PowerLite® W16SK User's Guide

Contents

PowerLite W16SK User's Guide

Welcome to the PowerLite W16SK *User's Guide*.

Introduction to Your Projector

Refer to these sections to learn more about your projector and this manual.

Projector Features

The PowerLite W16SK 3D Dual Projection System includes these special features:

3D projection

• Passive 3D projection with inexpensive passive 3D glasses (one pair included)

• Supports side-by-side, top-and-bottom, and frame packing 3D formats

Bright, high-resolution projection system

• Up to 6000 lumens of brightness (3000 × 2 projectors) in 2D mode (white light output and color light output)

• Native resolution of 1280 × 800 pixels (WXGA)

Flexible connectivity

• HDMI port for computer or video device connection

• Dual VGA ports for connections by multiple presenters

• Ports for connecting an external monitor and external speakers

Easy-to-use setup and operation features

• Epson's Instant Off and Direct Power On features for quick setup and shut down

• Built-in closed captioning decoder

• 1.2× optical zoom ratio for improved zooming capability

• Low total cost of ownership with longer lamp life

Parent topic:

Additional Components

Depending on how you plan to use the projector, you will need to obtain the following additional components:

• To receive a composite video signal, you need three RCA-style video or A/V cables and a splitter that supports composite video signals. See your local computer or electronics dealer for purchase information.

• To receive an S-Video signal, you need three S-Video cables compatible with your device and a splitter that supports S-Video signals. See your local computer or electronics dealer for purchase information.

• To receive a VGA signal, you need two VGA computer cables (you can purchase them from Epson or an authorized Epson reseller). If you want to connect the projector using a splitter, you also need a splitter that supports VGA signals (see your local computer or electronics dealer for purchase information) and a third VGA computer cable.

• To receive a component video signal, you need a D-sub, 15-pin, component-to-VGA video cable and two VGA computer cables (you can purchase them from Epson or an authorized Epson reseller). You also need a splitter that supports component video signals (see your local computer or electronics dealer for purchase information).

• To receive an HDMI signal, you need three compatible HDMI cables and a splitter that supports HDMI signals. See your local computer or electronics dealer for purchase information.

• To receive and view a 3D signal, you need three compatible HDMI cables, a splitter that supports 3D signals, and a silver screen (recommended gain: 2.3 to 2.7). See your local computer or electronics dealer for purchase information.

• To project with audio from certain ports, you may need a commercially available audio cable compatible with your device. See your local computer or electronics dealer for purchase information.

Note: If your video device is equipped with two video outputs, you may not need a splitter and you may only need two video cables.

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

Parent topic:

Related references

Optional Equipment and Replacement Parts

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). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epson.ca (Canadian sales).

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

Option or part	Part number
Genuine Epson Replacement lamp (ELPLP67)	V13H010L67
Replacement air filter (ELPAF42)	V13H134A42
Passive 3D glasses for adults (ELPGS02A)	V12H541A20
Passive 3D glasses for children (ELPGS02B)	V12H541B20
Epson DC-06 document camera	V12H321005
Epson DC-11 document camera	V12H377020
Epson DC-20 document camera	V12H500020
Universal projector ceiling mount	ELPMBPJF
Adjustable suspended ceiling channel kit	ELPMBP01
False ceiling plate kit	ELPMBP02
Structural round ceiling plate	ELPMBP03
Adjustable extension column (pipe) 8" - 11" (20 to 28 cm)	ELPMBC01
Kensington security lock	ELPSL01
Accolade Duet portable projector screen	ELPSC80
ES3000 portable screen (ELPSC26H)	V12H002S3Y
Component-to-VGA video cable	ELPKC19
1-Year Extended Exchange Warranty	EPPEXPA1
2-Year Extended Exchange Warranty	EPPEXPA2

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.

Register your product online using the projector CD or at this site: www.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 during a presentation? Here's where to look for help:

- Built-in help system

  Press the **Help** button on the remote control or projector to get quick solutions to common problems.

- www.epson.com/support (U.S) or www.epson.ca/support (Canada)

  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 the sources listed above, 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

Projector Part Locations

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

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

Parent topic: Introduction to Your Projector

Projector Parts - Front/Top

Note: The parts listed here are available on both projectors.
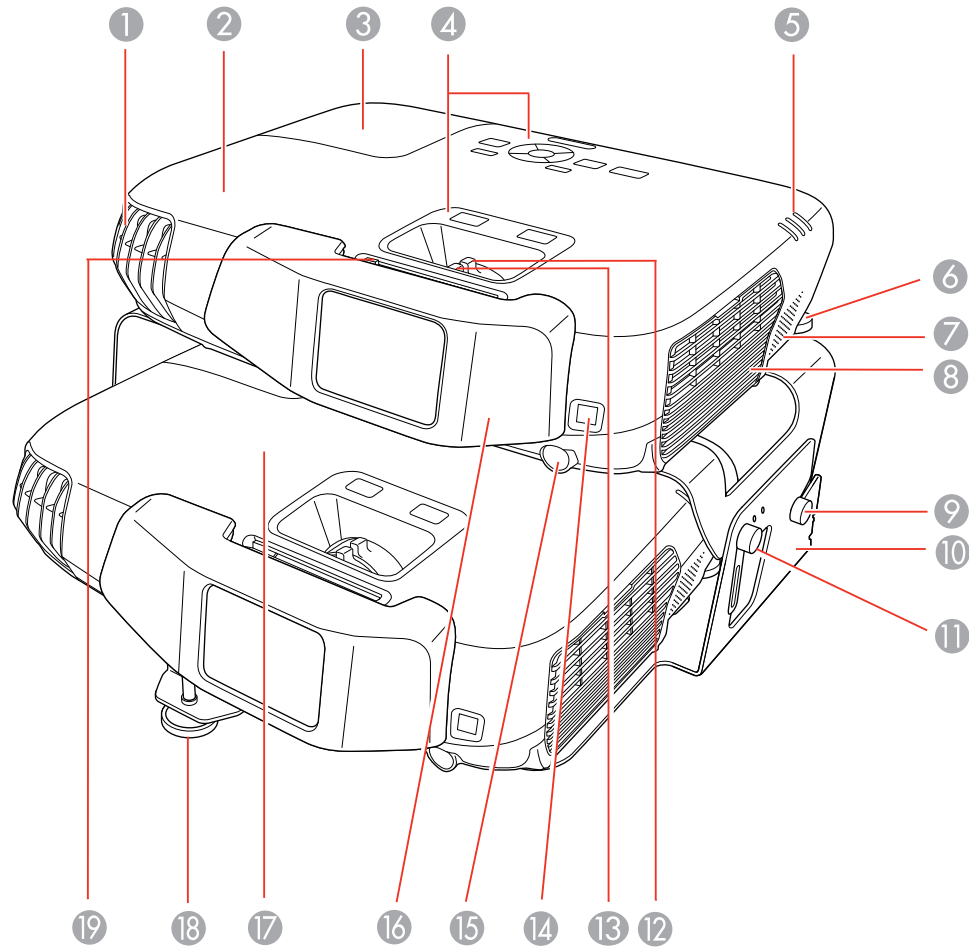
1 Exhaust vent

2 Commander projector

3 Lamp cover

4 Control panel

5 Projector status lights

6 Security cable attachment point and Kensington security lock slot

7   Speaker

8   Air filter cover and intake vent

9   Stacking mount connector

10   Stacking mount

11   Stacking mount angle adjustment

12   Zoom ring

13   Focus ring

14   Screen Fit sensor

15   Remote receiver

16   Polarizing filter

17   Receiver projector

18   Front adjustable foot

19   A/V Mute slide lever

Parent topic: Projector Part Locations

Related references
Projector Light Status

Related tasks
Installing a Security Cable

Projector Parts - Rear
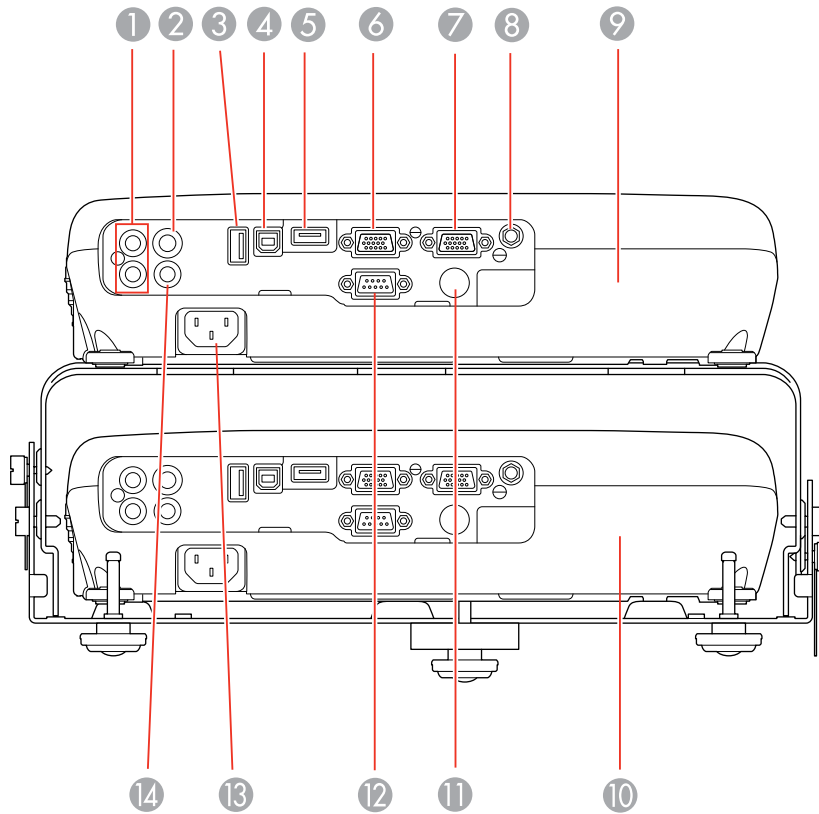
1 **Audio** ports

2 **S-Video** port

3 **USB-A**/document camera port (used on the commander projector for connection to the receiver projector; port is not functional on the receiver projector when the projectors are being used together in a stacked configuration)

4 **USB-B** port (used on the receiver projector for connection to the commander projector; port is not functional on the commander projector when the projectors are being used together in a stacked configuration)

5 **HDMI** port

6 **Computer1** port

7 **Monitor Out/Computer2** port

8 **Audio Out** port

9 Commander projector

10 Receiver projector

11 Remote receiver

12 **RS-232C** port (port is not functional on the receiver projector when the projectors are being used together in a stacked configuration)

13 AC input port

14 **Video** port

Parent topic: Projector Part Locations

Projector Parts - Base
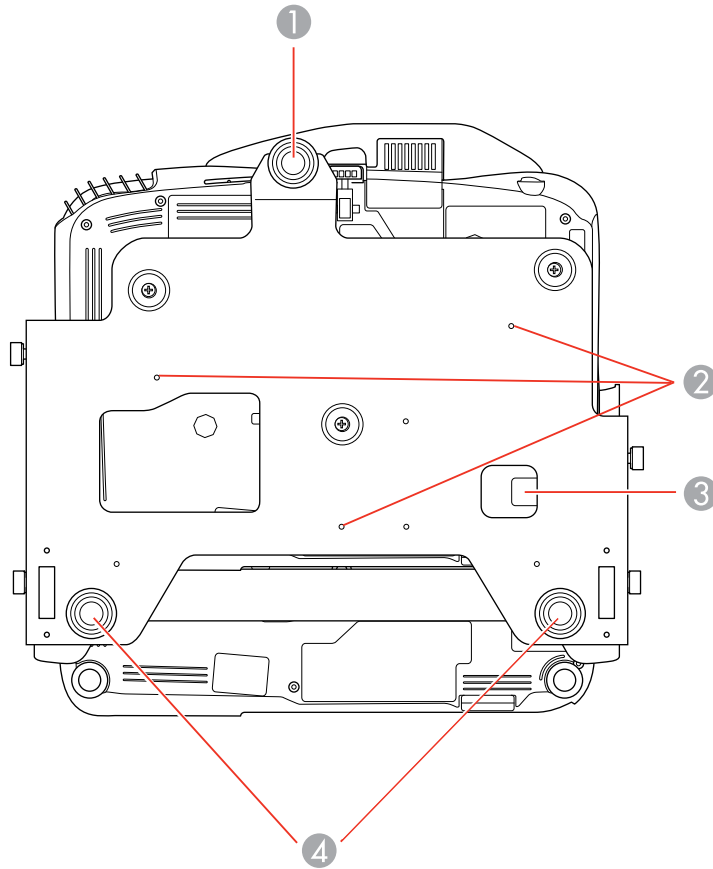
1	Front adjustable foot
2	Mounting bracket holes
3	Security cable attachment point
4	Rear adjustable feet

Parent topic: Projector Part Locations

Projector Parts - Control Panel
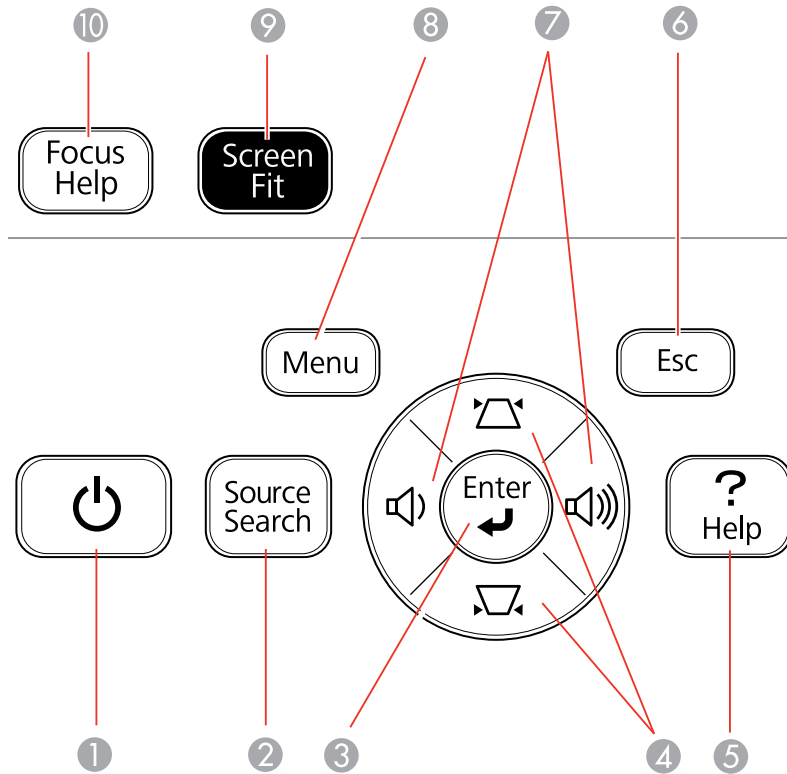
1	Power button
2	**Source Search** button (searches for connected sources)
3	**Enter** button (selects options)
4	Arrow buttons
5	**Help** button (accesses projector help information)
6	**Esc** button (cancels/exits functions)
7	Volume control buttons and arrow buttons
8	**Menu** button (accesses projector menu system)

9   **Screen Fit** button (superimposes projector images)

10   **Focus Help** button (button is not functional when the projectors are being used together in a stacked configuration)

Parent topic: Projector Part Locations

Projector Parts - Remote Control
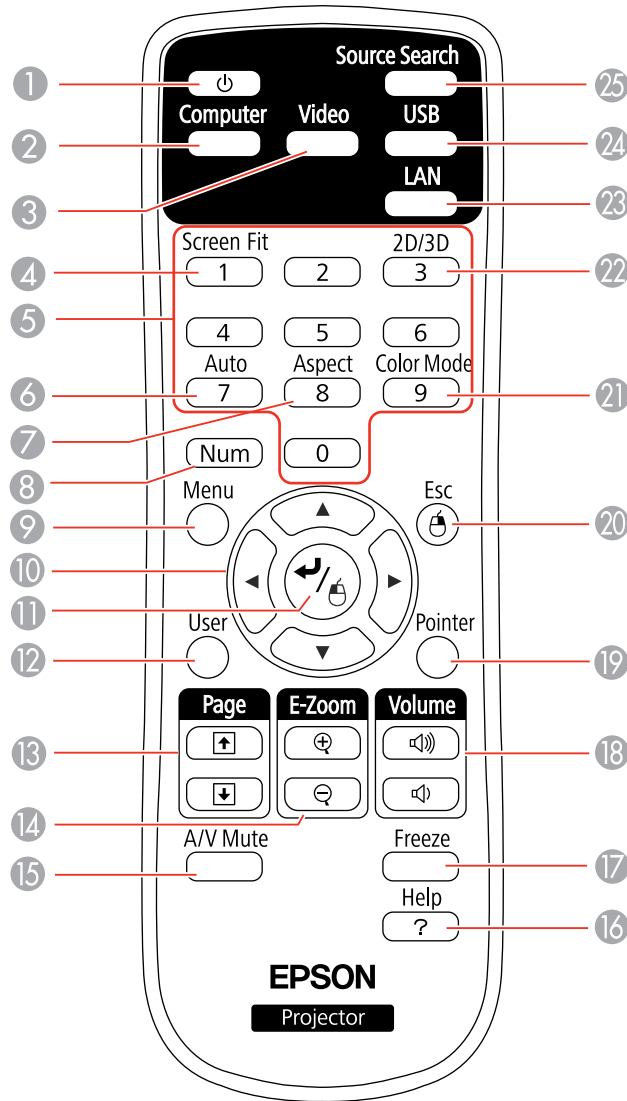
1   Power button

2   **Computer** button (cycles through connected computer sources)

3   **Video** button (cycles through connected video sources)

4   **Screen Fit** button (superimposes projector images)

5   Numeric buttons (enter numbers)

6   **Auto** button (automatically adjusts position, tracking, and sync settings)

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

8   **Num** button (when held down, switches numeric buttons to number function)

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

10   Arrow buttons (move through on-screen options)

11   Enter button (selects options)

12   **User** button (customizable for different functions)

13   **Page** up/down buttons (button is not functional when the projectors are being used together in a
     stacked configuration)

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

15   **A/V Mute** button (turns off picture and sound)

16   **Help** button (accesses projector help information)

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

18   **Volume** up/down buttons (adjust speaker volume)

19   **Pointer** button (button is not functional when the projectors are being used together in a stacked
     configuration)

20   **Esc** button (cancels/exits functions and controls wireless mouse functions)

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

22   **2D/3D** button (activates 3D mode)

23   **LAN** button (button is not functional)

24   **USB** button (button is not functional when the projectors are being used together in a stacked
     configuration)

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

Parent topic: Projector Part Locations

Setting Up the Projector

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

Projector Placement
Projector Connections
Installing Batteries in the Remote Control
Opening the Lens Covers

Projector Placement

You can place the projector on almost any flat surface to project your presentation.

