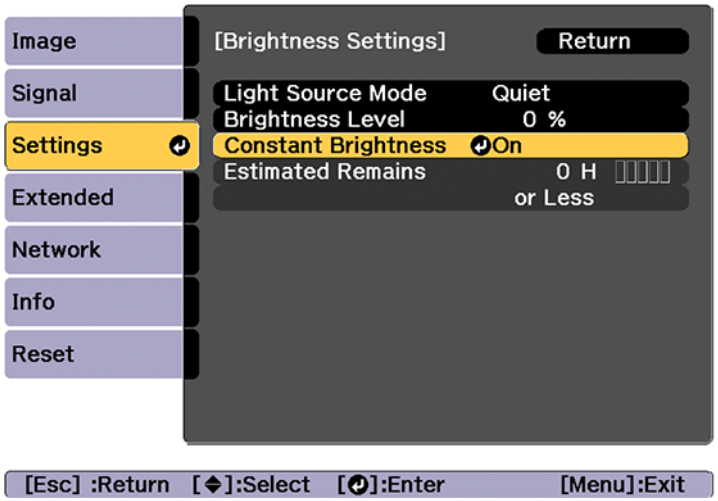
Projector Setup Settings - Extended Menu

**Related tasks**

Saving a Scheduled Event

## Constant Brightness Usage Hours

If you turn on the **Constant Brightness** setting, the number of hours the projector can maintain constant brightness is displayed as the **Estimated Remains** setting.

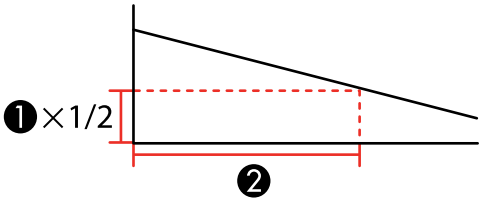



| Display level | Estimated remaining hours |
|---|---|
| ▮▮▮▮▮ | 10000 or more hours |
| ▮▮▮▮▮ | 8000 to 9999 hours |
| ▮▮▮▮▮ | 6000 to 7999 hours |
| ▮▮▮▮▮ | 4000 to 5999 hours |
| ▮▮▮▮▮ | 2000 to 3999 hours |
| ▮▮▮▮▮ | 0 to 1999 hours |

### Light source life span

The estimated life span of the light source varies depending on the **Brightness Level** setting and whether the **Constant Brightness** setting is on or off.

**Constant Brightness off**

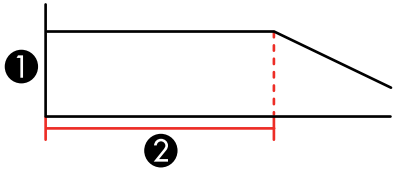



1 Brightness level

2 Time before the brightness of the light source is reduced by half (approximate)

| Brightness Level setting | Hours |
|---|---|
| 100% | 20000 hours |
| 90% | 21000 hours |
| 80% | 24000 hours |
| 70% | 30000 hours |
| 60% | 37000 hours |
| 50% | 47000 hours |
| 40% | 61000 hours |
| 30% | 71000 hours |

**Constant Brightness on**




1 Brightness level

2 Time the projector can maintain constant brightness (approximate)

| Brightness Level setting | Hours |
|---|---|
| 90% | 6000 hours |
| 80% | 10000 hours |
| 70% | 19000 hours |
| 60% | 29000 hours |
| 50% | 41000 hours |
| 40% | 56000 hours |
| 30% | 78000 hours |

**Note:** The light source usage hours vary depending upon environmental conditions and usage. The hours listed here are an approximate and are not guaranteed. After 20000 hours of use, you may need to replace parts in the projector. If **Constant Brightness** is turned on, and you have exceeded the usage hours listed here, you may not be able to select a high **Brightness Level** setting.

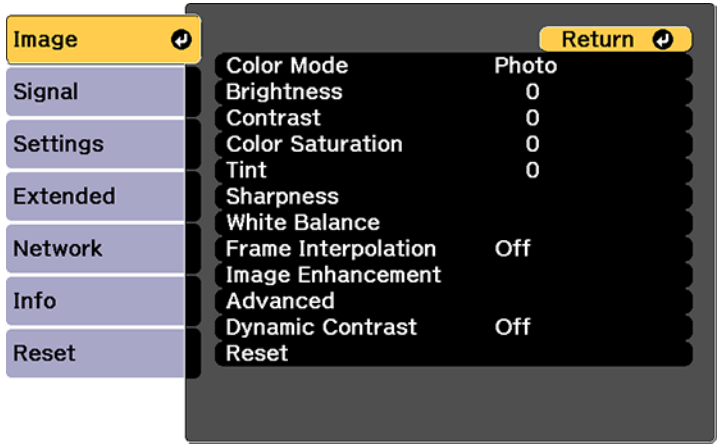
**Parent topic:** Adjusting the Brightness

## Turning On Automatic Luminance Adjustment

In the **Dynamic** and **Cinema** color modes, 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.

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




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

**Parent topic:** Using Basic Projector Features

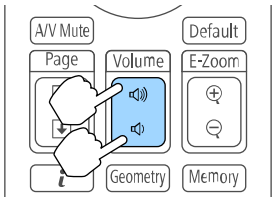
## Controlling the Volume with the Volume Buttons

You can use the **Volume** buttons on the remote control to adjust the volume as you project a presentation with audio. The volume buttons control any external speakers you connected to the projector.

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

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 remote control.




A volume gauge appears on the screen.

3. To set the volume to a specific level for an input source, use the projector menus.

**Parent topic:** Using Basic Projector Features

**Related references**

Projector Feature Settings - Settings Menu

**Related tasks**

Connecting to External Speakers

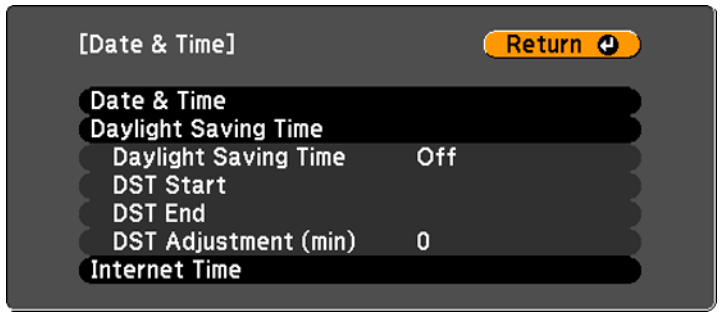
## Setting the Date and Time

You can set the date and time for the projector.

**Note:** If the **Schedule Protection** setting in the Password Protection screen is enabled, you cannot change the date and time settings.

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 your date and time settings. Then select **Set** and press **Enter** to confirm your changes.
6. When you are finished, press the **Menu** button to exit.

Date and Time Settings

**Parent topic:** Using Basic Projector Features

**Related concepts**

Password Security Types

## Date and Time Settings

| Settings | Options | Description |
|---|---|---|
| **Date & Time** | **Date**<br>**Time**<br>**Time Difference (UTC)** | Adjusts the projector's date and time settings<br>**Date** and **Time**: sets the date and time<br>**Time Difference (UTC)**: sets the time difference from Coordinated Universal Time |

| Settings | Options | Description |
|---|---|---|
| **Daylight Saving Time** | **Daylight Saving Time**<br>**DST Start**<br>**DST End**<br>**DST Adjustment (min)** | Adjusts the daylight saving time settings<br>**Daylight Saving Time**: enables or disables daylight saving time<br>**DST Start** and **DST End**: sets the date and time to start or end daylight saving time<br>**DST Adjustment (min)**: sets the difference between standard and daylight saving time |
| **Internet Time** | **Internet Time**<br>**Internet Time Server** | Automatically adjusts the time through an Internet connection<br>**Internet Time**: turn on this setting to update the date and time automatically through an Internet time server<br>**Internet Time Server**: sets the IP address for the Internet time server |

**Parent topic:** Setting the Date and Time

# Adjusting Projector Features

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


Shutting Off the Picture and Sound Temporarily
Stopping Video Action Temporarily
Zooming Into and Out of Images
Projector Security Features
Projecting Two Images Simultaneously
Using Advanced Image Adjustment Features
Using Multiple Projectors
Enabling Protocol Emulation
Viewing 3D Images
Saving Settings to Memory and Using Saved Settings
Saving a Scheduled Event
Copying Menu Settings Between Projectors

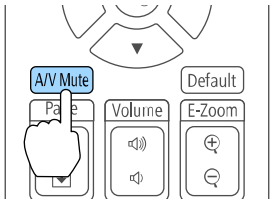

## Shutting Off the Picture and Sound Temporarily

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 **A/V Mute** button on the remote control to temporarily stop projection and mute any sound.



2. To turn the picture and sound back on, press the **A/V Mute** button again.

**Note:** To fade the image in and out when you use A/V Mute, turn on the **Fade-out** and/or **Fade-in** settings in the Extended menu.

**Note:** If you selected **A/V Mute** as the **A/V Mute Release** setting in the Extended menu, you can still control the projector while A/V Mute is enabled.

**Parent topic:** Adjusting Projector Features

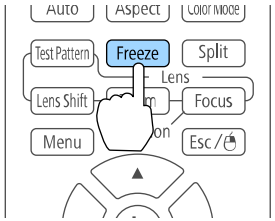
**Related references**

Projector Setup Settings - Extended Menu

## Stopping Video Action Temporarily

You can temporarily stop the action in a video or computer presentation and keep the current image on the screen. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

1. Press the **Freeze** button on the remote control to stop the video action.

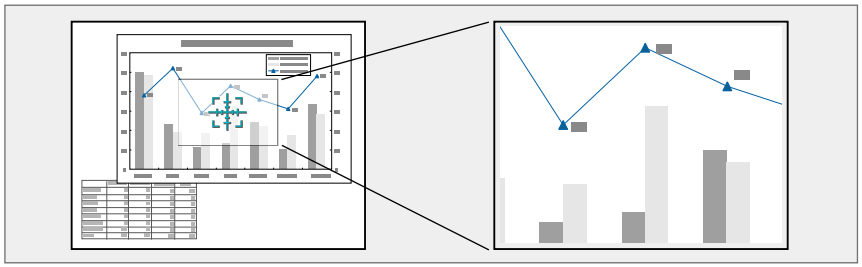



2. To restart the video action in progress, press **Freeze** again.

**Parent topic:** Adjusting Projector Features

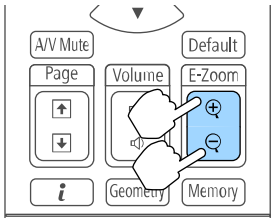
# Zooming Into and Out of Images

You can draw attention to parts of a presentation by zooming into a portion of the image and enlarging it on the screen.



**Note:** This feature is unavailable if the **Scale** setting in the Signal menu is enabled. If you see a 4K Enhancement message, select **Yes** to disable the 4K Enhancement feature.

1. Press the **E-Zoom +** button on the remote control.




   You see a crosshair on the screen indicating the center of the zoom area.

2. Use the following buttons on the remote control to adjust the zoomed image:
   - Use the arrow buttons to position the crosshair in the image area you want to zoom into.
   - Press the **E-Zoom +** button repeatedly to zoom into the image area, enlarging it as necessary.
   - To pan around the zoomed image area, use the arrow buttons.
   - To zoom out of the image, press the **E-Zoom –** button as necessary.
   - To return to the original image size, press **Esc**.

**Parent topic:** Adjusting Projector Features

**Related references**

Input Signal Settings - Signal Menu

# Projector Security Features

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

- Password security to prevent the projector from being turned on, and prevent changes to the startup screen and other settings.
- Button lock security to block operation of the projector using the buttons on the control panel or remote control.
- Security cabling to physically cable the projector in place.

Password Security Types

Locking the Projector's Buttons

Locking the Remote Control Buttons

Installing a Security Cable

**Parent topic:** Adjusting Projector Features

## Password Security Types

You can set up these types of password security using one shared password:

- **Power On Protection** password prevents anyone from using the projector without first entering a password.
- **User's Logo Protection** password prevents anyone from changing the custom screen the projector can display when it turns on. The presence of the custom screen discourages theft by identifying the projector’s owner.
- **Network Protection** password prevents anyone from changing the network settings in the projector menus.
- **Schedule Protection** password prevents anyone from changing the projector's time or schedule settings.
- **Remote Camera Access** password prevents anyone from changing the projector's **Remote Camera Access** setting in the Network menu.

  **Note:** Additional security measures are available for the Remote Camera Access feature. Contact Epson for details.

Setting a Password
Selecting Password Security Types
Entering a Password to Use the Projector
Saving a User's Logo Image to Display

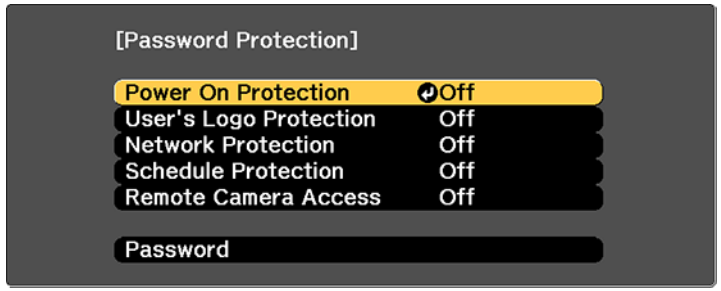
**Parent topic:** Projector Security Features

## Setting a Password

To use password security, you must set a password.

**Note:** The default password is set to **0000**.

1. Hold down the **Freeze** button on the remote control for about five seconds or until you see this menu.

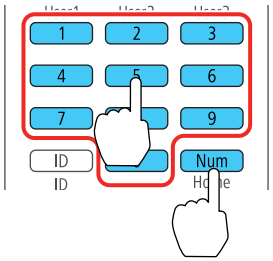



2. Press the down arrow to select **Password** and press **Enter**.

   You see the prompt "Change the password?".

3. Select **Yes** and press **Enter**.

4. Press and hold down the **Num** button on the remote control and use the numeric buttons to set a four-digit password.




The password displays as **** as you enter it. Then you see the confirmation prompt.

5. Enter the password again.

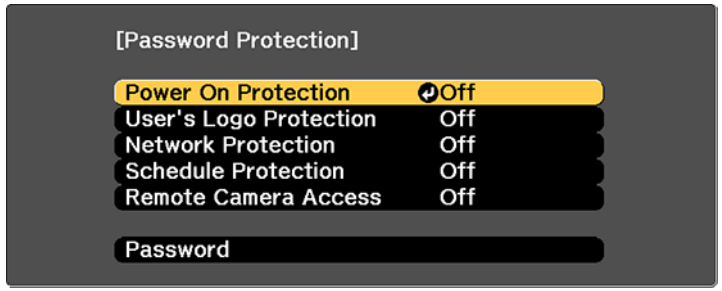
   You see the message "Password accepted."

6. Press **Esc** to return to the menu.
7. Make a note of the password and keep it in a safe place in case you forget it.

**Parent topic:** Password Security Types

### Selecting Password Security Types

After setting a password, you see this menu, allowing you to select the password security types you want to use.



If you do not see this menu, hold down the **Freeze** button on the remote control for about five seconds or until the menu appears.

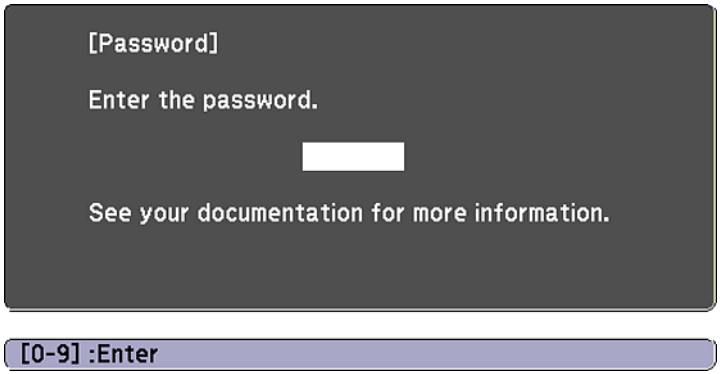
- To prevent unauthorized use of the projector, select **Power On Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- To prevent changes to the User's Logo screen or related display settings, select **User's Logo Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- To prevent changes to network settings, select **Network Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- To prevent changes to the projector's time or schedule settings, select **Schedule Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- To prevent changes to the projector's **Remote Camera Access** settings in the Network menu, select **Remote Camera Access**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.

**Note:** Be sure to keep the remote control in a safe place; if you lose it, you will not be able to enter the password required to use the projector.

**Parent topic:** Password Security Types

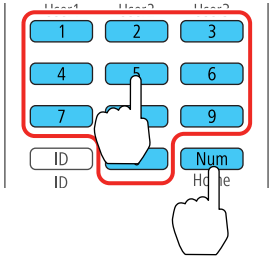
### Entering a Password to Use the Projector

If a password is set up and a **Power On Protection** password is enabled, you see a prompt to enter a password whenever you turn on the projector.




You must enter the correct password to use the projector.

1. Press and hold down the **Num** button on the remote control while you enter the password using the numeric buttons.




**Note:** The default password is **0000**.

The password screen closes.

2. If the password is incorrect, the following may happen:
   - You see a "wrong password" message and a prompt to try again. Enter the correct password to proceed.
   - If you enter an incorrect password several times in succession, the projector displays a request code and a message to contact Epson Support. Do not attempt to enter the password again. When you contact Epson Support, provide the displayed request code and proof of ownership for assistance in unlocking the projector.

**Parent topic:** Password Security Types

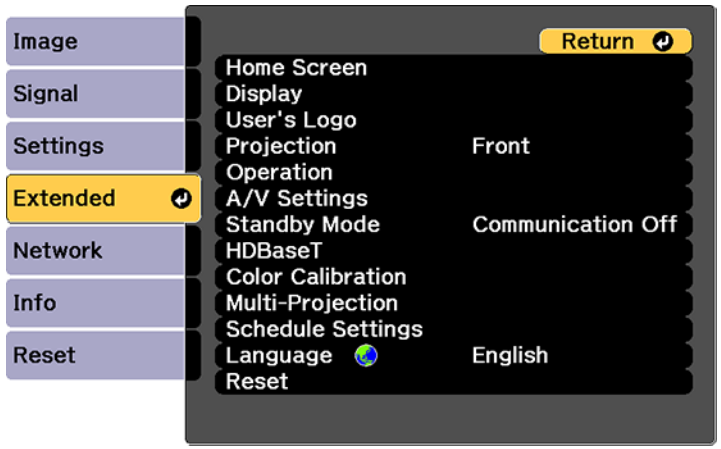
### Saving a User's Logo Image to Display

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 or when you temporarily stop projection (using the A/V Mute feature). 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.

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**.

   You see a prompt asking if you want to use the displayed image as a user's logo.

4. Select **Yes** and press **Enter**.

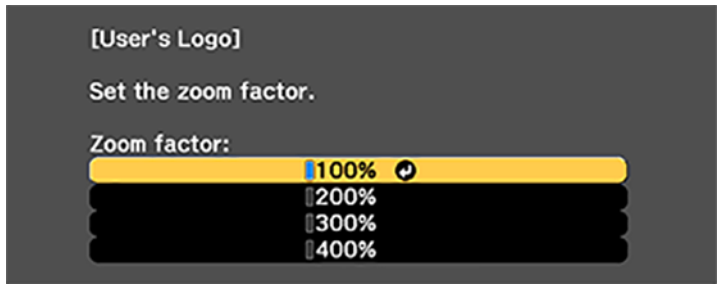
   You see a selection box overlaying your image.

5. Use the arrow buttons on the remote control to surround the image area you want to use as the User's Logo and press **Enter**.

   You see a prompt asking if you want to select this image area.

6. Select **Yes** and press **Enter**. (If you want to change the selected area, select **No**, press **Enter**, and repeat the last step.)

   You see the User's Logo zoom factor menu.



7. Select a zoom percentage and press **Enter**.

   You see a prompt asking if you want to save the image as the User's Logo.

8. Select **Yes** and press **Enter**.

   You see a completion message.

9. Press **Esc** to exit the message screen.
10. Select the **Extended** menu and press **Enter**.
11. Select **Display** and press **Enter**.
12. 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**.

To prevent anyone from changing the User's Logo settings without first entering a password, set a password and enable User's Logo security.

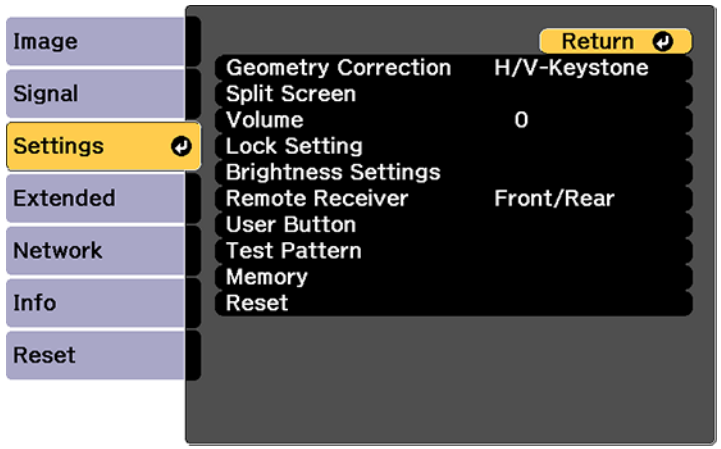
**Parent topic:** Password Security Types

## Locking the Projector's Buttons

You can lock the buttons on the projector's control panel to prevent anyone from using the projector. You can lock all the buttons or all the buttons except the power button.

1. Press the **Menu** button.

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




3. Select **Lock Setting** and press **Enter**.
4. Select the **Control Panel Lock** setting and press **Enter**.

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

5. Select one of these lock types and press **Enter**:
   - To lock all of the projector's buttons, select **Full Lock**.
   - To lock all buttons except the power button, select **Partial Lock**.

   You see a confirmation prompt.
6. Select **Yes** and press **Enter**.

Unlocking the Projector's Buttons

**Parent topic:** Projector Security Features

**Related tasks**

Unlocking the Projector's Buttons

### Unlocking the Projector's Buttons

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

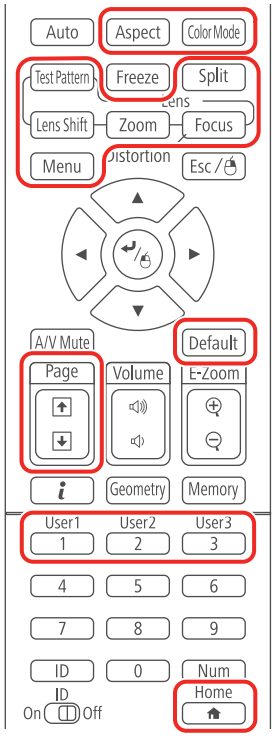
**Parent topic:** Locking the Projector's Buttons

## Locking the Remote Control Buttons

You can lock some of the buttons on the remote control.

