



# **PowerLite<sup>®</sup> Home Cinema 2040/2045 User's Guide**



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# PowerLite Home Cinema 2040/2045 User's Guide

Welcome to the PowerLite Home Cinema 2040/2045 *User's Guide*.

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# Introduction to Your Projector

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

[Projector Features](#)

[Notations Used in the Documentation](#)

[Where to Go for Additional Information](#)

[Projector Part Locations](#)

## Projector Features

The PowerLite Home Cinema 2040 and 2045 projectors include these special features:

### **Bright, high-resolution projection system**

- Up to 2200 lumens of color brightness (color light output) and 2200 lumens of white brightness (white light output)

**Note:** Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118.

- 1080p native resolution
- Images up to 332 inches (8.43 m); for projection on any wall or screen

### **Full 3D projection**

- Active 3D projection with RF active shutter glasses
- Supports side-by-side, top-and-bottom, and frame-packing 3D formats

### **Flexible connectivity**

- Two HDMI ports for computer or video device connection
- One MHL (Mobile High-definition Link)-compatible HDMI port for high-quality audio and video from tablets and smartphones
- WiDi and Miracast screen mirroring for laptops and mobile devices (PowerLite Home Cinema 2045)
- Wireless network support (PowerLite Home Cinema 2045) for projection, monitoring, and control via remote network computer
- PC Free photo slide shows via connected USB memory devices

- Audio Out port for connection to external speakers or stereo system

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

- Real-time, automatic vertical keystone correction and horizontal keystone correction slider for flexible projector placement
- Epson's Instant Off and Direct Power On features for quick setup and shut down
- 1.2x optical zoom ratio for improved zooming capability

[Product Box Contents](#)

[Additional Components](#)

[Optional Equipment and Replacement Parts](#)

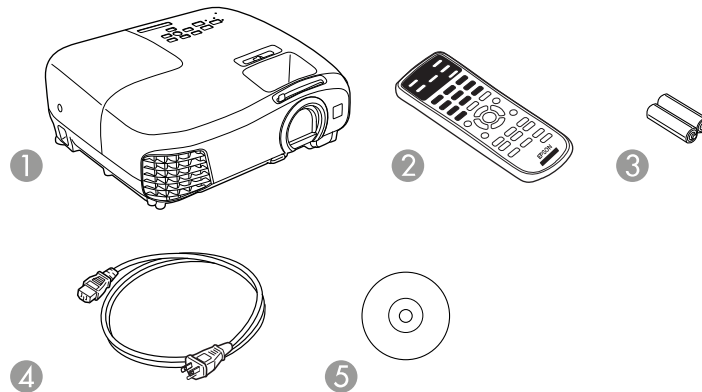
[Warranty and Registration Information](#)

**Parent topic:** [Introduction to Your Projector](#)

## **Product Box Contents**

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

Make sure your projector box included all of these parts:



- 1 Projector
- 2 Remote control
- 3 Remote control batteries (two AA alkaline)

- 4 Power cord
- 5 Projector documentation CD

**Parent topic:** [Projector Features](#)

## Additional Components

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

- You can purchase one from Epson or an authorized Epson reseller.
- To receive an HDMI signal, you need a compatible HDMI cable. You can purchase one from Epson or an authorized Epson reseller.
- To receive an HDMI signal via MHL, you need an MHL-compatible device, an MHL cable, or an HDMI cable and an MHL adapter compatible with your device. Devices with an integrated MHL connector may not require a cable.
- To receive and view a 3D signal, you need a compatible HDMI cable and active shutter 3D glasses. You can purchase them from Epson or an authorized Epson reseller. If your video source is a 3D Blu-ray disc, you also need a Blu-ray player that supports 3D playback. See your local computer or electronics dealer for purchase information.
- 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.
- To add additional sound, you need speakers, an audio video receiver or a video source with speaker connections, and the cables necessary to connect to the speakers and the projector. See your local computer or electronics dealer for purchase information.

**Parent topic:** [Projector Features](#)

### 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 [epsonstore.com](http://epsonstore.com) (U.S. sales) or [epson.ca](http://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 (ELPLP88)         | V13H010L88  |
| Replacement air filter (ELPAF32)                 | V13H134A32  |
| RF 3D glasses (ELPGS03)                          | V12H548006  |
| Projector ceiling mount                          | ELPMBPJG    |
| Accolade Duet ultra portable projector screen    | ELPSC80     |
| ES1000 ultra portable tabletop projection screen | V12H002S4Y  |
| ES3000 ultra portable projector screen           | V12H002S3Y  |
| Belkin Pro Series VGA/SVGA cable, 6 ft           | F3H982-06   |
| Belkin Pro Series VGA/SVGA cable, 10 ft          | F3H982-10   |
| Belkin Pro Series VGA/SVGA cable, 25 ft          | F3H982-25   |
| Belkin PureAV HDMI audio video cable, 3 ft       | AV22300-03  |
| Belkin PureAV HDMI audio video cable, 6 ft       | AV22300-06  |
| Belkin PureAV HDMI audio video cable, 12 ft      | AV22300-12  |
| Remote control                                   | 1650251     |

In addition to the accessories listed above, 1-year and 2-year extended service plans are available.

**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 brochure that came with your projector.

In addition, Epson offers free Extra Care Home 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 Home Service brochure for details.

Register your product online using the projector CD or at this site: [epson.com/webreg](http://epson.com/webreg)

Registering also lets you receive special updates on new accessories, products, and services.

**Parent topic:** [Projector Features](#)

## Notations Used in the Documentation

Follow the guidelines in these notations as you read your documentation:

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

**Parent topic:** [Introduction to Your Projector](#)

## Where to Go for Additional Information

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

- [epson.com/support](http://epson.com/support) (U.S) or [epson.ca/support](http://epson.ca/support) (Canada)

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

- For detailed instructions on using your projector in a network environment (PowerLite Home Cinema 2045), see the *EasyMP Network Projection Operation Guide*.
- 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](#)

## Projector Part Locations

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

[Projector Parts - Front/Top](#)

[Projector Parts - Rear](#)

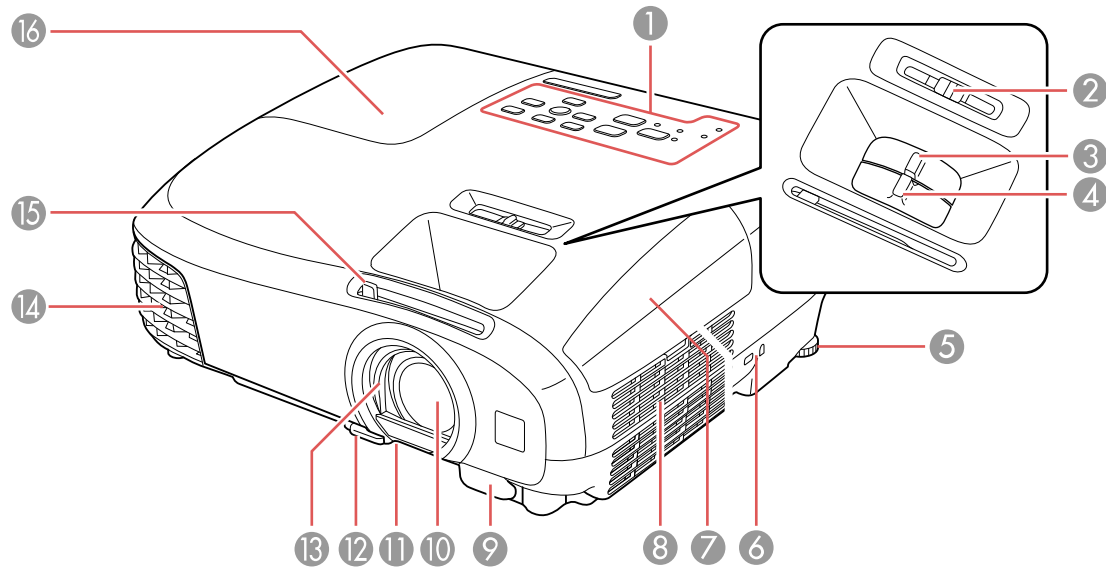
[Projector Parts - Base](#)