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 to view presentations in the following ways:

Note: To view 3D images, you must project onto the front of a silver screen designed for passive 3D images.

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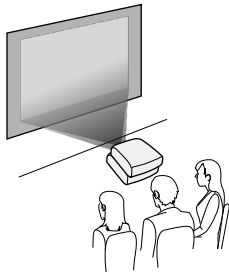
Rear
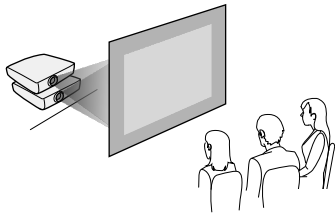
Front Ceiling
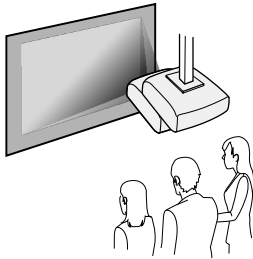
Rear Ceiling
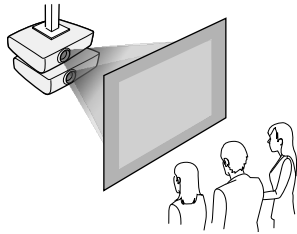
Wherever you set up the projector, make sure to position it squarely in front of the center of the screen, not at an angle, if possible.

If you project from the ceiling or from the rear, be sure to select the correct **Projection** option in the projector's menu system.

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: When you are viewing 3D images, you can use screen sizes up to 120 inches.

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.) For more detailed information and installation instructions, see the *Setup Guide*.
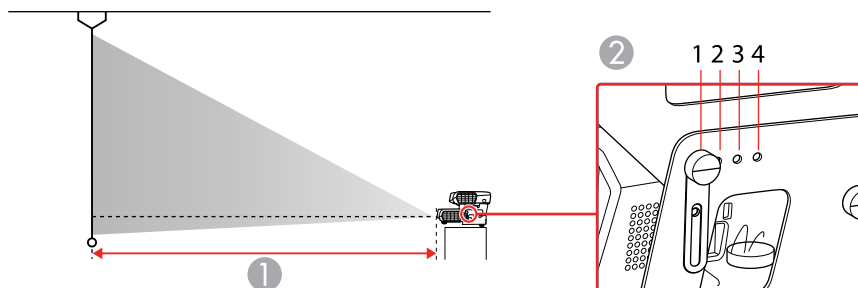
16:10 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1) Minimum to Maximum	Screw hole number (2)
80 inches (203 cm)	97 to 106 inches (248 to 270 cm)	4
100 inches (254 cm)	122 to 133 inches (310 to 338 cm)	3
120 inches (305 cm)	147 to 160 inches (373 to 407 cm)	2
150 inches (381 cm)	184 to 200 inches (467 to 509 cm)	1

4:3 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1) Minimum to Maximum	Screw hole number (2)
80 inches (203 cm)	110 to 121 inches (281 to 306 cm)	4
100 inches (254 cm)	138 to 151 inches (351 to 383 cm)	3
120 inches (305 cm)	166 to 181 inches (422 to 461 inches)	2
150 inches (381 cm)	208 to 227 inches (529 to 577 cm)	1

16:9 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1) Minimum to Maximum	Screw hole number (2)
80 inches (203 cm)	100 to 109 inches (255 to 278 cm)	4
100 inches (254 cm)	125 to 137 inches (319 to 348 cm)	3
120 inches (305 cm)	151 to 165 inches (383 to 418 cm)	2
150 inches (381 cm)	189 to 206 inches (479 to 523 cm)	1

Parent topic: Projector Placement

Projector Connections

You can connect the projector to a variety of computer, video, and audio sources to display presentations, movies, or other images, with or without sound.

• Connect any type of computer that has a standard video output (monitor) port or HDMI port

• For video projection, connect devices such as DVD players, gaming consoles, digital cameras, and camera phones with compatible video output ports.

• If your presentation or video includes sound, you can connect audio input cables, if necessary.

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 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-VGA Video Source

Connecting to an S-Video Video Source

Connecting to a Composite 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 optional HDMI cables and a splitter that supports HDMI signals. The HDMI connection provides the best image quality.

Note: If your video source has two HDMI ports, you may not need a splitter.

1. Connect an HDMI cable between your video source's HDMI output port and the splitter.

2. Connect an HDMI cable between each projector's **HDMI** port and the splitter.
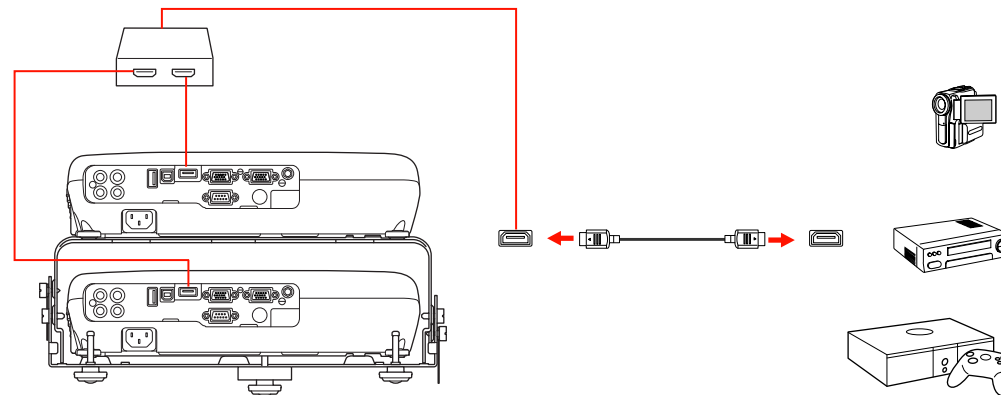
Note: The projector will convert the digital audio signal sent from your video source into a mono analog signal for the internal speaker or a stereo analog signal if you are connecting to external speakers.

Note: If you connected a game console, it may take a few seconds for your image to appear. To reduce the lag time, set your game console's input signal to a progressive signal of 480p or 720p. See your game console documentation for instructions.

Parent topic:

Connecting to a Component-to-VGA Video Source

If your video source has component video ports, you can connect it to the projector using a component-to-VGA video cable, two VGA computer cables, and a splitter that supports component video signals. Depending on your component ports, you may need to use an adapter cable along with a component video cable.

Note: If your video source has two sets of component video ports, you may not need a splitter.

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, then connect the VGA connector to the splitter.

2. Connect a VGA computer cable between each projector's **Computer** port and the splitter.
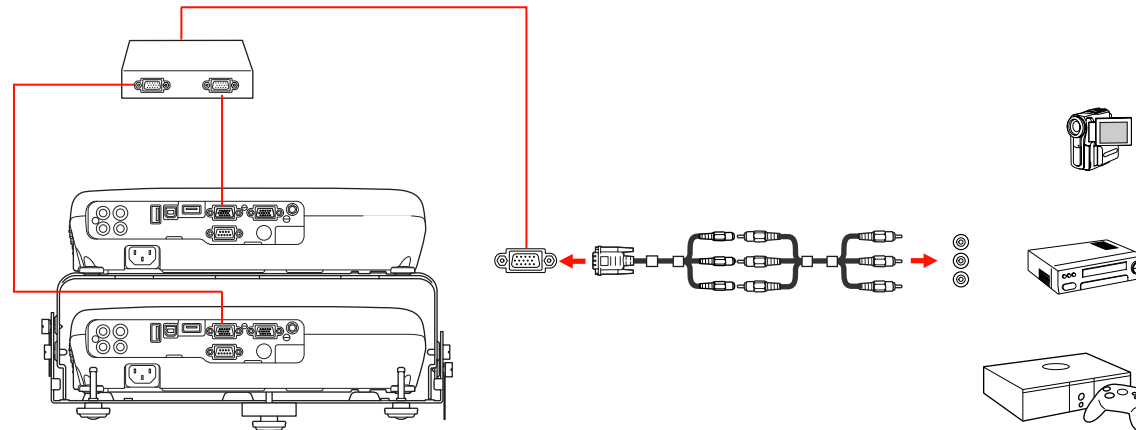
Note: If you choose the **Computer2** ports, you may need to change the **Monitor Out Port** setting in the projector's Extended menu.

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

Note: If you connected a game console, it may take a few seconds for your image to appear. To reduce the lag time, set your game console's input signal to a progressive signal of 480p or 720p. See your game console documentation for instructions.

Parent topic: Connecting to Video Sources

Related references

Projector Setup Settings - Extended Menu

Input Signal Settings - Signal Menu

Related tasks

Connecting to a Video Source for Sound

Connecting to an S-Video Video Source

If your video source has an S-Video port, you can connect it to the projector using optional S-Video cables and a splitter that supports S-Video signals.

Note: If your video source has two S-Video ports, you may not need a splitter.

1. Connect an S-Video cable between your video source's S-Video output port and the splitter.

2. Connect an S-Video cable between each projector's **S-Video** port and the splitter.
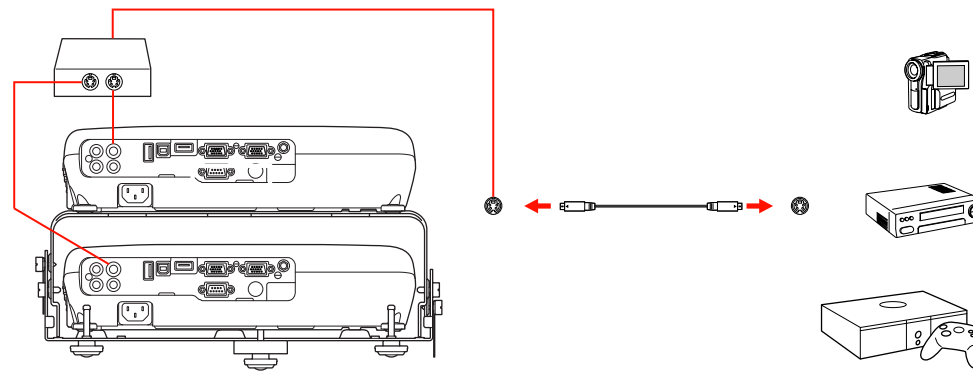
Note: If you connected a game console, it may take a few seconds for your image to appear. To reduce the lag time, set your game console's input signal to a progressive signal of 480p or 720p. See your game console documentation for instructions.

Parent topic: Connecting to Video Sources

Related tasks

Connecting to a Video Source for Sound

Connecting to a Composite Video Source

If your video source has a composite video port, you can connect it to the projector using optional RCA-style video or A/V cables and a splitter that supports composite video signals.

Note: If your video source has two composite video ports, you may not need a splitter.

1. Connect a cable with the yellow connector to your video source's yellow video output port. Then, connect the other end to the splitter.

2. Connect a cable between each projector's **Video** port and the splitter.
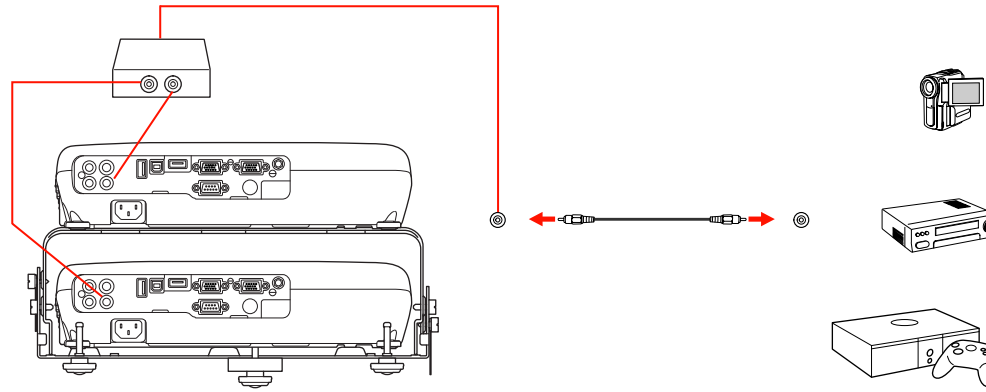
Note: If you connected a game console, it may take a few seconds for your image to appear. To reduce the lag time, set your game console's input signal to a progressive signal of 480p or 720p. See your game console documentation for instructions.

Parent topic: Connecting to Video Sources

Related tasks

Connecting to a Video Source for Sound

Connecting to a Video Source for Sound

You can play sound through the projector's speaker system if your video source has audio output ports. Connect the projector to the video source using an RCA audio cable.

1. Connect the audio cable to your video source's audio-out ports.

2. Connect the other end of the cable to the **Audio** ports on either one of the projectors.
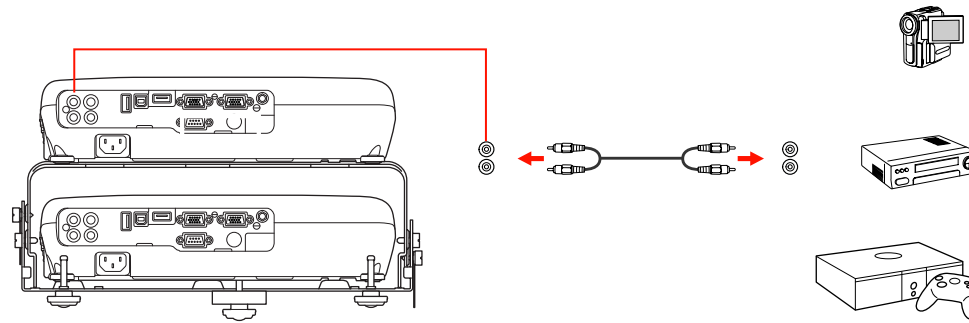
Parent topic: Connecting to Video Sources

Connecting to Computer Sources

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

Connecting to a Computer for VGA Video Using VGA Cables
Connecting to a Computer for VGA Video Using VGA Cables and a Splitter
Connecting to a Computer for HDMI Video and Audio
Connecting to a Computer for Sound

Parent topic: Projector Connections

Connecting to a Computer for VGA Video Using VGA Cables

You can connect the projector to your computer using VGA computer cables.

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

1. If necessary, disconnect your computer's monitor cable.

2. Connect a VGA computer cable to your computer's monitor port. Then connect the other end of the cable to the commander projector's **Computer1** port.

3. Connect a VGA computer cable between the commander projector's **Computer2** port and the receiver projector's **Computer1** port.
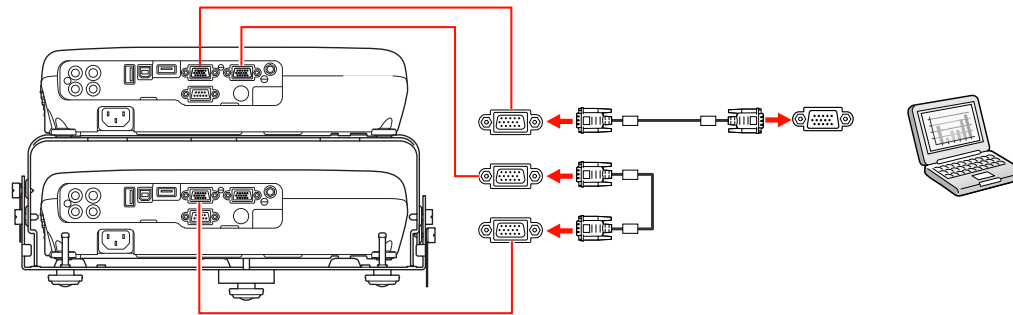
4. Change the **Monitor Out Port** setting in the projector's Extended menu to **Monitor Out**.

5. Tighten the screws on the VGA connectors.

Parent topic: Connecting to Computer Sources

Related references
Projector Setup Settings - Extended Menu

Related tasks
Connecting to a Computer for Sound

Connecting to a Computer for VGA Video Using VGA Cables and a Splitter

You can connect the projector to your computer using VGA computer cables and a splitter that supports VGA signals (if necessary).

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

1. If necessary, disconnect your computer's monitor cable.

2. Connect a VGA computer cable to your computer's monitor port. Then connect the other end of the cable to the splitter.

3. Connect a VGA computer cable between each projector's **Computer** port and the splitter.
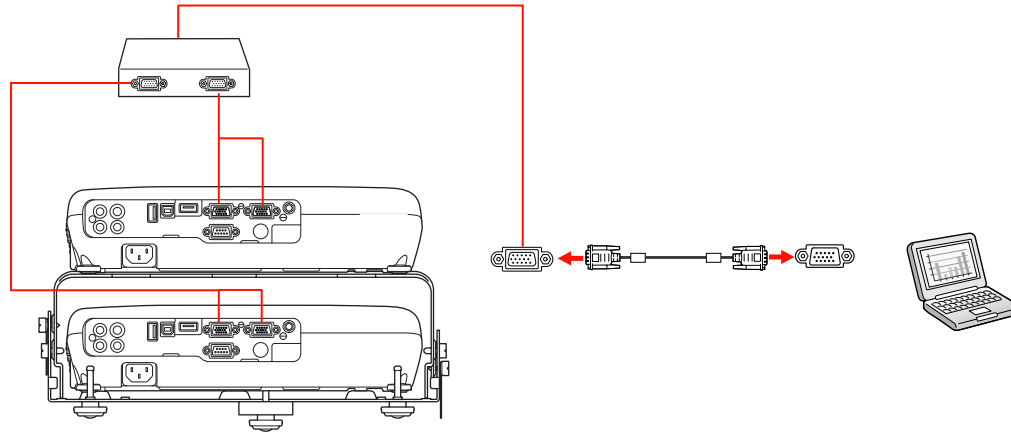
Note: If you choose the **Computer2** ports, you may need to change the **Monitor Out Port** setting in the projector's Extended menu.

4. Tighten the screws on the VGA connectors.

Parent topic: Connecting to Computer Sources

Related references

Projector Setup Settings - Extended Menu

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 optional HDMI cables and a splitter that supports HDMI signals.

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

1. Connect an HDMI cable between your computer's HDMI output port and the splitter.

2. Connect an HDMI cable between each projector's **HDMI** port and the splitter.
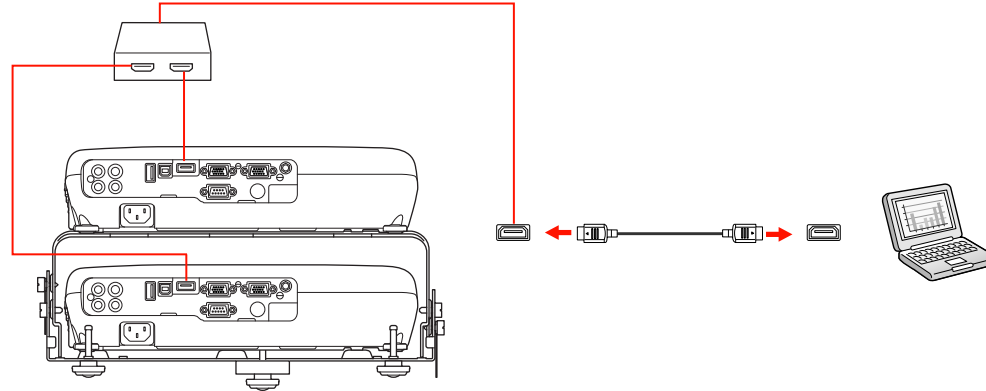
Note: The projector will convert the digital audio signal sent from your computer into a mono analog signal for the internal speaker or a stereo analog signal if you are connecting to external speakers.