To lock the remote control buttons related to lens operation, turn on the **Lens Lock** setting in the Settings menu.

To lock the remote control buttons shown here, press and hold the **Home** button on the remote control for approximately 5 seconds. (To unlock the buttons, press and hold the **Home** button again for approximately 5 seconds.)



**Note:** If you lock the remote control buttons, you can still reset the **Remote Receiver** setting in the Settings menu to the default settings.

**Parent topic:** Projector Security Features

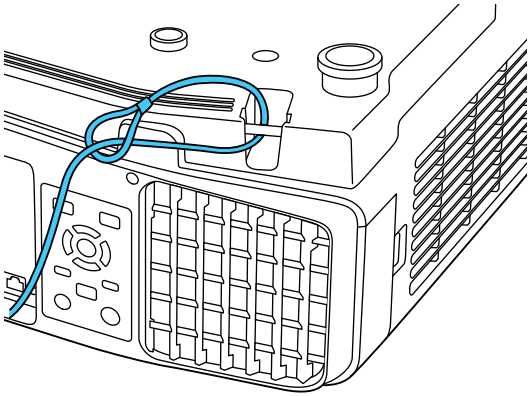
**Related references**

Projector Feature Settings - Settings Menu

## Installing a Security Cable

You can install two types of security cables on the projector to deter theft.

- Use the security slot on the projector to attach a Kensington lock. See your local computer or electronics dealer for purchase information.
- Use the security cable attachment point on the projector to attach a wire cable and secure it to a room fixture or heavy furniture.

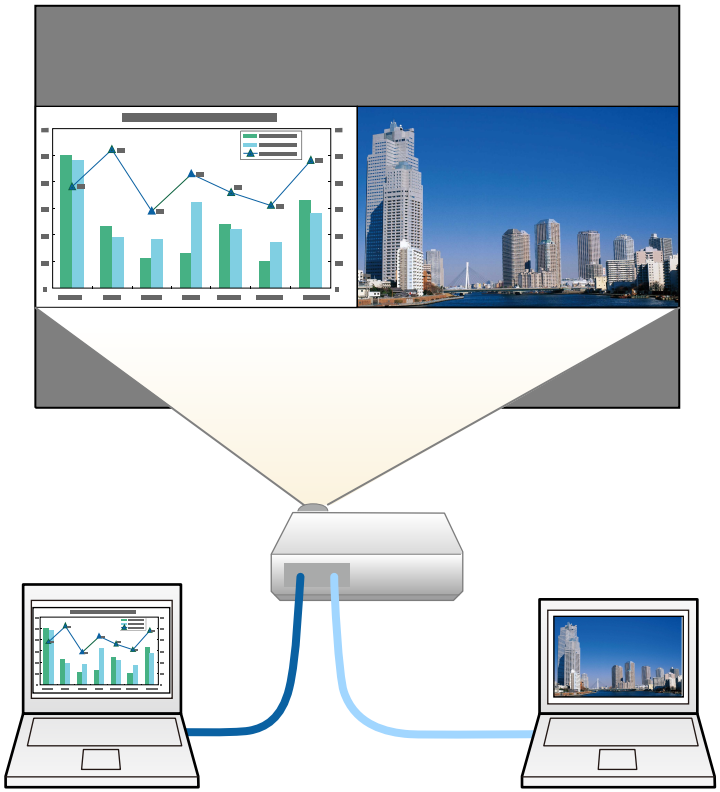


**Note:** Do not pass drop-prevention cables through the security cable attachment point when mounting the projector on a wall or ceiling.

**Parent topic:** Projector Security Features

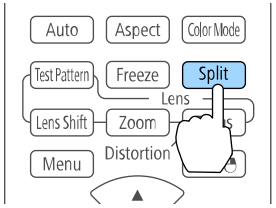
# Projecting Two Images Simultaneously

You can use the split screen feature to simultaneously project two images from different image sources next to each other. You can control the split screen feature using the remote control or the projector menus.



**Note:** While you use the split screen feature, other projector features may not be available and some settings may be automatically applied to both images.

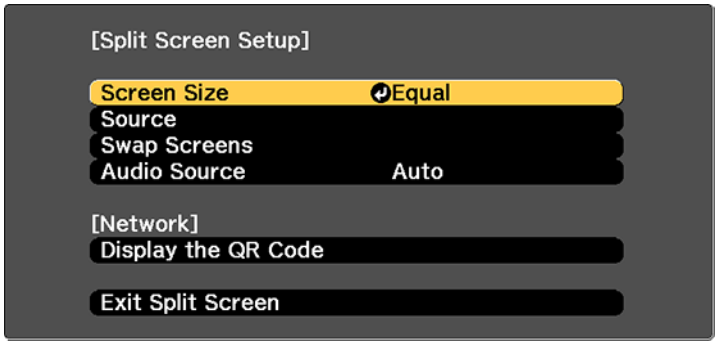
1. Press the **Split** button on the remote control.




The currently selected input source moves to the left side of the screen.

2. Press the **Menu** button.

   You see this screen:




3. To select an input source for the other image, select the **Source** setting, press **Enter**, select the input source, select **Execute**, and press **Enter**. (You can also change image sources, if necessary.)
4. To switch the images, select the **Swap Screens** setting and press **Enter**.
5. To change the image sizes, select the **Screen Size** setting, press **Enter**, select a sizing option, press **Enter**, and press **Menu** to exit.

   **Note:** Depending on the video input signals, the images may not appear at the same size even if you choose the **Equal** setting.

6. To choose the audio you want to hear, select the **Audio Source** setting, press **Enter**, select an audio option, press **Enter**, and press **Menu** to exit.
7. To exit the split screen feature, press the **Split** or **Esc** button.

Input Sources for Split Screen Projection

**Parent topic:** Adjusting Projector Features

## Input Sources for Split Screen Projection

You can choose from the input source combinations listed here for split screen projection.

**Note:** Input signals exceeding WUXGA are not supported. If you see a 4K Enhancement message, select **Yes** to disable the 4K Enhancement feature.

| Left Screen | Right Screen | | | | | | |
|---|---|---|---|---|---|---|---|
| | HDMI | HDBaseT | DVI-D | SDI* | Computer | BNC | LAN |
| HDMI | — | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HDBaseT | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVI-D | ✓ | ✓ | — | ✓ | ✓ | ✓ | ✓ |
| SDI* | ✓ | ✓ | ✓ | — | — | — | — |
| Computer | ✓ | ✓ | ✓ | — | — | — | — |
| BNC | ✓ | ✓ | ✓ | — | — | — | — |
| LAN | ✓ | ✓ | ✓ | — | — | — | — |

* Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL only

**Parent topic:** Projecting Two Images Simultaneously

# Using Advanced Image Adjustment Features

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

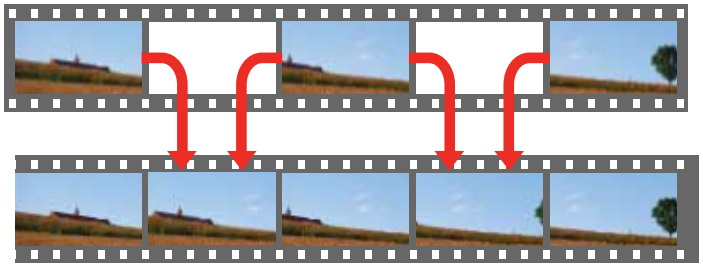
Using Frame Interpolation
Using 4K Enhancement

Creating Image Presets
Using MPEG Noise Reduction
Adjusting Scaled Resolution Images (Super-resolution)
Adjusting Detail Enhancement
Adjusting the Color Convergence (Panel Alignment)
Adjusting the Color Tone (Color Uniformity)
Running Light Source Calibration

**Parent topic:** Adjusting Projector Features

## 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.

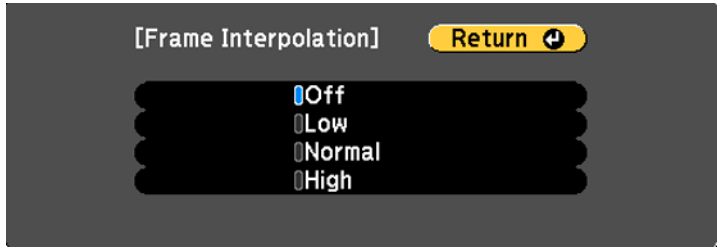


You cannot use this feature in any of the following conditions:

- You are using the E-Zoom feature
- The image signal exceeds WUXGA
- You turned on the **4K Enhancement**, **Edge Blending**, or **Scale** settings
- You selected **Fast 1** or **Fast 2** as the **Image Processing** setting
- You selected **V-Zoom** as the **Aspect** setting

1. Press the **Menu** button.
2. Select the **Frame Interpolation** setting and press **Enter**.

You see a screen like this:




3. Select the level of interpolation and press **Enter**.
4. 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 Quality Settings - Image Menu

Projector Feature Settings - Settings Menu

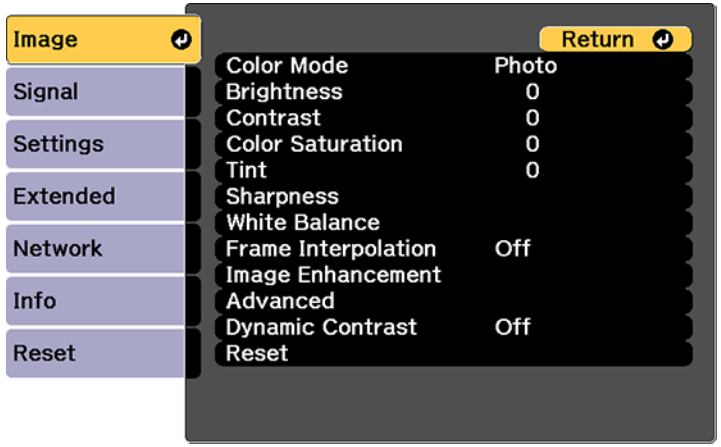
Projector Setup Settings - Extended Menu

## Using 4K Enhancement

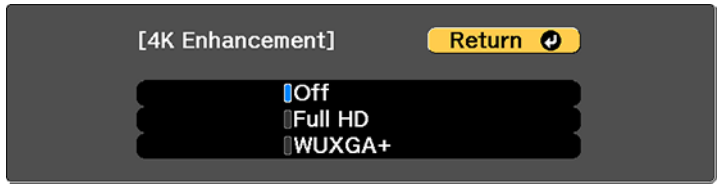
Using the projector's 4K Enhancement Technology, you can receive 4K (3840 × 2160 pixel) signals and project ultra high-definition images. This technology shifts each pixel diagonally by 0.5 pixel to double the image resolution.

1. Press the **Menu** button.

You see a screen like this:




2. Select the **Image Enhancement** setting and press **Enter**.
3. Select the **4K Enhancement** setting and press **Enter**.




4. Select one of the following options and press **Enter**:
   - **Off** to disable 4K enhancement when projecting from computers or multiple projectors
   - **Full HD** to enhance a signal with a resolution of 1080i/1080p/WUXGA or higher
   - **WUXGA+** to enhance a signal with a resolution exceeding WUXGA; when projecting a high-resolution movie, select **WUXGA+** along with an appropriate **Image Preset Mode** setting

   **Note:** If you select **Full HD** or **WUXGA+**, the following adjustment settings are canceled: **Edge Blending**, **Scale**, **Curved Surface**, **Point Correction**, and **Corner Wall**.

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

**Parent topic:** Using Advanced Image Adjustment Features

**Related references**

Projector Feature Settings - Settings Menu

Projector Setup Settings - Extended Menu

## Creating Image Presets

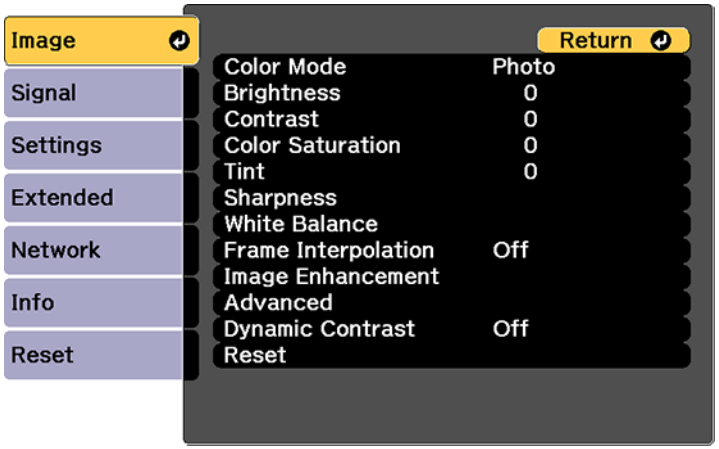
You can quickly optimize your projected image by selecting image adjustment settings and saving them as a preset you can reuse later.

You can save the following settings in a preset:

- Noise Reduction
- MPEG Noise Reduction
- Super-resolution
- Detail Enhancement

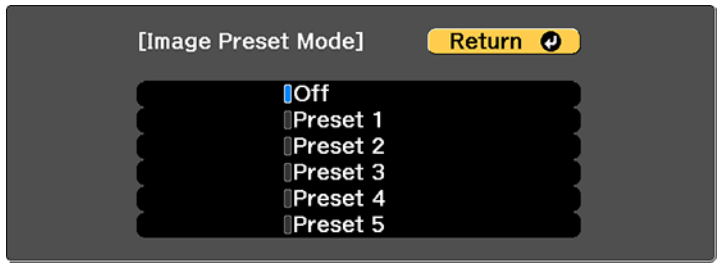
1. Press the **Menu** button.

   You see a screen like this:




2. Select the **Image Enhancement** setting and press **Enter**.

3. Select the **Image Preset Mode** setting and press **Enter**.




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

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

5. Press **Esc** to return to the Image Enhancement menu.
6. Fine-tune the following settings:
   - Noise Reduction
   - MPEG Noise Reduction
   - Super-resolution
   - Detail Enhancement
7. 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 Quality Settings - Image Menu

## Using MPEG Noise Reduction

If you are projecting MPEG movies, you can reduce dots and block noise by adjusting the **MPEG Noise Reduction** setting.

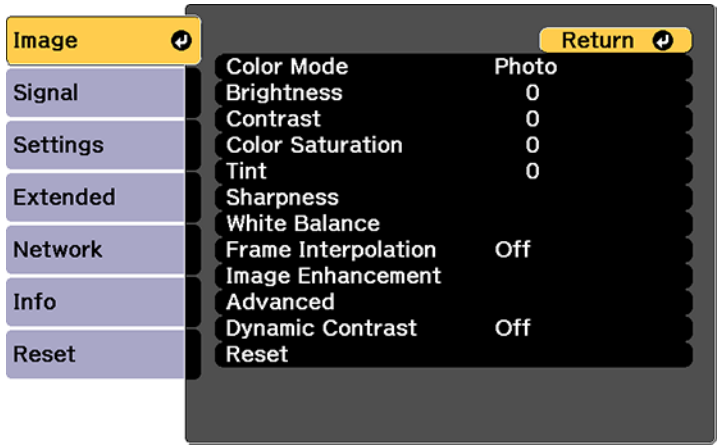
You cannot use this feature in any of the following conditions:

- The image signal exceeds WUXGA
- You turned on the **4K Enhancement** setting

- 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 **MPEG Noise Reduction** setting and press **Enter**.

4. Select the level of noise reduction and press **Enter**.
5. Press **Menu** or **Esc** to exit the menus.

**Parent topic:** Using Advanced Image Adjustment Features

**Related tasks**

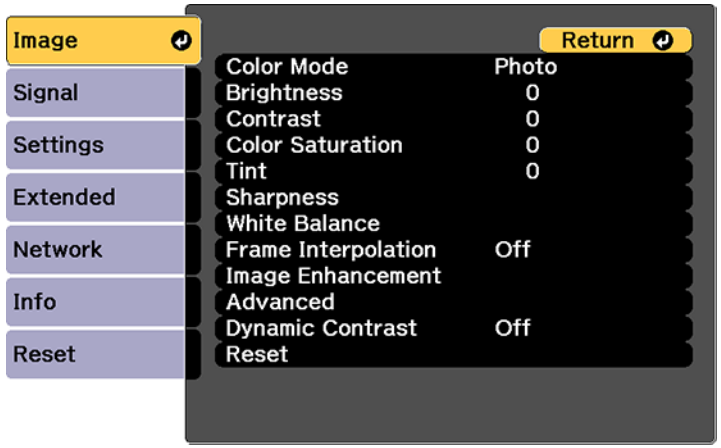
Using 4K Enhancement

## Adjusting Scaled Resolution Images (Super-resolution)

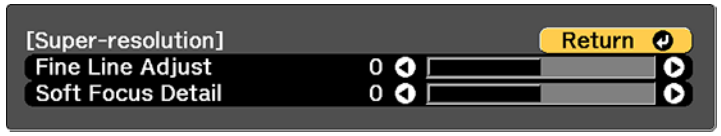
You can sharpen blurry, low-resolution images that had their resolution scaled up for projection using the **Super-resolution** setting.

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.

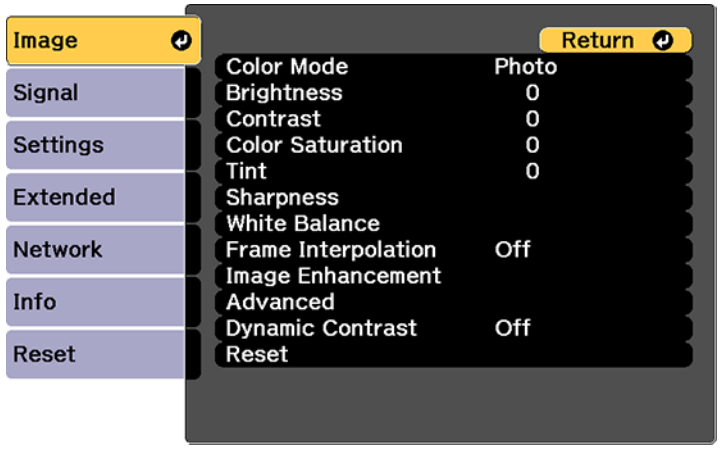
**Parent topic:** Using Advanced Image Adjustment Features

## Adjusting Detail Enhancement

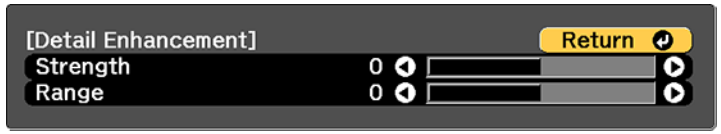
You can enhance the contrast in detailed areas of an image to create a more textured look.

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 **Detail Enhancement** setting and press **Enter**.




5. Adjust each of the following options as necessary:
   - **Strength** to adjust the image contrast

- **Range** to adjust the enhanced area of the image

**Note:** Higher values increase the intensity of the effect.

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

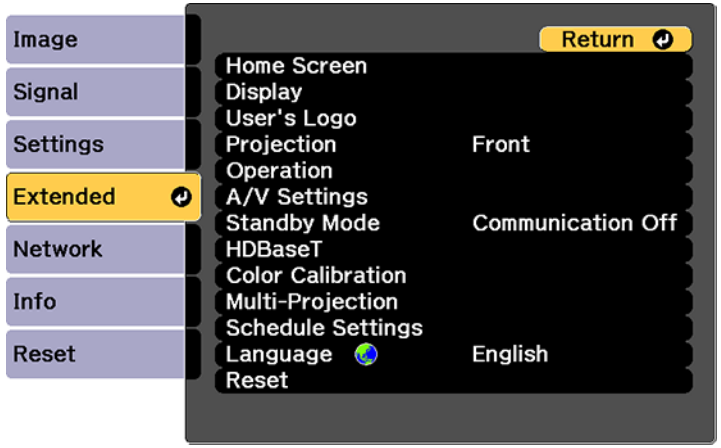
**Parent topic:** Using Advanced Image Adjustment Features

## Adjusting the Color Convergence (Panel Alignment)

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

**Note:** Allow your projector to warm up for at least 10 to 15 minutes and make sure the image is in focus before you use the Panel Alignment feature. The projected image size should be at least 60 inches (152 cm) diagonally and the projection surface should not be colored or textured; otherwise the adjustment grids are difficult to align.

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



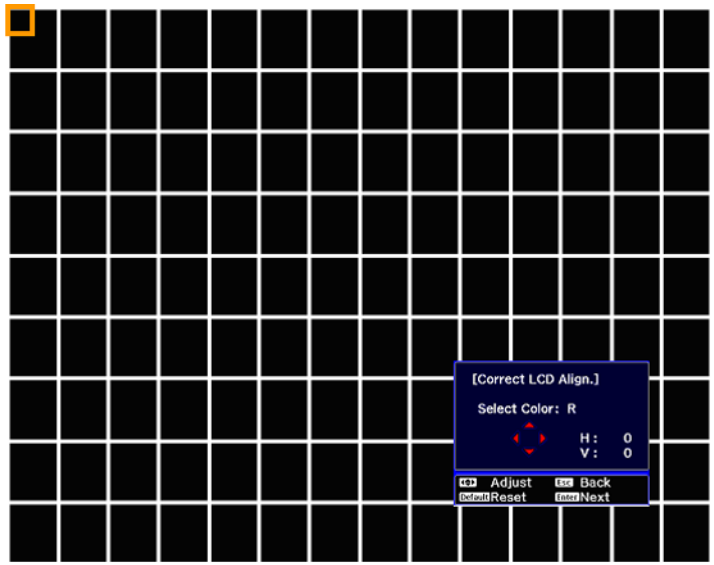

3. Select the **Display** setting and press **Enter**.
4. Select the **Panel Alignment** setting and press **Enter**.
5. Press **Enter** and select **On**.

6. Press **Esc**.
7. 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

   **Note:** You can adjust only the red or blue color convergence; you cannot adjust the standard green color panel.

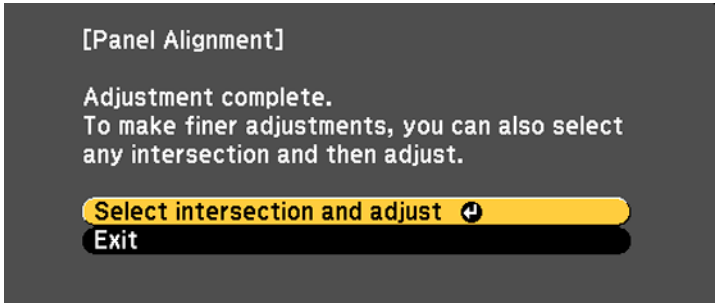
8. Select the **Pattern Color** setting and press **Enter**.
9. Select the pattern you want to use and press **Esc**.
10. Select **Start Adjustments** and press **Enter** twice.