[Projector Parts - Control Panel](#)

[Projector Parts - Remote Control](#)

**Parent topic:** [Introduction to Your Projector](#)

## Projector Parts - Front/Top

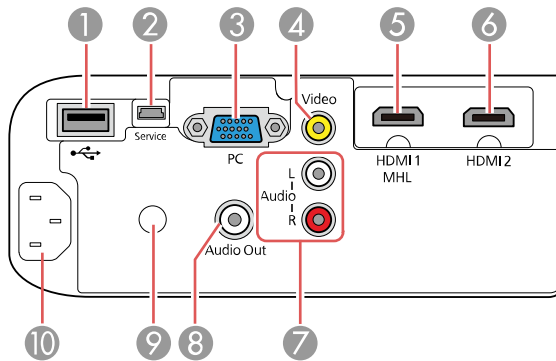


- 1 Control panel
- 2 Horizontal keystone slider
- 3 Zoom ring
- 4 Focus ring
- 5 Rear foot
- 6 Kensington security lock slot
- 7 Air filter cover
- 8 Air filter intake vent
- 9 Remote receiver
- 10 Lens
- 11 Front adjustable foot
- 12 Foot adjust lever

- 13 A/V Mute slide (lens cover)
- 14 Exhaust vent
- 15 A/V Mute slide lever
- 16 Lamp cover

Parent topic: [Projector Part Locations](#)

## Projector Parts - Rear

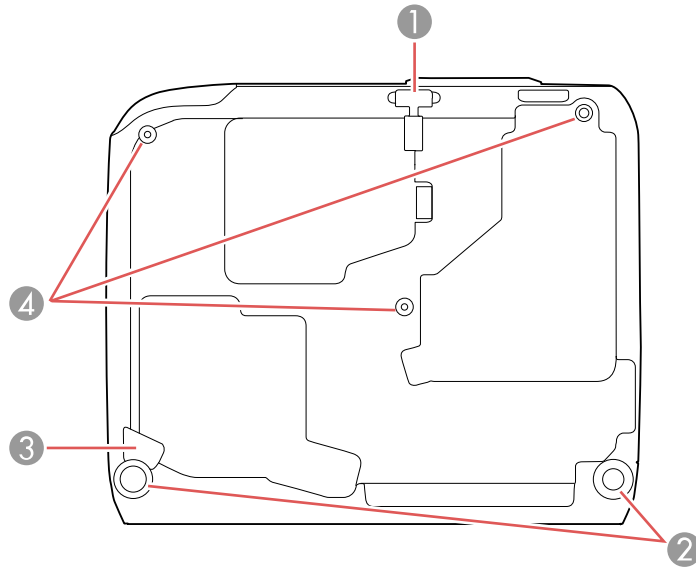


- 1 USB Type A port
- 2 **Service** port
- 3 **PC** port (VGA)
- 4 **Video** port
- 5 **HDMI 1 / MHL** port
- 6 **HDMI 2** port
- 7 **Audio** ports
- 8 **Audio Out** port
- 9 Remote receiver
- 10 AC input port



Parent topic: [Projector Part Locations](#)

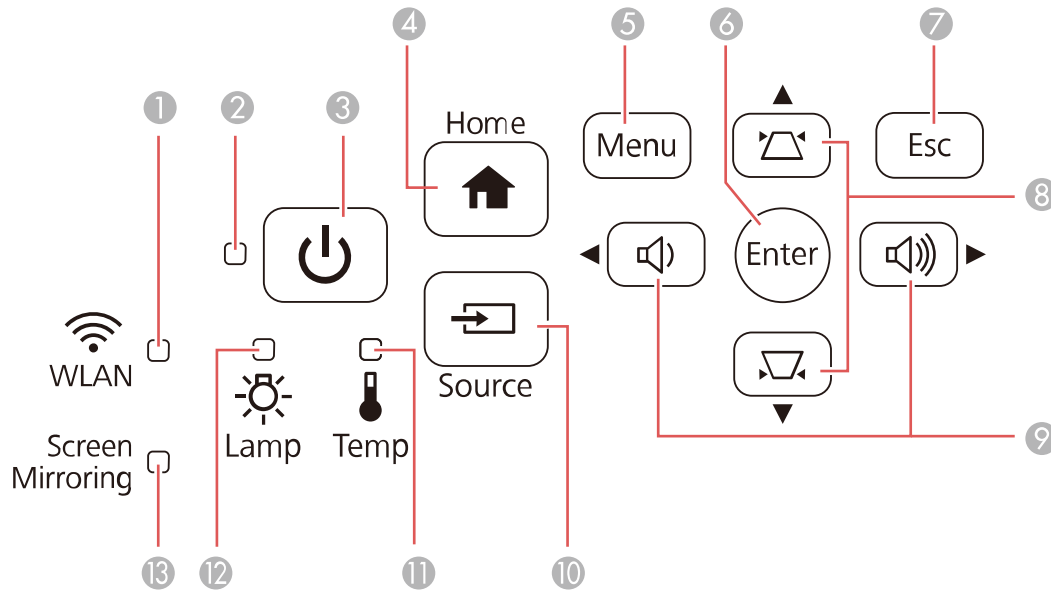
## Projector Parts - Base



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

Parent topic: [Projector Part Locations](#)

## Projector Parts - Control Panel

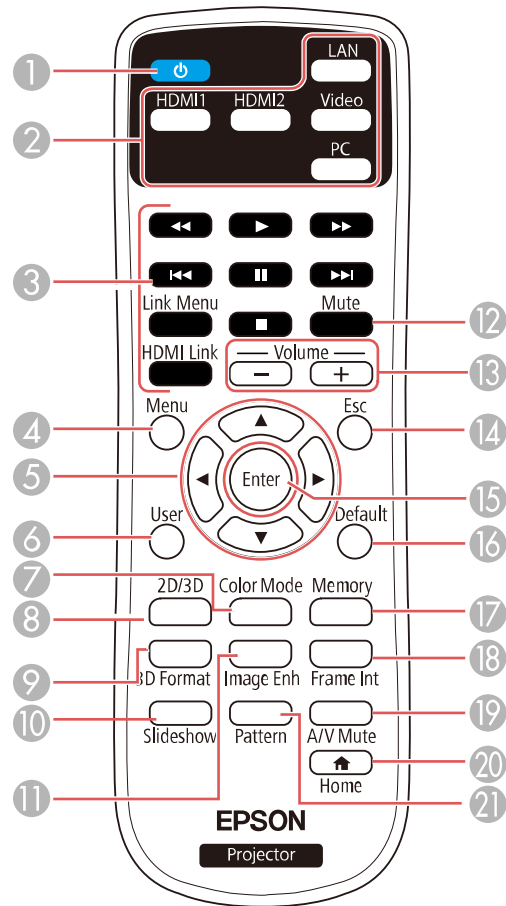


- 1 WLAN light (PowerLite Home Cinema 2045)
- 2 Status light
- 3 Power button/light
- 4 **Home** button (displays the Home screen)
- 5 **Menu** button (accesses projector menu system)
- 6 **Enter** button (selects options)
- 7 **Esc** button (cancels/exits functions)
- 8 Vertical keystone adjustment buttons (adjust screen shape) and arrow buttons
- 9 Volume control buttons, horizontal keystone adjustment buttons (adjusts screen shape), and arrow buttons
- 10 **Source** button (cycles through the list of sources)
- 11 Temp (temperature) light

- 12 Lamp light
- 13 Screen Mirroring light (PowerLite Home Cinema 2045)

Parent topic: [Projector Part Locations](#)

## Projector Parts - Remote Control



- 1 Power button

- 2 Source buttons (select image source)
- 3 **HDMI Link** button (displays the settings menu for HDMI Link), **Link Menu** button (displays the main menu of the connected device), and control buttons (control playback and other features of connected devices that support the HDMI CEC standard)
- 4 **Menu** button (accesses projector menu system)
- 5 Arrow buttons (move through on-screen options)
- 6 **User** button (customizable for different functions)
- 7 **Color Mode** button (selects display modes)
- 8 **2D/3D** button (cycles between 2D and 3D modes)
- 9 **3D Format** button (changes the 3D format)
- 10 **Slideshow** button (changes to the image source connected to the USB Type A port)
- 11 **Image Enh** (enhancement) button (adjusts the noise, contrast, and texture of the projected image)
- 12 **Mute** button (turns off sound only)
- 13 **Volume +/-** buttons (adjust speaker volume)
- 14 **Esc** button (cancels/exits functions)
- 15 **Enter** button (selects options)
- 16 **Default** button (returns selected setting to default value)
- 17 **Memory** button (accesses the Memory menu)
- 18 **Frame Int** (interpolation) button (adjusts the frame interpolation level)
- 19 **A/V Mute** button (turns off picture and sound)
- 20 **Home** button (displays the home screen)
- 21 **Pattern** button (displays a test pattern)

Parent topic: [Projector Part Locations](#)

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# 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 Cover](#)

## Projector Placement

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

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

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

- Place the projector on a sturdy, level surface or install it using a compatible mount.
- Leave plenty of space around and under the projector for ventilation, and do not place it on top of or next to anything that could block the vents.
- Position the projector within reach of a grounded electrical outlet or extension cord.