Parent topic: Connecting to Computer Sources

Connecting to a Computer for Sound

If your computer presentation includes sound and you did not connect it using the projector's **USB-B** or **HDMI** ports, you can still play sound through the projector's speaker system. Just connect an optional stereo mini-jack adapter cable (with one 3.5 mm mini-plug and two RCA plugs).

1. Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.

2. Connect the other end of the cable to the **Audio** ports on one of the projectors.
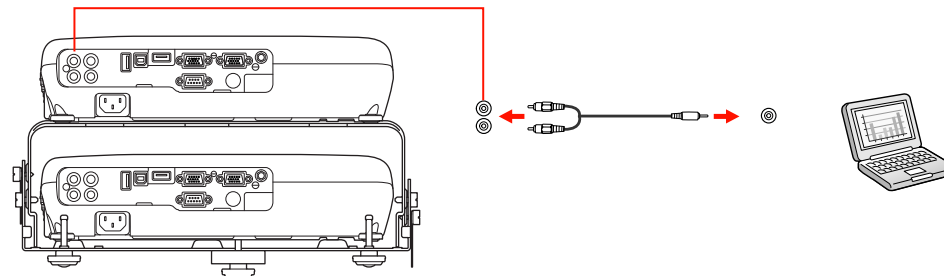
Parent topic:

Connecting to an External Computer Monitor

If you connected the projector to a computer using a **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.

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** port. If there are two computer ports, make sure you use the **Computer1** port.

2. Connect the external monitor's cable to the **Monitor Out** port on either one of the projectors.
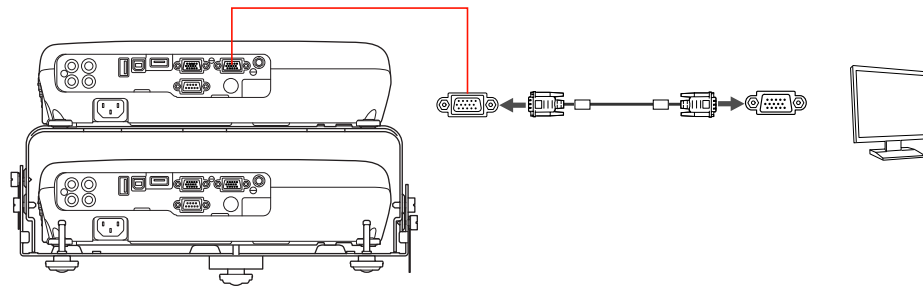
Note: You may need to change the **Monitor Out Port** setting in the projector's Extended menu.

Parent topic:

Related references

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.

Note: The projector's built-in speaker system is disabled when you connect external speakers.

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

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 the **Audio Out** port on either one of the projectors.
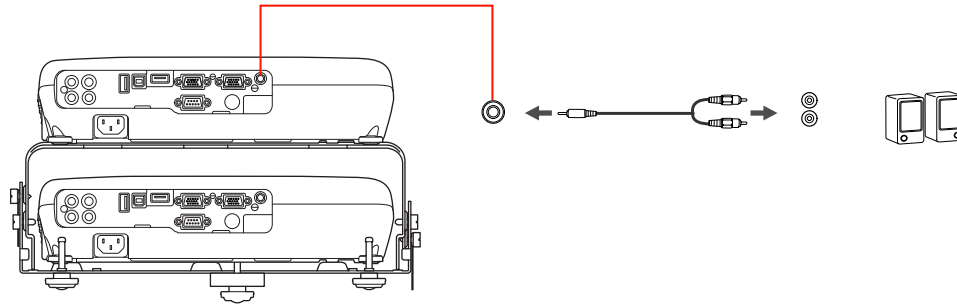
Parent topic: Projector Connections

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. Open the battery cover as shown.
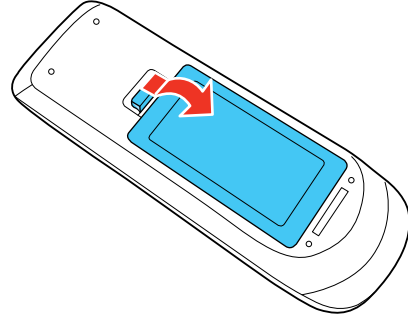
2. Insert the batteries with the **+** and **–** ends facing as shown.
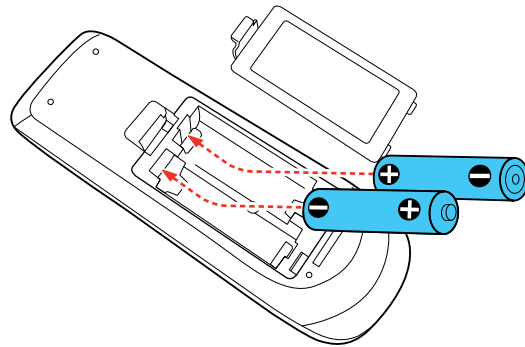
3. Close the battery cover and press it down until it clicks into place.
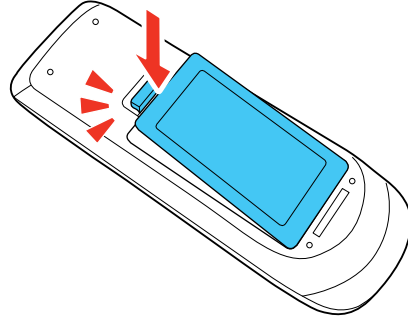
Warning: Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

Parent topic: Setting Up the Projector

Related references

Remote Control Specifications

Opening the Lens Covers

1. To open the projectors' lens covers, slide each projector's **A/V Mute** slide lever.
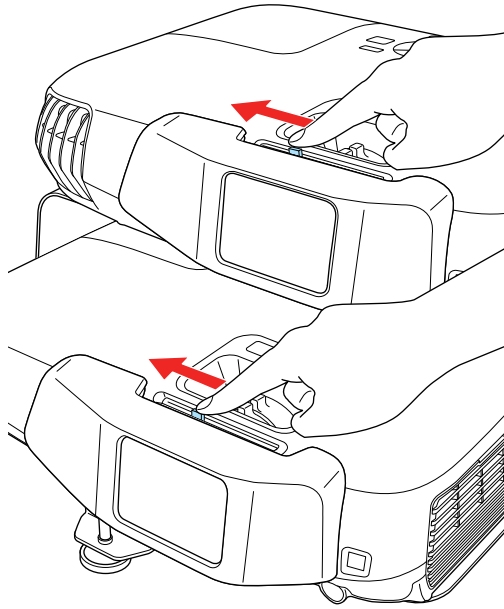
2. To cover the lenses or temporarily turn off the projected picture and sound, slide the **A/V Mute** slide covers closed.

Parent topic: Setting Up the Projector

Using Basic Projector Features

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

Turning On the Product

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

1. Open the projectors' lens covers.
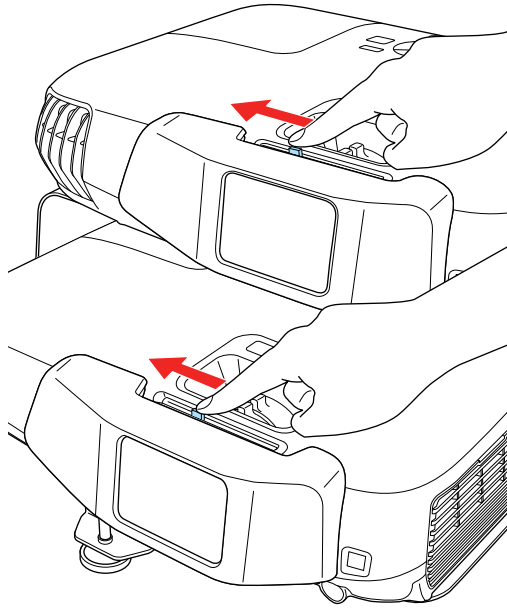
2. Connect the power cords to the projectors' power inlets.
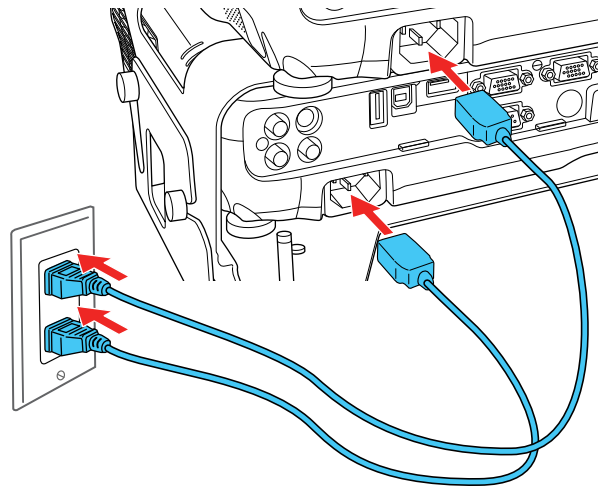
3. Plug the power cords into an electrical outlet.

   The projectors' power lights turn orange. This indicates that the product is receiving power, but is not yet turned on (it is in standby mode).

   Note: With **Direct Power On** turned on, the product turns on as soon as you plug it in.

4. Press the power button on the commander projector or the remote control to turn on the product.

   The projectors beep and the power lights flash green as the product warms up. After about five seconds, the power lights stop flashing and turn green.

   Warning: Never look into the projector lenses when the lamps are on. This can damage your eyes and is especially dangerous for children.

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

- Verify the lens covers are open all the way.
- 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 remote control to detect the video source.

Parent topic: Using Basic Projector Features

Related references
Projector Setup Settings - Extended Menu

Turning Off the Product

Before turning off the product, 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. Lamp life will vary depending upon mode selected, environmental conditions, and usage. Brightness decreases over time.

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

   The product displays a shutdown confirmation screen.

Power Off?

Yes: Press ⏻ button
No : Press any other button

2. Press the power button again. (To leave it on, press any other button.)

   The projectors beep twice, the lamps turn off, and the power lights turns orange.

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

   Caution: Do not turn the projector on immediately after turning it off. Turning the projector on and off frequently may shorten the life of the lamp.

3. To transport or store the product, make sure the power lights are orange (but not flashing), then unplug the power cords.
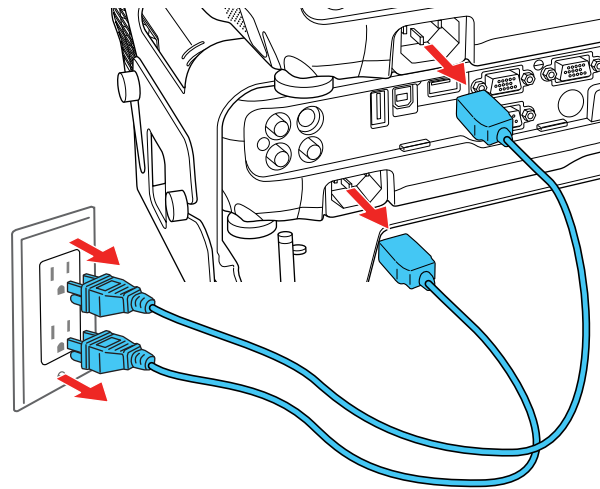
   Caution: To avoid damaging the projectors or lamps, never unplug either power cord when the power lights are green or flashing orange.

4. Close the projectors' lens covers.
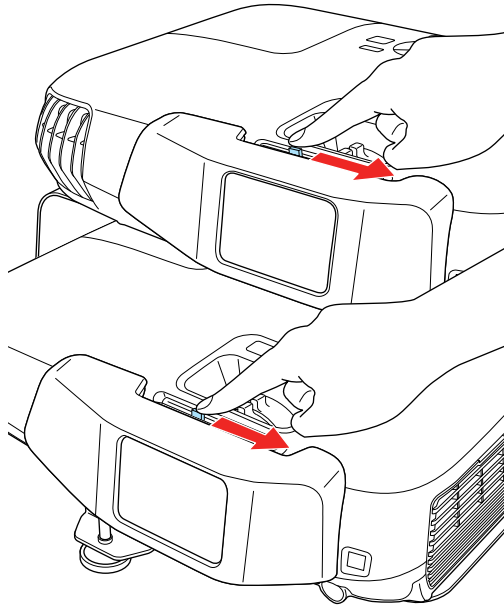
Parent topic: Using Basic Projector Features

Viewing 3D Images

You can view 3D images using your projector.

1. Connect a 3D-compatible video device to the projector using compatible HDMI cables. You may also need a splitter that supports 3D signals.

2. Turn on the video device, then turn on the projector.

3. Begin playback from the video device.

   Note: Make sure you set the video device to play content in 3D mode.

4. Press the **2D/3D** button on the remote control to activate 3D mode, if necessary.
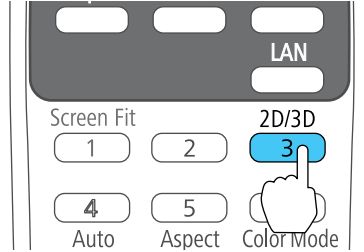
5. Put on your passive 3D glasses.

3D Viewing Range

Parent topic: Using Basic Projector Features

Related references

Additional Components

Related tasks

Connecting to an HDMI Video Source

Connecting to a Computer for HDMI Video and Audio

3D Viewing Range

When you view 3D images, make sure you have met these conditions:

• Screen size is 120 inches (305 cm) or less

• You are positioned within the viewing angle listed here

| 1 | 30º |
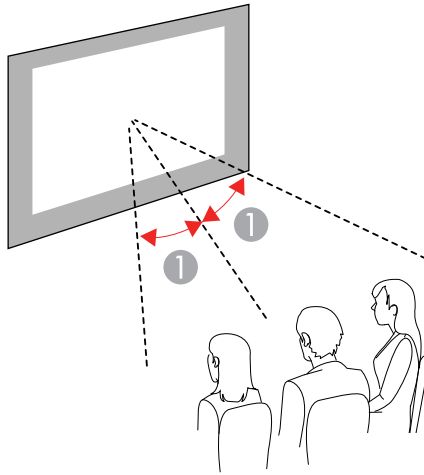
Parent topic: Viewing 3D Images

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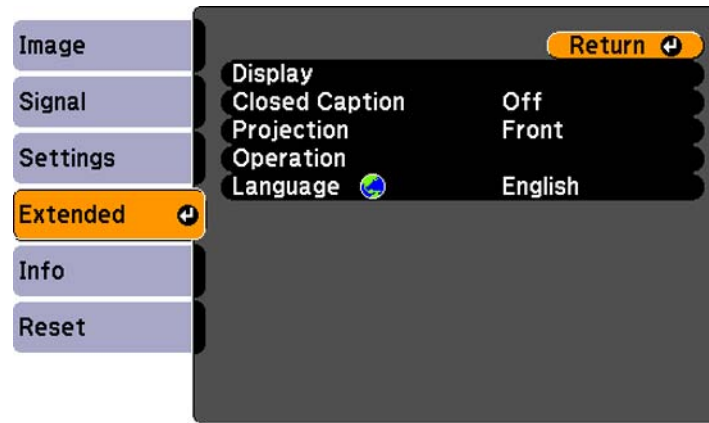
4. Select the **Language** setting and press **Enter**.
5. Select the language you want to use and press **Enter**.
6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

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. Rotate the front foot to raise or lower the image.
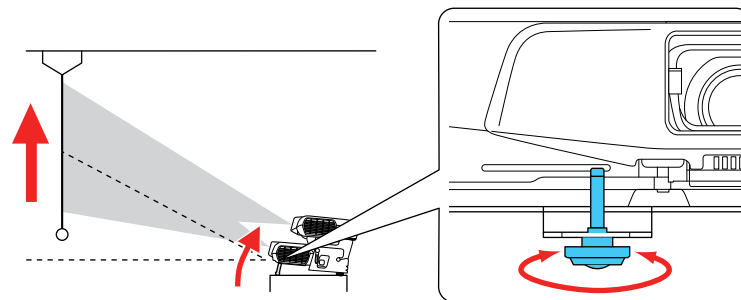
3. If the image is tilted, rotate the rear feet to adjust their height.
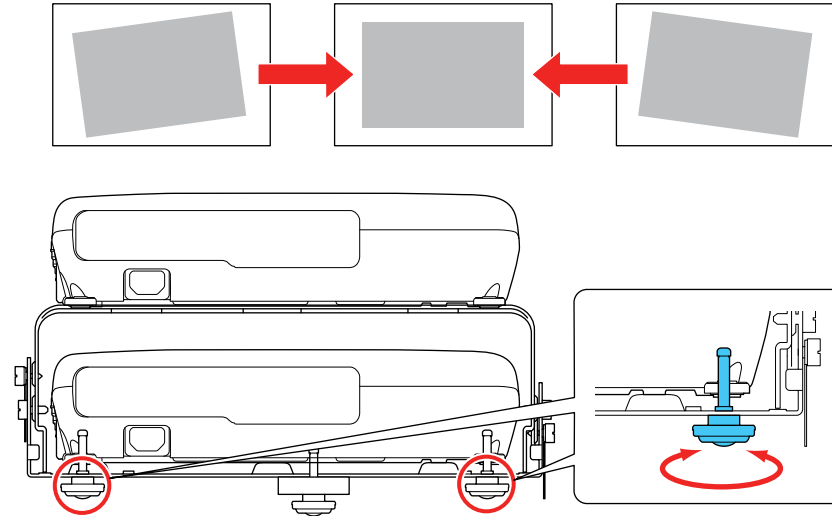
After you adjust the image, you must reapply the Screen Fit feature to correctly superimpose the projectors' images. See your *Setup Guide* for instructions.

Parent topic: Using Basic Projector Features

Resizing the Image With the Zoom Rings

1. Turn on the product and display an image.

2. To enlarge or reduce the image size, rotate the projectors' zoom rings.
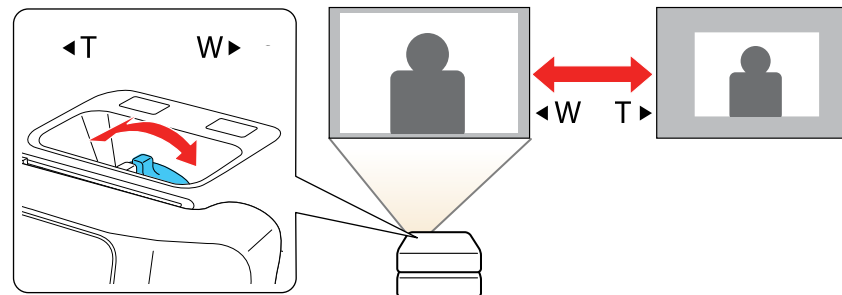
After you resize the image using the zoom rings, you must reapply the Screen Fit feature to correctly superimpose the projectors' images. See your *Setup Guide* for instructions.