    You see this screen:




11. Use the arrow buttons on the remote control to adjust the color alignment in the corner of the screen highlighted by the orange box.
12. Press the **Enter** button to move to the next corner of the screen.
13. When you are finished adjusting each corner of the screen, press **Enter**.

You see this screen:




14. Do one of the following:
    - If your projector's panel alignment is now correct, select **Exit** and press **Enter** to return to the Panel Alignment menu.
    - If your projector needs additional panel alignment, select **Select intersection and adjust** and press **Enter**. Use the arrow keys on the remote control to highlight the corner of any box on the screen that is misaligned and press **Enter** to adjust the color convergence. Repeat this step as necessary.

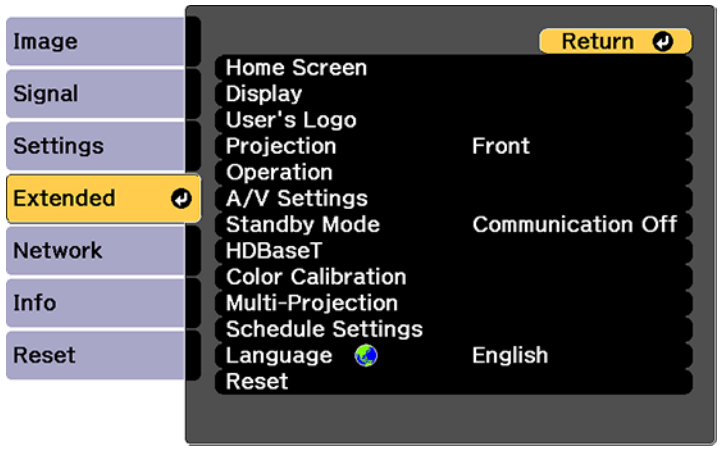
**Parent topic:** Using Advanced Image Adjustment Features

## Adjusting the Color Tone (Color Uniformity)

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

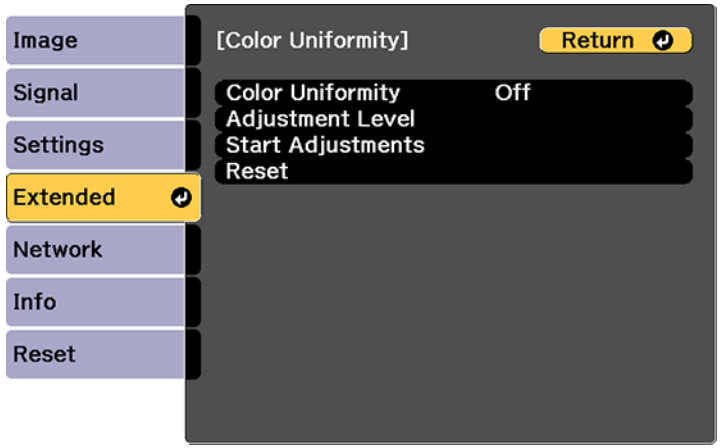
1. Press the **Menu** button.

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



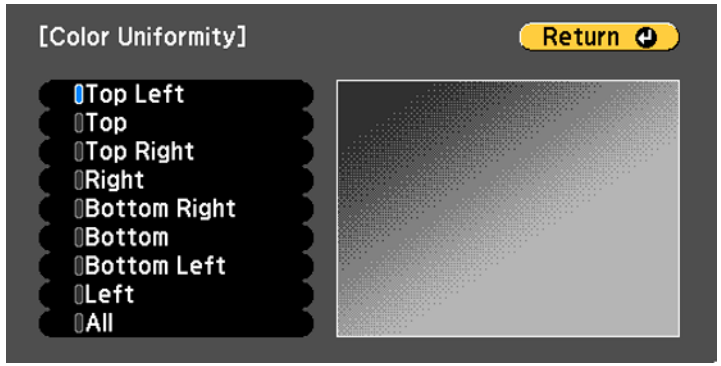

3. Select the **Display** setting and press **Enter**.
4. Select the **Color Uniformity** setting and press **Enter**.

   You see this screen:




5. Press **Enter** and select **On**.
6. Press **Esc**.

7. Select the **Adjustment Level** setting and press **Enter**.
8. Press the right and left arrow buttons to adjust the level, then 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**.
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. When you are finished, press the **Menu** button.

**Parent topic:** Using Advanced Image Adjustment Features

## Running Light Source Calibration

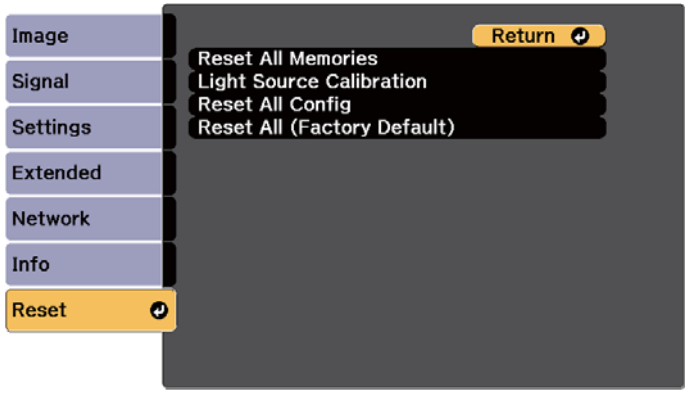
Light source calibration automatically adjusts any difference between the white balance and the brightness level of the light source. You should perform light source calibration every 100 hours of projector usage. You can also schedule automatic calibration or run the light source calibration manually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

**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**.
   - To see the last time the projector performed a calibration, select **Last Run**.
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

**Related tasks**

Saving a Scheduled Event

## Using Multiple Projectors

You can combine the projected images from two or more projectors to create one large image. Follow the instructions in these sections to set up and project from multiple projectors.

Multiple Projector Adjustment Overview

Projector Identification System for Multiple Projector Control

Tiling Images into One Image
Blending the Image Edges
Adjusting the Black Level
Matching Tint and Brightness (Screen Matching)
Scaling an Image

**Parent topic:** Adjusting Projector Features

## Multiple Projector Adjustment Overview

If you are combining images from multiple projectors on a network, you can assign one projector as the "master" and automatically adjust all the images to match the "master" image. If the projectors are not connected to a network, you can match each projector's images manually.

**Note:** Make sure all networked projectors are connected using LAN cables and have been assigned an IP address. Also disable the **4K Enhancement** and **Sleep Mode** settings on each projector so they do not turn off during adjustment.

1. Turn on all the projectors.
2. To select a master projector for automatic adjustment, select **Custom** for the **Light Source Mode** setting and set the **Brightness Level** setting to the maximum value for all projectors. The projector with the darkest projected image is the master projector.
3. Do one of the following:
   - For automatic adjustment, set an ID for the master projector and the remote control.
   - For manual adjustment, set an ID for each projector and the remote control.
4. Adjust each projector's physical position and angle to the screen.
5. Do one of the following:
   - For automatic adjustment, configure tiling automatically.
   - For manual adjustment, configure tiling manually.
6. Adjust the image aspect ratio for each projector.
7. Adjust the position of the image for each projector using lens shift.
8. Adjust the zoom and focus for each projector.
9. Adjust small differences in the images using the **Point Correction** setting.
10. Adjust the edges of the images using the **Edge Blending** and **Black Level** settings.

11. Adjust the brightness and tint of the images using the **Screen Matching** setting.
12. Select sections of the images using the **Scale** setting.

**Parent topic:** Using Multiple Projectors

**Related concepts**

Wired Network Projection
Projector Identification System for Multiple Projector Control
Projector Placement
Image Aspect Ratio

**Related references**

Projector Feature Settings - Settings Menu

**Related tasks**

Turning On the Projector
Adjusting the Image Position Using Lens Shift
Adjusting the Image Position Using Screen Position
Resizing the Image with the Zoom Button
Focusing the Image Using the Focus Buttons
Correcting Image Shape with Point Correction
Blending the Image Edges
Adjusting the Black Level
Scaling an Image

**Related topics**

Tiling Images into One Image
Matching Tint and Brightness (Screen Matching)

## Projector Identification System for Multiple Projector Control

You can operate multiple projectors using one remote control for more elaborate presentations. To do this, you assign an identification number to each projector and to the remote control. Then you can operate all the projectors at once or individually.

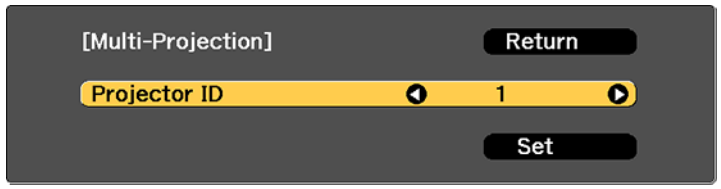
Setting the Projector ID
Setting the Remote Control ID

**Parent topic:** Using Multiple Projectors

### Setting the Projector ID

If you want to control multiple projectors from a remote control, give each projector a unique ID.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select **Projector ID** and press **Enter**.




5. Press the left or right arrow buttons on the remote control to select the identification number you want to use for the projector. Then select **Set** and press **Enter**.

Repeat these steps for all the other projectors you want to operate from one remote control.

**Note:** If you don't know the projector's ID, hold down the **ID** button and press the **Home** button to temporarily display the projector's ID on the screen.

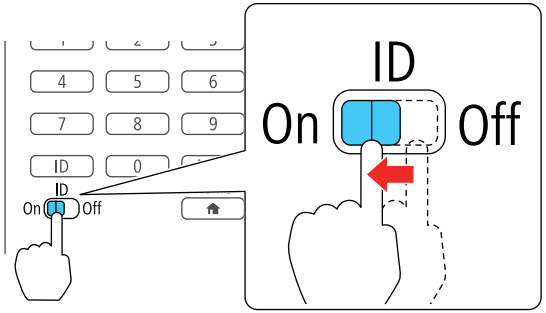
**Parent topic:** Projector Identification System for Multiple Projector Control

### Setting the Remote Control ID

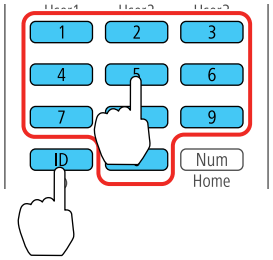
The remote control's ID is set to **0** by default so it can operate any compatible projector. If you want to set the remote control to operate only a particular projector, you need to set the remote control's ID to match the projector's ID.

1. Turn on the projector you want the remote control to operate with exclusively.

2. Set the remote control **ID** switch to **On**.




3. Hold down the **ID** button on the remote control while you press the numeric button that matches the projector's ID. Then release the buttons.

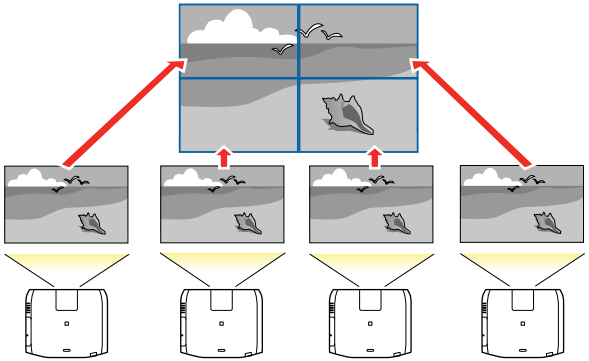



**Note:** If you don't know the projector's ID, hold down the **ID** button and press the **Home** button to temporarily display the projector's ID on the screen. If the batteries are left out of the remote control for an extended period, the remote control ID returns to its default setting.

**Parent topic:** Projector Identification System for Multiple Projector Control

## Tiling Images into One Image

You can project the same image from up to nine projectors to create one large image using the Tiling feature.



**Note:** Before tiling, make sure the displayed images from your projectors are rectangular, correctly sized, and focused.

Configuring Tiling Automatically
Configuring Tiling Manually

**Parent topic:** Using Multiple Projectors

### Configuring Tiling Automatically

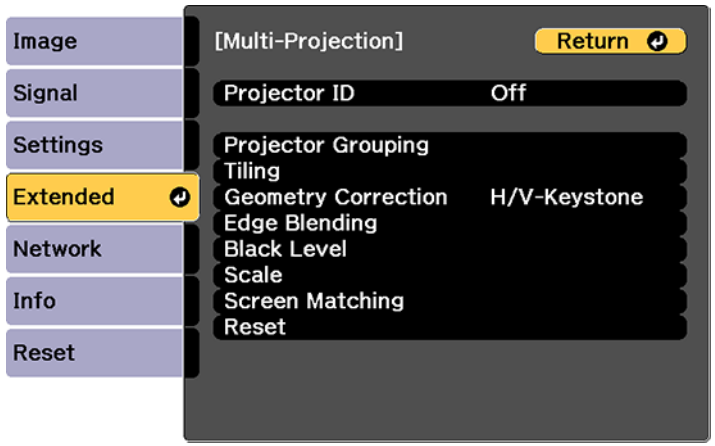
If your projectors are on a network and you have identified a master projector, you can configure tiling automatically.

1. Turn on the projector.

   **Note:** Make sure nothing is blocking the built-in camera on the front of the projector.

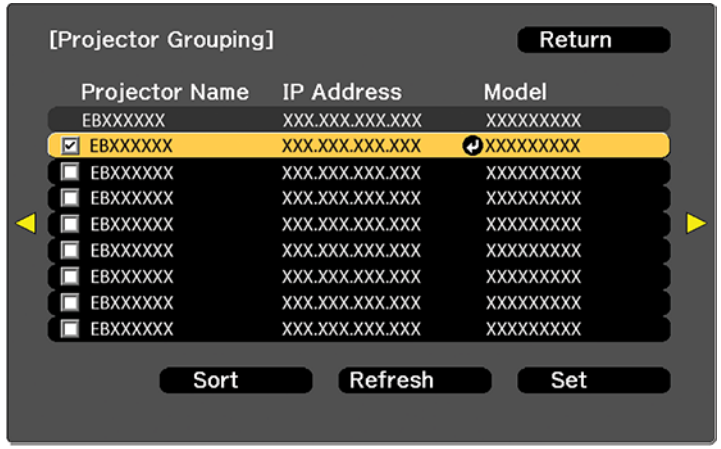
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
4. Select **Multi-Projection** and press **Enter**.

You see this screen:



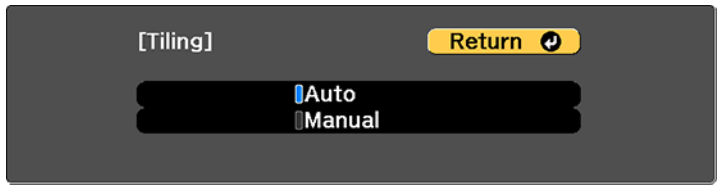

5. Select **Projector Grouping** and press **Enter**.

   You see a screen like this:




6. Press the up or down arrow buttons to highlight a projector and press **Enter** to place a checkmark next to each projector you want to use for tiling. Then select **Set** and press **Enter**.
7. Select **Tiling** and press **Enter**.

8. Select **Tiling** again and press **Enter**.




9. Select **Auto** and press **Esc**.
10. Select **Location Setup** and press **Enter**.

    The projected images are positioned automatically.
11. When you see the message to assign projector IDs, select **Yes**.

    When setup is complete, you see a screen like this:

**Note:** If any of the images are not positioned correctly, select **Manual** in step 9 to locate the image manually.

12. Select the input signal to display an image.

After performing the steps here, adjust the images for any gaps and differences in color.

**Note:** Do not change any of the projector names or IP addresses, or the images will not be adjusted automatically.

**Parent topic:** Tiling Images into One Image

**Related references**

Projector Parts - Front/Top

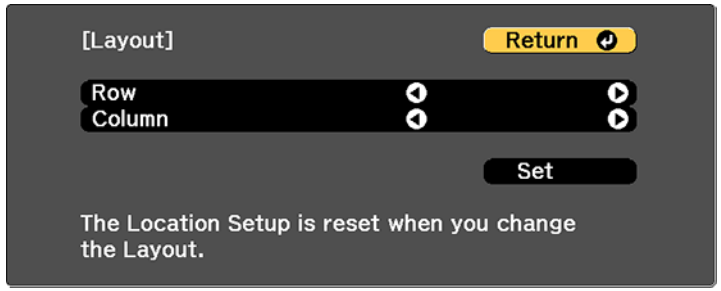
**Related tasks**

Configuring Tiling Manually

## Configuring Tiling Manually

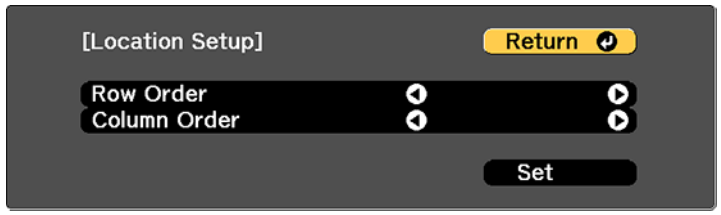
If your projectors are not on a network or you were unsuccessful tiling the images automatically, you can configure tiling manually.

1. Turn on the projector.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
4. Select **Multi-Projection** > **Tiling** > **Layout**.

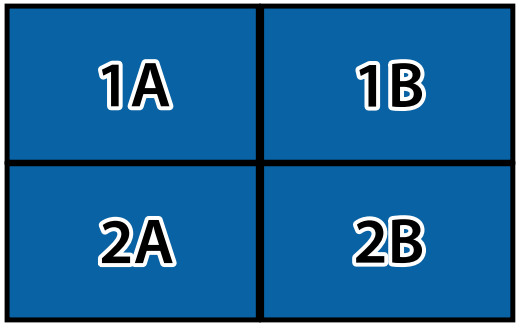



5. Select the number of rows and columns you are setting up as the **Row** and **Column** settings. Then select **Set** and press **Enter**.
6. Repeat the previous steps with each projector you are setting up before continuing with the next step.

7. Select **Location Setup** and press **Enter**.




8. Select the position of each projected image as follows:
   - **Row Order** to layout the screens from top to bottom in sequential order, starting with **1** at the top
   - **Column Order** to layout the screens from left to right, starting with **A** on the left



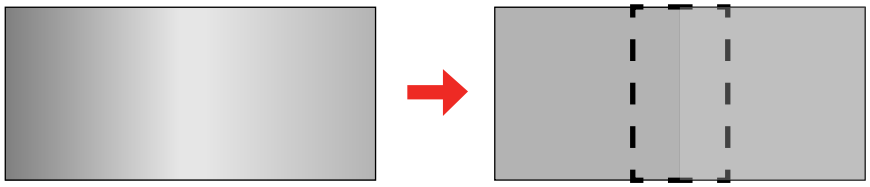

9. Repeat the previous step with each projector you are setting up before continuing with the next step.
10. Select the input signal to display an image.

After performing the steps here, adjust the images for any gaps and differences in color.

**Parent topic:** Tiling Images into One Image

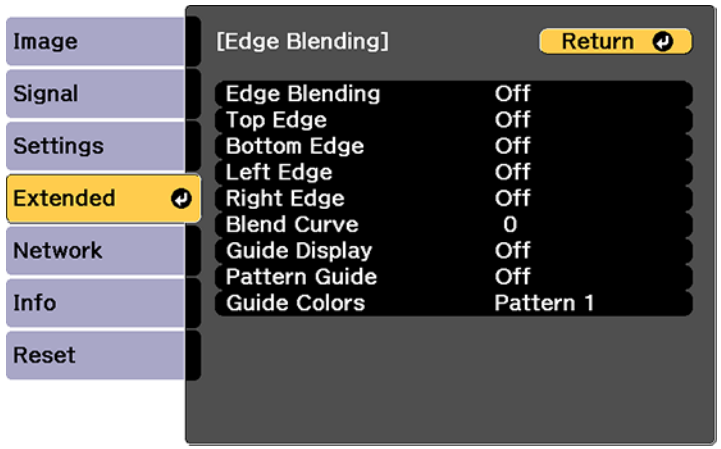
## Blending the Image Edges

You can use the projector's Edge Blending feature to create a seamless image from multiple projectors.



1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Edge Blending** setting and press **Enter**.

   You see this screen:

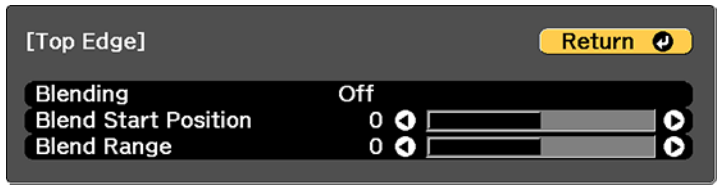



5. Turn on the **Edge Blending**, **Guide Display**, and **Pattern Guide** settings.

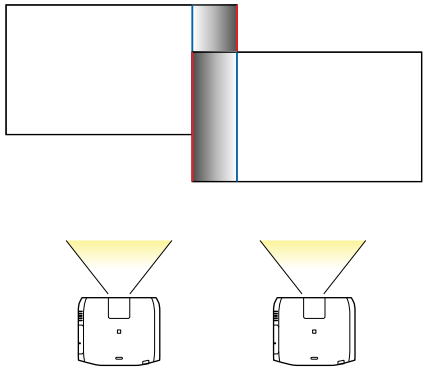
   **Note:** If the projected guide is unclear, try changing the **Guide Colors** setting.

6. Select the edge you want to blend on each projector and press **Enter**.

You see a screen like this:




7. Select the **Blending** setting and select **On**.
8. Select the **Blend Start Position** setting and adjust the point where edge blending begins.
9. Select the **Blend Range** setting and use the arrow buttons to select the width of the blended area so that the displayed guides are at the edges of the overlapping area between the two images.

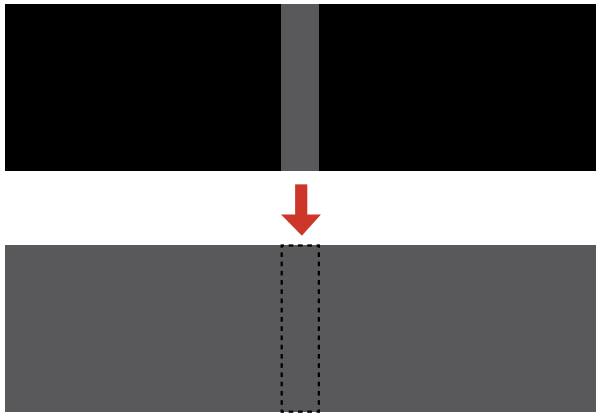


10. Press **Esc** to go back to the previous screen.
11. Select the **Blend Curve** setting and select a gradient for the shaded area on the projectors.
12. When the edges are blended, turn off the **Guide Display** and **Pattern Guide** settings to check the final settings.
13. When you are finished, press the **Menu** button.