[Projector Setup and Installation Options](#)

[Projection Distance](#)

**Parent topic:** [Setting Up the Projector](#)

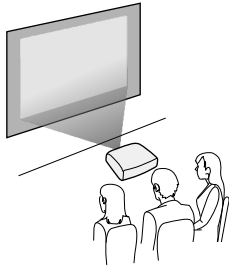
**Related tasks**

[Changing the Projection Mode Using the Menus](#)

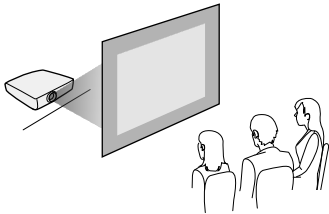
## Projector Setup and Installation Options

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

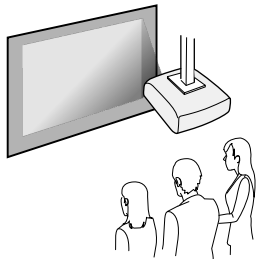
Front



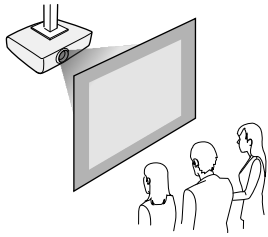
Rear



Front Ceiling



## Rear Ceiling



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](#)

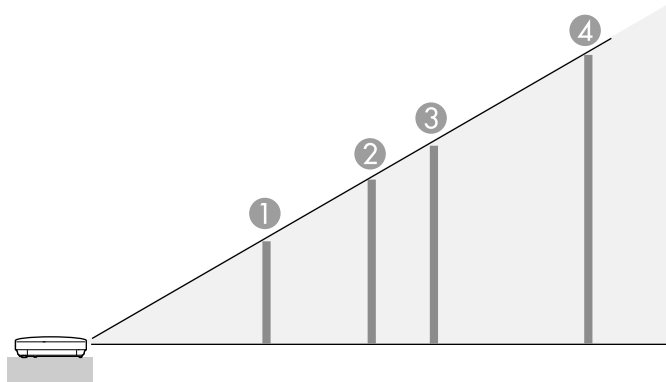
### **Related references**

[Projector Feature Settings - Settings 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.

Use the tables here to determine approximately how far to place the projector from the screen based on the size of the projected image. (Conversion figures may have been rounded up or down.) You can also use the projector Throw Distance Calculator at [epson.com/support](http://epson.com/support) (U.S.) or [epson.ca/support](http://epson.ca/support) (Canada).



#### 16:9 Aspect Ratio Image or Screen

|   | Screen or image size | Projection distance<br>Wide to Tele  |
|---|----------------------|--------------------------------------|
| 1 | 50 inches (126 cm)   | 53 to 64 inches<br>(135 to 162 cm)   |
| 2 | 80 inches (203 cm)   | 85 to 103 inches<br>(217 to 261 cm)  |
| 3 | 100 inches (254 cm)  | 107 to 129 inches<br>(272 to 327 cm) |
| 4 | 150 inches (381 cm)  | 161 to 194 inches<br>(410 to 492 cm) |

#### 4:3 Aspect Ratio Image or Screen



|   | <b>Screen or image size</b> | <b>Projection distance<br/>Wide to Tele</b> |
|---|-----------------------------|---|
| 1 | 50 inches (126 cm)          | 65 to 78 inches<br>(165 to 199 cm)          |
| 2 | 80 inches (203 cm)          | 105 to 126 inches<br>(266 to 320 cm)        |
| 3 | 100 inches (254 cm)         | 131 to 158 inches<br>(334 to 401 cm)        |
| 4 | 150 inches (381 cm)         | 198 to 238 inches<br>(503 to 603 cm)        |

**16:10 Aspect Ratio Image or Screen**

|   | <b>Screen or image size</b> | <b>Projection distance<br/>Wide to Tele</b> |
|---|-----------------------------|---|
| 1 | 50 inches (126 cm)          | 57 to 69 inches<br>(146 to 176 cm)          |
| 2 | 80 inches (203 cm)          | 93 to 111 inches<br>(235 to 283 cm)         |
| 3 | 100 inches (254 cm)         | 116 to 139 inches<br>(294 to 354 cm)        |
| 4 | 150 inches (381 cm)         | 175 to 210 inches<br>(443 to 533 cm)        |

**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.

- For video projection, connect devices such as DVD players, gaming consoles, streaming devices, digital cameras, smartphones, and tablets with compatible video output ports.

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

- For sound, you can connect audio input cables, if necessary.
- Connect any type of computer that has a standard video output (monitor) port, or HDMI port.
- For slide shows without a video source or computer, you can connect USB devices such as a flash drive or camera.

**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 External Speakers](#)

[Connecting to External USB Devices](#)

**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 an MHL-Compatible Device](#)

[Connecting to a Composite Video Source](#)

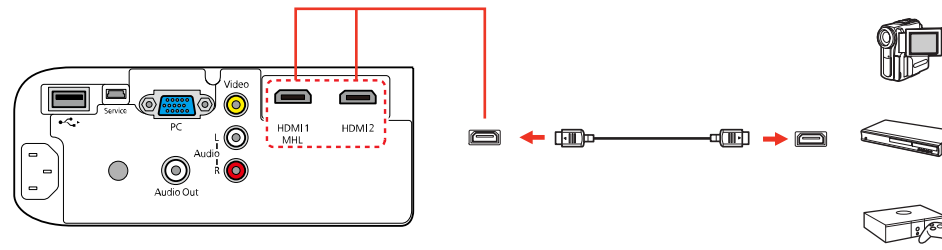
[Connecting to a Video Source for Sound](#)

**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 an optional HDMI cable. The HDMI connection provides the best image quality.

1. Connect the HDMI cable to your video source's HDMI output port.
2. Connect the other end to one of the projector's HDMI ports.



**Note:** The projector converts 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:** When an audio/video source that meets the HDMI CEC standard is connected to the projector's HDMI port, you can use the projector's remote control to control certain features of the linked device by pressing the **HDMI Link** button on the remote control and setting **HDMI Link** to **On**.

**Parent topic:** [Connecting to Video Sources](#)

### Related references

[Projector Feature Settings - Settings Menu](#)

### Related tasks

[Connecting to External Speakers](#)

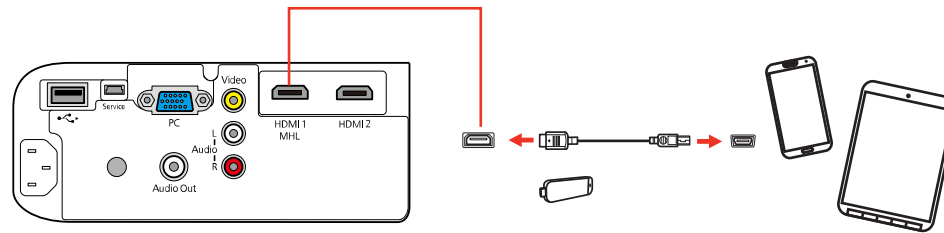
## Connecting to an MHL-Compatible Device

If you have an MHL-compatible smartphone or tablet, you can connect it to the projector using either an MHL cable or an HDMI cable with a device-compatible MHL adapter. If you have a device with a built-in MHL connector, plug it directly into the **HDMI 1/MHL** port.