Parent topic: Using Basic Projector Features

Focusing the Image Using the Focus Rings

1. Turn on the product and display an image.

2. To sharpen the image focus, rotate the projectors' focus rings.
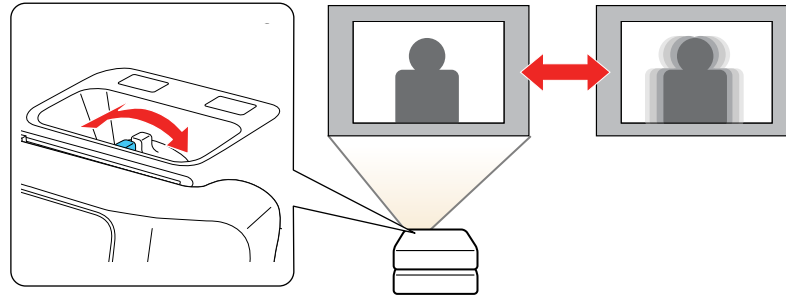
Parent topic: Using Basic Projector Features

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room. You can point it at the screen, or the front or back of the projector.

Make sure that you aim the remote control at the projector's receivers within the distance and angles listed here.
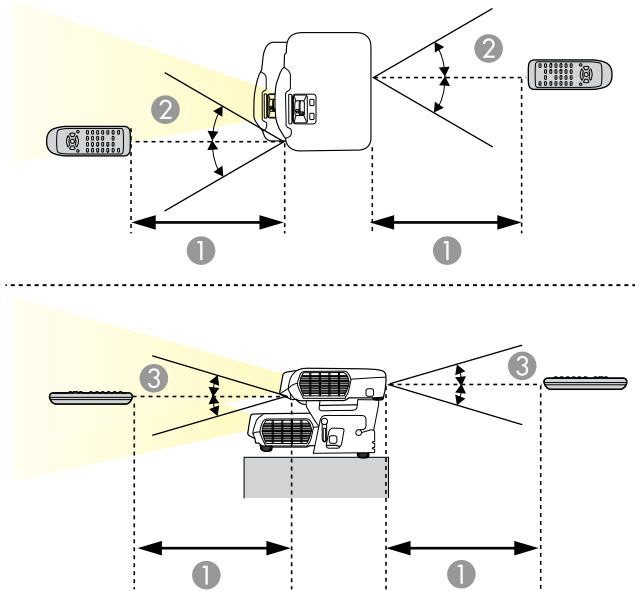
1	19.7 feet (6 m)
2	± 30º
3	± 15º

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

Selecting an Image Source

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

1. Make sure the connected image source you want to use is turned on.

2. For video image sources, insert a DVD or other video media and press its play button (if necessary).

3. Do one of the following:

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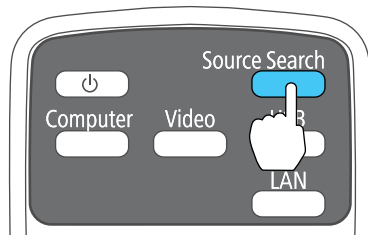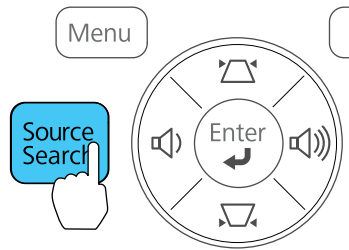
   • Press the button for the source you want on the remote control. If there is more than one port for that source, press the button again to cycle through the sources.
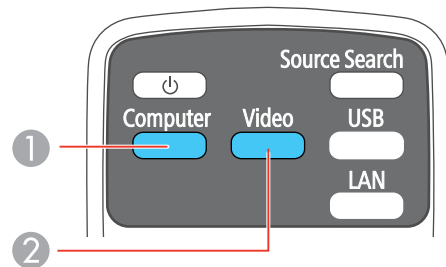
   1   Computer port sources

2   Video and HDMI sources

Parent topic: Using Basic Projector Features

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.

You can change the projection mode using the remote control or by changing a menu setting.

Note: To view 3D images, you must project onto the front of a silver screen designed for passive 3D images.

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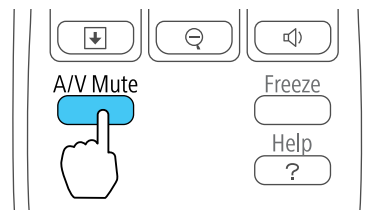
The image disappears briefly and reappears flipped top-to-bottom.

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

Image		Return ↵
	Display	
Signal	Closed Caption	Off
	Projection	Front
Settings	Operation	
	Language 🌐	English
Extended ↵		
Info		
Reset		
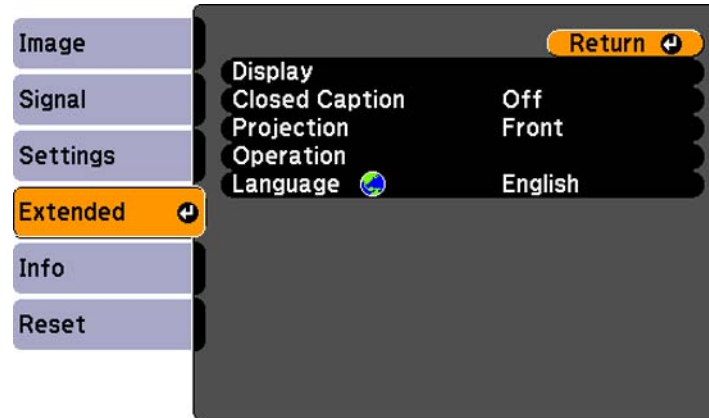
4. Select the **Projection** setting and press **Enter**.

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

Input Signal Settings - Signal Menu

Changing the Image Aspect Ratio

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

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

2. Press the **Aspect** button on the remote control.
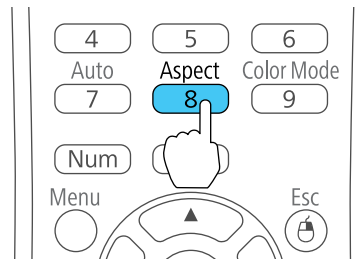
The shape and size of the displayed image changes, and the name of the aspect ratio appears briefly on the screen.

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

Parent topic: Image Aspect Ratio

Available Image Aspect Ratios

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

Note: When the projector is in 3D mode, the aspect ratio is automatically set to **Normal**.

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

Aspect ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal.
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
16:9	Converts the aspect ratio of the image to 16:9.
Full	Displays images using the full width of the projection area and maintains the aspect ratio of the image.
Zoom	Displays images using the full width of the projection area, but does not maintain the aspect ratio.
Native	Displays images as is (aspect ratio and resolution are maintained).

Note: The **Auto** aspect ratio setting is available only for HDMI image sources.

Parent topic: Image Aspect Ratio

Color Mode

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

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
Turning On Auto Iris

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.
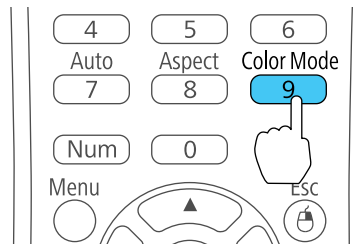
The image appearance changes and the name of the Color Mode appears briefly on the screen.

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:

2D Images

Color Mode	Description
Dynamic	Best for video games in a bright room
Presentation	Best for color presentations in a bright room
Theatre	Best for movies projected in a dark room

Color Mode	Description
Photo	Best for still images projected in a bright room
Sports	Best for television images in a bright room (video, S-Video, or composite video input only)
sRGB	Best for standard sRGB computer displays
Blackboard	Best for presentations onto a green chalkboard (adjusts the colors accordingly)
Whiteboard	Best for presentations onto a whiteboard (adjusts the colors accordingly)

3D Images

Color Mode	Description
Dynamic	Best for video games in a bright room
3D Presentation	Best for color presentations in a bright room
3D Theatre	Best for movies projected in a dark room

Parent topic: Color Mode

Turning On Auto Iris

In certain color modes, you can turn on the Auto Iris setting to automatically optimize the image 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**.

Image	Return
	Color Mode Photo
Signal	Auto Iris Off
Settings	
Extended	
Info	
Reset	
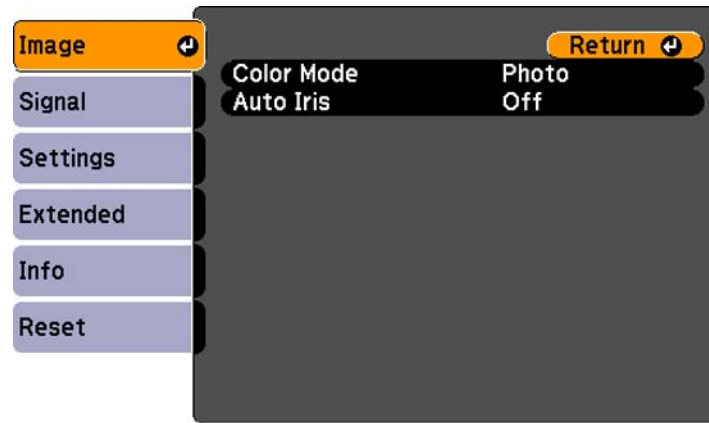
4. Select the **Auto Iris** setting and select **On**.

    Note: You can turn **Auto Iris** on or off for each Color Mode that supports the feature. You cannot change the **Auto Iris** setting when you are using a **Closed Caption** setting.

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

Parent topic: Color Mode

Controlling the Volume with the Volume Buttons

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

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

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 or these buttons on the control panel.
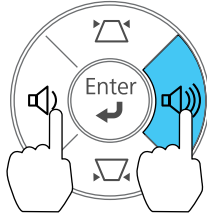
A volume gauge appears on the screen.

3. To set the volume to a specific level for an input source, you can set the volume using a projector menu.

Parent topic: Using Basic Projector Features

Related references

Projector Parts - Remote Control

Projector Feature Settings - Settings Menu

Adjusting Projector Features

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

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.

1. Press the **A/V Mute** button on the remote control to temporarily stop projection and mute any sound.
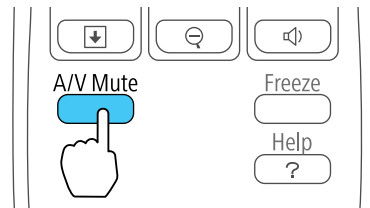
2. To turn the picture and sound back on, press **A/V Mute** again.

Note: You can also stop projection using the **A/V Mute** slide levers on the projectors.

Parent topic: Adjusting Projector Features

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.
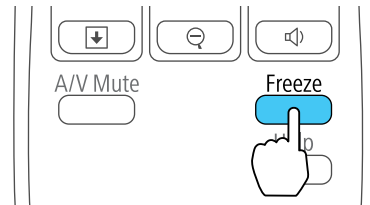
Note: The superimposed images may slip out of sync while the video action is stopped.

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.

1. Press the **E-Zoom +** button on the remote control.
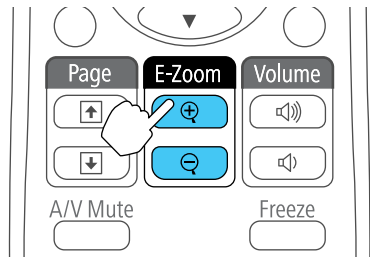
You see a crosshair on the screen indicating the center of the zoom area.

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. Press and hold the **E-Zoom +** button to zoom in more quickly.

   • 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

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.
- Security cabling to physically cable the projector in place.

Password Security Types
Locking the Projector's 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 Protect** prevents anyone from using the projector without first entering a password.
- **User's Logo Protect** prevents anyone from changing the screen the projector can display when it turns on or when you use the A/V Mute feature.

Setting a Password and Selecting Password Security Types
Entering a Password to Use the Projector

Parent topic: Projector Security Features

Setting a Password and Selecting Password Security Types

To use password security, you must set a password.

1. Turn off the product.
2. Wait a few moments, then hold down the **1** button on the remote control and press the power button.

   The commander projector turns on. (The receiver projector stays off.)

3. After the projector warms up, hold down the **Freeze** button on the remote control until you see the Password Protect menu. This takes about five seconds.

[Password Protect]

Power On Protect   ↵Off
User's Logo Protect   Off
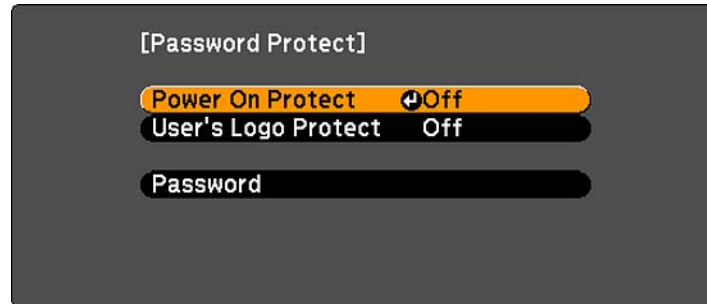
Password

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

You see the prompt "Change the password?".

5. Select **Yes** and press **Enter**.

6. Hold down the **Num** button on the remote control and use the numeric buttons to set a four-digit password.
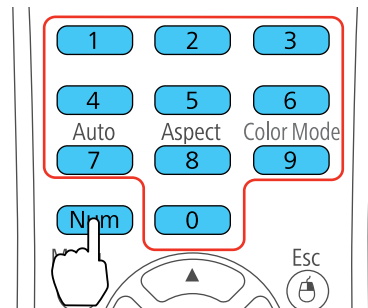
The password displays as **** as you enter it. Then you see the confirmation prompt.

7. Enter the password again.

You see the message "Password accepted."

8. Press **Esc** to return to the Password Protect menu.

9. To prevent unauthorized use of the projector, select **Power On Protect**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.

10. To prevent changes to the User's Logo screen or related display settings, select **User's Logo Protect**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.

11. Press the power button on the remote control.

   The commander projector turns off.

12. Wait a few moments, then press the power button on the projector or the remote control.

   The commander and receiver projectors turn on and your password security is now enabled.

13. Make a note of the password and keep it in a safe place in case you forget it.

You can attach the Password Protect sticker to the projector as an additional theft deterrent.

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 Protect** password is enabled, you see a prompt to enter a password whenever you turn on the projector.

```
[Password]

Enter the password.



See your documentation for more information.
```

```
[0-9] :Enter
```
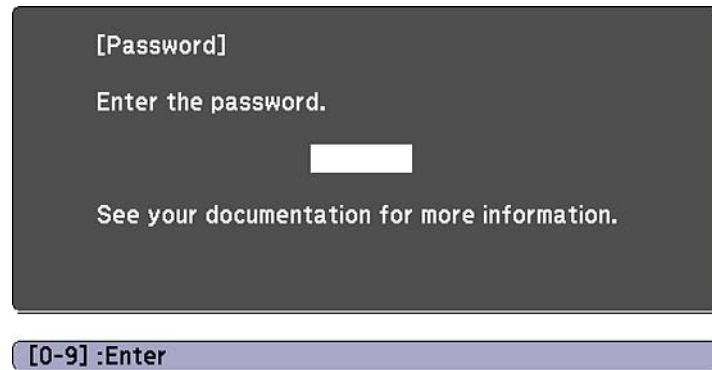
You must enter the correct password to use the projector.

1. Hold down the **Num** button on the remote control while you enter the password using the numeric buttons.
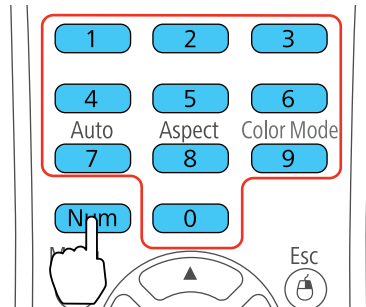
The password screen closes.

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. 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

Related references

Where to Get Help

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**.

Image		Return ↵
Signal	Adjust Commander Pos.	
	Control Panel Lock	Full Lock
Settings ↵	Power Consumption	ECO
	Volume	0
Extended	Remote Receiver	Front/Rear
	User Button	Power Cons...
Info		
Reset		
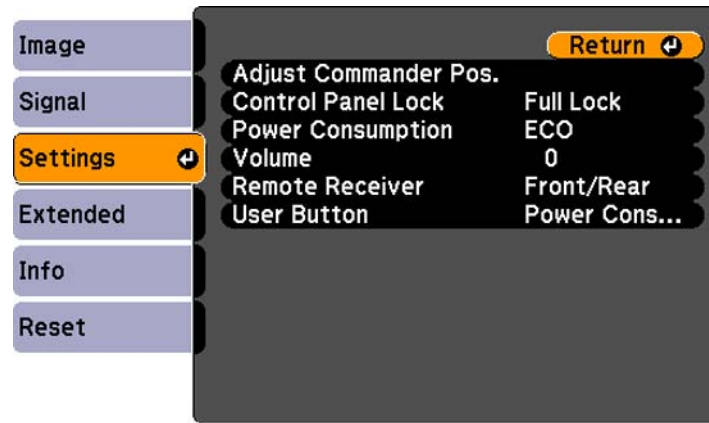
3. Select the **Control Panel Lock** setting and press **Enter**.

4. 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.

5. Select **Yes** and press **Enter**.

Unlocking the Projector's Buttons

Parent topic: Projector Security Features

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.

Parent topic: Locking the Projector's Buttons

Installing a Security Cable

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

- Use the security slots on the back of the projectors to attach Kensington Microsaver Security systems, available from Epson.

- Use the security cable attachment points on the projectors to attach wire cables and secure them to a room fixture or heavy furniture.
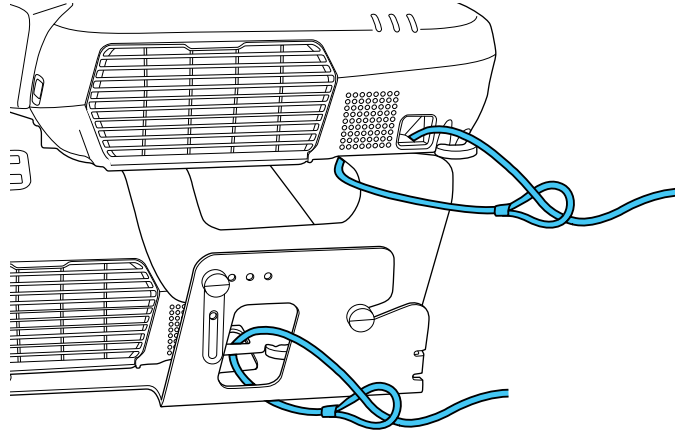
Parent topic: Projector Security Features

Related references

Optional Equipment and Replacement Parts

Using the Projectors Individually

You can use either projector individually if necessary. You can leave them stacked together or remove them from their stacking mounts.