**Parent topic:** Using Multiple Projectors

## Adjusting the Black Level

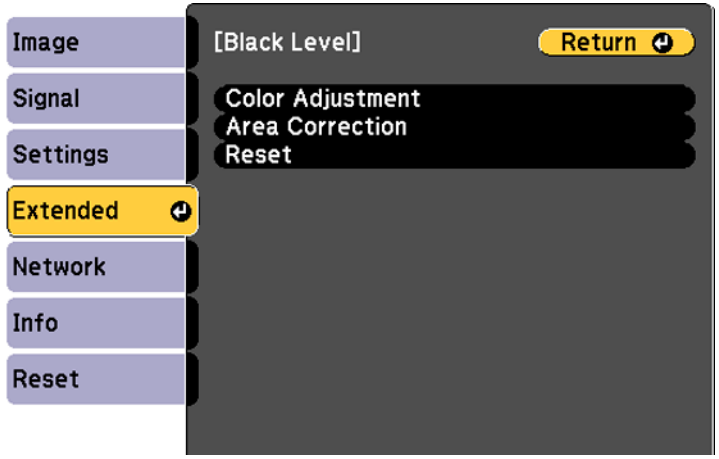
When two images overlap, the overlapping area can appear differently from the areas that do not overlap. You can use the projector's Black Level setting to make the difference less noticeable.



**Note:** You may not be able to adjust the black levels correctly if the **Geometry Correction** settings are set too high. The brightness and tone of the overlapping areas may differ from the rest of the image even after adjusting the black level.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Black Level** setting and press **Enter**.

You see this screen:

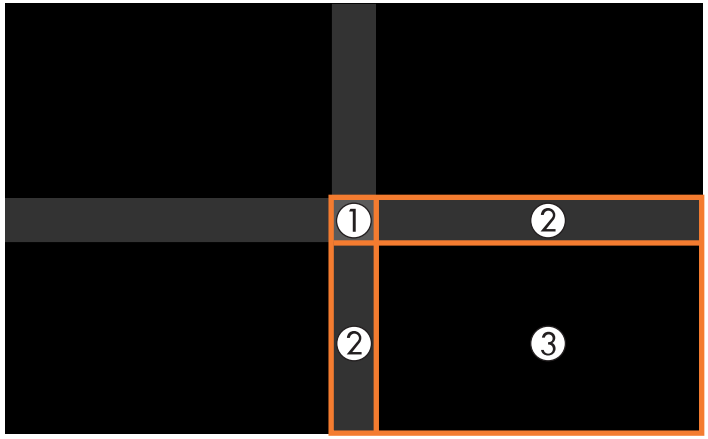



5. Select the **Color Adjustment** setting and press **Enter**.

   You see a screen based on the **Top Edge**, **Bottom Edge**, **Right Edge**, and **Left Edge** settings you selected for the **Edge Blending** setting.

   **Note:** The **Color Adjustment** setting is automatically adjusted when selecting **Start Auto Adjustment** in the Screen Matching screen.

6. Select the area you want to adjust and press **Enter**.




**Note:** The area you selected is displayed in orange. Adjust overlapping areas starting with the brightest areas first. For example, adjust area 2 to match area 1, then adjust area 3 to match area 2.

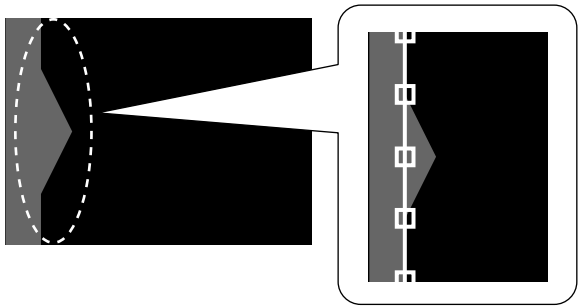
7. Adjust the brightness and tone of the areas that do not overlap to match the areas that overlap using the displayed adjustment sliders.

8. Repeat the previous two steps as needed until all areas match.
9. If the tone of some areas do not match, you can adjust them using the **Area Correction** setting. Continue with the next step. Otherwise, press the **Menu** button to exit.
10. Press the **Esc** button to return to the Black Level screen.
11. Select the **Area Correction** setting and press **Enter**.
12. Select the **Start Adjustments** setting and press **Enter**.

You see a screen with boundary lines indicating areas that are overlapping. The boundary lines are based on the **Top Edge**, **Bottom Edge**, **Right Edge**, and **Left Edge** settings you selected for the **Edge Blending** setting.

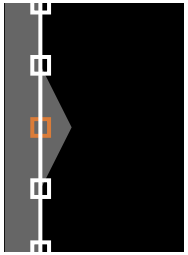
13. Use the arrow buttons to select a boundary line and press **Enter**.

    You see a screen like this displaying the points you can use to set the adjustment range:

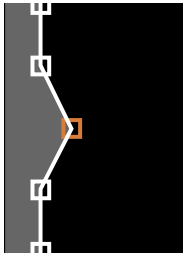


14. Use the arrow buttons to adjust the boundary line position and press the **Enter** button.
15. Use the arrow buttons to select an adjustment point and press the **Enter** button.

    The selected point turns orange.



16. Use the arrow buttons to move the point.



17. To move another point, press the **Esc** button and repeat the previous two steps.
18. To move another boundary line, press the **Esc** button repeatedly until you can select a boundary line.
19. When you are finished, press the **Menu** button.

**Note:** Changing the **Top Edge**, **Bottom Edge**, **Right Edge**, or **Left Edge** settings resets the **Black Level** setting to its default value.

**Parent topic:** Using Multiple Projectors

**Related references**

Projector Setup Settings - Extended Menu

## Matching Tint and Brightness (Screen Matching)

You can adjust the tint and brightness of multiple projectors so they match better. You can also schedule automatic adjustments to the tint and brightness.

**Note:** Wait 20 minutes after turning on the projector before using the Screen Matching feature and darken the room for maximum accuracy. Brightness decreases over time, so you may need to perform Screen Matching again to correct large differences in brightness.

Matching the Screens Automatically
Matching the Screens Manually

**Parent topic:** Using Multiple Projectors

**Related tasks**

Saving a Scheduled Event

## Matching the Screens Automatically

You can automatically correct the brightness and tint for multiple projectors based on the brightness and tint settings you selected for the master projector.

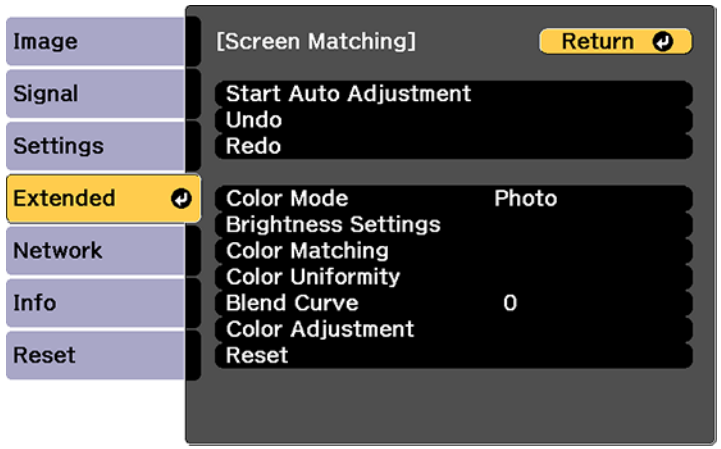
Before you start, make sure of the following:

- Select **Multi-Projection** for the **Color Mode** setting and adjust the **Brightness**, **Contrast**, **Color Saturation**, **Tint**, **White Balance**, and **Advanced** settings in the Image menu, as necessary, on the master projector.
- You are projecting on a matte white diffusion screen that is flat and even.
- The projected image is between 80 to 200 inches (203 to 508 cm) and is rectangular after tiling.
- All the projectors are connected to a network and the **Location Setup** setting has been configured.
- Nothing is blocking the built-in camera on the front of each projector.

**Note:** Auto adjustment is not available for the following lenses: ELPLX02, ELPLR04, ELPLL08, or ELPLL07. After auto adjustment, the movement range for lens shift is reduced.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Screen Matching** setting and press **Enter**.

5. Select **Start Auto Adjustment** press **Enter**.




When adjustment starts, you see an adjustment pattern. Adjustment is complete when you see a displayed image.

After automatic adjustment, the **Color Uniformity** and **Color Matching** settings are returned to their default values.

**Parent topic:** Matching Tint and Brightness (Screen Matching)

**Related concepts**

Color Mode

**Related references**

Image Quality Settings - Image Menu

Projector Parts - Front/Top

**Related tasks**

Configuring Tiling Automatically

Multiple Projector Adjustment Overview

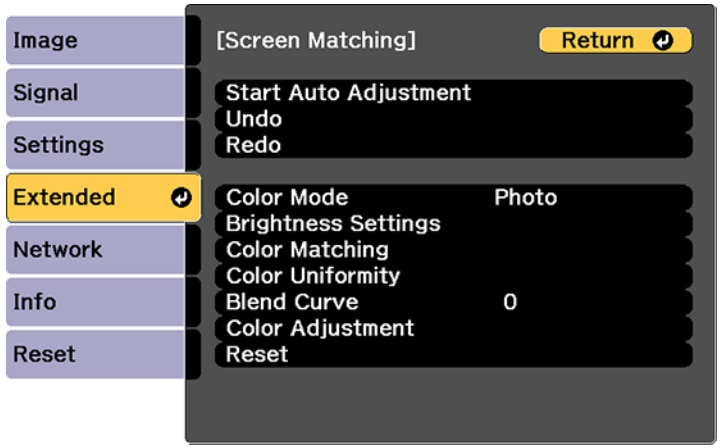
### Matching the Screens Manually

You can manually correct the brightness and tint for multiple projectors.

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

3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Screen Matching** setting and press **Enter**.

   You see this screen:




5. Select the **Color Matching** setting and press **Enter**.

   You see this screen:

6. Press the left or right arrow buttons to select a value for the **Adjustment Level** setting.

   **Note:** There are eight adjustment levels ranging from white to black and you can adjust each level individually.

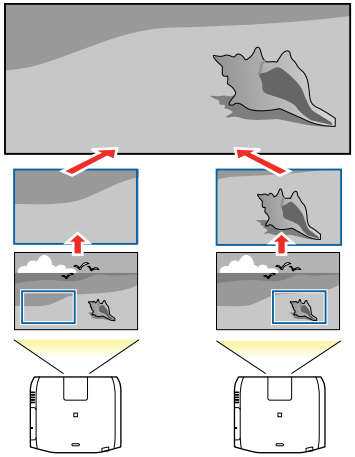
7. Press the left or right arrow buttons to adjust the color tone for the **Red**, **Green**, and **Blue** settings.
8. Press the left or right arrow buttons to adjust the **Brightness** setting.

9. Repeat the previous three steps as necessary to adjust each adjustment level.

**Parent topic:** Matching Tint and Brightness (Screen Matching)

## Scaling an Image

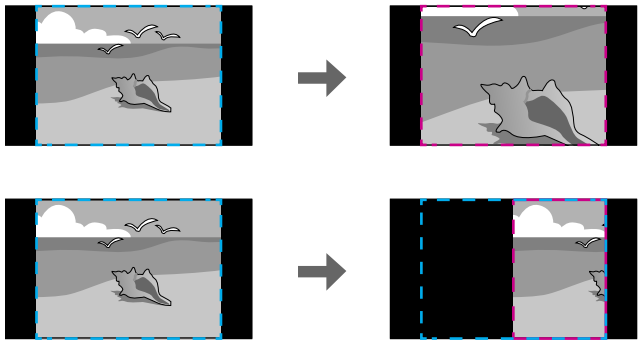
You can project the same image from multiple projectors and use the Scale feature to crop and combine them into one large image.



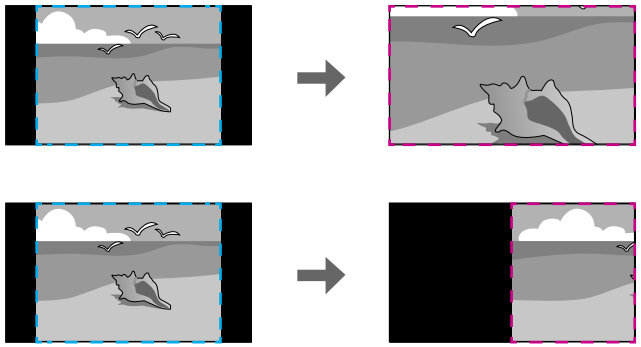
1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Scale** setting and press **Enter**.

You see this screen:

5. Select one of the following as the **Scale** setting:
   - **Auto** to automatically adjust the clipped areas according to the **Edge Blending** and **Tiling** settings you selected
   - **Manual** to adjust the clipped areas manually
6. Select the **Scale Mode** setting and select one of these options:
   - **Zoom Display** to maintain the image aspect ratio as you scale the image



- **Full Display** to adjust the image to the projector's screen size as you scale the image



7. If you selected **Auto** as the Scale setting, you can skip the remaining steps. If you selected **Manual**, adjust each of the following options as necessary:
   - **–** or **+** to scale the image horizontally and vertically at the same time
   - **Scale Vertically** to scale the image vertically only
   - **Scale Horizontally** to scale the image horizontally only
8. Select the **Clip Adjustment** setting and use the arrow buttons to adjust the coordinates and size of each image as you view the screen.

**Parent topic:** Using Multiple Projectors

## Enabling Protocol Emulation

You can use protocol emulation to control your projector with the same RS-232 control codes as those used by the manufacturers of other projectors. This lets you control a group of projectors from a common controller.

1. Make sure the projector is turned on.
2. Connect a controller to the RS-232C port on the projector.
3. Do one of the following:
   - Press and hold the **Test Pattern** button on the remote control for at least five seconds.
   - Select the **Extended** menu, highlight the **Standby Mode** setting, and hold down the right arrow button on the remote control or projector control panel for at least five seconds.

   You see the Protocol Emulation screen.

4. Select one of the following and press **Enter**:
   - **Type P** for Panasonic projectors
   - **Type M** for Mitsubishi projectors
   - **Type N** for NEC projectors
   - **Type S** for Sony projectors
5. Turn the projector off and on again to enable the protocol emulation you selected.

**Parent topic:** Adjusting Projector Features

## Viewing 3D Images

You can use two projectors to project and view passive 3D images (Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL).

The following optional items are required:

- Polarizer
- Passive 3D glasses
- A mount to stack the projectors

See the instructions supplied with the optional equipment for setup and use.

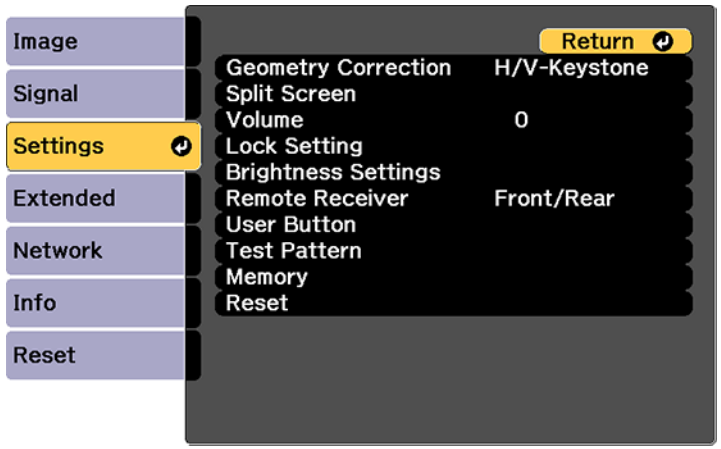
**Parent topic:** Adjusting Projector Features

## Saving Settings to Memory and Using Saved Settings

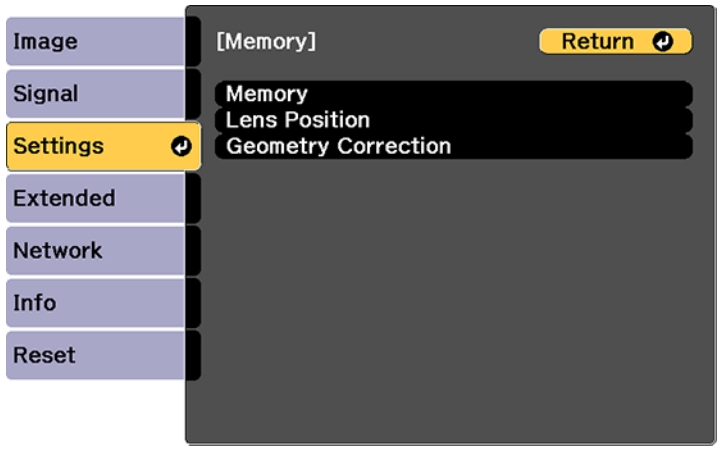
You can save customized settings and then select the saved settings whenever you want to use them.

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

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




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



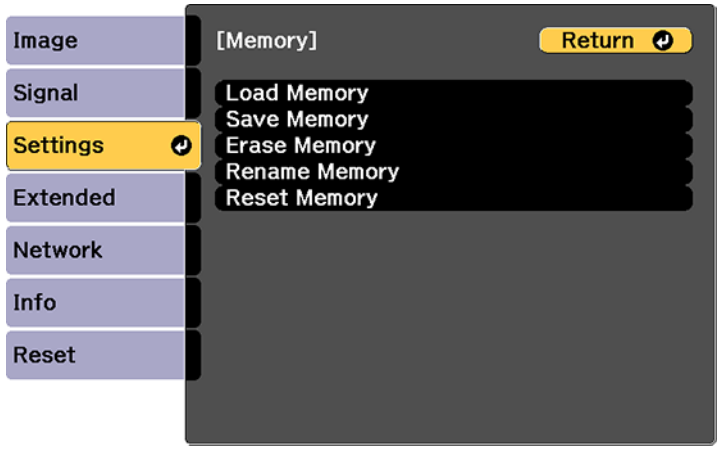

**Note:** You can also access this screen by pressing the **Memory** button on the remote control.

5. Select one of the following options:
   - **Memory**: Saves or loads various settings; you can save up to 10 different memories

**Note:** The following settings are saved: all settings from the Image menu, the **Scale** setting from the Signal menu, and the **Edge Blending**, **Black Level**, and **Color Matching** settings from the Extended menu.

- **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 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

## Saving a Scheduled Event

You can select projector commands you want to perform and schedule them as an event.

You cannot schedule an event to occur at the following times:

- Five minutes before or after a Color Calibration event
- Five minutes before or 30 minutes after a Screen Matching event

**Note:** Light Source Calibration events do not start if the projector is used continuously for more than 24 hours, or regularly turned off by shutting off the power outlet. Set **Light Source Calibration** events to occur only after 100 hours of projector usage.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Schedule Settings** setting and press **Enter**.
4. Select the **Schedule** menu and press **Enter**.
5. Select **Add New** and press **Enter**.
6. In the Event Settings section, select the events you want to have occur. (Select **No Change** for events that you do not want to occur.)
7. In the Date/Time Settings section, set the date and time for the scheduled events to occur.
8. When you are finished, select **Save** and press **Enter**.
9. To schedule more events, repeat the previous steps as necessary.
10. Select **Setup complete** and select **Yes** to save your changes.

Viewing Scheduled Events
Editing a Scheduled Event

**Parent topic:** Adjusting Projector Features

## Viewing Scheduled Events

You can view any currently scheduled events.

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

   You see a screen like this:

   The colored boxes in the calendar indicate the following about the scheduled events:

   - One-time event
   - Recurring event
   - Communication is on/off
   - Event is invalid

**Parent topic:** Saving a Scheduled Event

## Editing a Scheduled Event

You can edit any currently scheduled event.

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

You see a screen like this:

4. Press the left or right arrow buttons to highlight the date on the calendar containing the scheduled event you want to edit.
5. Press the up or down arrow buttons to highlight the event you want to edit, and press **Esc**.
6. Select one of the following:
   - **On/Disabled** to enable or disable the selected event.
   - **Edit** to edit the settings for the selected event.
   - **Clear** to delete the selected event.
   - **Add New** to add a new scheduled event.
7. When you are finished, select **Return** and press **Enter**.
8. Select **Setup complete** and select **Yes** to save your changes.

   **Note:** To delete all scheduled events, select **Schedule Reset** and select **Yes**.

**Parent topic:** Saving a Scheduled Event

## Copying Menu Settings Between Projectors

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

**Note:** Copy the projector's settings before you adjust the projected image using the projector's Geometry Correction settings. Any saved User's Logo setting on the projector will transfer to the other projector.

**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:

- Info menu items
- Network menu settings other than those in the Notifications and Others menus

**Note:** In addition to the methods covered in this section, you can also copy and transfer settings to multiple projectors over a network using the EasyMP Network Updater software. See the online *EasyMP Network Updater Operation Guide* for instructions. You can download the latest software and documentation from the Epson website.

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 Information Display - Info Menu
Projector Network Settings - Network Menu
Additional Projector Software and Manuals

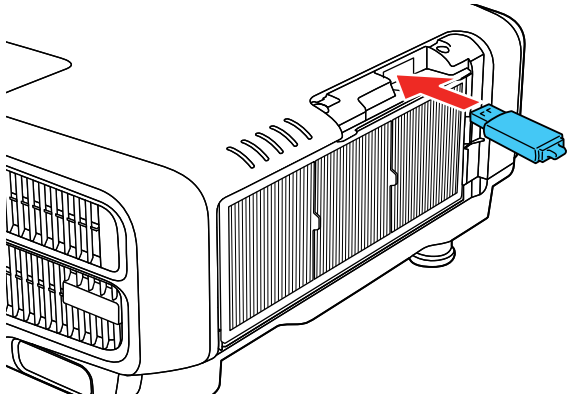
## Saving Settings to a USB Flash Drive

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 format and cannot have any security features.

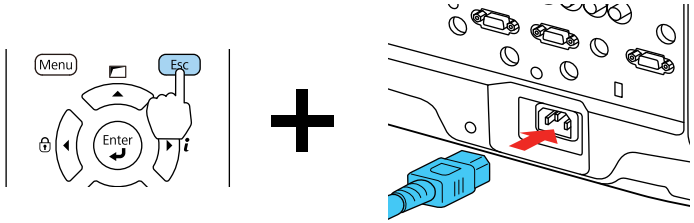
1. Turn off the projector and unplug the power cord from the projector's power inlet.