**Note:** Some connected devices may not charge when using an MHL adapter.

1. Connect the MHL cable or adapter to your device's Micro-USB port.

2. If you are using an MHL adapter, connect it to an MHL-compatible HDMI cable.
3. Connect the other end of the cable to the projector's **HDMI 1/MHL** port.



**Note:** The projector converts 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.

**Parent topic:** [Connecting to Video Sources](#)

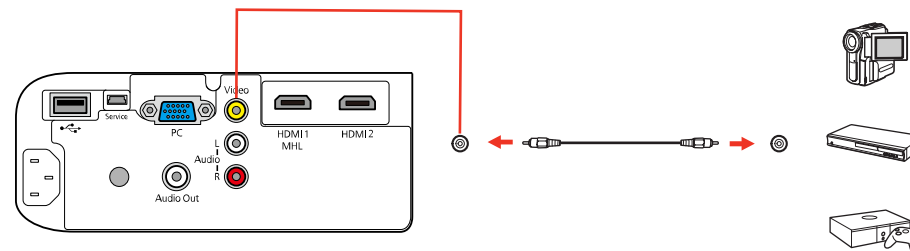
**Related tasks**

[Connecting to External Speakers](#)

### Connecting to a Composite Video Source

If your video source has a composite video port, you can connect it to the projector using an optional RCA-style video or A/V cable.

1. Connect the cable with the yellow connector to your video source's yellow video output port.
2. Connect the other end to the projector's **Video** port.



**Note:** If you connected a game console, it may take a few seconds for your image to appear when you switch to the game console's input source. To reduce the potential lag in response time to game

commands, set your game console's output format to a progressive signal of 480p, 720p, or higher. See your game console documentation for instructions.

**Parent topic:** [Connecting to Video Sources](#)

**Related tasks**

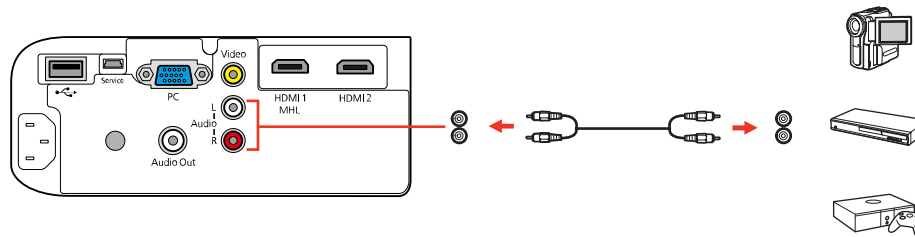
[Connecting to a Video Source for Sound](#)

**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.

**Note:** If you connected your video source to the projector using an HDMI or MHL cable, the audio signal is transferred with the video signal; you do not need an additional cable for sound.

1. Connect the audio cable to your video source's audio-out ports.
2. Connect the other end of the cable to the projector's **Audio** port or ports.



**Note:** To add additional sound, connect your video source and speakers to an audio video receiver, then connect the receiver to the projector using one of the receiver's compatible video outputs (an HDMI connection provides the best image quality, if available). You can also connect speakers to any video source that has its own speaker connections. You can also connect externally powered speakers or headphones to the **Audio Out** port using a 3.5 mm stereo mini jack cable.

**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](#)

[Connecting to a Computer for HDMI Video and Audio](#)

[Connecting to a Computer for Sound](#)

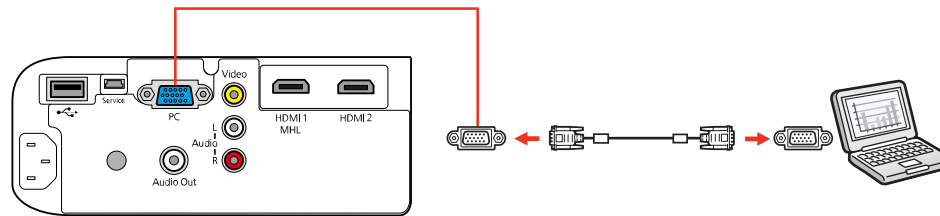
**Parent topic:** [Projector Connections](#)

### Connecting to a Computer for VGA Video

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

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

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



4. Tighten the screws on the VGA connector.

**Parent topic:** [Connecting to Computer Sources](#)

**Related tasks**

[Connecting to a Computer for Sound](#)

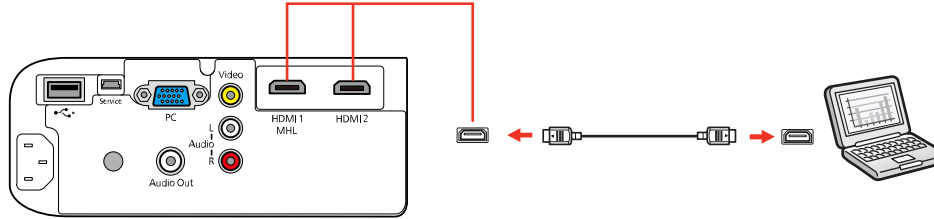
### Connecting to a Computer for HDMI Video and Audio

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

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

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

2. Connect the other end to one of the projector's HDMI ports.



**Note:** The projector converts 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](#)

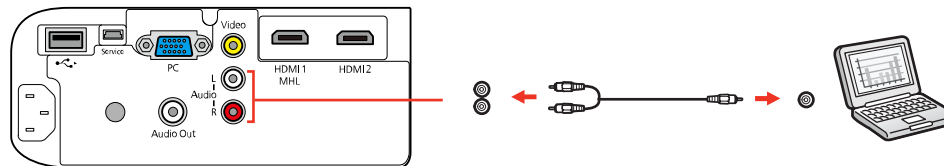
#### Related tasks

[Connecting to External Speakers](#)

### Connecting to a Computer for Sound

If your computer presentation includes sound and you did not connect it using the projector's **HDMI** port, you can still play sound through the projector's speaker system. 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 to the projector's **Audio** ports.



**Parent topic:** [Connecting to Computer Sources](#)

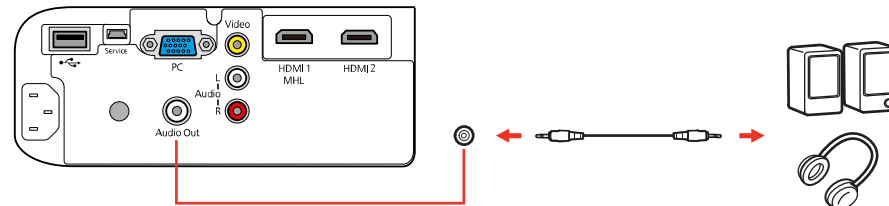
### Connecting to External Speakers

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

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

**Note:** The projector's built-in speaker system is disabled when you connect external 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 your projector's **Audio Out** port.



**Parent topic:** [Projector Connections](#)

## Connecting to External USB Devices

Follow the instructions in these sections to connect external USB devices to the projector.

[USB Device Projection](#)

[Connecting a USB Device or Camera to the Projector](#)

[Selecting the Connected USB Source](#)

[Disconnecting a USB Device or Camera From the Projector](#)

**Parent topic:** [Projector Connections](#)

### USB Device Projection

You can project images and other content without using a computer or video device by connecting any of these devices to your projector:

- USB flash drive
- Digital camera or smartphone
- USB hard drive



- Multimedia storage viewer
- USB memory card reader

**Note:** Digital cameras or smartphones must be USB-mounted devices, not TWAIN-compliant devices, and must be USB Mass Storage Class-compliant.

**Note:** USB hard drives must meet these requirements:

- USB Mass Storage Class-compliant (not all USB Mass Storage Class devices are supported)
- Formatted in FAT or FAT32
- Self-powered by their own AC power supplies (bus-powered hard drives are not recommended)
- Does not have multiple partitions

You can project slide shows from image files on a connected USB device or memory card reader.