Turning On and Using a Single Projector

Separating the Projectors

Parent topic: Adjusting Projector Features

Turning On and Using a Single Projector

You can turn on one of the stacked projectors and leave the other projector turned off. You might need to do this if one projector's lamp is not functioning and you have not yet replaced it, for example.

- To turn on only the commander projector, hold down the **1** button on the remote control and press the power button.

- To turn on only the receiver projector, hold down the **2** button on the remote control and press the power button.

When the projector is in this mode, it functions like a PowerLite W16 projector, but without the following PowerLite W16 features:

- 3D
- Projection from an external USB device
- Automatic vertical and horizontal keystone correction
- Screen Fit
- Focus Help

See the PowerLite W16 User's Guide for instructions when using the projector in this mode.

Parent topic: Using the Projectors Individually

Separating the Projectors

You can deactivate the stack mode setting and separate the projectors for use individually.

1. Turn on the product.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
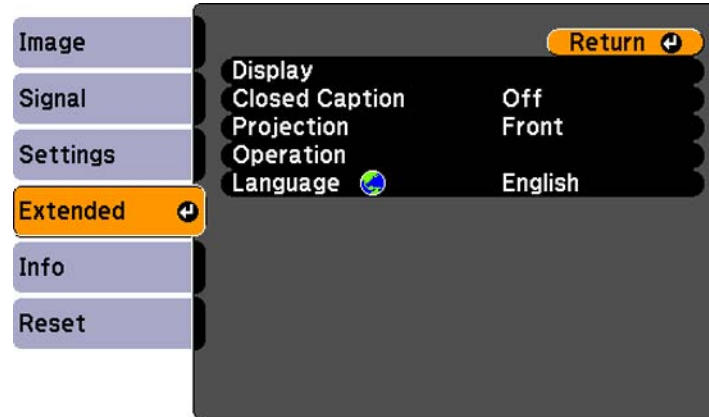
4. Select the **Operation** setting and press **Enter**.
5. Select the **Stack Mode** setting and press **Enter**.
6. Select **Off** and press **Enter**.

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

8. Turn off the product.

9. Unplug the power cords.

10. Disconnect the USB cable.

11. Remove the stacking mount angle adjustment screws (on both sides).
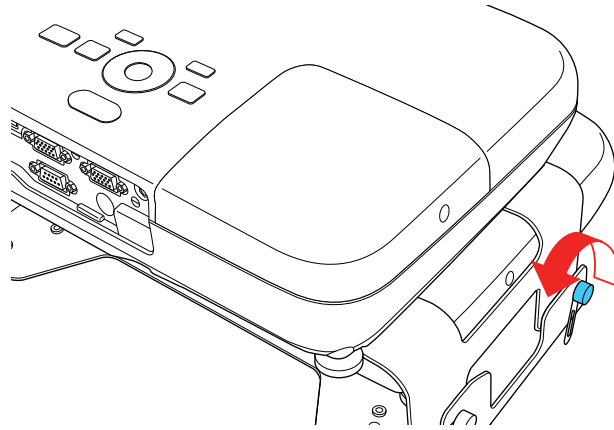
12. Loosen the stacking mount connector screws (on both sides).
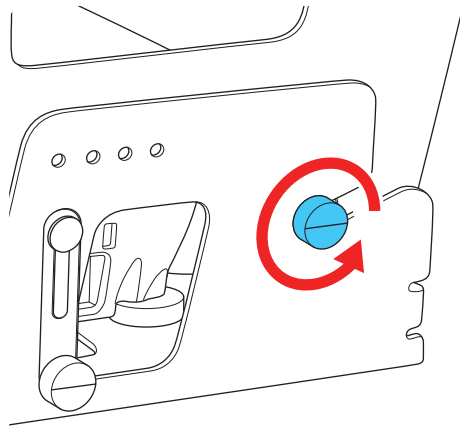
13. Separate the commander and receiver projectors.
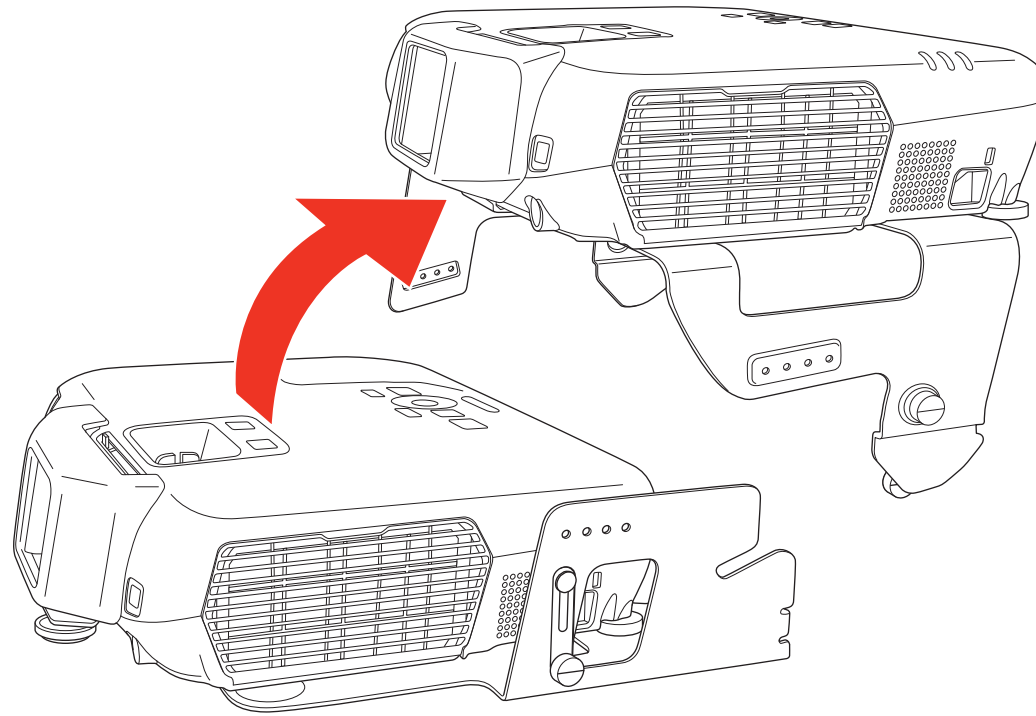
14. Remove the stacking mounts from the projectors.
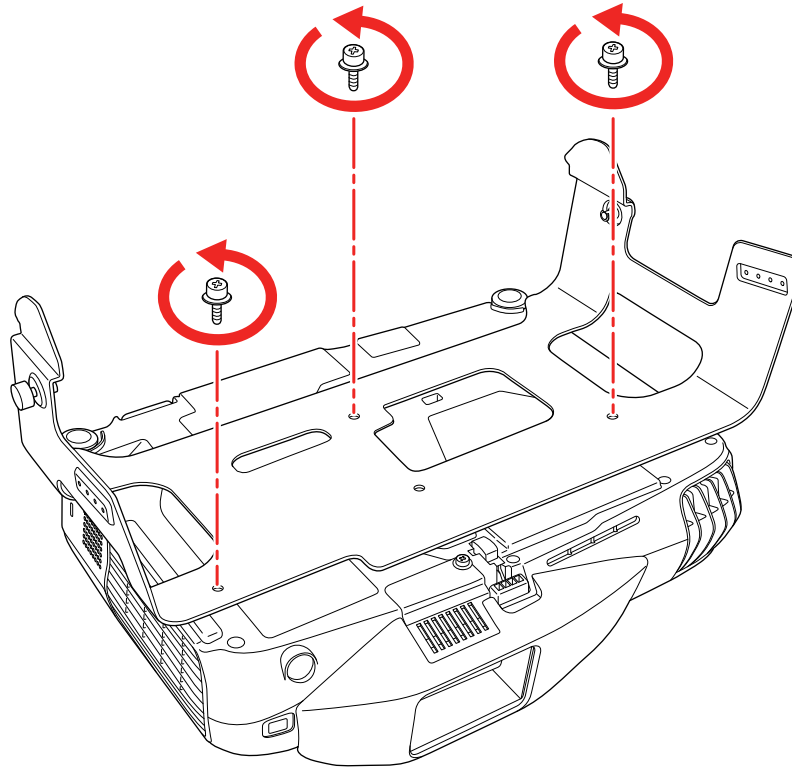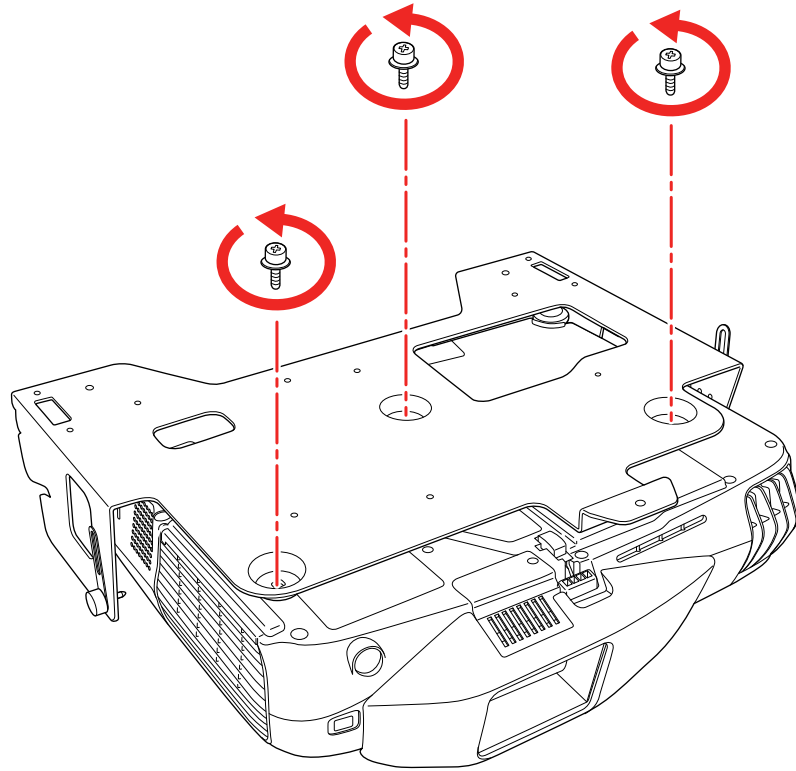
When the projector's **Stack Mode** setting is set to **Off**, it functions like a PowerLite W16 projector, but without 3D capabilities.

See the PowerLite W16 User's Guide for instructions when using the projector with stack mode deactivated.

Restacking the Projectors

Parent topic: Using the Projectors Individually

Restacking the Projectors

You can restack the projectors after separating them and set them up for use together again.

Note: This procedure requires you to turn each projector on and off individually. To avoid turning on both projectors accidentally, do not use the remote control during this process.

1. Turn on one of the projectors using the power button on the control panel.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
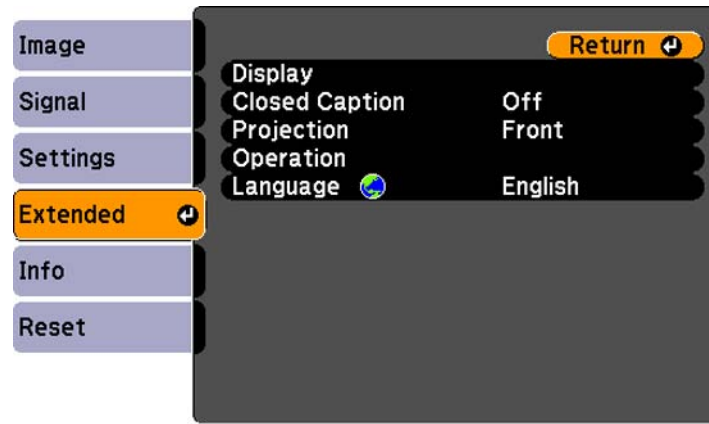
Image			Return ⏎
	Display		
Signal	Closed Caption	Off	
	Projection	Front	
Settings	Operation		
	Language 🌐	English	
Extended ⏎			
Info			
Reset			

4. Select the **Operation** setting and press **Enter**.
5. Select the **Stack Mode** setting and press **Enter**.
6. Do one of the following:
   - If you are using the commander projector, select **Commander** and press **Enter**. The commander projector has a **1** label on the bottom.
   - If you are using the receiver projector, select **Receiver** and press **Enter**. The receiver projector has a **2** label on the bottom.
7. Press **Menu** or **Esc** to exit the menus.
8. Turn off the projector using the power button on the control panel.
9. Repeat these steps for the other projector.
10. Reattach the stacking mounts to the projectors.

   Note: Match the numbers on the stacking mounts to the numbers on the projectors.
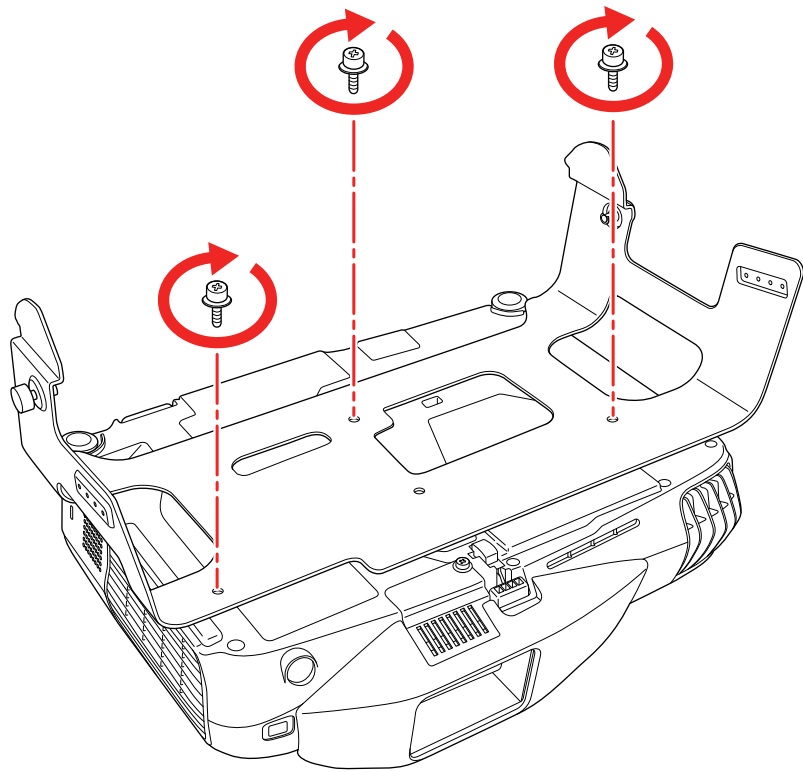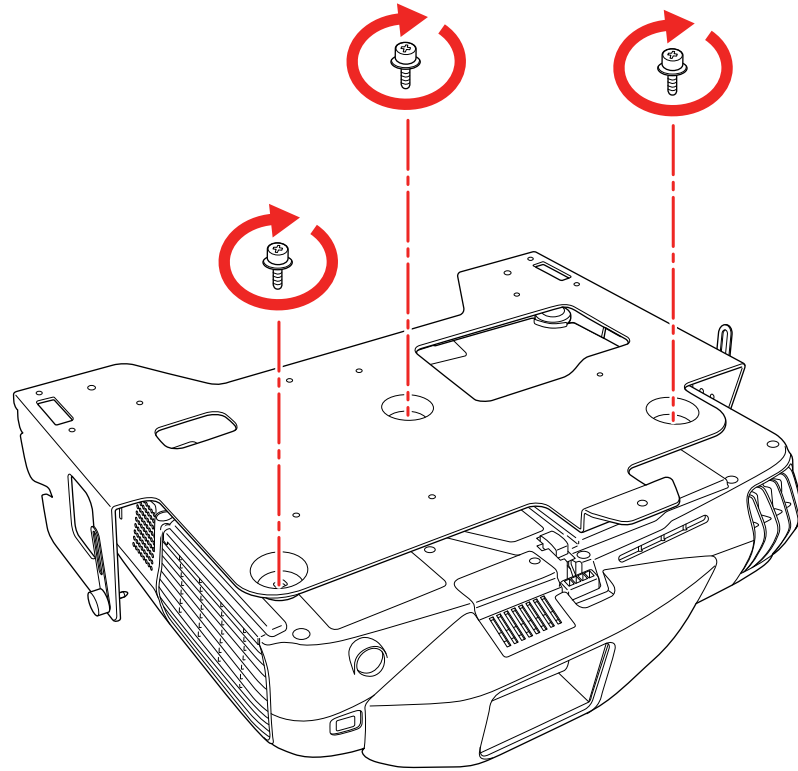
11. See the *Setup Guide* to continue the stacking process.

Parent topic: Separating the 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 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.
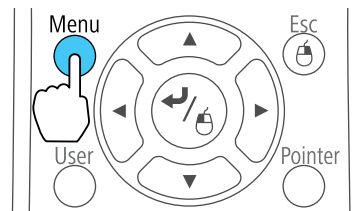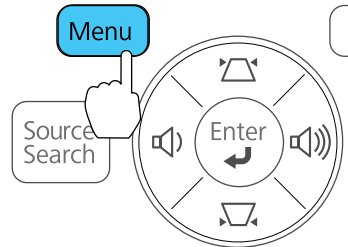
You see the menu screen displaying the Image menu settings.

Image	⏎		Return ⏎
		Color Mode	Photo
Signal		Auto Iris	Off
Settings			
Extended			
Info			
Reset			
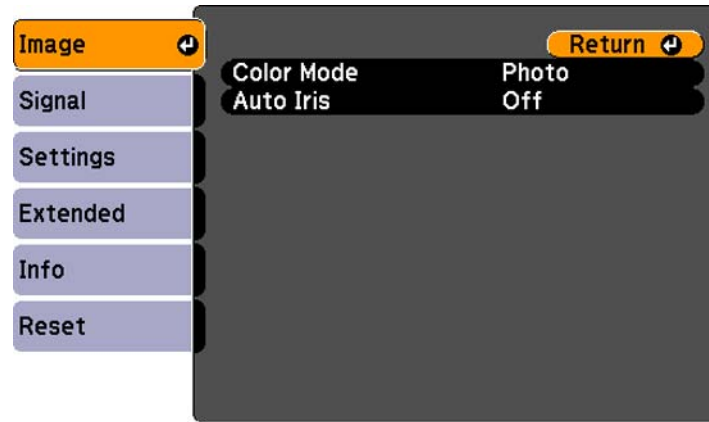
2. Press the up or down arrow buttons to move through the menus listed on the left. The settings for each menu are displayed on the right.