2. Insert the flash drive into the wireless LAN module 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 the On/Standby and Status lights are blue, and the Laser and Temp lights are orange, release the **Esc** button.

   The lights flash to indicate that settings are transferring to the flash drive. When the lights stop flashing, the On/Standby light turns blue and the projector enters standby mode.

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

5. Once the projector enters standby mode, remove the flash drive.

**Parent topic:** Copying Menu Settings Between Projectors

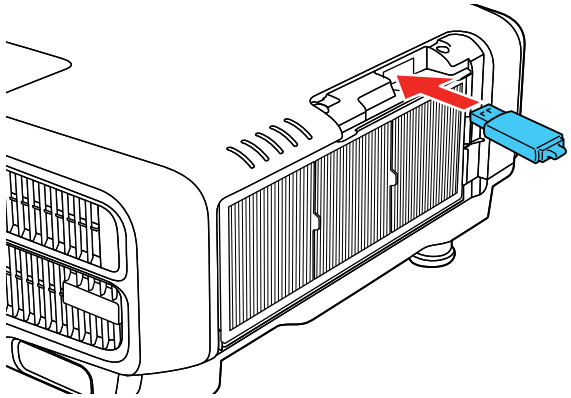
## Transferring Settings from a USB Flash Drive

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.

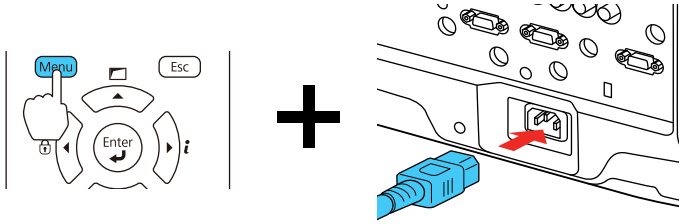
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

1. Turn off the projector and unplug the power cord from the projector's power inlet.
2. Insert the flash drive into the wireless LAN module 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 the On/Standby and Status lights are blue, and the Laser and Temp lights are orange, release the **Menu** button.

   The lights flash to indicate that settings are transferring to the projector. When the lights stop flashing, the On/Standby light turns blue and the projector enters standby mode.

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

5. Once the projector enters standby mode, remove the flash drive.

**Parent topic:** Copying Menu Settings Between Projectors

## Saving Settings to a Computer

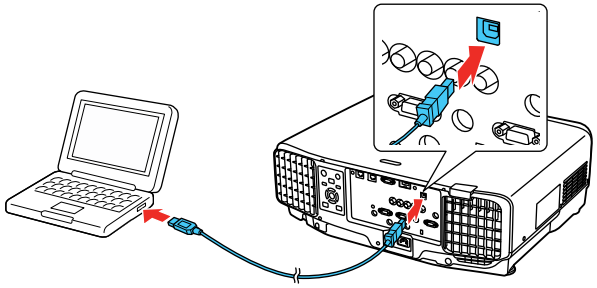
You can save the projector settings you want to transfer to a computer.

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

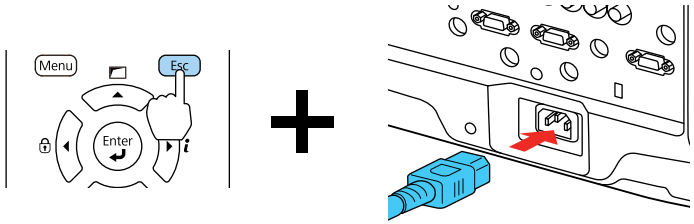
- Windows Vista
- Windows 7
- Windows 8.x
- Windows 10
- OS X 10.7.x
- OS X 10.8.x
- OS X 10.9.x
- OS X 10.10.x

- OS X 10.11.x
- macOS 10.12.x
- macOS 10.13.x
- macOS 10.14.x

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 the On/Standby and Status lights are blue, and the Laser and Temp lights are orange, 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 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 enters standby mode.

**Parent topic:** Copying Menu Settings Between Projectors

## Transferring Settings from a Computer

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

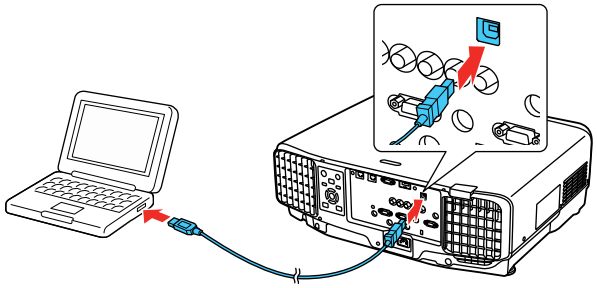
Your computer must be running one of the following operating systems:

- Windows Vista
- Windows 7
- Windows 8.x
- Windows 10
- OS X 10.7.x
- OS X 10.8.x
- OS X 10.9.x
- OS X 10.10.x
- OS X 10.11.x
- macOS 10.12.x
- macOS 10.13.x
- macOS 10.14.x

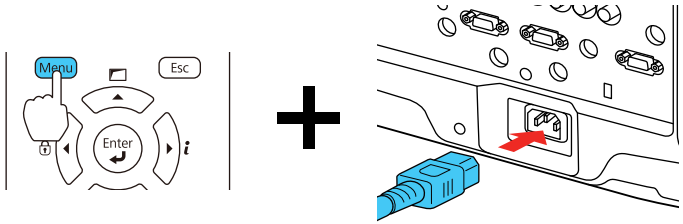
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

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 **Menu** button on the control panel or remote control as you connect the power cord to the projector's power inlet.




5. When the On/Standby and Status lights are blue, and the Laser and Temp lights are orange, 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 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.

All the lights start flashing to indicate that the projector's settings are being updated. When the lights stop flashing, the On/Standby light turns blue and the projector enters standby mode.

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

**Parent topic:** Copying Menu Settings Between Projectors

# Adjusting the Menu Settings

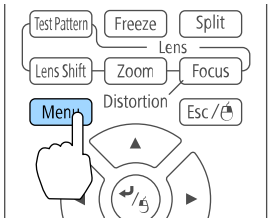
Follow the instructions in these sections to access the projector menu system and change projector settings.


Using the Projector's Menus
Image Quality Settings - Image Menu
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu
Projector Setup Settings - Extended Menu
Projector Network Settings - Network Menu
Projector Information Display - Info Menu
Projector Reset Options - Reset Menu

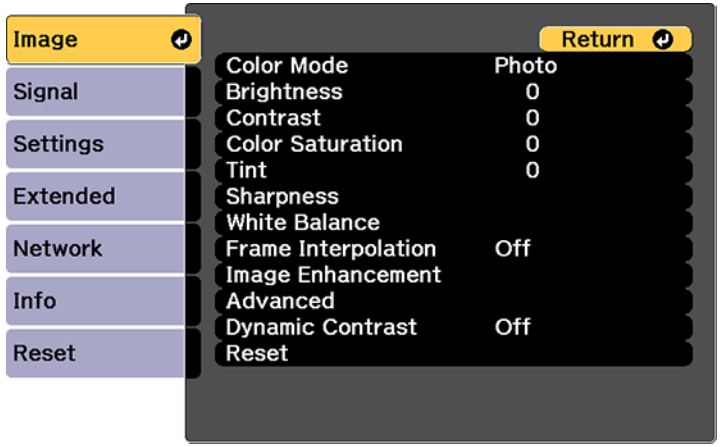

## Using the Projector's Menus

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.

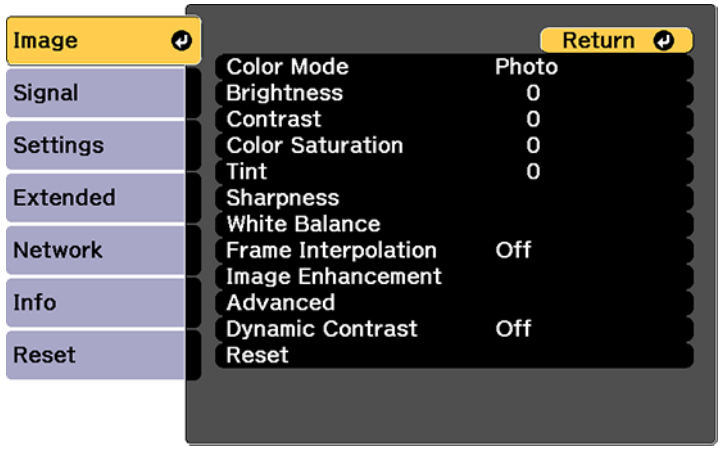
   **Note:** The available settings depend on the current input source, resolution, or other menu settings.

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 **Reset**.
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

# Image Quality Settings - Image Menu

Settings on the Image menu let you adjust the quality of your image for the input source you are currently using. The available settings depend on the currently selected input source.




To change settings for an input source, make sure the source is connected and select that source.

| Setting | Options | Description |
|---|---|---|
| **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 |
| **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 |

| Setting | Options | Description |
|---|---|---|
| **Sharpness** | **Standard**<br>**Thin Line Enhancement**<br>**Thick Line Enhancement** | Adjusts the sharpness of image details<br>**Standard**: adjusts the overall image sharpness<br>**Thin Line Enhancement**: enhances fine details such as hair and fabric patterns<br>**Thick Line Enhancement**: enhances the outline, background, and main parts of an image to make them more clear |
| **White Balance** | **Color Temp.**<br>**G-M Correction**<br>**Offset R/G/B**<br>**Gain R/G/B** | Adjusts the overall tint of the image<br>**Color Temp.**: sets the color tone based on color temperature<br>**G-M Correction**: higher values tint the image blue and lower values tint the image red<br>**Offset R/G/B** and **Gain R/G/B**: lets you adjust the offset and gain of each color R (red), G (green), and B (blue) individually |
| **Frame Interpolation** | **Off**<br>**Low**<br>**Normal**<br>**High** | Smooths fast moving video by comparing consecutive frames and inserting an intermediate frame between them |

| Setting | Options | Description |
|---|---|---|
| **Image Enhancement** | **4K Enhancement** | Accepts 4K signals and enhances the output of 1080p signals |
| | **Image Preset Mode** | Selects the image enhancement settings saved in advance |
| | **Noise Reduction** | Reduces flickering in analog images |
| | **MPEG Noise Reduction** | Reduces the noise or artifacts seen in MPEG video |
| | **Super resolution** | Sharpens blurred images resulting from increasing resolution |
| | **Detail enhancement** | Enhances details to create clear outlines<br>**Range**: higher settings increase the affected area around the outline<br>**Strength**: higher settings create a stronger effect |
| **Advanced** | **Gamma** | Adjusts the gamma levels of the image. Select **Customized** to adjust the gamma while viewing the image or a graph. |
| | **RGBCMY** | Adjusts the hue, saturation, and brightness for each color |
| | **Deinterlacing** | Sets whether to convert interlaced-to-progressive signals for certain video image types<br>**Off**: for fast-moving video images<br>**Video**: for most video images<br>**Film/Auto**: for movies, computer graphics, and animation |

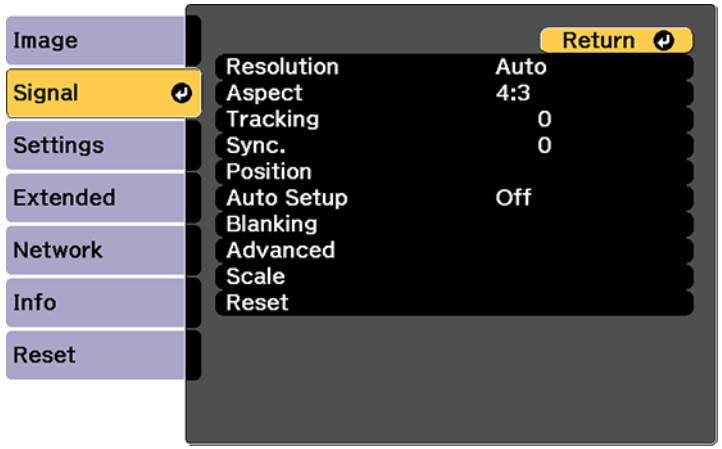
| Setting | Options | Description |
|---|---|---|
| **Dynamic Contrast** | **Off**<br>**Normal**<br>**High Speed** | Adjusts the luminance of the image to improve contrast by tracking changes in image brightness<br>**Normal**: for standard brightness adjustment<br>**High Speed**: to adjust brightness as soon as the scene changes |

**Note:** The **Brightness** setting does not affect laser brightness. To change the laser brightness, use the **Brightness Settings** in the Settings menu.

**Parent topic:** Adjusting the Menu Settings

## Input Signal Settings - Signal Menu

Normally 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.




**Note:** You can restore the default settings of the **Position**, **Tracking**, and **Sync** settings by pressing the **Auto** button on the remote control.

To change settings for an input source, make sure the source is connected and select that source.

| Setting | Options | Description |
|---|---|---|
| **Resolution** | **Auto**<br>**Normal**<br>**Wide**<br>**Manual** | Sets the input signal resolution from an analog RGB computer connection<br>**Auto**: detects the resolution automatically<br>**Normal**: for 4:3 or 5:4 screens<br>**Wide**: for widescreen<br>**Manual**: allows you to specify a resolution |
| **Aspect** | See the list of available aspect ratios | Sets the aspect ratio (width-to-height ratio) for the selected input source |
| **Tracking** | Varying levels available | Adjusts signal to eliminate vertical stripes in images from an analog RGB computer connection |
| **Sync.** | Varying levels available | Adjusts signal to eliminate fuzziness or flickering in images from an analog RGB computer connection |
| **Position** | Up, down, left, right | Adjusts the image location on the screen |
| **Auto Setup** | **On**<br>**Off** | Automatically optimizes image quality from an analog RGB computer connection (when On) |
| **Blanking** | Up, down, left, right | Hides an area of the projected image that you select using the arrow buttons |

| Setting | Options | Description |
|---|---|---|
| **Advanced** | **Video Range** | Sets the video range to match the setting of the device connected to the **HDMI**, **DVI-D**, **HDBaseT**, or **SDI** (not available for Pro L1715SNL) input ports |
| | **Input Signal** | Specifies the signal type from input sources connected to computer ports<br>**Auto**: detects signals automatically<br>**RGB**: corrects color for computer/RGB video inputs<br>**Component**: corrects color for component video inputs |
| | **Image Processing** | Adjusts how images are processed<br>**Fast**: to display images quicker<br>**Fine**: to display images in higher quality |
| | **EDID** | Describes the projector's display capabilities to devices connected to the **HDMI**, **HDBaseT**, **DVI-D** input ports |
| | **DDC Buffer** | If you are projecting using an HDMI or DVI extension cable and the image is not displayed correctly, enabling this setting may improve image quality |
| **Scale** | Various scale options | When using multiple projectors to project one image, adjusts the scale of the image displayed by each projector |

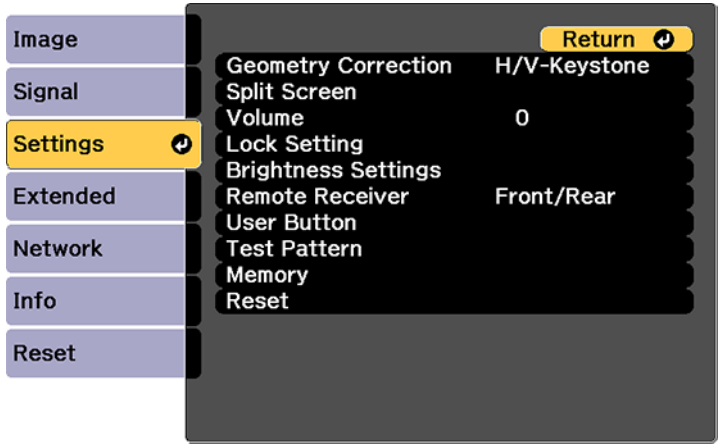
**Parent topic:** Adjusting the Menu Settings

**Related references**

Available Image Aspect Ratios

## Projector Feature Settings - Settings Menu

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



| Setting | Options | Description |
|---|---|---|
| **Geometry Correction** | **H/V-Keystone**<br>**Quick Corner**<br>**Curved Surface**<br>**Corner Wall**<br>**Point Correction**<br>**Memory** | Adjusts the projected image shape<br>**H/V Keystone**: lets you manually correct the angles of the horizontal and vertical sides<br>**Quick Corner**: select to adjust the position of the four corners<br>**Curved Surface**: select to adjust the image when projecting on a curved surface<br>**Corner Wall**: select to adjust the image when projecting on a surface with a right angle<br>**Point Correction**: select to display a grid and finely adjust the image position<br>**Memory**: select to save adjustment value of the geometric correction and load it when needed |
| **Split Screen** | — | Divides the viewing area horizontally and displays two images side-by-side; while in Split Screen mode, press **Menu** to display the Split Screen options or **Esc** to cancel split screen display |
| **Volume** | Varying levels available | Adjusts the volume of external speakers connected to the projector |

| Setting | Options | Description |
| --- | --- | --- |
| **Lock Setting** | **Control Panel Lock**<br>**Lens Lock** | Controls projector button locking to secure the projector<br>**Control Panel Lock**:<br>• **Full Lock**: locks all buttons<br>• **Partial Lock**: locks all buttons except the power button<br>• **Off**: no buttons locked<br>**Lens Lock**: locks the focus, zoom, and lens shift settings |

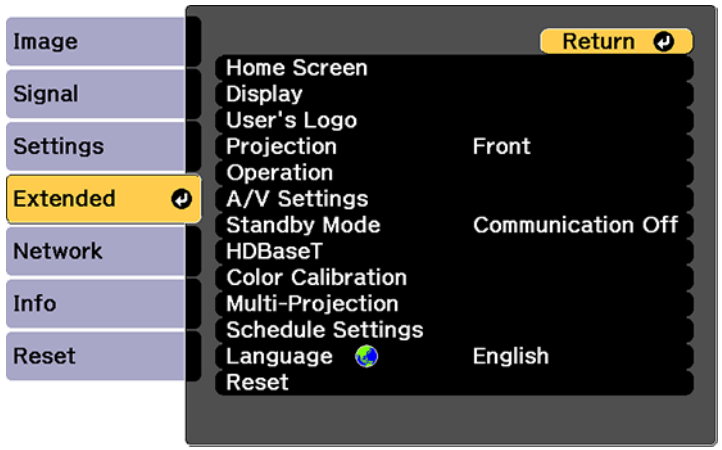
| Setting | Options | Description |
|---|---|---|
| **Brightness Settings** | **Light Source Mode**<br>**Brightness Level**<br>**Constant Brightness**<br>**Estimated Remains** | Selects the brightness mode of the projector<br>**Light Source Mode**: sets the brightness for the light source<br>• **Normal**: maximum brightness<br>• **Quiet**: 70% brightness with reduced fan noise<br>• **Extended**: 70% brightness and extends the life expectancy of the light source<br>• **Custom**: select a custom brightness level and enable use of next three settings<br>**Brightness Level**: select the **Custom** brightness level you want<br>**Constant Brightness**: maintains a constant brightness (if this setting is enabled, you cannot change the **Light Source Mode** and **Brightness Level** settings)<br>**Estimated Remains**: displays how long the projector can maintain constant brightness (if that setting is selected) |
| **Remote Receiver** | **Front/Rear**<br>**Front**<br>**Rear**<br>**Off** | Limits reception of remote control signals by the selected receiver; **Off** turns off all receivers |
| **User Button** | **User1**<br>**User2**<br>**User3** | Assigns a menu option to the **User1**, **User2**, and **User3** buttons on the remote control for one-touch access |

| Setting | Options | Description |
|---|---|---|
| **Test Pattern** | — | Displays a test pattern to assist in adjusting the image; press the left or right arrow buttons on the remote control or **Enter** on the control panel to cycle through the available test patterns, or **Esc** to cancel pattern display |
| **Memory** | **Load Memory**<br>**Save Memory**<br>**Erase Memory**<br>**Rename Memory** | Save customized sets of settings to memory |

**Parent topic:** Adjusting the Menu Settings

## Projector Setup Settings - Extended Menu

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



| Setting | Options | Description |
|---|---|---|
| **Home Screen** | — | Adjust settings on the Home Screen |
| **Display** | — | See the **Display** settings table in this topic |
| **User's Logo** | — | Creates a screen that the projector displays to identify itself and enhance security |
| **Projection** | **Front**<br>**Front/Ceiling**<br>**Rear**<br>**Rear Ceiling** | Selects the way the projector faces the screen so the image is oriented correctly |
| **Operation** | — | See the **Operation** settings table in this topic |
| **A/V Settings** | **A/V Output**<br>**Monitor Out**<br>**Audio Settings** | Selects various audio and video output settings<br>**A/V Output**: select to output audio and video to an external device when the projector is in standby mode (Standby Mode must be turned on to use this setting)<br>**Monitor Out**: select the image source to output to an external device when the projector is in standby mode; when set to **Auto**, selects output from the **Computer** or **BNC** port depending on which was used when the projector went into standby mode<br>**Audio Settings**: selects audio source to output |

| Setting | Options | Description |
|---|---|---|
| **Standby Mode** | **Communication On**<br>**Communication Off** | Enable this setting to allow the following operations to occur when the projector is in standby mode:<br>• Monitor and control the projector over a network<br>• Output audio and video to an external device (A/V Output must be set to **Always On**)<br>• Communication from the **HDBaseT** port (Control Communications must be set to **On**) |
| **HDBaseT** | **Control Communications**<br>**Extron XTP** | Selects the communication settings for connections to an HDBaseT transmitter or switcher<br>**Control Communications**: enables or disables communication from the Ethernet and serial ports on the transmitter; turning on this setting disables the projector's **LAN**, **RS-232C**, and **Remote** ports (**Extron XTP** must be turned off to use this setting)<br>**Extron XTP**: set to **On** when you connect an Extron XTP transmitter or switcher to the HDBaseT ports |

| Setting | Options | Description |
| --- | --- | --- |
| **Color Calibration** | **Start Auto Adjustment**<br>**Undo**<br>**Redo**<br>**Color Uniformity** | Automatically detects color deterioration and adjusts the color tone<br>**Start Auto Adjustment**: automatically adjusts the color tone for the whole image<br>**Undo** and **Redo**: undoes or redoes the auto adjustment<br>**Color Uniformity**: adjusts the color tone balance for the whole image |

| Setting | Options | Description |
|---|---|---|
| **Multi-Projection** | **Projector ID**<br>**Projector Grouping**<br>**Tiling**<br>**Geometry Correction**<br>**Edge Blending**<br>**Black Level**<br>**Scale**<br>**Screen Matching** | Select various options when projecting from multiple projectors<br>**Projector ID**: sets the projector to a particular ID number which allows you to use a remote control to individually control projectors<br>**Projector Grouping**: lets you select the projectors being used to project one image<br>**Tiling**: sets the number of split screens and the position of each image<br>**Geometry Correction**: corrects image distortion<br>**Edge Blending**: blends the border between multiple images to create a seamless screen<br>**Black Level**: adjusts the brightness and tone differences in overlapping images<br>**Scale**: adjusts the scale of the images<br>**Screen Matching**: adjusts the tint and brightness of the images |
| **Schedule Settings** | Various scheduling options | Lets you schedule various projector tasks |
| **Language** | Various languages available | Selects the language for projector menu and message displays (not changed by **Reset** option) |