**Parent topic:** [Connecting to External USB Devices](#)

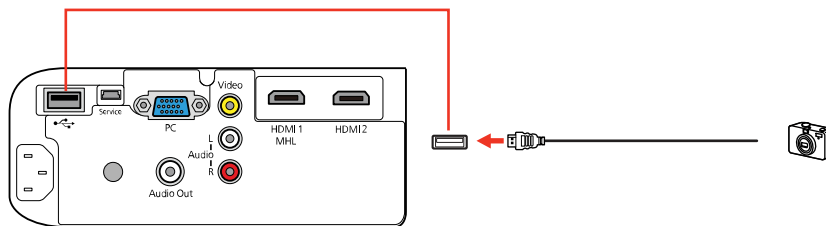
**Related topics**

[Projecting a Slide Show](#)

### Connecting a USB Device or Camera to the Projector

You can connect your USB device or camera to the projector's USB Type A port and use it to project images and other content.

1. If your USB device came with a power adapter, plug the device into an electrical outlet.
2. Connect the USB cable (or USB flash drive or USB memory card reader) to the projector's USB Type A port.



**Note:** Do not connect a USB hub or a USB cable longer than 10 feet (3 m), or the device may not operate correctly.

3. Connect the other end of the cable (if applicable) to your device.

**Parent topic:** [Connecting to External USB Devices](#)

**Related topics**

[Projecting a Slide Show](#)

### Selecting the Connected USB Source

You can switch the projector's display to the source you connected to the USB Type A port.

1. Make sure the connected USB source is turned on, if necessary.
2. Press the **Slideshow** button on the remote control.
3. Press the button again to cycle through other USB sources, if available.

**Parent topic:** [Connecting to External USB Devices](#)

### Disconnecting a USB Device or Camera From the Projector

When you finish presenting with a connected USB device or camera, you must prepare to disconnect the device from the projector.

1. If the device has a power button, turn off and unplug the device.
2. Disconnect the USB device or camera from the projector.

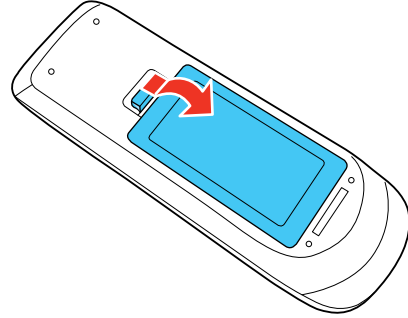
**Parent topic:** [Connecting to External USB Devices](#)

## Installing Batteries in the Remote Control

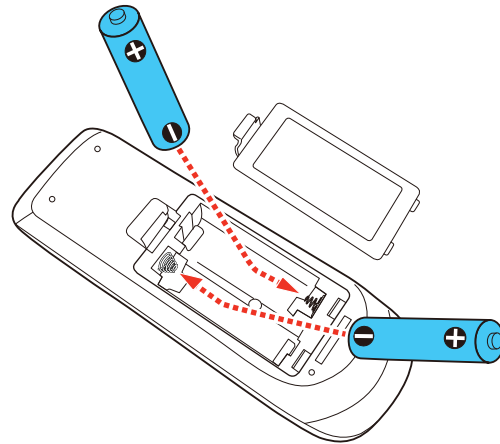
The remote control uses the two AA batteries that came with the projector.

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

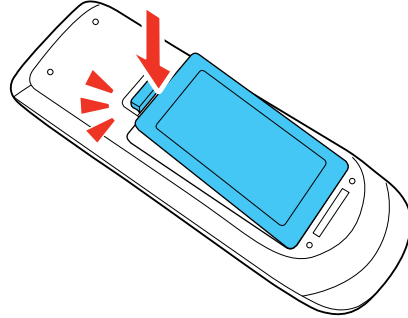
1. Remove the battery cover.



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



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

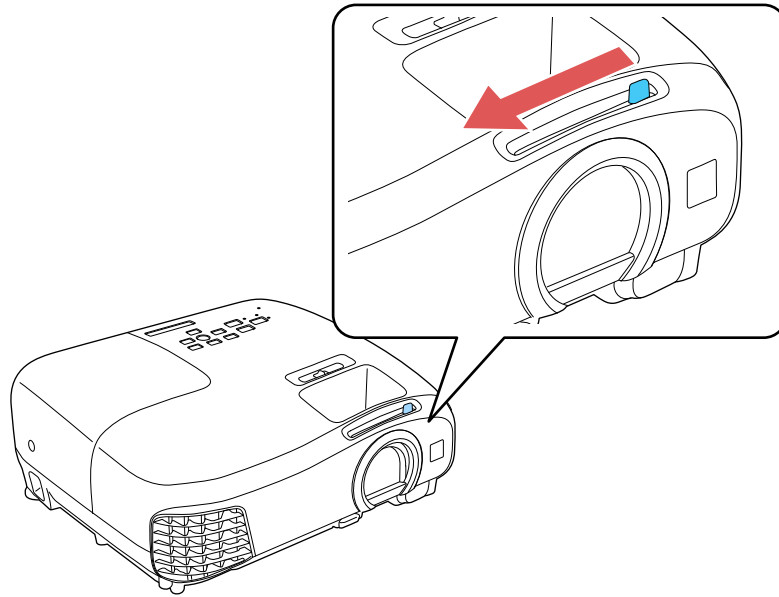


**Warning:** Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

**Parent topic:** [Setting Up the Projector](#)

## Opening the Lens Cover

To open the projector's lens cover, slide the **A/V Mute** slide lever until it clicks into the open position.



Parent topic: [Setting Up the Projector](#)

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# Wireless Network Projection

You can send images to your projector through a wireless network (PowerLite Home Cinema 2045). You can connect the projector to your wireless network by configuring the connection manually using the projector's Network menus.

After setting up the projector, install the network software. You can download the latest software and documentation from the Epson web site.

Use the following software and documentation to set up, control, and monitor wireless projection:

- EasyMP Network Projection software sets up your computer for wireless network projection. Go to [epson.com/support](http://epson.com/support) (U.S.) or [epson.ca/support](http://epson.ca/support) (Canada) and select your projector.
- Projection from iOS or Android devices with the wireless LAN module and free Epson iProjection app; visit [epson.com/projectorapp](http://epson.com/projectorapp) (U.S.) or [epson.ca/projectorapp](http://epson.ca/projectorapp) (Canada) for more information

[Selecting Wireless Network Settings Manually](#)

[Searching for a Wireless Network](#)

[Selecting Wireless Network Settings in Windows](#)

[Selecting Wireless Network Settings in OS X](#)

[Setting Up Wireless Network Security](#)

[Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

## Selecting Wireless Network Settings Manually

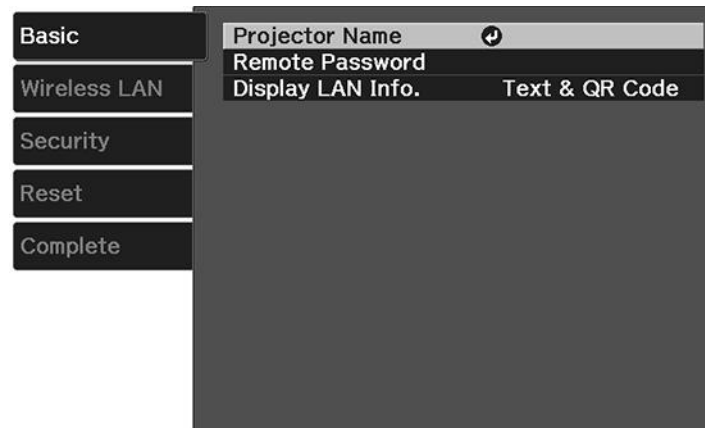
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

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

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



4. Make sure the **Wireless LAN Power** option is set to **On**.
5. Select **Network Configuration** and press **Enter**.
6. Select the **Basic** menu and press **Enter**.