   Note: The available settings depend on the current input source.

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.
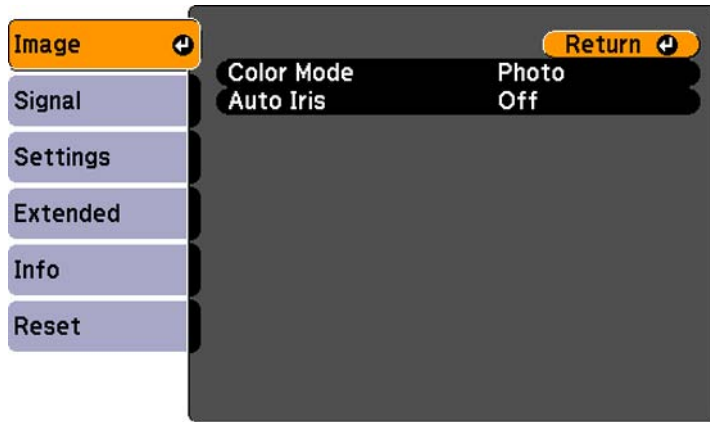
Image	↵		Return ↵
Signal		Color Mode	Photo
Settings		Auto Iris	Off
Extended			
Info			
Reset			

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
Auto Iris	**On** **Off**	Adjusts the projected luminance based on the image brightness when certain Color Modes are selected

Parent topic: Adjusting the Menu Settings

Related references

Available Color Modes

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.

	Return ↵
Image	
Signal ↵	Auto Setup Off
	Resolution Auto
Settings	Input Signal Auto
	Aspect 4:3
Extended	
Info	
Reset	

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

Setting	Options	Description
Auto Setup	**On** **Off**	Automatically optimizes computer image quality (when On)
Resolution	**Auto** **Normal** **Wide**	Sets the input signal resolution if not detected automatically using the **Auto** option
3D Setup	**3D Display** **3D Format** **Inverse 3D Image** **3D Viewing Notice**	Selects various 3D options **3D Display**: enables 3D mode **3D Format**: selects the 3D format **Inverse 3D Image**: reverses the images projected for the left and right eyes (only enable if 3D images are not displaying correctly) **3D Viewing Notice**: enables the viewing notice displayed when 3D mode is activated

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Setting	Options	Description
Progressive	Off Video Film/Auto	Sets whether to convert interlaced-to-progressive signals for certain video image types **Off**: for fast-moving video images **Video**: for most video images **Film/Auto**: for movies, computer graphics, and animation
Noise Reduction	Off NR1 NR2	Reduces flickering in analog images in two levels
HDMI Video Range	Normal Expanded Auto	Sets the video range to match the setting of the device connected to the HDMI input port **Auto**: detects the video range automatically **Expanded**: normally for images from a computer; can also be selected if the image is too dark **Normal**: normally for images from a device other than a computer; can also be selected if the black areas of the image are too bright
Input Signal	Auto RGB Component	Specifies the signal type from input sources connected to computer ports **Auto**: detects signals automatically **RGB**: corrects color for computer/RGB video inputs **Component**: corrects color for component video inputs

Setting	Options	Description
Video Signal	**Auto** Various video standards	Specifies the signal type from the input sources connected to the video ports **Auto**: detects signals automatically
Aspect	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio) for the selected input source
Overscan	**Auto** **Off** **4%** **8%**	Changes the projected image ratio to make the edges visible by a selectable percentage or automatically

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
Adjust Commander Pos.	**Pattern Color (Commander)** **Pattern Color (Receiver)** **Start Adjustments**	Selects options related to the Screen Fit process **Pattern Color (Commander)**: selects the commander frame color **Pattern Color (Receiver)**: selects the receiver frame color **Start Adjustments**: starts the screen fit process (see your *Setup Guide* for more information)
Control Panel Lock	**Full Lock** **Partial Lock** **Off**	Controls projector button locking to secure the projector **Full Lock**: locks all buttons **Partial Lock**: locks all buttons except the power button **Off**: no buttons locked
Power Consumption	**Normal** **ECO**	Selects the brightness mode of the projector lamp **Normal**: sets maximum lamp brightness **ECO**: reduces lamp brightness and fan noise, and saves power and lamp life
Volume	Varying levels available	Adjusts the volume of the projector's speaker system
Remote Receiver	**Front** **Rear** **Front/Rear** **Off**	Limits reception of remote control signals by the selected receiver; **Off** turns off all receivers

Setting	Options	Description
User Button	Power Consumption Info Progressive Closed Caption Resolution	Assigns a menu option to the **User** button on the remote control for one-touch access

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
Display	**Messages** **Display Background** **Startup Screen** **A/V Mute**	Selects various display options **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 **A/V Mute**: selects the screen color or logo to display when A/V Mute is turned on
Closed Caption	**Off** **CC1** **CC2**	Controls use of closed captions and selects the closed caption type (closed captions are only visible for NTSC signals connected through the **S-Video** or **Video** ports)
Projection	**Front** **Front/Ceiling** **Rear** **Rear/Ceiling**	Selects the way the projector faces the screen so the image is oriented correctly

Setting	Options	Description
Operation	**Direct Power On** **Sleep Mode** **Sleep Mode Timer** **Lens Cover Timer** **High Altitude Mode** **Monitor Out Port** **Stack Mode**	Selects various operation options **Direct Power On**: lets you turn on the projector without pressing the power button **Sleep Mode**: automatically turns off the projector after an interval of inactivity **Sleep Mode Timer**: sets the interval for Sleep Mode **Lens Cover Timer**: automatically turns off the projector after 30 minutes if the lens cover is closed **High Altitude Mode**: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m) **Monitor Out Port**: specifies the function of the Monitor Out/Computer2 port **Stack Mode**: sets the stack configuration for each projector
Language	Various languages available	Selects the language for projector menu and message displays (not changed by **Reset** option)

Parent topic:

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. The information displayed depends on the currently selected input source.

First select either the commander projector or receiver projector in the menu and press **Enter**. You see a menu like this:

```
Image              [Info - Commander 1]        Return

Signal             Lamp Hours
                      Normal            0 H
Settings              ECO               0 H
                   Source            Computer1
Extended           Input Signal      ----
                   Resolution           0 x    0
Info               Refresh Rate       0.00 Hz
                   3D Format         ----
Reset              Sync Info         SGNN 00000
                   Status
                   Serial Number
```
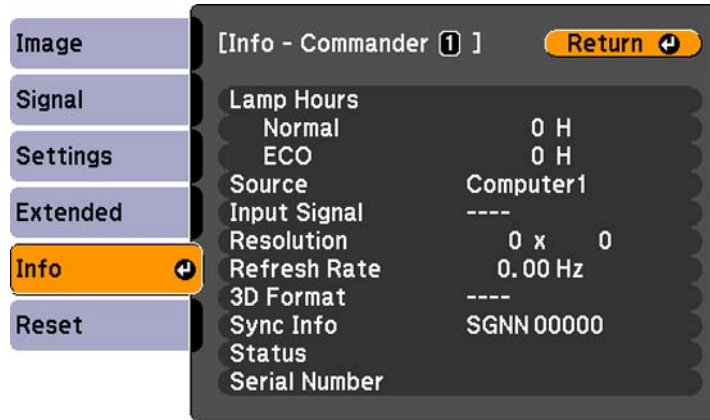
Note: The lamp usage timer does not register any hours until you have used the lamp for at least 10 hours. Available settings depend on the current input source.

Information item	Description
Lamp Hours	Displays the number of hours (**H**) the lamp has been used in **Normal** and **ECO** Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon
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
Video Signal	Displays the video signal format of the current input source
Refresh Rate	Displays the refresh rate of the current input source
3D Format	Displays the 3D format of the current input source
Sync Info	Displays information that may be needed by a service technician

Information item	Description
Status	Displays information about projector problems that may be needed by a service technician
Serial Number	Displays the projector's serial number

Parent topic: Adjusting the Menu Settings

Related references

Optional Equipment and Replacement Parts

Projector Lamp Specifications

Projector Reset Options - Reset Menu

You can reset the projectors' lamp usage timers to zero when you replace the lamps using the **Reset Lamp Hours** options.
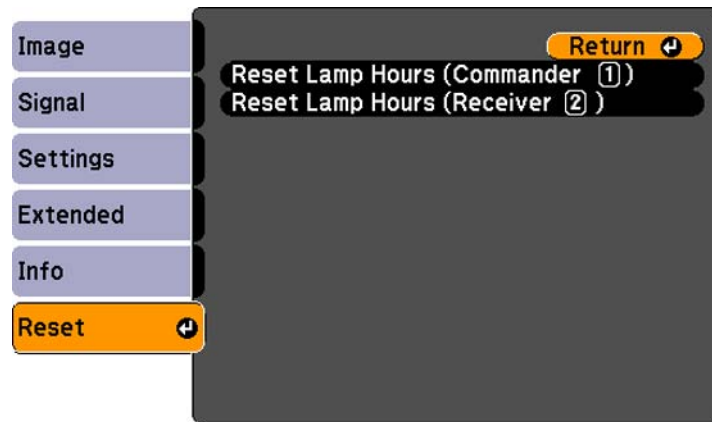
Parent topic: Adjusting the Menu Settings

Maintaining and Transporting the Projector

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

Projector Maintenance
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 lamp, air filter, and remote control batteries. If any other part needs replacing, contact Epson or an authorized Epson servicer.

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

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 Polarizing Filters
Cleaning the 3D Glasses
Cleaning the Projector Case
Air Filter and Vent Maintenance
Projector Lamp Maintenance
Replacing the Remote Control Batteries

Parent topic: Maintaining and Transporting the Projector

Related references

Where to Get Help

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 lamp 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 Polarizing Filters

To remove dust, dirt, or smudges from the polarizing filters, use a soft, dry, lint-free cloth.
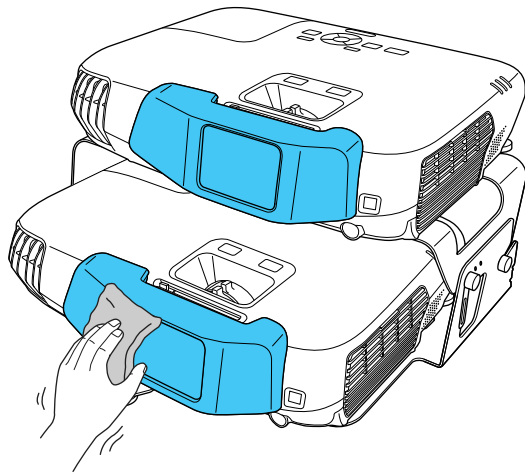
Caution: Do not use any abrasive materials to clean the filters and do not handle them roughly as they can be easily damaged.

Parent topic: Projector Maintenance

Cleaning the 3D Glasses

To remove dust, dirt, smudges, or fingerprints from the glasses, use a soft, dry, lint-free cloth.
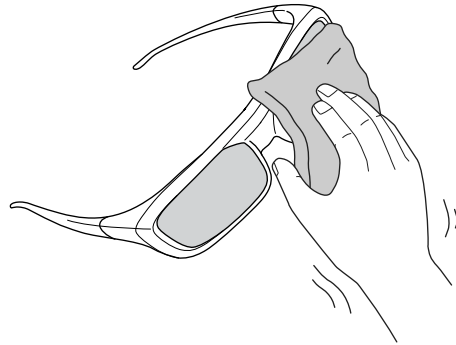
Caution: Do not use paper towels or any other abrasive materials to clean the glasses.

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

Damage due to the failure to properly maintain the projector or its filter may not be covered by the projector or lamp Limited Warranties.

Cleaning the Air Filter and Vents
Replacing the Air Filter

Parent topic: Projector Maintenance

Related references

Projector Light Status

Cleaning the Air Filter and Vents

Clean the product's air filters or vents if they get dusty, or if you see a message telling you to clean them.

Note: Along with any message, you will also see an indicator like this. Projector 1 represents the commander and projector 2 represents the receiver. The green arrow points to the projector that the message is referring to.
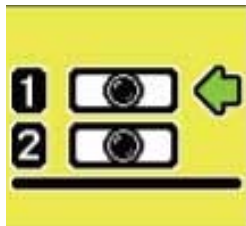
1. Turn off the product and unplug the power cords.

2. Gently remove the dust using a small vacuum designed for computers or a very soft brush (such as a paintbrush).
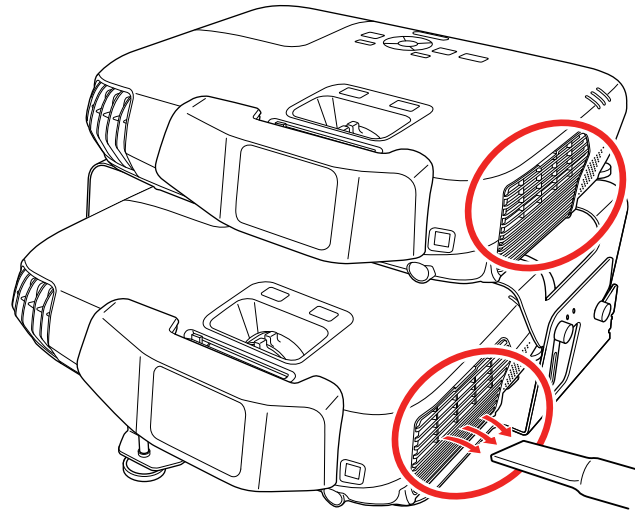
Note: You can remove an air filter so you can clean both sides of it. Do not rinse the air filter in water, or use any detergent or solvent to clean it.

Caution: 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.

3. If dust is difficult to remove or an air filter is damaged, replace the air filter.

Parent topic: Air Filter and Vent Maintenance

Related tasks
Replacing the Air Filter

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

Note: Along with the message, you will also see an indicator like this. Projector 1 represents the commander and projector 2 represents the receiver. The green arrow points to the projector that the message is referring to.
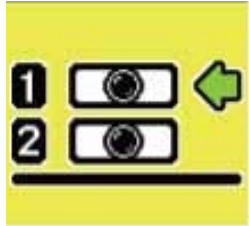
You can replace the air filter while the projector is mounted to the ceiling, if necessary. The illustrations here show the projector placed on a table.

Note: The illustrations in this section show how to replace the commander projector's air filter, but you can replace the receiver projector's air filter using the same steps.

1. Turn off the product and unplug the power cords.

2. Place your finger into the groove at the top of the air filter cover and pull to open the cover.
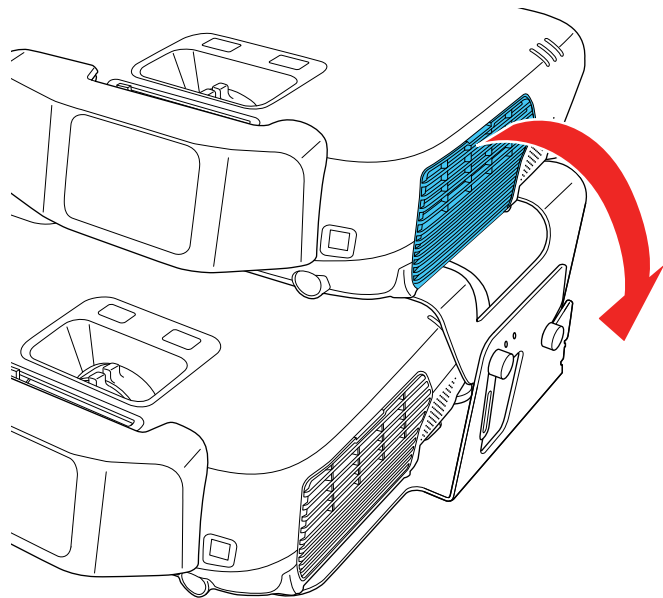
3. Pull the air filter out of the projector.
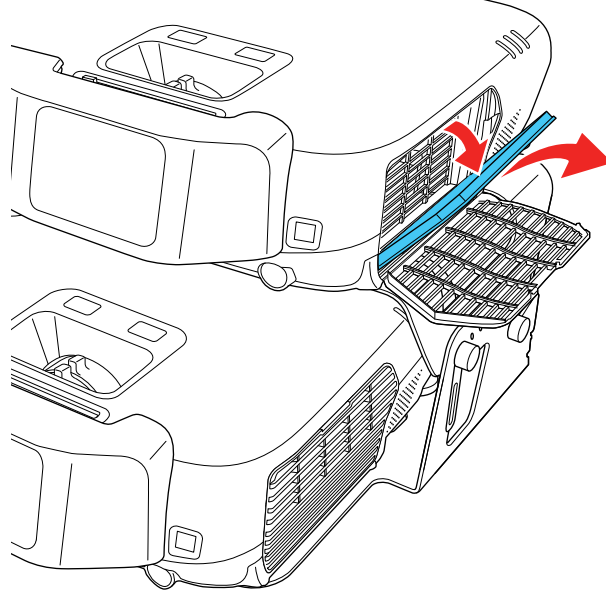
Note: Air filters contain ABS resin and polyurethane foam. Dispose of used air filters according to local regulations.

4. Place the new air filter in the projector as shown and push gently until it clicks into place.
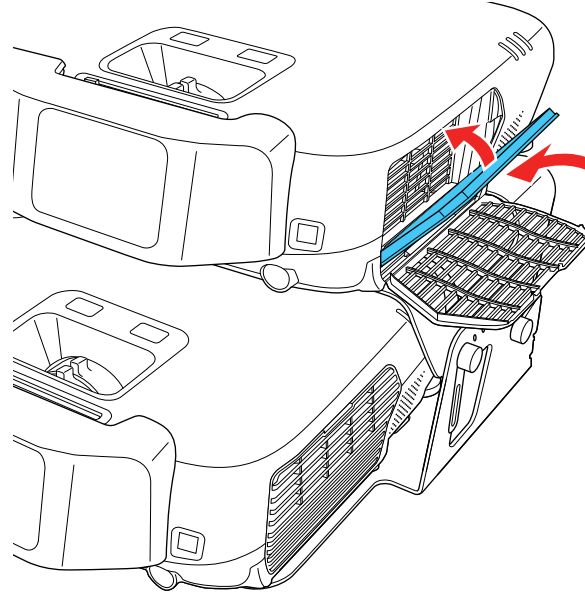
5. Close the air filter cover.

Parent topic: Air Filter and Vent Maintenance

Projector Lamp Maintenance

The product keeps track of the number of hours the lamps are used and displays this information in the product's menu system.