**Display** settings

| Setting | Description |
|---|---|
| **Menu Position** | Selects the position of the projector menu displayed on the screen |
| **Message Position** | Selects the position of messages displayed on the screen |
| **Messages** | Controls whether messages are displayed on the screen |
| **Display Background** | Selects the screen color or logo to display when no signal is received |
| **Startup Screen** | Controls whether a special screen appears when the projector starts up |
| **Standby Confirmation** | Displays a confirmation message after pressing the **Standby** button on the remote control |
| **Air Filter Notice** | Displays a message when a clog in the air filter is detected |
| **Screen** | Sets the aspect ratio and position of the projected image according to the type of screen being used |
| **Panel Alignment** | Corrects color misalignment in the projected image |
| **Color Uniformity** | Adjusts the color tone balance |
| **OSD Rotation** | Rotates the menu display 90° |

**Operation** settings

| Setting | Description |
|---|---|
| **Direct Power On** | Turns on the projector when you plug it in |
| **Sleep Mode** | Automatically places the projector in standby mode after an interval of inactivity |
| **Sleep Mode Timer** | Sets the time before the projector automatically turns off (Sleep Mode must be turned on) |
| **High Altitude Mode** | Regulates the projector's operating temperature at altitudes above 4921 feet (1500 m) |
| **Auto Source Search** | Automatically select an input source |
| **Auto Power On** | If **Computer** or **BNC** is selected, the projector turns on when an input signal is detected from those ports |

| Setting | Description |
| --- | --- |
| **A/V Mute Settings** | Adjusts the A/V Mute settings<br>**Fade-in**: sets the number of seconds for a fade-in transition effect when displaying an image<br>**Fade-out**: sets the number of seconds for a fade-out transition effect when hiding an image<br>**A/V Mute Timer**: turns off the projector automatically if A/V Mute is enabled and 2 hours of inactivity has passed<br>**A/V Mute Release**: select **A/V Mute** if you want to use only the **A/V Mute** button to turn off A/V mute, or select **Any Button** to use any button to turn it off |
| **Advanced** | See the next table in this topic |
| **Date & Time** | Adjusts the projector's time and date settings |
| **Lens Calibration** | Displays information about the lens currently in use |

**Advanced** settings

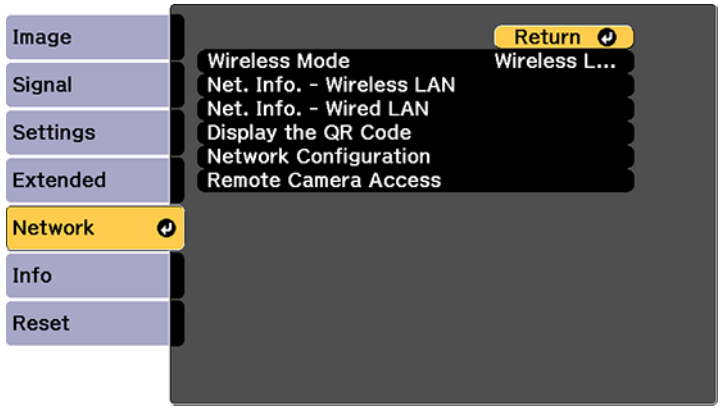
| Setting | Description |
| --- | --- |
| **BNC Sync Termination** | Sets the termination for the signal from the BNC port (set to off unless you need analog termination, such as for switchers) |
| **Remote Control Type** | Select **Normal** to use the remote control that came with the projector, or **Simple** to use a different Epson projector remote control and disable the remote control that came with the projector |
| **Beep** | Controls the beep that sounds when you turn the projector on or off |
| **Indicators** | Select **Off** to turn off projector lights, except warning lights |
| **Instant Off** | Select **Enabled** to place the projector in standby mode after turning it off, or **Disabled** to place the projector in standby mode approximately 75 seconds after turning it off |
| **Inv Direction Button** | Enable this setting if you installed the projector on a ceiling and want to invert the direction of the arrow buttons on the control panel |

| Setting | Description |
|---|---|
| **AC Voltage Monitoring** | If you select On for this setting and the projector is turned off by any method other than pressing the power button, a power supply voltage warning message is displayed the next time the projector is turned on |
| **Lens Type** | Select the model number for the attached lens when using the following lenses: ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, ELPLL07 |

**Parent topic:** Adjusting the Menu Settings

## Projector Network Settings - Network Menu

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



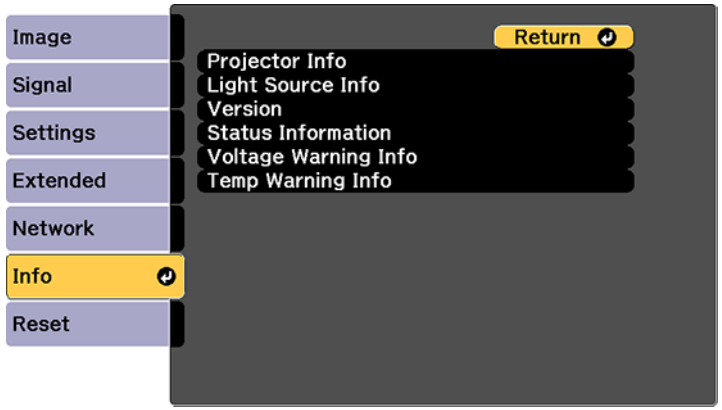

| Setting | Options | Description |
|---|---|---|
| **Wireless Mode** | **Wireless LAN On**<br>**Off** | Enable or disable wireless communication |

| Setting | Options | Description |
|---|---|---|
| **Net. Info - Wireless LAN** | **Connection mode**<br>**Wireless LAN Sys.**<br>**Antenna level**<br>**Projector Name**<br>**SSID**<br>**DHCP**<br>**IP Address**<br>**Subnet Mask**<br>**Gateway Address**<br>**MAC Address**<br>**Region Code**<br>**IPv6 Address (Manual)**<br>**IPv6 Address (Auto)** | Displays wireless network status and details |
| **Net. Info - Wired LAN** | **Projector Name**<br>**DHCP**<br>**IP Address**<br>**Subnet Mask**<br>**Gateway Address**<br>**MAC Address**<br>**IPv6 Address (Manual)**<br>**IPv6 Address (Auto)** | Displays wired network status and details |
| **Display the QR Code** | — | Displays the QR Code |
| **Network Configuration** | Accesses additional network menus | Configures your network settings |
| **Remote Camera Access** | — | Configures remote camera access settings |

**Parent topic:** Adjusting the Menu Settings

# Projector Information Display - 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.




**Note:** The total operating timer does not register any hours until you have used the projector for at least 10 hours. Available settings depend on the current input source.

| Setting | Options | Description |
|---|---|---|
| **Projector Info** | **Total Op. Time** | Displays the number of hours the projector has been used in its operating life |
| | **Operation Hours** | Displays the number of hours the projector has been used since it was turned on |
| | **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 that may be needed by a service technician |
| | **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 specific projector problem; see the list of Event ID codes |
| | **HDBaseT Signal Level** | Displays the image signal information from the HDBaseT port |

| Setting | Options | Description |
|---|---|---|
| **Light Source Info** | **Light Source Hours** | Displays the number of operating hours for each of the projector's **Light Source Mode** settings |
| | **Estimated Remains** | If the **Constant Brightness** setting is enabled, displays the remaining number of hours the projector can maintain constant brightness |
| **Version** | **Main**<br>**Video2** | Displays the projector's firmware information |
| **Status Information** | — | Displays basic status information |
| **Voltage Warning Info** | — | Displays a power voltage warning |
| **Temp Warning Info** | — | Displays various high temperature warnings |

Event ID Code List

**Parent topic:** Adjusting the Menu Settings

## 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.

| Event ID code | Cause and solution |
|---|---|
| 0432 | Turn the projector off and then on again. |
| 0435 | |
| 0434 | Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again. |
| 0481 | |
| 0482 | |
| 0485 | |
| 0433 | Cannot display the transferred images. Restart the network software. |
| 0484 | Communication with computer was disconnected. Restart the network software. |

| Event ID code | Cause and solution |
|---|---|
| 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 | |
| 0891 | Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID. |
| 0892 | The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct. |
| 0893 | The TKIP/AES encryption type does not match. Make sure the wireless network security settings are correct. |
| 0894 | Communication with unauthorized access point was disconnected. Contact your network administrator. |
| 0898 | Failed to acquire DHCP. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the **DHCP** setting in the Network menus. |
| 0899 | Communication error. Turn the projector off and then on again. |
| 089A | The projector's EAP authentication type does not match the network. Check the wireless LAN security settings and make sure that the security certificate is installed correctly. |
| 089B | EAP server authentication failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly. |
| 089C | EAP client authentication failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly. |
| 089D | Key exchange failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly. |
| 0920 | The internal power supply that saves your clock settings is running low. Contact Epson for help. |

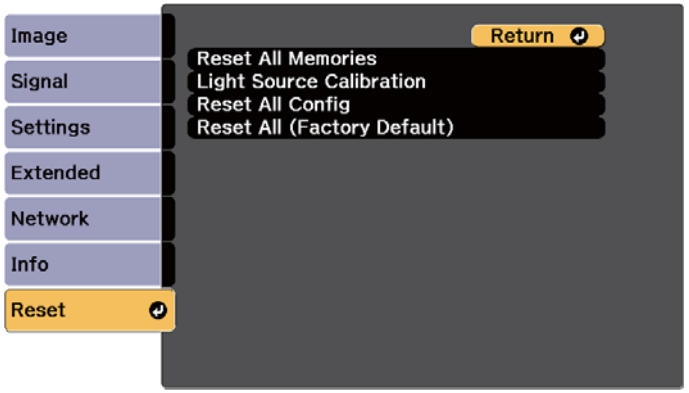
**Parent topic:** Projector Information Display - Info Menu

# Projector Reset Options - Reset Menu

You can reset most of the projector settings to their default values using the **Reset All Config** option on the Reset menu.

You can also reset the saved names and settings in the Save Memory list using the **Reset All Memories** option.

To reset all settings to the factory default (except for Password Protection), select the **Reset All (Factory Default)** option. You will need to enter a password to reset the projector. The default password is 0000, which you should change to your own password.




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

- Input Signal
- User's Logo
- Language
- Network menu items
- Date & Time
- Panel Alignment
- Color Uniformity
- Memory
- Color Matching
- Lens Calibration

- Color Calibration
- Projector Grouping
- Screen Matching
- EDID
- Light Source Info
- Operation Hours

**Parent topic:** Adjusting the Menu Settings

**Related tasks**

Running Light Source Calibration

# Maintaining and Transporting the Projector

Follow the instructions in these sections to maintain your projector and transport it from place to place.

Projector Maintenance
Transporting the Projector

## Projector Maintenance

Your projector needs little maintenance to keep working at its best.

You may need to clean the lens periodically, and clean the air filter and air vents to prevent the projector from overheating due to blocked ventilation.

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

This projector uses a sealed laser light source which does not need servicing and cannot be replaced.

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

**Warning:** Do not try to service this product yourself, except as specifically explained in this manual. Refer all other servicing to qualified servicers.

Cleaning the Lens
Cleaning the Projector Case
Air Filter and Vent Maintenance
Replacing the Remote Control Batteries

**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.

- To remove dust or smudges, gently wipe the lens with 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 use glass cleaner or any harsh materials to clean the lens and do not subject the lens to any impacts; you may damage it. Do not use canned air, or the gases may leave a residue. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

**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
Replacing the Air Filter

**Parent topic:** Projector Maintenance

**Related references**

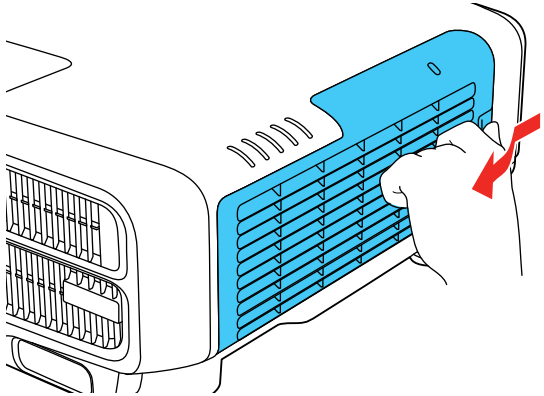
Projector Light Status

## Cleaning the Air Filter

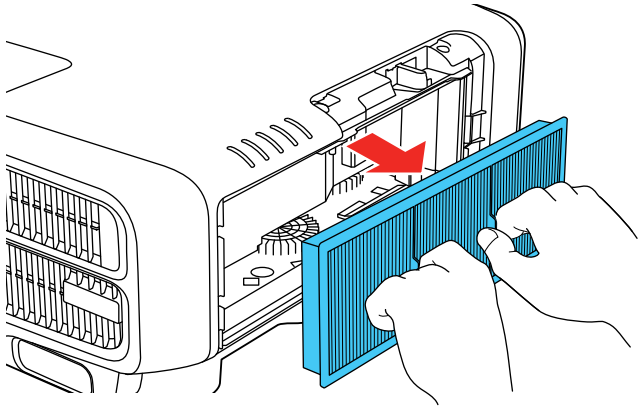
You need to clean the projector's air filter in the following situations:

- The filter or vents get dusty.
- You see a message telling you to clean it.
- The projector's Filter light is orange or flashes orange.

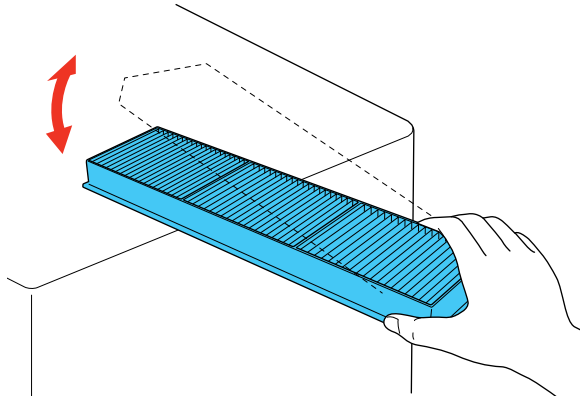
1. Turn off the projector, wait for the projector to beep, and unplug the power cord.
2. Slide the air filter cover latch and open the air filter cover.



3. Pull the air filter out of the projector.

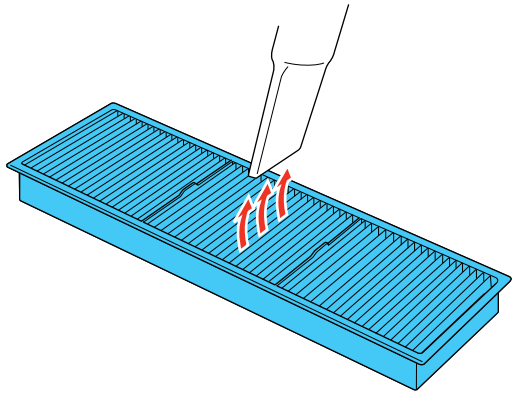


4. Tap each side of the air filter 4 to 5 times to shake off any excess dust.



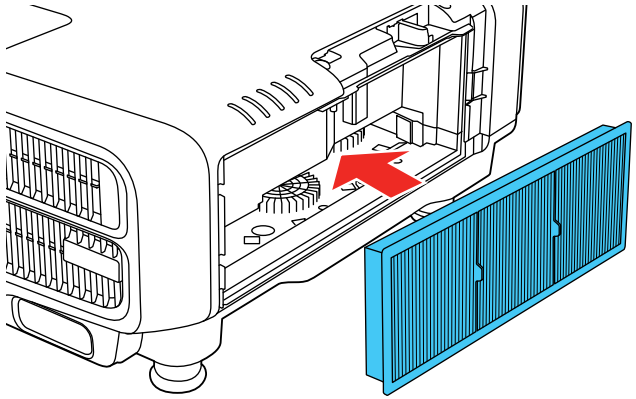
**Caution:** Do not use excessive force when tapping the air filter, or it may crack and become unusable. Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not use canned air; the gases may leave a residue, or push dust and debris into the projector's optics or other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

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

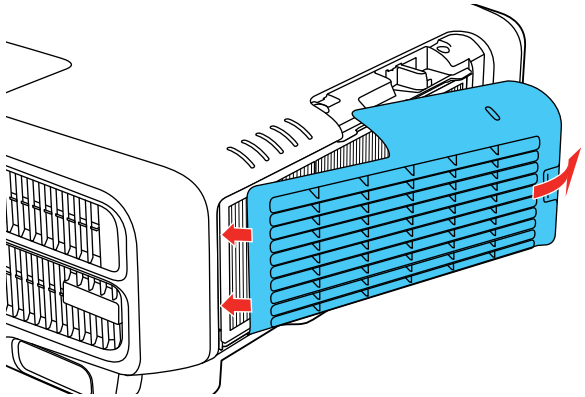


**Note:** If dust is difficult to remove or the air filter is damaged, replace the air filter.

6. Place the air filter back in the projector as shown and push gently until it clicks into place.



7. Attach the air filter cover as shown, and press it gently until it clicks into place.



**Parent topic:** Air Filter and Vent Maintenance

**Related references**

Projector Light Status

## Replacing the Air Filter

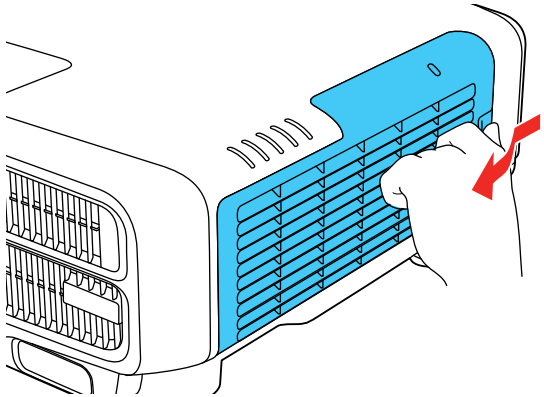
You need to replace the air filter in the following situations:

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

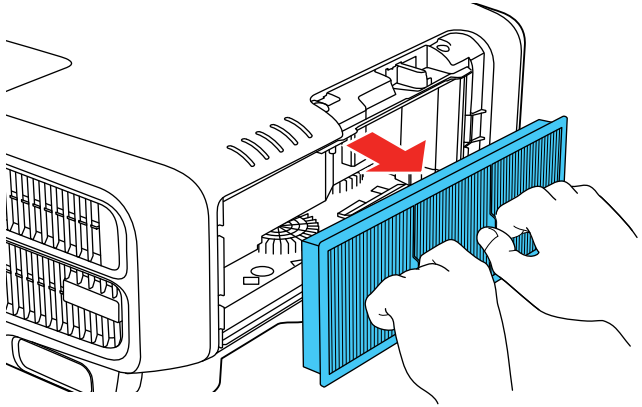
You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

1. Turn off the projector, wait for the projector to beep, and unplug the power cord.

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

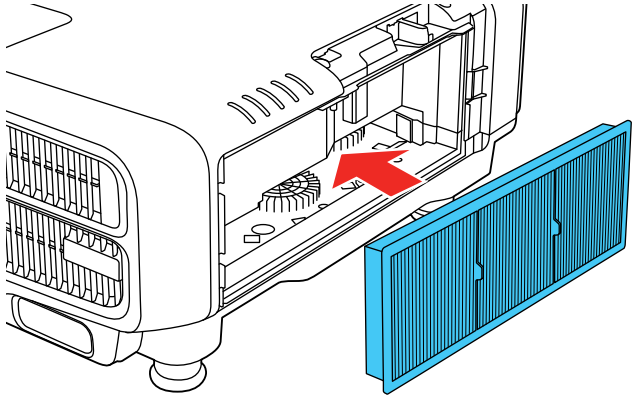


3. Pull the air filter out of the projector.

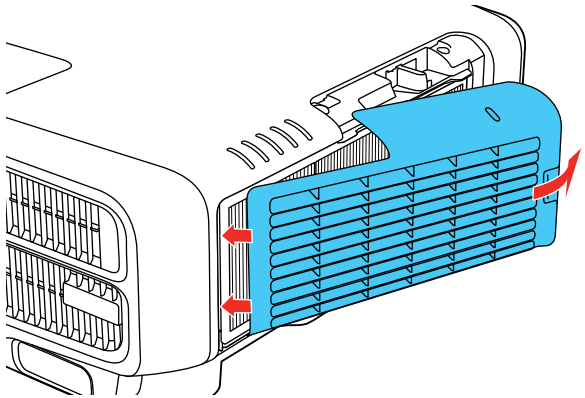


**Note:** Air filters contain polypropylene. Dispose of used air filters according to local regulations.

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



5. Attach the air filter cover as shown, and press it gently until it clicks into place.



**Parent topic:** Air Filter and Vent Maintenance

**Related references**

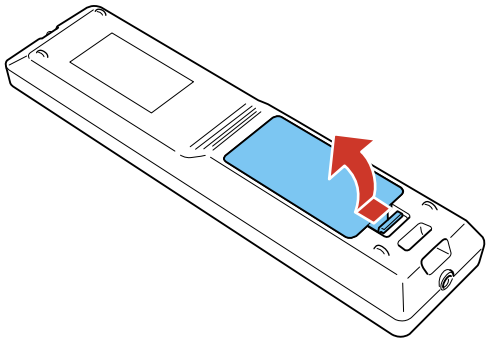
Projector Light Status

## 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.

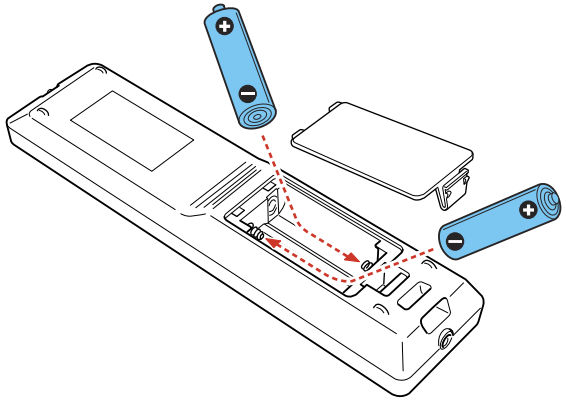
1. Remove the battery cover as shown.