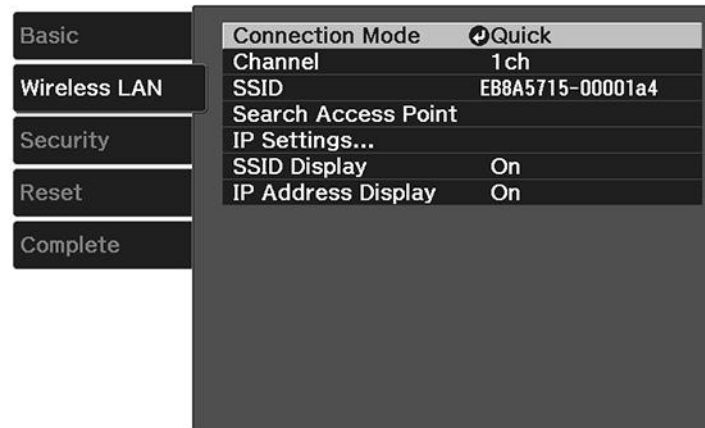


7. Select the following basic options as necessary:

- **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
- **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web. (Default user name is **EPSONWEB**; default password is **admin**.)
- **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices using the Epson iProjection app.

**Note:** Use the displayed keyboard to enter the name and password. Press the arrow buttons on the remote control to highlight characters and press **Enter** to select them.

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



9. Select the settings on the **Wireless LAN** menu as necessary for your network.

**Note:** Some items may be unavailable if Quick or Advanced connection mode is selected.

10. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.



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



## Wireless LAN Menu Settings

Parent topic: [Wireless Network Projection](#)

### Wireless LAN Menu Settings

| Setting                    | Options  | Description  |
|----------------------------|--|--|
| <b>Connection Mode</b>     | <b>Quick</b><br><b>Advanced</b>  | Selects the type of wireless connection:<br><b>Quick:</b> lets you quickly connect to one computer, smartphone, or tablet<br><b>Advanced:</b> lets you connect to a wireless network access point  |
| <b>Channel</b>             | <b>1ch</b><br><b>6ch</b><br><b>11ch</b>  | In <b>Quick</b> connection mode, selects the frequency band (channel) used by the wireless LAN   |
| <b>SSID</b>                | Up to 32 alphanumeric characters (spaces not recommended)                                    | Sets the SSID (network name) of the wireless LAN system the projector is connecting to   |
| <b>Search Access Point</b> | —  | Displays the access point status;  indicates currently connected access points;  indicates access points where security is set |
| <b>IP Settings</b>         | <b>DHCP (On or Off)</b><br><b>IP Address</b><br><b>Subnet Mask</b><br><b>Gateway Address</b> | Selects DHCP if your network assigns addresses automatically, or turns off DHCP so you can enter the network's IP address, subnet mask, and gateway address as needed  |
| <b>SSID Display</b>        | <b>On</b><br><b>Off</b>  | Selects whether to display the SSID on the network standby screen  |

| Setting            | Options   | Description   |
|--------------------|-----------|---|
| IP Address Display | On<br>Off | Selects whether to display the IP address on the network standby screen |

Parent topic: [Selecting Wireless Network Settings Manually](#)

## Searching for a Wireless Network

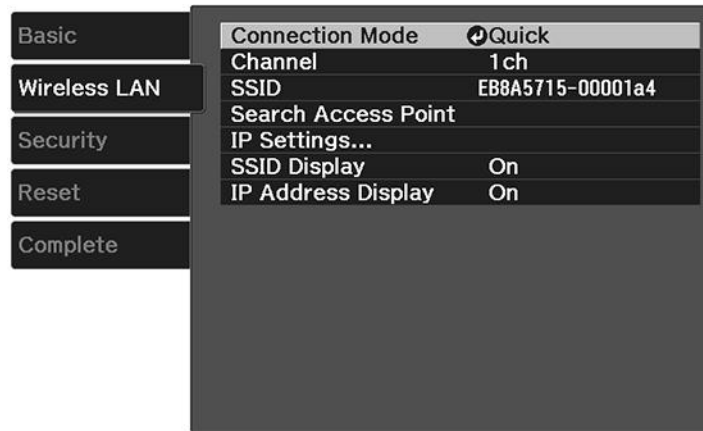
You can use your projector's site survey function to quickly locate and connect to available wireless networks.

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

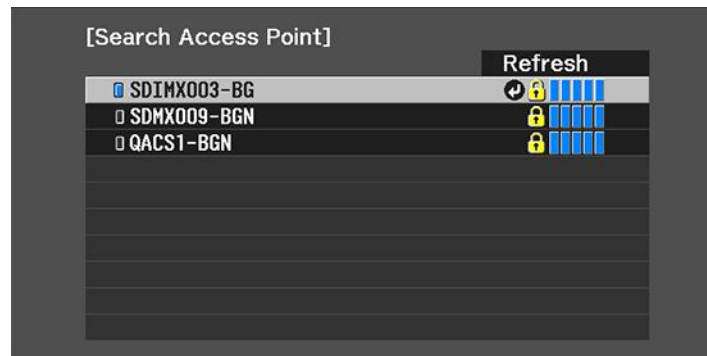


4. Select **Network Configuration** and press **Enter**.

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



6. Select **Advanced** as the Connection Mode setting and press **Enter**.
7. Select **Search Access Point** and press **Enter**.



8. Select the name of the wireless network you want to connect to and press **Enter**.
9. If the network has security enabled, enter the wireless password.

You see a screen like this:



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

Parent topic: [Wireless Network Projection](#)

## Selecting Wireless Network Settings in Windows

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

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

Parent topic: [Wireless Network Projection](#)

## Selecting Wireless Network Settings in OS X

Before connecting to the projector, select the correct wireless network in OS X.

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

Parent topic: [Wireless Network Projection](#)

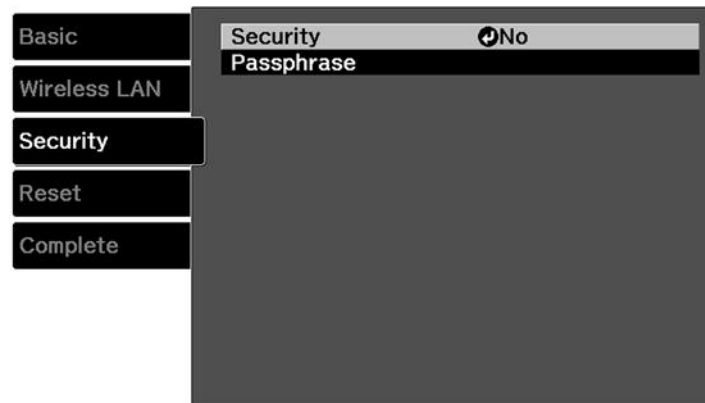
## Setting Up Wireless Network Security

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

- WPA/WPA2-PSK security (Advanced connection mode)
- WPA2-PSK security (Quick connection mode)

Check with your network administrator for guidance on entering the correct information.

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



5. Select the security settings for your network.

- When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

[Wireless Security Menu Settings](#)

**Parent topic:** [Wireless Network Projection](#)

**Related references**

[Projector Network Settings - Network Menu](#)

## Wireless Security Menu Settings

Settings on the Security menu let you select the type of security and security settings that match the network you are connecting the projector to.

| Setting           | Options  | Description  |
|-------------------|--|--|
| <b>Security</b>   | <b>WPA2-PSK</b> and <b>WPA</b> types available | Selects the type of security used on the wireless network                      |
| <b>Passphrase</b> | Various keys from 8 to 32 characters           | Selects the pre-shared key used on the network; passphrases are case-sensitive |

**Parent topic:** [Setting Up Wireless Network Security](#)

## Wireless Network Projection from a Mobile Device (Screen Mirroring)

You can send images to your projector from mobile devices such as laptops, smartphones, and tablets using Intel WiDi (version 3.5 or later) and Miracast technology (PowerLite Home Cinema 2045).

If your device supports Intel WiDi or Miracast, you do not need to install any additional software.