Replace a lamp as soon as possible when the following occurs:

- The projected image gets darker or starts to deteriorate
- A message appears when you turn on the product telling you to replace a lamp
- One of the projector's lamp lights is flashing orange

Note: Along with the message, you will also see an indicator like this. Projector 1 represents the commander and projector 2 represents the receiver. The green arrow points to the projector that the message is referring to.
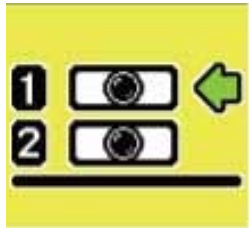
Parent topic: Projector Maintenance

Related references

Projector Information Display - Info Menu
Optional Equipment and Replacement Parts
Projector Lamp Specifications

Replacing the Lamp

Before you replace the lamp, let the product cool down for at least one hour so the lamp will not be hot.

Warning: Let the lamp fully cool before replacing it to avoid injury.

You can replace the lamp while the product is mounted to the ceiling, if necessary.

Note: The illustrations in this section show how to replace the commander projector's lamp, but you can replace the receiver projector's lamp using the same steps.

1. Turn off the product and unplug the power cords.
2. Allow the projector lamp to cool down for at least one hour.

3. If you need to replace the lamp in the receiver projector, remove the stacking mount angle adjustment screws on both sides (and note which screw hole number you used). Then tilt the commander projector back so that you can access the receiver projector's lamp.
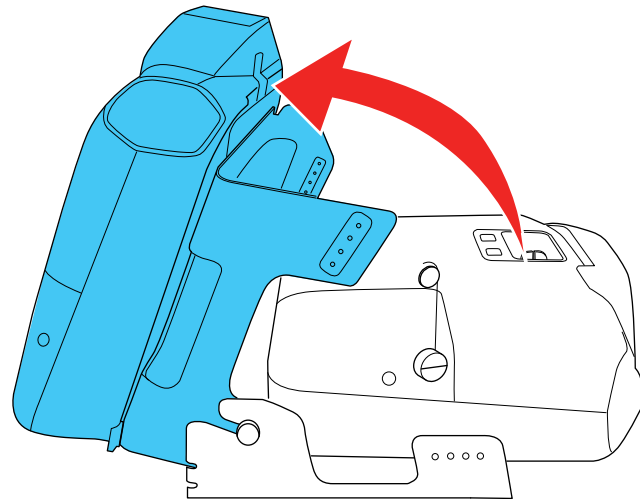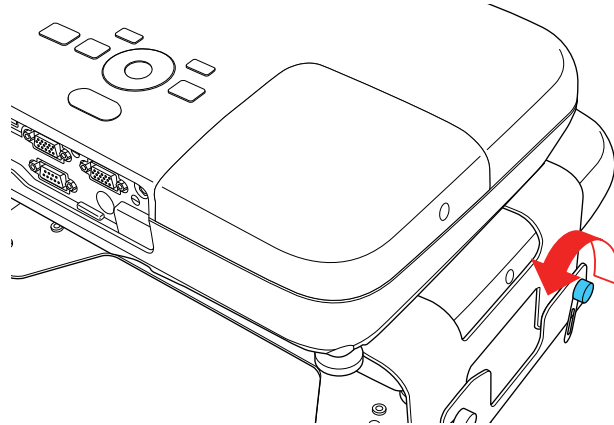
Warning: If the projector is installed on the ceiling, make sure to secure the commander projector so that it does not fall out of the stacking mount. If the projector falls, it may injure you or damage the projector.

4. Use the screwdriver included with the replacement lamp to loosen the screw securing the lamp cover.
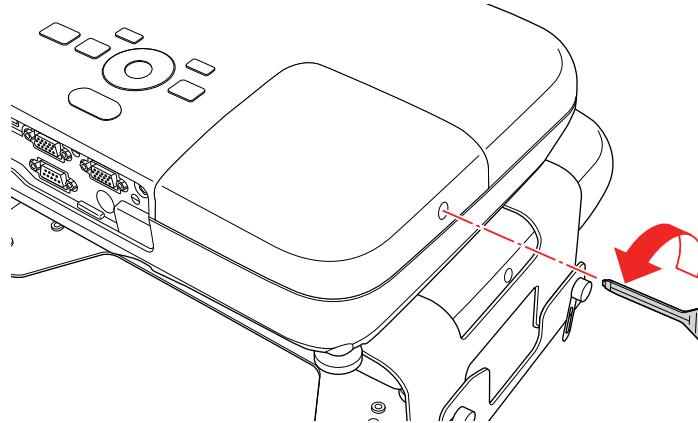
Warning: If the lamp is broken, glass fragments may be loose inside the lamp chamber. Be careful removing any broken glass to avoid injury. If the projector is installed on the ceiling, stand to the side of the lamp cover and not underneath it; pieces of glass could fall into your eyes or mouth when you open the lamp cover.

5. Slide the lamp cover out and lift it off.
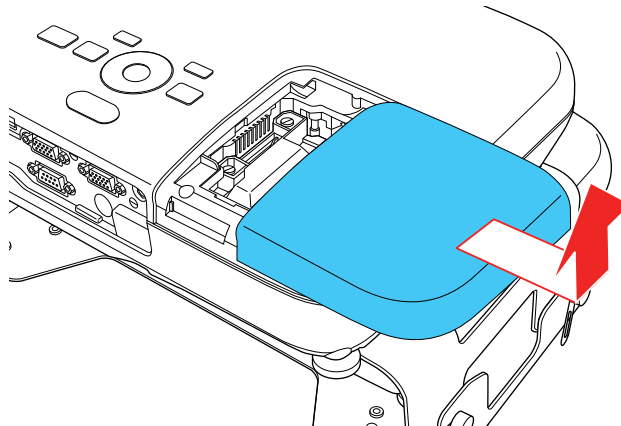
6. Loosen the screws securing the lamp to the projector. The screws do not come all the way out.
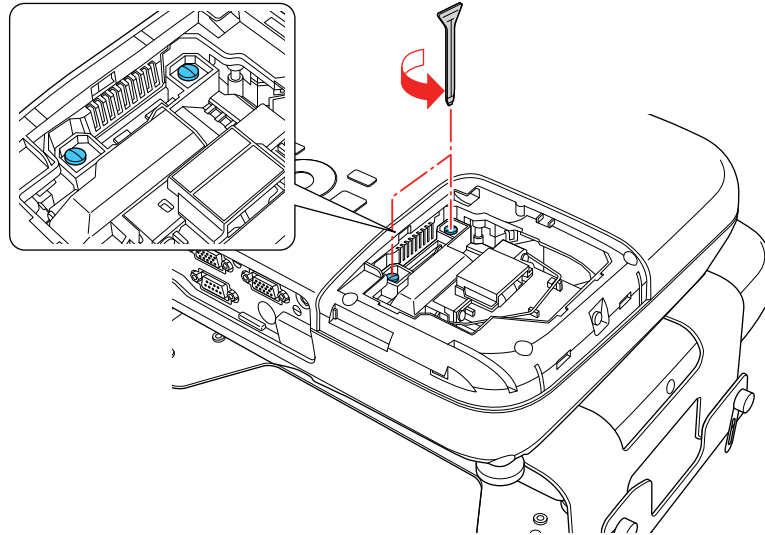
7. Lift up the lamp handle and gently pull the lamp out of the projector.
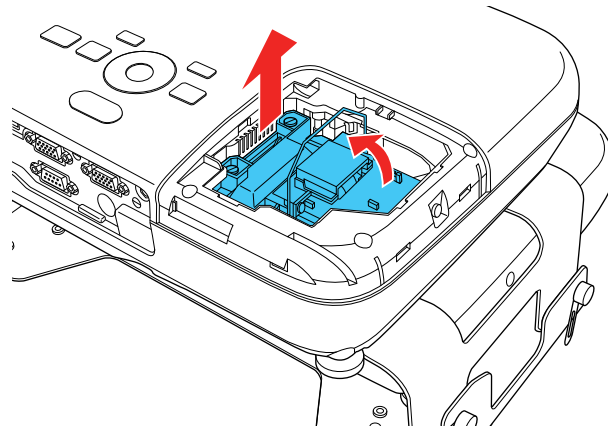
Note: ⒣ The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

8. Gently insert the new lamp into the projector. If it does not fit easily, make sure it is facing the right way. Press the handle down until it locks into place.
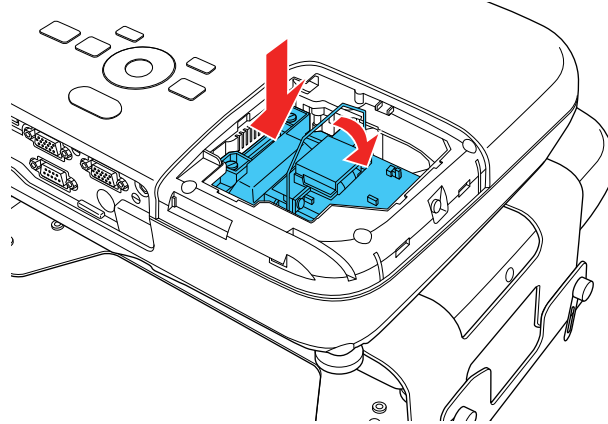
Caution: Do not touch any glass on the lamp assembly to avoid premature lamp failure.

9. Push in the lamp firmly and tighten the screws to secure it.
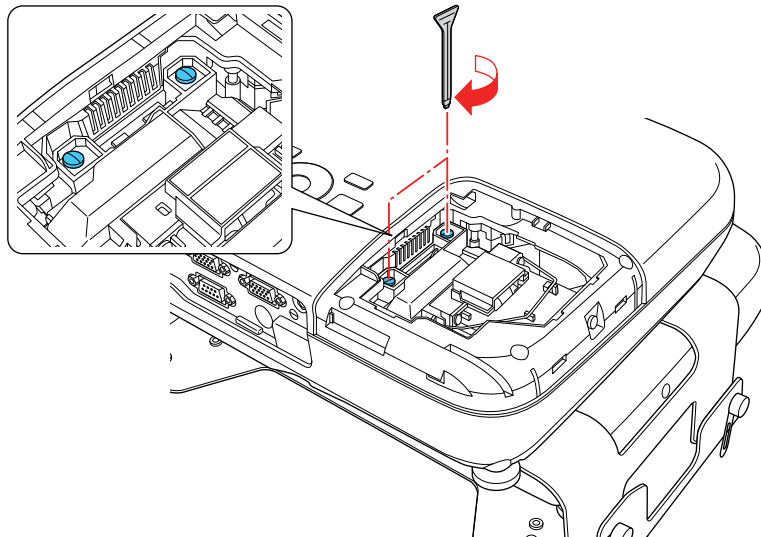
10. Replace the lamp cover and tighten the screw to secure it.
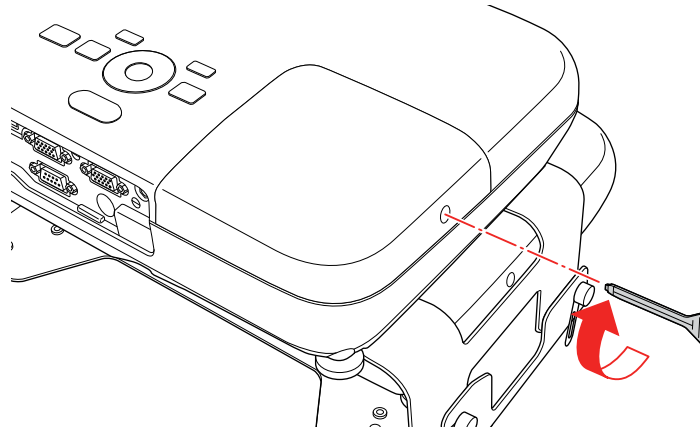
Note: Be sure the lamp cover is securely installed or the lamp will not come on.

11. If you replaced the receiver projector's lamp, tilt the commander projector forward and reattach the stacking mount angle adjustment screws.

Warning: When you tilt the commander projector forward, be careful not to pinch your fingers in the mounts.

Reset the lamp timer to zero to keep track of the new lamp's usage.

Parent topic: Projector Lamp Maintenance

Related tasks
Resetting the Lamp Timer

Resetting the Lamp Timer

You must reset the lamp timer after replacing the projector's lamp to clear the lamp replacement message and to keep track of lamp usage correctly.

Note: Do not reset the lamp timer if you have not replaced the lamp to avoid inaccurate lamp usage information.

1. Turn on the projector.

2. Press the **Menu** button.

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

```
┌─────────┐  ┌──────────────────────────────────────────┐
│ Image   │  │                        ┌ Return ↵ ┐       │
├─────────┤  │   Reset Lamp Hours (Commander  ①)        │
│ Signal  │  │   Reset Lamp Hours (Receiver ② )         │
├─────────┤  │                                          │
│ Settings│  │                                          │
├─────────┤  │                                          │
│ Extended│  │                                          │
├─────────┤  │                                          │
│ Info    │  │                                          │
├─────────┤  │                                          │
│ Reset  ↵│  │                                          │
└─────────┘  └──────────────────────────────────────────┘
```
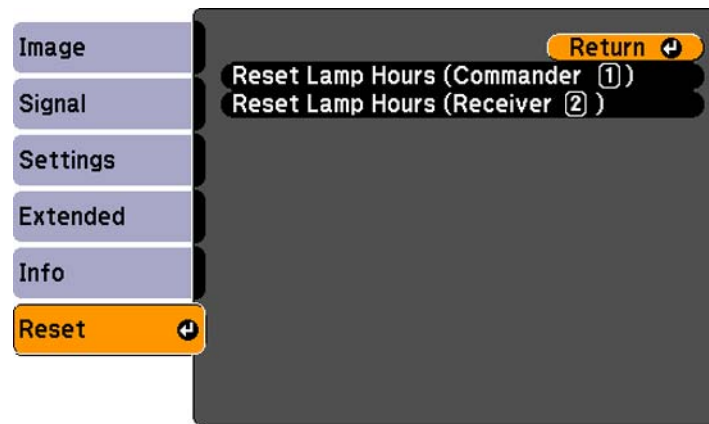
4. Select the **Reset Lamp Hours** option for the projector in which you replaced the lamp and press **Enter**.

   You see a prompt asking if you want to reset the lamp hours.

5. Select **Yes** and press **Enter**.

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

Parent topic: Projector Lamp Maintenance

Related tasks
Replacing the Lamp

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. Open the battery cover as shown.
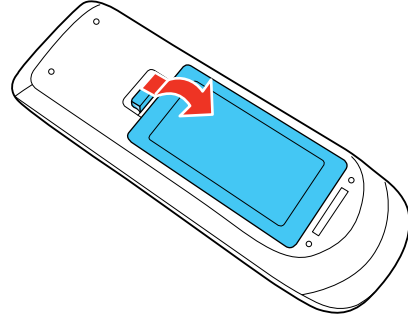
2. Remove the old batteries.

   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.
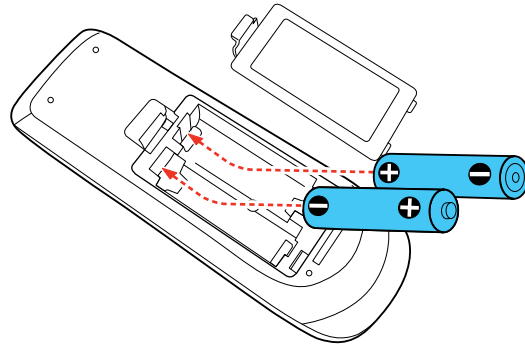
4. Close the battery cover and press it down until it clicks into place.
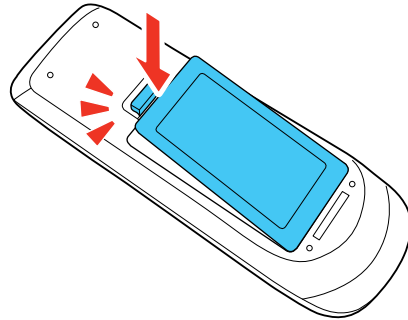
Warning: Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

Parent topic: Projector Maintenance

Related references

Remote Control Operation

Transporting the Projector

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

• Close the lens covers to protect the lenses.

• Remove any equipment connected to the projector.

• Use a carrying case to hand-carry the projector.

• When transporting the projector a long distance or as checked luggage, place it in a carrying case. Then pack the case 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

Solving Problems

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

Projection Problem Tips
Projector Light Status
Using the Projector Help Displays
Solving Image or Sound Problems
Solving Projector or Remote Control Operation Problems
Where to Get Help

Projection Problem Tips

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

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

• The lights on the product may indicate what the problem is.

• The product's Help system can display information about common problems, if the product 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

Related references

Projector Light Status
Where to Get Help

Related tasks

Using the Projector Help Displays

Projector Light Status

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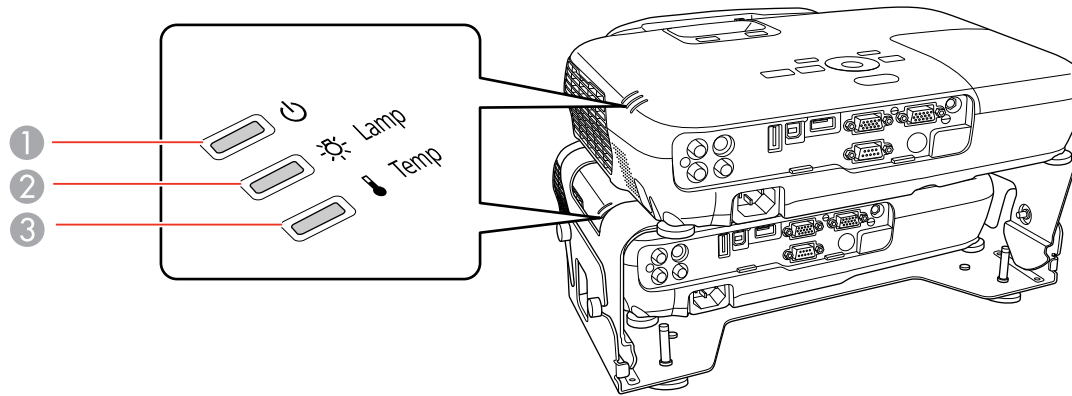
1   Power light

2   Lamp light

3   Temperature light

Power light	Lamp light	Temperature light	Status and solution
Green	Off	Off	Normal operation.
Flashing green	Off	Off	Warming up. Wait for an image to appear.
Orange	Off	Off	Standby or sleep mode.
Flashing orange	Off	Off	Shutting down. (When the light remains orange, you can unplug the projector.)
Flashing red	Off	Flashing orange	Projector is too hot. • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. • Clean or replace the air filter. • Make sure the environmental temperature is not too hot.