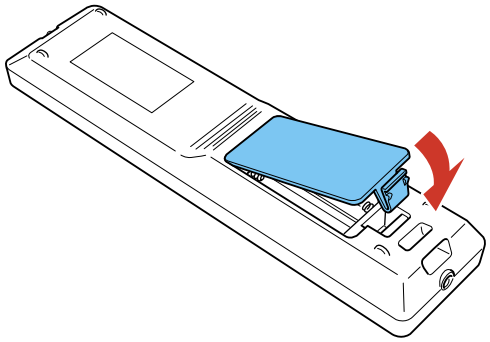
2. Remove the old batteries.

   **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.



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:** Projector Maintenance

# Transporting the Projector

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

**Caution:** Use two or more people to unpack or lift the projector.

1. Remove any equipment connected to the projector.
2. Do one of the following:
   - If you are using the standard zoom lens, keep it installed on the projector. Move the lens to the home position and attach the protective lens pad that was included with the projector.
   - If you are using an optional lens, remove it from the projector.
   - If the projector did not come with a lens, attach the cover that was included with the projector to the lens mount.
3. Do one of the following:
   - 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.

**Parent topic:** Maintaining and Transporting the Projector

**Related tasks**

Adjusting the Image Position Using Lens Shift

**Related topics**

Attaching and Removing a Lens

# Solving Problems

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

Projection Problem Tips
Projector Light Status
Viewing the Status Display
Using the Projector Help Displays
Solving Image or Sound Problems
Solving Projector or Remote Control Operation Problems
Solving Network Problems
Where to Get Help

## 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:

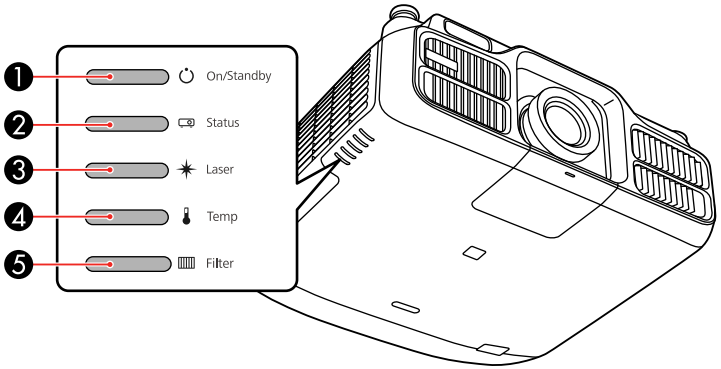
- The lights on the projector may indicate what the problem is.
- The Help option on the Home screen can display information about common problems, if the projector is operating.
- The solutions in this manual can help you solve many problems.

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 On/Standby (power) light

2 Status light

3 Laser light

4 Temp (temperature) light

5 Filter light

| On/Standby (power) light | Status light | Laser light | Temp light | Filter light | Status and solution |
|---|---|---|---|---|---|
| Blue | Blue | Varies | Off | Off | Normal operation |
| Blue | Blue | Flashing blue | Off | Off | A/V Mute is on |
| Blue | Flashing blue | Varies | Off | Off | Warming up; wait for an image to appear |
| Blue | Off | Off | Off | Off | Standby or network monitoring and control (when **Standby Mode** is set to **Communication On**) |
| Flashing blue | Off | Off | Off | Off | Preparing for network monitoring |

| On/Standby (power) light | Status light | Laser light | Temp light | Filter light | Status and solution |
|---|---|---|---|---|---|
| Blue | Flashing blue | Off | Off | Off | Cooling down; all buttons are disabled |
| Flashing blue | Varies | Varies | Flashing orange | Varies | High temperature warning; if the temperature gets too high, projection will automatically stop<br>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects<br>• Clean or replace the air filter |
| Off | Flashing blue | Orange | Orange | Off | Lens Shift error; turn off the projector, unplug it from the electrical outlet, 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 |
| Off | Flashing blue | Off | Orange | Off | Projector is too hot (overheating) and projection stops; leave it for about five minutes to cool down<br>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects<br>• Clean or replace the air filter<br>• Make sure the environmental temperature is not too hot<br>• If operating the projector at high altitude, turn on **High Altitude Mode**<br>• If the problem persists, unplug the projector and contact Epson for help |

| On/Standby (power) light | Status light | Laser light | Temp light | Filter light | Status and solution |
|---|---|---|---|---|---|
| Off | Flashing blue | Orange | Off | Off | Laser has a problem; turn off the projector, unplug it from the electrical outlet, and contact Epson for help |
| Varies | Varies | Varies | Varies | Flashing orange | It is time to clean the air filter |
| Off | Flashing blue | Off | Off | Orange | Low air flow through the projector<br>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects<br>• Clean or replace the air filter<br>• If the problem persists, unplug the projector and contact Epson for help |
| Flashing blue | Varies | Varies | Varies | Orange | Low air flow through the air filter<br>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects<br>• Clean or replace the air filter<br>• If the problem persists, unplug the projector and contact Epson for help |
| Off | Flashing blue | Off | Flashing orange | Off | A fan or sensor has a problem; turn the projector off, unplug it, and contact Epson for help |
| Flashing blue | Varies | Flashing orange | Varies | Varies | Laser has a problem; turn the projector off, unplug it, and contact Epson for help |
| Flashing blue | Varies | Flashing orange | Varies | Varies | An unsupported lens is attached; make sure your lens is supported |

| On/Standby (power) light | Status light | Laser light | Temp light | Filter light | Status and solution |
|---|---|---|---|---|---|
| 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 |
| Varies | Varies | Flashing orange | Varies | Varies | The projector is unable to maintain constant brightness and the Constant Brightness setting in the Settings menu is disabled |

**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

**Related concepts**

Air Filter and Vent Maintenance

**Related references**

Projector Setup Settings - Extended Menu

Optional Equipment and Replacement Parts

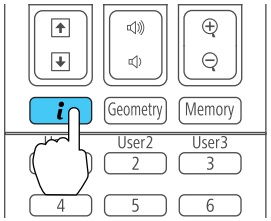
**Related tasks**

Stopping Video Action Temporarily

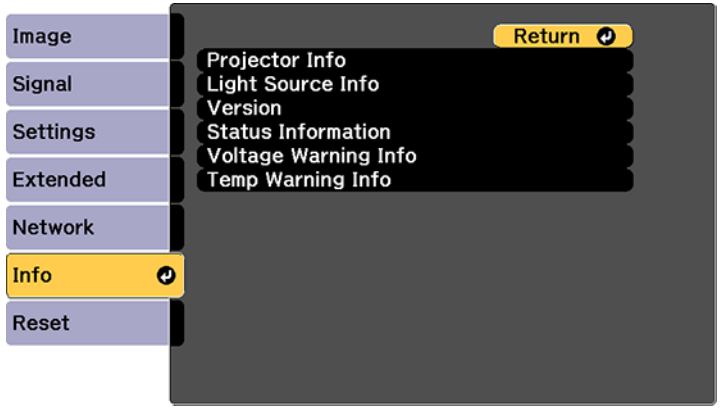
## Viewing the Status Display

You can monitor the projector's status and view error information from the status display.

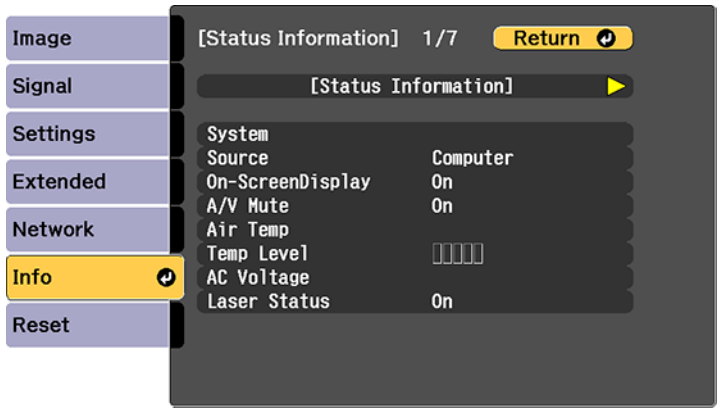
1. Turn on the projector.
2. Press the **i** button on the remote control or the right arrow button on the control panel.



3. Select **Status Information** and press **Enter**.




4. Press the left or right arrow buttons to view different categories of information.




- **Status Information**: The projector's operating status
- **Source**: Input signal information
- **Signal Information**: Input digital signal information
- **Network Wired**: Wired LAN settings
- **Network Wireless**: Wireless LAN settings

- **Maintenance**: Operating time for the projector and light source

Projector Status Display Messages

**Parent topic:** Solving Problems

## Projector Status Display Messages

Categories on the status display screens let you view information about the projector and its operation.

**Status Information** category

| Information | Description |
|---|---|
| **System** | See the System status information table at the end of this topic |
| **Source** | Displays the source currently being used |
| **On-Screen Display** | Displays the settings for on-screen displays. When turned off, menus or messages are not displayed on the projected images |
| **A/V Mute** | Displays the A/V Mute status |
| **Air Temp** | Displays the environmental temperature |
| **Temp Level** | |
| **AC Voltage** | Displays warnings and errors that have occurred when the **AC Voltage Monitoring** setting is turned on |
| **Laser Status** | Displays the operating status of the light source |

**Source** category

| Information | Description |
|---|---|
| **Source** | Displays the source currently being used |
| **Resolution** | Displays the resolution of the current input signal |
| **Video Signal** | Displays the current input video signal |
| **Color Space** | Displays the color space of the current input signal |
| **H-Frequency** | Displays the horizontal frequency of the current input signal |

| Information | Description |
|---|---|
| **V-Frequency** | Displays the vertical frequency of the current input signal |
| **Sync Polarity** | Displays the sync polarity |
| **Sync Mode** | Displays the sync type |
| **Detected Mode** | Displays the detected mode of the current input signal |
| **Video Level** | Displays the video level of the projector |

**Signal Information** category

| Information | Description |
|---|---|
| **5V Detect** | Displays the detection results of 5V signals |
| **TMDS Clock** | Displays the TMDS frequency of the current input signal |
| **TMDS H-Frequency** | Displays the horizontal frequency of the current input signal |
| **TMDS V-Frequency** | Displays the vertical frequency of the current input signal |
| **DetChg 5CFHMP123** | Displays the factors of signal changes |
| **Stable Time** | Displays the amount of operating time since the input source was determined |
| **HDCP Status** | Displays the HDCP status |
| **HDCP Ver** | Displays the HDCP version |
| **AVI Info VIC** | Displays the VIC information (AVI) of the current input signal |
| **AVI InfoChecksum** | Displays the checksum result for AVI |
| **Signal Mode** | Displays the signal mode |
| **Pixel Encoding** | Displays the color space information (AVI) of the current input signal |

| Information | Description |
| --- | --- |
| **HDBaseT Level** | Displays the image signal information from the HDBaseT port |

**Network Wired** category

| Information | Description |
| --- | --- |
| **Projector Name** | Displays the name used to identify the projector when connected to a network |
| **Connection Mode** | Displays the connection path for the LAN |
| **DHCP** | Displays the DHCP display settings |
| **IP Display** | Displays the IP address display settings |
| **IP Address** | Displays the IP address |
| **MAC Address** | Displays the MAC address |

**Network Wireless** category

| Information | Description |
| --- | --- |
| **Projector Name** | Displays the name used to identify the projector when connected to a network |
| **Connection Mode** | Displays the connection mode to use when connecting the projector and a computer over a wireless LAN |
| **SSID Display** | Displays the SSID display settings |
| **IP Display** | Displays the IP address display settings |
| **SSID** | Displays the SSID |
| **IP Address** | Displays the IP address |
| **DHCP** | Displays the DHCP settings |
| **MAC Address** | Displays the MAC address |
| **Security** | Displays the security settings |
| **Antenna Level** | Displays the reception status for Wi-Fi |

**Maintenance** category

| Information | Description |
|---|---|
| **Operation Time** | Displays the projector's total operation time |
| **Laser Op. Time** | Displays the laser operating time for each Light Source Mode setting |

**Version** category

| Information | Description |
|---|---|
| **Serial No.** | Displays the projector's serial number |
| **Main** | Display the projector's firmware version information |
| **Video2** | |
| **Sub** | |
| **Sub2** | |
| **HDBaseT** | |

**System** status information

| Status | Description |
|---|---|
| **OK** | The projector is in normal operating mode |
| **Warm-up** | The projector is warming up |
| **Standby** | The projector is in standby mode |
| **Cool Down** | The projector is cooling down |
| **Temp Error** | A high temperature error occurred |
| **Fan Error** | A fan error occurred |
| **Sensor Error** | A sensor error occurred |
| **Power Error** | A power error occurred |
| **Internal Error** | An internal error occurred |
| **Airflow Error** | A filter airflow error occurred |

| Status | Description |
|---|---|
| **Temp Warning** | A high temperature warning occurred |
| **Internal Warning** | A warning regarding the internal system occurred |
| **Airflow Decline** | A low airflow error occurred |
| **Power Warning** | A power warning occurred |
| **Clean Filter** | An air filter notice occurred; clean the air filter |
| **Lens Error** | A lens error has occurred |
| **Laser Error** | A laser error has occurred |
| **Laser Warning** | A laser warning has occurred |

**Parent topic:** Viewing the Status Display

## Using the Projector Help Displays

You can display information to help you solve common problems using the projector's Help system.

1. Turn on the projector.
2. Press the **Home** button on the remote control.
3. Press the arrow buttons to select **Help**.
4. Press **Enter**.

   You see the Help menu.
5. Press the up and down arrow buttons to highlight the problem you want to solve.
6. Press **Enter** to view the solutions.
7. When you are finished, do one of the following:
   - To select another problem to solve, press **Esc**.
   - To exit the help system, press **Home**.

**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 to Sound Problems

**Parent topic:** Solving Problems

## Solutions When No Image Appears

If no image appears, try the following solutions:

- Make sure the lens cap is off.
- Press the **A/V Mute** 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 power 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.
- Press the **Menu** button. If the projector menu displays, there may be a problem with the connected video source, cable connection, or port.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the **Brightness Settings**.
- Check the **Display** setting to make sure **Messages** is set to **On**.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked. Unlock the buttons. Press and hold the **Enter** button for 5 to 10 seconds or use the remote control.
- 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.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

**Parent topic:** Solving Image or Sound Problems

**Related concepts**

Projector Connections

**Related references**

Input Signal Settings - Signal Menu

Projector Setup Settings - Extended Menu

**Related tasks**

Adjusting the Brightness

Unlocking the Projector's Buttons

## Solutions When "No Signal" Message Appears

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

- Press the **Source Search** or **Search** button and wait a few seconds for an image to appear.
- 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.
- Try a different video cable.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Displaying From a PC Laptop

Displaying From a Mac Laptop

**Parent topic:** Solving Image or Sound Problems

**Related concepts**

Projector Connections

### 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. Hold down the laptop's **Fn** key and press the key labeled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear. To display on both the laptop's monitor and the projector, try pressing the same keys again.

   **Note:** 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.)
- As a test, try setting the computer's display resolution to the lowest possible setting, and then gradually increase it as necessary.

**Parent topic:** Solving Image or Sound Problems

**Related references**

Input Signal Settings - Signal Menu

Supported Video Display Formats

## Solutions When Only a Partial Image Appears

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

- Make sure you selected the correct **Screen Type** setting for the screen you are using.
- Make sure the **Scale** setting in the Extended menu is turned off.
- Try adjusting the image position using the **Position** menu setting.
- Try adjusting the image position using the **Screen Position** menu setting.
- Press the **Aspect** button on the remote control to select a different image aspect ratio.
- If you zoomed into or out of the image using the **E-Zoom** buttons, press the **Esc** button until the projector returns to a full display.
- Check the cables connecting the computer or video source to the projector. Try connecting different cables.
- 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 you are projecting in. (See your software help for details.)

**Parent topic:** Solving Image or Sound Problems

**Related concepts**

Projector Connections

**Related references**

Projector Setup Settings - Extended Menu
Input Signal Settings - Signal Menu
Supported Video Display Formats

**Related tasks**

Setting the Screen Type
Adjusting the Image Position Using Screen Position

## 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.
- Adjust the image shape using the **Geometry Correction** menu settings.

**Parent topic:** Solving Image or Sound Problems

**Related references**

Projector Feature Settings - Settings Menu

## 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
  - No longer than 9.8 feet (3 m) for VGA/computer cables or 24 feet (7.3 m) for HDMI cables
- Check the settings on the projector's Signal menu to make sure they match the video source. If available for your video source, adjust the **Deinterlacing** and **Noise Reduction** settings.
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If the problem remains, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting to improve image quality.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
- Try a different cable.
- Try turning off **Frame Interpolation** or turning on **Image Enhancement** in the Image menu.

**Parent topic:** Solving Image or Sound Problems

**Related references**

Image Quality Settings - Image Menu

Input Signal Settings - Signal Menu

Supported Video Display Formats

## 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.

- Try connecting the projector to the highest quality connection available on your input source. For example, connect to an HMDI port or component video ports for a better quality input signal.
- 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, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If any bands or overall blurriness remain, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you are projecting from a computer, try using a lower resolution or try to match the projector's native resolution.

**Parent topic:** Solving Image or Sound Problems

**Related concepts**

Projector Connections

**Related references**

Projector Setup and Installation Options
Image Quality Settings - Image Menu
General Projector Specifications
Supported Video Display Formats

**Related tasks**

Focusing the Image Using the Focus Buttons
Cleaning the Lens

## 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**, **Advanced**, and **Color Saturation**.
- Make sure you selected the correct **Input Signal** or **Video Signal** 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 **Brightness Settings** options in the Settings menu are set correctly.
- Position the projector close enough to the screen.

**Parent topic:** Solving Image or Sound Problems

**Related references**

Image Quality Settings - Image Menu
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu
Projection Distance

## 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 **A/V Mute** button on the remote control to resume video and audio if they were temporarily stopped.
- Press the **Source Search** or **Search** button to switch to the correct input source, if necessary.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Try disconnecting and reconnecting the audio cable.
- 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 you want to use a connected audio source when the projector is off, set the **Standby Mode** option to **Communication On** and make sure the **A/V Settings** options are set correctly.

- Make sure the **Audio Settings** option is set to the correct audio port for your video device.
- If you turn the projector on immediately after turning it off, the cooling fans may run at high speed momentarily and cause an unexpected noise. This is normal.

**Parent topic:** Solving Image or Sound Problems

**Related references**

Projector Setup Settings - Extended Menu

**Related tasks**

Controlling the Volume with the Volume Buttons
Connecting to a Video Source for Sound
Connecting to a Computer for Sound
Connecting to External Speakers

# 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 Problems with the Remote Control
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 laser shuts off unexpectedly, it may have entered standby mode after a period of inactivity. Press the power button to wake the projector and adjust the **Sleep Mode Timer** setting to change the sleep interval.
- 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.

**Parent topic:** Solving Projector or Remote Control Operation Problems

**Related references**

Projector Setup Settings - Extended Menu

Projector Feature Settings - Settings Menu

Projector Light Status

**Related tasks**

Unlocking the Projector's Buttons

## Solutions to Problems with the Remote Control

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.
- Make sure the optional remote control cable set is not attached to the projector's **Remote** port. If you leave the cable connected to the port, the remote control cannot control the projector.
- 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.
- If you assigned an ID number to the remote control to operate multiple projectors, you may need to check or change the ID setting (feature not available with all projectors).
- Make sure the **Remote Control Type** setting in the Extended menu is set to **Normal** if you are using the remote control that came with the projector.
- Make sure the **Control Communications** or **Extron XTP** setting in the Extended menu is set to **Off** if you are using the optional remote control cable set.
- If you lose the remote control, you can purchase another from an authorized Epson reseller.

**Parent topic:** Solving Projector or Remote Control Operation Problems

**Related concepts**

Projector Identification System for Multiple Projector Control

**Related references**

Projector Setup Settings - Extended Menu

Projector Feature Settings - Settings Menu

Remote Control Operation

**Related tasks**

Replacing the Remote Control Batteries

## Solutions to Password Problems

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

- You may have turned on password protection without first setting a password. Try entering **0000** using the remote control.
- 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.
- If you set a Epson Web Control password and forgot the user ID or password, try entering the following:
  - User ID: **EPSONWEB**
  - Default password: **admin**
- If you set a Remote password (in Epson Web Control) and forgot the user ID or password, try entering the following:
  - User ID: **EPSONREMOTE**
  - Default password: **guest**
- If you lose the remote control, you cannot enter a password. Order a new one from Epson.

**Parent topic:** Solving Projector or Remote Control Operation Problems

**Related concepts**

Password Security Types

# Solving Network Problems

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

Solutions When Wireless Authentication Fails
Solutions When You Cannot Access the Projector Through the Web
Solutions When the Image Contains Static During Network Projection
Solutions When Network Alert E-Mails are Not Received

**Parent topic:** Solving Problems

## Solutions When Wireless Authentication Fails

If you cannot authenticate a wireless connection, try the following solutions:

- If the wireless settings are correct, but authentication fails, you may need to update the **Date & Time** settings in the Extended menu, if available.
- Make sure the **Wireless Mode** setting is set to **Wireless Lan On**.
- Check the Security settings and passphrase in the Network Configuration menu.
- Check the Event ID number displayed in the Info menu and check the link below to identify the problem.

**Parent topic:** Solving Network Problems

**Related references**

Projector Setup Settings - Extended Menu
Event ID Code List

**Related tasks**

Setting Up Wireless Network Security

## 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. The default password is **admin**.
- Make sure you have access to the network the projector is on.

**Note:** The user ID and password are case sensitive.

**Parent topic:** Solving Network Problems

**Related concepts**

Password Security Types

**Related tasks**

Controlling a Networked Projector Using a Web Browser

## 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 wireless connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.
- If the connection speed declines, reduce the number of connected devices.

**Parent topic:** Solving Network Problems

## Solutions When Network Alert E-Mails are Not Received

If you do not receive an e-mail alerting you to problems with a projector over the network, try the following solutions:

- Make sure the projector is turned on and connected to the network correctly. (If an error shut down the projector, it cannot send an e-mail.)
- Make sure you set up the projector e-mail alert settings correctly on the projector's network Notifications menu or in the network software.
- Set the **Standby Mode** setting to **Communication On** so the network software can monitor the projector in standby mode.