[Screen Mirroring Restrictions](#)

[Selecting Screen Mirroring Settings](#)

[Connecting for Screen Mirroring Using Windows 10](#)

[Connecting for Screen Mirroring Using Windows 8.1](#)

[Connecting for Screen Mirroring Using Windows 7/Windows 8](#)

[Connecting for Screen Mirroring with Miracast](#)

**Parent topic:** [Wireless Network Projection](#)

## Screen Mirroring Restrictions

Note the following when using Screen Mirroring features:

- You cannot play audio with more than 3 channels.
- You cannot project images with a resolution above 1920 × 1080 and a frame rate above 50 fps.
- You cannot play 3D video.
- Extended Miracast features on Windows 8.1 are not supported.
- The extended Intel WiDi version 4 features are not supported.
- You may not be able to view contents with copyright protection with a Miracast connection.

**Parent topic:** [Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

## Selecting Screen Mirroring Settings

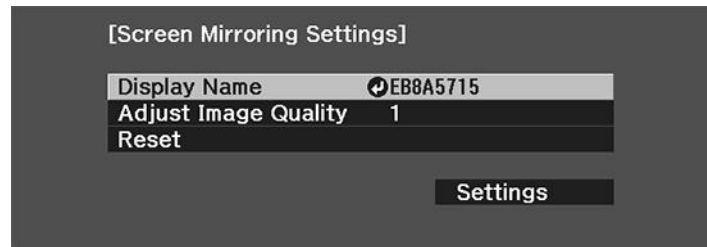
You can select Screen Mirroring settings for your projector and then project images from your mobile device.

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



3. Set the **Screen Mirroring** setting to **On**.

4. Select **Screen Mirroring Settings** and press **Enter**.



5. Select these Screen Mirroring settings as necessary:
  - **Display Name** lets you enter a name up to 32 alphanumeric characters long to identify the projector from a list of available devices.
  - **Adjust Image Quality** lets you adjust the screen mirroring speed/quality. Select a small number to improve the quality and select a large number to increase the speed.
6. When you finish selecting settings, select **Settings** and follow the on-screen instructions to save your settings and exit the menu.

**Parent topic:** [Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

## Connecting for Screen Mirroring Using Windows 10

You can set up your computer for wireless projection from the Devices menu in Windows 10.

1. Select the **Screen Mirroring Settings** on your projector as necessary.
2. Press the **LAN** button on the remote control to switch to the Screen Mirroring source.  
You see the Screen Mirroring standby screen.
3. Select **Apps**.
4. Select **Settings**.
5. Select **Devices**.
6. Select **Connected Devices**.
7. Click **Add a device**.



You see a list of available devices.



8. Select your projector from the list.
9. If you see the PIN entry screen on your computer or mobile device, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image and click **Next**.  
The projector displays the image from your computer or mobile device.

**Note:** It may take some time to establish the connection. Do not disconnect the projector's power cord while it is connecting to your device. This may cause your device to freeze or malfunction.

**Parent topic:** [Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

#### **Related tasks**

[Selecting Screen Mirroring Settings](#)

## **Connecting for Screen Mirroring Using Windows 8.1**

You can set up your computer for wireless projection from the Devices menu in Windows 8.1.

1. Select the **Screen Mirroring Settings** on your projector as necessary.
2. Press the **LAN** button on the remote control to switch to the Screen Mirroring source.  
You see the Screen Mirroring standby screen.
3. On your computer, navigate to the Apps screen.
4. Select **PC settings**.
5. Select **PC and devices**.

6. Select **Devices**.
7. Click **Add a device**.

You see a list of available devices.



8. Select your projector from the list.
9. If you see the PIN entry screen on your computer or mobile device, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image and click **Next**.  
The projector displays the image from your computer or mobile device.

**Note:** It may take some time to establish the connection. Do not disconnect the projector's power cord while it is connecting to your device. This may cause your device to freeze or malfunction.

**Parent topic:** [Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

#### **Related tasks**

[Selecting Screen Mirroring Settings](#)

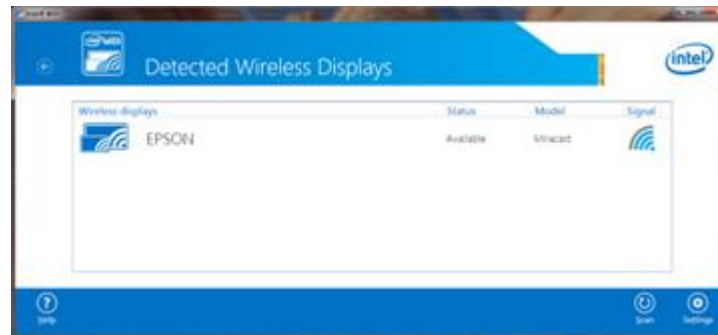
## **Connecting for Screen Mirroring Using Windows 7/Windows 8**

If you are using Windows 7 or Windows 8, you can use the Intel WiDi software to connect to the projector wirelessly and project images and audio.

1. Select the **Screen Mirroring Settings** on your projector as necessary.
2. Press the **LAN** button on the remote control to switch to the Screen Mirroring source.

You see the Screen Mirroring standby screen.

3. On your computer or mobile device, open the Intel WiDi software.  
You see a list of available devices.



4. Select your projector's **Display Name** from the list.
5. If you see the PIN entry screen on your computer or mobile device, enter the PIN code displayed on the projector's Screen Mirroring standby screen or at the bottom right of the projected image.  
The projector displays the image from your mobile device.

**Note:** It may take some time to establish the WiDi connection. Do not disconnect the projector's power cord while it is connecting to your device. This may cause your device to freeze or malfunction.

**Parent topic:** [Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

#### **Related tasks**

[Selecting Screen Mirroring Settings](#)

### **Connecting for Screen Mirroring with Miracast**

If your mobile device supports Miracast, you can connect it to the projector wirelessly and project images and sound.

1. Select the **Screen Mirroring Settings** on your projector as necessary.
2. Press the **LAN** button on the remote control to switch to the Screen Mirroring source.  
You see the Screen Mirroring standby screen.

3. On your mobile device, use the Miracast function to search for the projector.

**Note:** See your mobile device's documentation for information on accessing the Miracast function.

You see a list of available devices.

4. Select your projector from the list.
5. If you see the PIN entry screen on your mobile device, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image.

The projector displays the image from your mobile device.

**Note:** It may take some time to establish the connection. Do not disconnect the projector's power cord while it is connecting to your device. Doing so may cause your device to freeze or malfunction.

Depending on the mobile device, you may need to delete a device when connecting. Follow the on-screen instructions on your device.

**Parent topic:** [Wireless Network Projection from a Mobile Device \(Screen Mirroring\)](#)

#### **Related tasks**

[Selecting Screen Mirroring Settings](#)

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# Using Basic Projector Features

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

[Turning On the Projector](#)

[Turning Off the Projector](#)

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[Selecting the Language for the Projector Menus](#)

[Adjusting the Image Height](#)

[Image Shape](#)

[Resizing the Image with the Zoom Ring](#)

[Focusing the Image Using the Focus Ring](#)

[Remote Control Operation](#)

[Selecting an Image Source](#)

[Projection Modes](#)

[Image Aspect Ratio](#)

[Color Mode](#)

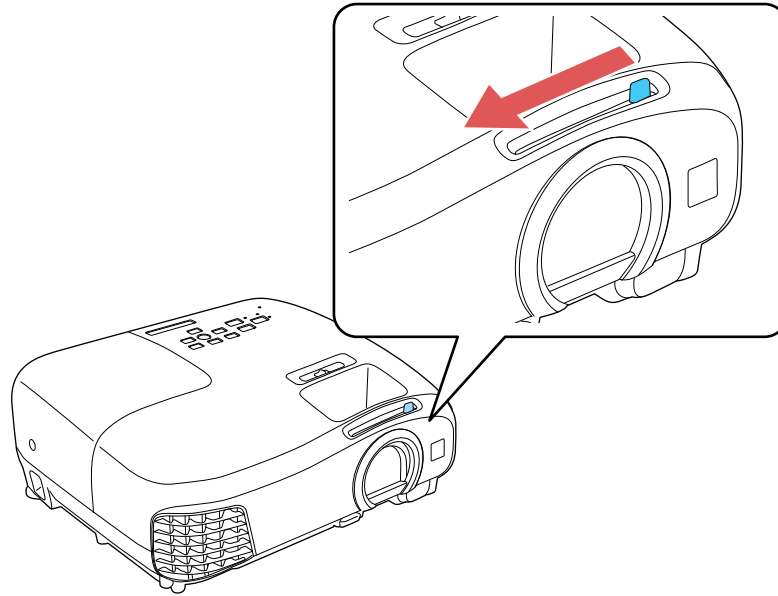
[Controlling the Volume with the Volume Buttons](#)