Power light	Lamp light	Temperature light	Status and solution
Red	Off	Red	Projector has overheated and turned off. Leave it turned off to cool down. Once the temperature light turns off and the power light turns orange (after about five minutes), try the suggestions below: • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. • Clean or replace the air filter. • If operating the projector at high altitude, turn on **High Altitude Mode**. • If the problem persists, unplug the projector and contact Epson for help.
Red	Flashing red	Off	Lamp has a problem. • Check to see if the lamp is burned out, broken, or installed incorrectly. Reseat or replace the lamp as necessary. • Clean or replace the air filter. • If operating the projector at high altitude, turn on **High Altitude Mode**. • If the problem persists, unplug the projector and contact Epson for help.
Light status varies	Flashing orange	Off	Replace the lamp soon to avoid damage. Do not continue using the projector.
Red	Off	Flashing red	A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help.
Red or flashing red	Flashing red	Flashing red	Internal projector error. Turn the projector off, unplug it, and contact Epson for help.

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

Parent topic:

Related references

Related tasks

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 **Help** button on the projector or the remote control.

   You see the Help menu.

3. Use the up and down arrow buttons to highlight the problem you want to solve.

4. Press **Enter** to view the solutions.

5. When you are finished, do one of the following:

   • To select another problem to solve, press **Esc**.

   • To exit the help system, press **Help**.

Note: You can also display image adjustment recommendations by pressing the **Help** button on the projector or remote control, then pressing the left arrow button.

Parent topic:

Solving Image or Sound Problems

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

Parent topic: Solving Problems

Solutions When No Image Appears

If no image appears, try the following solutions:

• Make sure the lens covers are open.

• Press the **A/V Mute** button on the remote control to see if the image was temporarily turned off.

• Make sure the same video source is connected to both the commander and receiver projectors.

• Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.

• If you connected your video source to the **Monitor Out/Computer2** ports, make sure you set the **Monitor Out Port** setting to **Computer2**.

• 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.

• Check the settings on the Signal menu to make sure they are correct for the current video source.

• Select the **Normal** Power Consumption setting.

• 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.

• If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.

• For images projected with Windows Media Center, reduce the screen size from full screen mode.

• For images projected from applications using Windows DirectX, turn off DirectX functions.

Parent topic: Solving Image or Sound Problems

Related concepts
Projector Connections

Related references

Related tasks

Solutions When "No Signal" Message Appears

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

• Press the **Source 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.

Parent topic:

Related concepts

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 labelled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear.

2. To display on both the laptop's monitor and the projector, try pressing the same keys again.

3. 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. (See your computer or Windows manual for instructions.)

4. If necessary, check your video card settings and set the multiple display option to **Clone**.

Parent topic:

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**.

2. Select the **VGA Display** or **Color LCD** option, if necessary.

3. Click the **Arrange** or **Arrangement** tab.

4. Select the **Mirror Displays** checkbox.

Parent topic: Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

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

• Make sure the correct input signal is selected on the Signal menu.

• Make sure the computer's display resolution does not exceed the projector's resolution and frequency limit. If necessary, select a different display resolution for your computer. (See your computer manual for details.)

Parent topic: Solving Image or Sound Problems

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:

• Press the **Auto** button on the remote control to optimize the image signal.

• 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 twice to return to a full display.

• 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 references

Supported Video Display Formats

Solutions When the Image Contains Noise or Static

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

• Check the cables connecting your computer or video source to the projector. They should be:

  • Separated from the power cord to prevent interference

  • Securely connected at both ends

  • Not connected to an extension cable

• Check the settings on the projector's Signal menu to make sure they match the video source. If available for your video source, adjust the **Progressive** and **Noise Reduction** settings.

• Select a computer video resolution that is 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** settings.

• If you connected extension power cables, try projecting without them to see if they caused interference in the signal.

Parent topic: Solving Image or Sound Problems

Related references

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 product's lenses.

  Note: To avoid condensation on the lenses after bringing the product in from a cold environment, let the product warm up to room temperature before using it.

• Position the projector close enough to the screen, and directly in front of it.

- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync.

- Repeat the Screen Fit process to superimpose the projectors' images. See your *Setup Guide* for instructions.

- If you are projecting from a computer, use a lower resolution.

Parent topic: Solving Image or Sound Problems

Related references
Projection Distance

Related tasks
Focusing the Image Using the Focus Rings
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.

- 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.

- If you are using the **ECO** Power Consumption setting, try selecting **Normal** in the Settings menu.

  Note: At high altitudes or locations subject to high temperatures, the image may become darker and you may not be able to adjust the Power Consumption setting.

- If the image has been progressively darkening, you may need to replace a projector lamp soon.

Parent topic: Solving Image or Sound Problems

Related concepts
Projector Lamp Maintenance

Related references
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu

Solutions When a 3D Image Does Not Display Correctly

If a 3D image does not display correctly, try the following solutions:

- Press the **2D/3D** button on the remote control to switch to 3D mode, if necessary. You can also activate 3D mode by setting the **3D Display** setting on the Signal menu to **On**.
- Make sure your video device and media are both 3D-compatible. Refer to the documentation that came with your video device for more information.
- Make sure you are using HDMI cables that support 3D signals. If you are using a splitter, make sure it also supports 3D signals.
- Make sure you are projecting onto a silver screen (recommended gain: 2.3 to 2.7).
- Make sure you selected the correct **3D Format** setting on the Signal menu. Normally this should be set to **Auto**, but in some cases you may need to select a different setting to match the 3D signal from your video device.
- Make sure you are using the supplied 3D glasses or the optional glasses sold by Epson. The glasses supplied and sold by Epson are specifically designed for use with this product. Other passive 3D glasses may not work.
- Make sure the polarizing filters are attached correctly. The number on each filter should match the number on the projector to which it is attached. See your *Setup Guide* for instructions.
- Make sure you are within the 3D viewing range. Also make sure to position the product close enough to the screen.
- If the other solutions do not not solve the problem, change the **Inverse 3D Image** setting on the Signal menu. Return the setting to its original value if changing it does not solve the problem.

Parent topic: Solving Image or Sound Problems

Related references

Input Signal Settings - Signal Menu
Optional Equipment and Replacement Parts
3D Viewing Range
Projection Distance

Solutions When No Image Appears on an External Monitor

If no image appears on a connected external monitor, try the following solutions:

- Make sure a VGA cable is connected to your computer and the projector's **Computer1** port.
- Make sure your external monitor's cable is connected to the monitor and to the projector's **Monitor Out** port.

- Make sure you set the **Monitor Out Port** setting to **Monitor Out**.

Parent topic: Solving Image or Sound Problems

Related references
Projector Setup Settings - Extended Menu

Solutions to Sound Problems

If there is no sound when you expect it or the volume is too low, 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** 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.
- 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.

Parent topic: Solving Image or Sound Problems

Related concepts
Projector Connections

Related tasks
Controlling the Volume with the Volume Buttons

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

- Make sure the power cords are securely connected to the product and to a working electrical outlet.

- The product's buttons may be locked for security. Unlock the buttons or use the remote control to turn on the product.

- The power cords may be defective. Disconnect the cords and contact Epson.

- If the product's lamps shut off unexpectedly, it may have entered sleep mode after a period of inactivity. Begin a presentation to wake the product.

- If one of the projector's lamps shuts off and the power and **Temp** lights are red, the projector has overheated and shut off. Check the solutions for this light status.

- If the power button on the remote control does not turn on the product, check its batteries and make sure the **Remote Receiver** setting is turned on in the product's menu, if available.

If the commander and receiver projectors do not come on at the same time, try the following solutions:

- Make sure the projectors are connected with the USB cable. See your *Setup Guide* for instructions.

- Make sure the projectors' **Stack Mode** settings are set to **On**.

- If an error occurs in the commander projector, the receiver projector displays a warning message. Press the **Enter** button on the remote control to turn off the receiver projector. Stop using the commander projector and contact Epson for help. To turn on and use the receiver projector by itself, hold down the **2** button on the remote control and press the power button.

- If an error occurs in the receiver projector, the commander projector displays a warning message. You can continue to use the commander projector. Stop using the receiver projector and contact Epson for help.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Light Status

Projector Feature Settings - Settings Menu

Projector Setup Settings - Extended Menu

Where to Get Help

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.

- If available, turn off 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).

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

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Remote Control Operation

Projector Feature Settings - Settings Menu

Where to Get Help

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. Provide the request code and proof of ownership for assistance in unlocking the projector.

- 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 references

Where to Get Help

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 www.epson.com/support (U.S.) or www.epson.ca/support (Canada) 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 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). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epson.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

Related tasks

Using the Projector Help Displays

Technical Specifications

These sections list the technical specifications of your projector.

General Projector Specifications

Type of display	Poly-silicon TFT active matrix
Resolution	1280 × 800 pixels (WXGA)
Lens	F=1.58 to 1.72
	Focal length: 16.9 to 20.28 mm
Color reproduction	Full color, 16.77 million colors
Brightness	Normal Power Consumption mode:
(for each projector)	White light output 3000 lumens (ISO 21118 standard)
	Color light output 3000 lumens
	ECO Power Consumption mode:
	White light output 2400 lumens (ISO 21118 standard)
Contrast ratio	Up to 5000:1 (3D mode)
Image size	80 inches (2.03 m) to 150 inches (3.81 m)
Projection distance	97 inches (2.46 m) to 227 inches (5.77 m)
Projection methods	Front, rear, ceiling-mounted

Optical aspect ratio (width-to-height)	16:10
Focus adjustment	Manual
Zoom adjustment	Manual (optical)
Zoom ratio (Minimum-to-Maximum)	1:1.2
Internal sound system (for each projector)	2 W monaural
Noise level	39 dB (Normal Power Consumption mode) 32 dB (ECO Power Consumption mode)
Keystone correction angle	Vertical: ± 15º (normal screen); ± 10º (silver screen) Horizontal: ± 15º (normal screen); ± 10º (silver screen)
USB Type B port compatibility	USB 1.1 and 2.0 compliant for stacked projector control
USB Type A port compatibility	USB 1.1 and 2.0 compliant for stacked projector control

Parent topic:

Projector Lamp Specifications

Type	UHE (Ultra High Efficiency)
Power consumption	200 W
Lamp life	Normal Power Consumption mode: Up to about 4000 hours ECO Power Consumption mode: Up to about 5000 hours

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

Parent topic:

Remote Control Specifications

Reception range	19.7 feet (6 m)
Batteries	Two alkaline or manganese AA

Parent topic: Technical Specifications

Projector Dimension Specifications

Note: These specifications apply to the product when the projectors are stacked.

Height (excluding feet)	7.76 inches (197 mm)
Width	14.6 inches (372 mm)
Depth	13.8 inches (350 mm)
Weight	17.4 lb (7.9 kg)

Parent topic: Technical Specifications

Projector Electrical Specifications

Note: These specifications apply to each projector individually.

Rated frequency	50/60 Hz
Power supply	100 to 240 VAC ±10%
	2.9 to 1.3 A
Power consumption	Operating:
(110 to 120 V)	Normal Power Consumption mode: 289 W
	ECO Power Consumption mode: 237 W
	Standby:
	0.36 W (Communication Off), 3.2 W (Communication On)

Power consumption	Operating:
(220 to 240 V)	Normal Power Consumption mode: 277 W
	ECO Power Consumption mode: 230 W
	Standby:
	0.40 W (Communication Off), 3.3 W (Communication On)

Parent topic:

Projector Environmental Specifications

Temperature	Operating: 41 to 95 ºF (5 to 35 ºC)
	Storage: 14 to 140 ºF (–10 to 60 ºC)
Humidity (relative, non-condensing)	Operating: 20 to 80%
	Storage: 10 to 90%
Operating altitude	Up to 4921 feet (1500 m)
	Up to 7500 feet (2286 m) with High Altitude Mode enabled

Parent topic:

3D Glasses Specifications

Polarization	Circular

Parent topic:

Projector Safety and Approvals Specifications

United States	Stacked configuration:
	FCC Part 15B Class A (DoC)
	UL60950-1 2nd edition (cTUVus Mark)
	Single projector configuration:
	FCC Part 15B Class B (DoC)
	UL60950-1 2nd edition (cTUVus Mark)
Canada	Stacked configuration:
	ICES-003 Class A
	CSA-C22.2 No. 60950-1-07 (cTUVus Mark)
	Single projector configuration:
	ICES-003 Class B
	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 tables here list the compatible refresh rate and resolution for each compatible video display format.

2D Signals

Display format	Refresh rate (in Hz)	Resolution (in pixels)
Computer signals (analog RGB)		
VGA	60/72/75/85	640 × 480
SVGA	56/60/72/75/85	800 × 600

Display format	Refresh rate (in Hz)	Resolution (in pixels)
XGA	60/70/75/85	1024 × 768
WXGA	60/75/85	1280 × 800
	60	1280 × 768
	60	1366 × 768
WXGA+	60/75/85	1440 × 900
	60	1600 × 900
SXGA	70/75/85	1152 × 864
	60/75/85	1280 × 960
	60/75/85	1280 × 1024
SXGA+	60/75	1400 × 1050
UXGA	60	1600 × 1200
WSXGA+*	60	1680 × 1050
MAC13"	67	640 × 480
MAC16"	75	832 × 624
MAC19"	75	1024 × 768
	59	1024 × 768
MAC21"	75	1152 × 870
Composite video		
TV (NTSC)	60	720 × 480
TV (PAL)	50/60	720 × 576
TV (SECAM)	50	720 × 576
Component video		
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)
HDMI 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
WSXGA+	60	1680 × 1050
SXGA	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
UXGA	60	1600 × 1200
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30/50/60	1920 × 1080

* **Wide** resolution only

3D Signals

Display format	Refresh rate (in Hz)	Resolution (in pixels)	3D formats
HDTV750p (720p)	50/60	1280 × 720	Frame Packing Side by Side Top and Bottom
HDTV1125i (1080i)	50/60	1920 × 1080	Side by Side

Display format	Refresh rate (in Hz)	Resolution (in pixels)	3D formats
HDTV1125p (1080p)	24	1920 × 1080	Frame Packing
			Top and Bottom
	50/60	1920 × 1080	Side by Side

Parent topic: Technical Specifications

Notices

Check these sections for important notices about your projector.

Recycling
Important Safety Information
Important Safety Instructions
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Recycling

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Parent topic: Notices

Important Safety Information

Caution: Never look into the projector lens when the lamp 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 lamp and 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.

Caution: When you replace the lamp, never touch the new lamp with your bare hands; the invisible residue left by the oil on your hands may shorten the lamp life. Use a cloth or glove to handle the new lamp.

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 the projector on an unstable cart, stand, or table.

• Do not operate the projector on its side, or while tilted to one side. Do not tilt the projector more than 30° forward or back.

• 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 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 air exhaust vent.

• 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 2 feet (60 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 of 41 to 95 ºF (5 to 35 ºC). 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 ºF (–10 to 60 ºC) 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.

- Never try to remove the lamp immediately after use because it will be extremely hot. Before removing the lamp, turn off the power and wait at least an hour to allow the lamp to cool completely.

- Do not disassemble the lamp or subject it to impacts.

- 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 object other than the lens cover. 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.

- If the lamp breaks, ventilate the room to prevent gases contained in the lamp from being inhaled or coming in contact with your eyes or mouth. If you do inhale gases or gases come in contact with your eyes or mouth, seek medical advice immediately.

- If the projector is mounted overhead and the lamp breaks, be careful to prevent pieces of glass from falling into your eyes or mouth when you open the lamp cover. If pieces of glass do get into your eyes or mouth, seek medical advise immediately.

- Always lower the volume before turning off the projector. Turning on the projector with the volume too high can damage your ears.

Note: (Hg) The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

WARNING: The cords included with this product contain chemicals, including lead, known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.* (This notice is provided in accordance with Proposition 65 in Cal. Health & Safety Code § 25249.5 and following.)

3D Safety Instructions

Restriction of Use

Parent topic: Notices

3D Safety Instructions

Follow these 3D safety instructions when setting up and using the projector:

- If you or any viewer experiences the following symptoms or other major discomfort from viewing 3D video images, immediately stop viewing and contact your health care provider: convulsions, eye or muscle twitching, loss of awareness, altered vision, involuntary movements, disorientation, eye strain, nausea/vomiting, dizziness, headaches, fatigue, or blurry/double vision that lasts longer than few seconds. Do not engage in any potentially hazardous activity (such as driving a vehicle or operating machinery) until your symptoms have completely gone away. If the symptoms persist, discontinue use and do not resume stereoscopic 3D viewing without discussing your symptoms with a health care provider/physician.

- Some viewers may experience a seizure or blackout when exposed to flashing images or lights contained in certain 3D content. Anyone who has a history of seizures, loss of awareness, symptoms linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function. It is recommended that all viewers take regular breaks while watching 3D video images or playing stereoscopic 3D games. The suggested breaks are, at least 5 to 15 minutes after every 30 to 60 minutes of stereoscopic 3D content viewing.*

    *Based on the guidelines issued by the 3D Consortium revised December 10, 2008. The length and frequency of necessary breaks will vary from person to person. If you experience any discomfort, you should immediately stop watching the 3D video images or playing stereoscopic 3D games until the discomfort ends; consult a heath care provider/physician if necessary.

- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or older. Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.

- Maintain a distance from the screen of at least three times the screen height when viewing 3D images. The recommended viewing distance for an 80 inch screen is at least 10 feet (3 m) and at least 12 feet (3.6 m) for a 100 inch screen. Also, we recommended using a screen size less than 120 inches.Viewing any closer than the recommended viewing distance or on a screen larger than recommended may result in eye fatigue.

- Viewing 3D content may cause dizziness and disorientation for some viewers. Therefore, to avoid injury do not place your projector or screen near open stairwells, balconies, or wires, and do not sit near objects that could be broken if accidentally hit.

- The following people should limit 3D content viewing:

    People with a history of photosensitivity

    People with heart disease

    People in poor health

People who are sleep deprived

People who are physically tired

People under the influence of drugs or alcohol

Anyone who has ever experienced epileptic seizures or sensory disturbances triggered by flashing light effects

SOME LIGHT PATTERNS MAY INDUCE SEIZURES IN PERSONS WITH NO PRIOR HISTORY OF EPILEPSY.

• Do not leave the 3D glasses or any parts supplied with the glasses within reach of children. They could be accidentally swallowed. If anything is accidentally swallowed, contact a doctor immediately.

• Be careful of the edges of the frame when wearing the 3D glasses and do not place your finger in any of the moving sections such as the hinges. Otherwise you could injure your eyes or fingers.

• When disposing of the 3D glasses, follow any local rules and regulations.

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

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Parent topic: Notices

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The list of GPL Programs

- busybox-1.13.4
- iptables-1.4.4
- libgcc1(gcc-4.3.3)
- libstdc++-6.0.10
- linux-2.6.27
- patches
- udhcp 0.9.8
- uvc rev.219
- wireless_tools 29

- EPSON original drivers

- Stonestreet One Drivers

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Version 2, June 1991

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glibc-2.8

SDL-1.2.13

SDL-Image

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Version 2.1, February 1999

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