**Parent topic:** Solving Network Problems

**Related references**

Projector Setup Settings - Extended Menu

Projector Network Settings - Network Menu

# Where to Get Help

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.), epson.ca/support (Canada), or epson.com.jm/support (Caribbean) 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 6 AM to 8 PM, Pacific Time, Monday through Friday and 7 AM to 4 PM, Pacific Time, Saturday.

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).

To purchase a replacement remote control, call (562) 276-4394 (U.S.) or (905) 709-3839 (for dealer referral in Canada).

**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
Supported Video Display Formats

## General Projector Specifications

**Note:** Specifications are based on having the standard zoom lens (ELPLM15) installed.

| | |
|---|---|
| **Type of display** | Poly-silicon TFT active matrix |
| **Resolution** | **Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/ L1750UNL/L1755UNL**: |
| | 1920 × 1200 pixels (WUXGA) |
| | **Pro L1715SNL**: |
| | 1400 × 1050 pixels (SXGA+) |
| **Lens** | F=1.8 to 2.3 |
| | Focal length: 36 to 57.35 mm |
| **Color reproduction** | Full color, up to 1 billion colors |

| | |
|---|---|
| **Brightness** | **Pro L1490U/L1490UNL/L1495U/L1495UNL**:<br>Normal Light Source Mode:<br>White light output 9000 lumens (ISO 21118 standard)<br>Color light output 9000 lumens<br>Quiet or Extended Light Source Mode:<br>White light output 6300 lumens (ISO 21118 standard)<br>**Pro L1500UH/L1500UHNL/L1505UH/L1505UHNL**:<br>Normal Light Source Mode:<br>White light output 12000 lumens (ISO 21118 standard)<br>Color light output 12000 lumens<br>Quiet or Extended Light Source Mode:<br>White light output 8400 lumens (ISO 21118 standard)<br>**Pro L1715SNL/L1750UNL/L1755UN**:<br>Normal Light Source Mode:<br>White light output 15000 lumens (ISO 21118 standard)<br>Color light output 15000 lumens<br>Quiet or Extended Light Source Mode:<br>White light output 10500 lumens (ISO 21118 standard)<br><br>**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. |
| **Contrast ratio** | Over 2,500,000:1 with Dynamic Color Mode, Normal Light Source Mode, Wide Zoom, Lens Shift centered, and Light Optimizer on |
| **Image size**<br>(in native aspect ratio) | 60 inches (1.52 m) to 500 inches (12.7 m) |

| | |
|---|---|
| **Projection distance**<br>(in native aspect ratio) | **Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/ L1750UNL/L1755UNL**:<br>78.3 inches (1.99 m) to 1093.3 inches (27.77 m)<br>**Pro L1715SNL**:<br>76 inches (1.93 m) to 1066.9 inches (27.10 m) |
| **Projection methods** | Front, rear, ceiling-mounted |
| **Optical aspect ratio**<br>(width-to-height) | **Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/ L1750UNL/L1755UNL**:<br>16:10<br>**Pro L1715SNL**:<br>4:3 |
| **Focus adjustment** | Powered |
| **Zoom adjustment** | Powered |
| **Zoom ratio**<br>(Tele-to-Wide) | 1 to 1.61 |
| **Noise level** | **Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/ L1750UNL/L1755UNL**:<br>37 dB (Normal Light Source Mode)<br>30 dB (Quiet Light Source Mode)<br>**Pro L1715SNL/L1750UNL/L1755UNL**:<br>40 dB (Normal Light Source Mode)<br>30 dB (Quiet Light Source Mode) |
| **Keystone correction angle** | ± 45º vertical (Tele Zoom)<br>± 30° horizontal (Tele Zoom) |
| **USB Type B port compatibility** | USB 2.0 compliant for firmware update or copying menu settings |
| **USB Type A port compatibility** | USB 2.0 compliant port for wireless LAN, firmware update, or copying menu settings |

**Parent topic:** Technical Specifications

## Projector Light Source Specifications

**Note:** Specifications are based on having the standard zoom lens (ELPLM15) installed.

| | |
|---|---|
| **Type** | Laser Diode |
| **Light source output power** | **Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL**:<br>252 W<br>**Pro L1715SNL/L1750UNL/L1755UNL**:<br>288 W |
| **Wavelength** | 450 to 460 nm |
| **Light source life** | Normal or Quiet Light Source Mode:<br>Up to about 20000 hours<br>Extended Light Source Mode:<br>Up to about 30000 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** | 98.4 feet (30 m) |
| **Batteries** | Two alkaline or manganese AA |

**Parent topic:** Technical Specifications

## Projector Dimension Specifications

| | |
|---|---|
| **Height** (excluding feet) | 7.3 inches (185 mm) |
| **Width** | 23.1 inches (586 mm) |
| **Depth** | 19.4 inches (492 mm) |
| **Weight** | **Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL**<br>48.4 lb (21.9 kg)<br>**Pro L1715SNL**<br>49.0 lb (22.2 kg)<br>**Pro L1750UNL/L1755UN**<br>49.2 lb (22.3 kg) |

**Parent topic:** Technical Specifications

## Projector Electrical Specifications

**Note:** Specifications are based on having the standard zoom lens (ELPLM15) installed.

| | |
|---|---|
| **Rated frequency** | 50/60 Hz |
| **Power supply** | 100 to 240 V AC ±10%<br>**Pro L1490U/L1490UNL/L1495U/L1495UNL**:<br>6.5 to 2.9 A<br>**Pro L1500UH/L1500UHNL/L1505UH/L1505UHNL**:<br>9.6 to 4.2 A<br>**Pro L1715SNL/L1750UNL/L1755UNL**:<br>11.0 to 4.7 A |

| | |
|---|---|
| **Power consumption** (100 to 120 V) | **Pro L1490U/L1490UNL/L1495U/L1495UNL**:<br>Normal Light Source Mode: 645 W<br>Extended Light Source Mode: 524 W<br>Standby: 0.3 W (Communication Off), 2.0 W (Communication On)<br>**Pro L1500UH/L1500UHNL/L1505UH/L1505UHNL**:<br>Normal Light Source Mode: 955 W<br>Extended Light Source Mode: 597 W<br>Standby: 0.3 W (Communication Off), 2.0 W (Communication On)<br>**Pro L1715SNL/L1750UNL/L1755UNL**:<br>Normal Light Source Mode: 1082 W<br>Extended Light Source Mode: 668 W<br>Standby: 0.3 W (Communication Off), 2.0 W (Communication On) |
| **Power consumption** (220 to 240 V) | **Pro L1490U/L1490UNL/L1495U/L1495UNL**:<br>Normal Light Source Mode: 626 W<br>Extended Light Source Mode: 512 W<br>Standby: 0.3 W (Communication Off), 2.0 W (Communication On)<br>**Pro L1500UH/L1500UHNL/L1505UH/L1505UHNL**:<br>Normal Light Source Mode: 908 W<br>Extended Light Source Mode: 597 W<br>Standby: 0.3 W (Communication Off), 2.0 W (Communication On)<br>**Pro L1715SNL/L1750UNL/L1755UNL**:<br>Normal Light Source Mode: 1024 W<br>Extended Light Source Mode: 647 W<br>Standby: 0.3 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.

| | |
|---|---|
| **Temperature** | Operating:<br>Up to 4921 feet (1500 m): 32 to 122 °F (0 to 50 °C)<br>4921 feet (1500 m) to 10000 feet (3048 m) with High Altitude Mode enabled: 32 to 113 °F (0 to 45 °C)<br>Brightness automatically dims at these altitudes/operating temperatures:<br>Up to 4921 feet (1500 m): 104 °F (40 °C)<br>4921 feet (1500 m) to 10000 feet (3048 m): 95 °F (35 °C)<br>Storage:<br>14 to 140 °F (–10 to 60 °C) |
| **Humidity** (relative, non-condensing) | Operating: 20 to 80%<br>Storage: 10 to 90% |
| **Operating altitude** | Up to 4921 feet (1500 m)<br>Up to 10000 feet (3048 m) with High Altitude Mode enabled |

**Parent topic:** Technical Specifications

## Projector Safety and Approvals Specifications

| | |
|---|---|
| **United States** | FCC Part 15 Class B<br>UL60950-1 2nd edition (cTUVus Mark) |
| **Canada** | ICES-003 Class B<br>CSA C22.2 No. 60950-1-07 (cTUVus Mark) |

**Parent topic:** Technical Specifications

## Supported Video Display Formats

For best results, your computer's monitor port or video card resolution should be set to display in the projector's native resolution. However, your projector includes Epson's SizeWise chip that supports other computer display resolutions, so your image will be resized to fit automatically.

Your computer's monitor port or video card refresh rate (vertical frequency) must be compatible with the projector. (See your computer or video card manual for details.)

The table here lists the compatible refresh rate and resolution for each compatible video display format.

| Display format | Refresh rate (in Hz) | Resolution (in pixels) |
|---|---|---|
| **Computer signals (analog RGB)** | | |
| VGA | 60/72/75/85 | 640 × 480 |
| SVGA | 60/72/75/85 | 800 × 600 |
| XGA | 60/70/75/85 | 1024 × 768 |
| WXGA | 60 | 1280 × 768 |
| | 60/75/85 | 1280 × 800 |
| | 60 | 1366 × 768 |
| WXGA+ | 60/75/85 | 1440 × 900 |
| WXGA++ | 60 | 1600 × 900 |
| SXGA | 70/75/85 | 1152 × 864 |
| | 60/75/85 | 1280 × 960 |
| | 60/75/85 | 1280 × 1024 |
| SXGA+ | 60/75 | 1400 × 1050 |
| WSXGA+[1] | 60 | 1680 × 1050 |
| UXGA | 60 | 1600 × 1200 |
| 1920 × 1080 | 50/60 | 1920 × 1080 |
| WUXGA[2, 3] | 60 | 1920 × 1200 |
| **Component video** | | |
| SDTV (480i) | 60 | 720 × 480 |
| SDTV (576i) | 50 | 720 × 576 |

| Display format | Refresh rate (in Hz) | Resolution (in pixels) |
|---|---|---|
| SDTV (480p) | 60 | 720 × 480 |
| SDTV (576p) | 50 | 720 × 576 |
| HDTV (720p) | 50/60 | 1280 × 720 |
| HDTV (1080i) | 50/60 | 1920 × 1080 |
| **HDMI, DVI-D, and HDBaseT input signals** | | |
| VGA | 60 | 640 × 480 |
| SVGA | 60 | 800 × 600 |
| XGA | 60 | 1024 × 768 |
| WXGA | 60 | 1280 × 800 |
| | 60 | 1366 × 768 |
| WXGA+ | 60 | 1440 × 900 |
| WXGA++ | 60 | 1600 × 900 |
| SXGA | 60 | 1280 × 960 |
| | 60 | 1280 × 1024 |
| SXGA+ | 60 | 1400 × 1050 |
| WSXGA+ | 60 | 1680 × 1050 |
| UXGA | 60 | 1600 × 1200 |
| 1920 × 1080 | 50/60 | 1920 × 1080 |
| WUXGA[2] | 60 | 1920 × 1200 |
| QXGA[3, 4] | 60 | 2048 × 1536 |
| WQHD[3, 4] | 60 | 2560 × 1440 |
| WQXGA[2, 3, 4] | 60 | 2560 × 1600 |
| SDTV (480i/480p) | 60 | 720 × 480 |
| SDTV (576i/576p) | 50 | 720 × 576 |
| HDTV (720p) | 50/60 | 1280 × 720 |
| HDTV (1080i) | 50/60 | 1920 × 1080 |

| Display format | Refresh rate (in Hz) | Resolution (in pixels) |
|---|---|---|
| HDTV (1080p) | 24/30/50/60 | 1920 × 1080 |
| 4K×2K[3, 4] | 24/25/30/50/60 | 3840 × 2160 |
| 4K×2K (SMPTE)[3, 4] | 24/50/60 | 4096 × 2160 |
| **SDI input signals** (Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL/L1750UNL/L1755UNL only) | | |
| SDTV (480i) | 59.94 (SD-SDI mode) | 720 × 480 |
| SDTV (576i) | 50 (SD-SDI mode) | 720 × 576 |
| HDTV (720p) | 50/59.94/60 (HD-SDI mode) | 1280 × 720 |
| HDTV (1080i) | 50/59.94/60 (HD-SDI mode) | 1920 × 1080 |
| HDTV (1080p) | 23.98/24/25/29.97/30 (HD-SDI mode) | 1920 × 1080 |
| | 50.59.94/60 (3G-SDI mode; Level A) | 1920 × 1080 |

[1] Only compatible when **Wide** is selected as the **Resolution** setting

[2] Compatible only with VESA CVT-RB (Reduced Blanking) input signal

[3] Not supported for Pro L1715SNL

[4] HDMI and HDBaseT input only

**Parent topic:** Technical Specifications

# Notices

Check these sections for important notices about your projector.

Recycling
Important Safety Information
Important Safety Instructions
List of Safety Symbols (corresponding to IEC60950-1 A2)
FCC Compliance Statement
Binding Arbitration and Class Waiver
Trademarks
Copyright Notice

## Recycling

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

**Caution:** Never look into the projector lens when the laser is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on. Never open any cover on the projector, except the filter covers. Dangerous electrical voltages inside the projector can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

**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

## Important Safety Instructions

Follow these safety instructions when setting up and using the projector:

- 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.

- Do not place your hand or any object near the projection window. The high temperature of this area could cause burns, fire, or other damage.
- Do not place the projector on an unstable cart, stand, or table.
- 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.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- 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 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 operate the projector in a closed-in cabinet unless proper ventilation is provided.
- 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.
- If you are using two or more projectors side-by-side, leave at least 20 inches (50 cm) of space between the projectors to allow for proper ventilation.

- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector. Do not use canned air, or the gases may leave a residue.
- Do not store the projector outdoors for an extended length of time.
- Except as specifically explained in this manual, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- 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.
- Unplug the projector when it will not be used for extended periods.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Do not use or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.
- 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.
- 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 4921 feet (1500 m) or less, and 32 to 113 °F (0 to 45 °C) at an altitude of 4925 to 10000 feet (1501 to 3048 m)

  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.
- Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

- 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.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- 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.

Laser Safety Information
Laser Light Source Warning
Restriction of Use

**Parent topic:** Notices

## Laser Safety Information

This projector is a Class 3R laser product that complies with the IEC60825-1 international standard for lasers. Follow these safety instructions when using the projector.

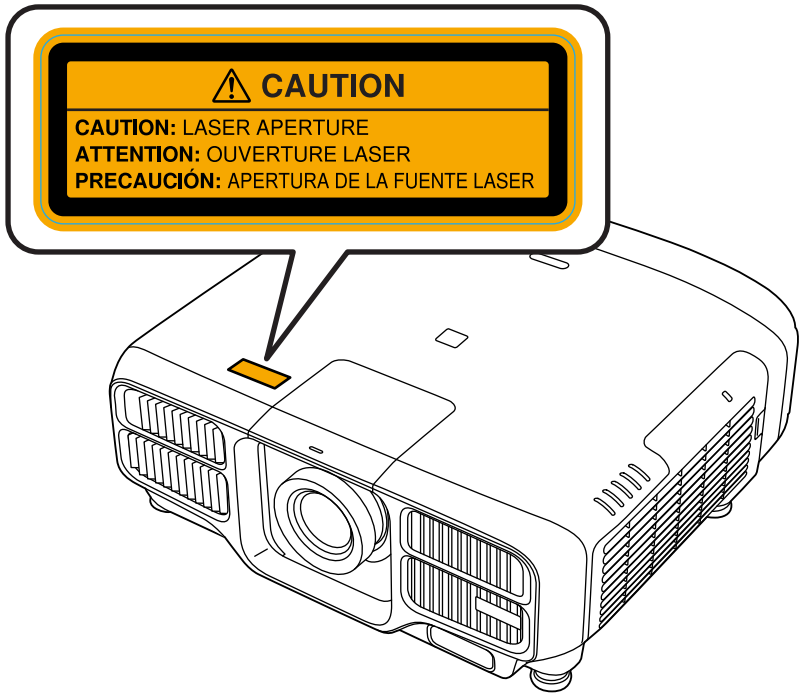
- If an error occurs in the projector, turn off the power and unplug the projector immediately. Continuing to use the projector could result in an electric shock, fire, or visual impairment. Contact Epson support.
- Do not attempt to disassemble or modify the projector. The projector contains a high-power laser component. Serious injury could result.
- 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.
- 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 apply optical devices, such as a magnifying glass or reflector, to the projected image. Using the projector may result in physical harm, fire, or an accident.
- Before using the projector, make sure there is nothing in the area that could reflect the projected image.

- When disposing of the projector, do not disassemble it. Dispose of the projector in accordance with your local or national laws and regulations.

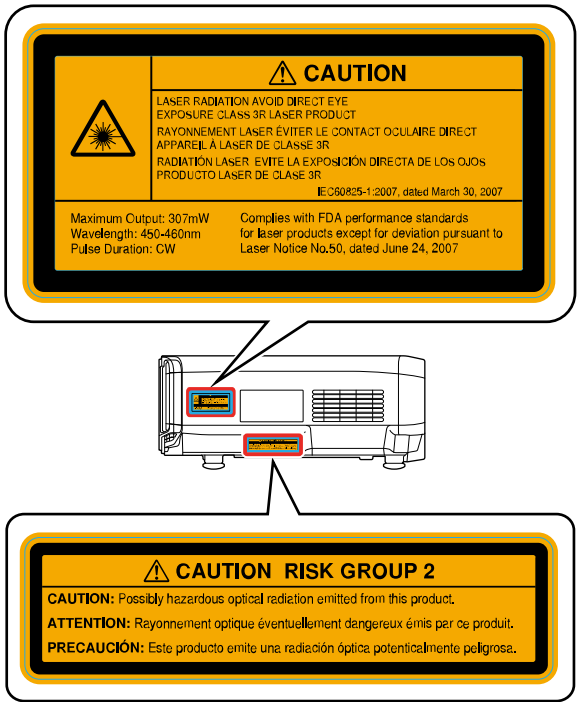
Labels are attached to the projector to indicate it is a Class 3R product and complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice N. 50, dated June 24, 2007:

- **Inside**

- **Top**


CAUTION
CAUTION: LASER APERTURE
ATTENTION: OUVERTURE LASER
PRECAUCIÓN: APERTURA DE LA FUENTE LASER

- **Side**




**Parent topic:** Important Safety Instructions

## Laser Light Source Warning

Refer to the table here for the Exposure Hazard Values (EHV) in accordance with the IEC62471-2:2009 standard. The EHV indicates the hazard level for objects in front of the light source for 0.25 seconds at a distance of 7.9 inches (20 cm). The higher the value, the greater the hazard level.

| Lens | Exposure Hazard Value | |
|---|---|---|
| | Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL | Pro L1715SNL/L1750UNL/L1755UNL |
| ELPLS04 | 0.6 | 0.6 |

| Lens | Exposure Hazard Value | |
|---|---|---|
| | Pro L1490U/L1490UNL/L1495U/L1495UNL/L1500UH/L1500UHNL/L1505UH/L1505UHNL | Pro L1715SNL/L1750UNL/L1755UNL |
| **ELPLM15** | 0.6 | 0.7 |
| **ELPLX02** | <0.5 | <0.5 |
| **ELPLU03** | <0.5 | <0.5 |
| **ELPLU02** | <0.5 | <0.5 |
| **ELPLU04** | <0.5 | <0.5 |
| **ELPLW04** | <0.5 | 0.5 |
| **ELPLW05** | <0.5 | <0.5 |
| **ELPLW06** | <0.5 | 0.5 |
| **ELPLW08** | <0.5 | <0.5 |
| **ELPLM06** | 0.7 | 0.7 |
| **ELPLM10** | 0.7 | 0.8 |
| **ELPLM07** | 0.7 | 0.7 |
| **ELPLM11** | 0.7 | 0.7 |
| **ELPLL07** | 0.7 | 0.7 |
| **ELPLL08** | 0.7 | 0.7 |

**Parent topic:** Important Safety Instructions

## 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 (corresponding to IEC60950-1 A2)

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

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

| No. | Symbol | Approved Standards | Description |
|---|---|---|---|
| 7 | | IEC60417<br>No.5957 | For indoor use only<br>To identify electrical equipment designed primarily for indoor use. |
| 8 | | IEC60417<br>No.5926 | Polarity of DC power connector<br>To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC power supply may be connected. |
| 9 | | IEC60417<br>No.5001B | Battery, general<br>On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals. |
| 10 | | IEC60417<br>No.5002 | Positioning of cell<br>To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder. |
| 11 | | IEC60417<br>No.5019 | Protective earth<br>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. |
| 12 | | IEC60417<br>No.5017 | Earth<br>To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required. |

| No. | Symbol | Approved Standards | Description |
|---|---|---|---|
| 13 | | IEC60417<br>No.5032 | Alternating current<br>To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals. |
| 14 | | IEC60417<br>No.5031 | Direct current<br>To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals. |
| 15 | | IEC60417<br>No.5172 | Class II equipment<br>To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140. |
| 16 | | ISO 3864 | General prohibition<br>To identify actions or operations that are prohibited. |
| 17 | | ISO 3864 | Contact prohibition<br>To indicate injury that could occur due to touching a specific part of the equipment. |
| 18 | | — | Never look into the optical lens while the projector is on. |
| 19 | | — | To indicate that the marked item don’t place anything on projector. |
| 20 | | ISO3864<br>IEC60825-1 | Caution, laser radiation<br>To indicate the equipment has a laser radiation part. |

| No. | Symbol | Approved Standards | Description |
|---|---|---|---|
| 21 | | ISO 3864 | Disassembly prohibition<br>To indicate a risk of injury, such as electric shock, if the equipment is disassembled. |
| 22 | | — | Never look into the lens while the LED for lighting is on. |
| 23 | | IEC60417<br>No. 5266 | Standby, partial standby<br>To indicate that part of the equipment is in the ready status. |
| 24 | | ISO3864<br>IEC60417<br>No. 5057 | Caution, movable parts<br>To indicate that you must keep away from movable parts according to protection standards. |

**Parent topic:** Notices

# FCC Compliance Statement

### For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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.

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

**WARNING**

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

**For Canadian Users**

CAN ICES-3(B)/NMB-3(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, 3840 Kilroy Airport Way, Long Beach, CA 90806 (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, 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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