[Projecting a Slide Show](#)

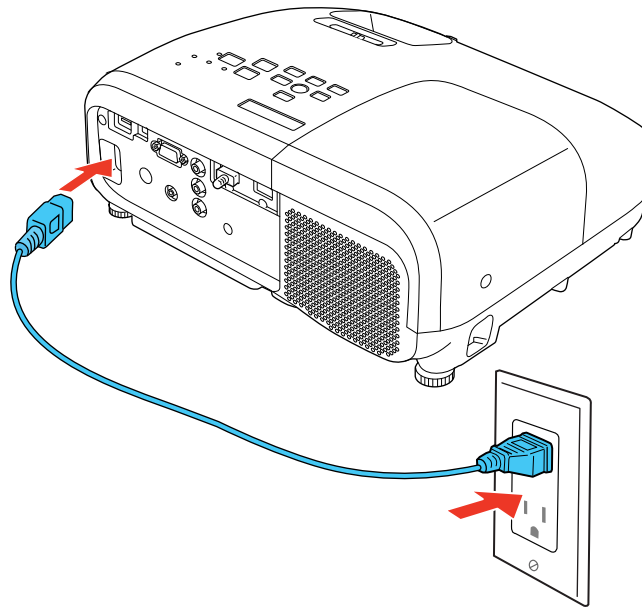
## Turning On the Projector

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

1. Slide the projector's lens cover until it clicks into the open position.



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



3. Plug the power cord into an electrical outlet.

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

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

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

The projector beeps and the Status light flashes blue as the projector warms up. Once the projector is warmed up, the Status light stops flashing and turns blue.

**Warning:** Never look into the projector lens when the lamp is 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 cover is 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 button for the video source on the remote control.
- Press the **Source** button on the projector to detect the video source, or press a source button on the remote control.
- If the Home screen is displayed, select the source you want to project.

**Parent topic:** [Using Basic Projector Features](#)

**Related references**

[Projector Setup Settings - Extended Menu](#)

## Turning Off the Projector

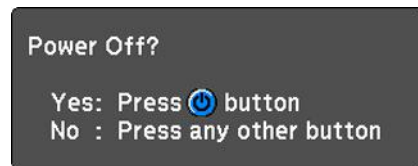
Before turning off the projector, shut down any computer connected to it so you can see the computer display during shutdown.

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

**Note:** When using the A/V Mute feature, the projector lamp is still on. To turn off the lamp, turn off the projector.

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

The projector displays a shutdown confirmation screen.



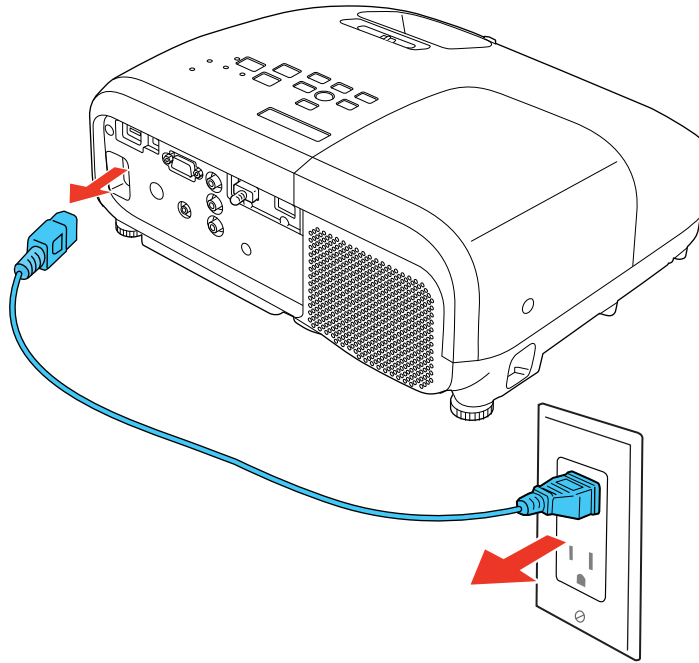
2. Press the power button again. (To leave it on, press any other button.)

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

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

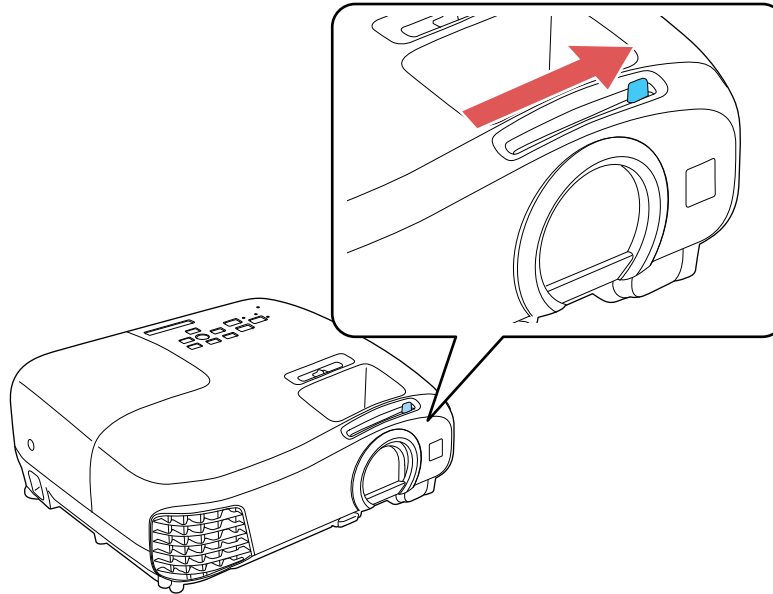


3. To transport or store the projector, make sure the Status light is off, then unplug the power cord.



**Caution:** To avoid damaging the projector or lamp, never unplug the power cord when the Status light is on or flashing.

4. Slide the projector's lens cover until it clicks into the closed position.



Parent topic: [Using Basic Projector Features](#)

## Viewing 3D Images

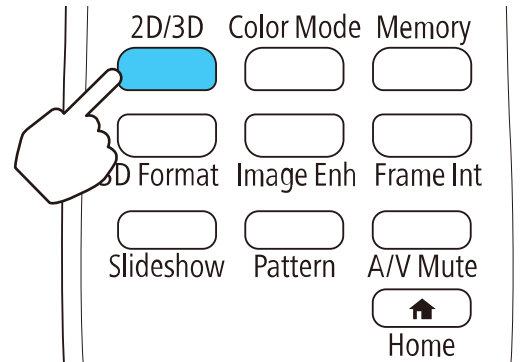
You can view 3D images using your projector. Viewing 3D images requires a 3D-compatible video device and a pair of Epson RF 3D glasses (not included with your projector). You can also convert 2D images to 3D using the **2D-to-3D Conversion** setting in your projector's **Signal > 3D Setup** menu.

You can purchase Epson RF 3D glasses from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at [epsonstore.com](http://epsonstore.com) (U.S. sales) or [epson.ca](http://epson.ca) (Canadian sales).

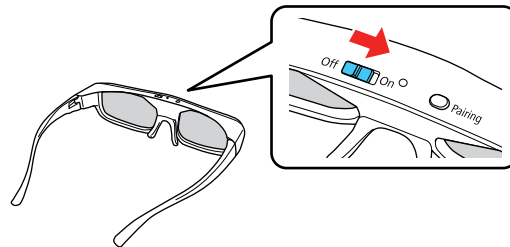
1. Connect a 3D-compatible video device to the projector using a compatible HDMI cable.
2. Turn on the video device, then turn on the projector.
3. Begin playback from the video device.

**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. Slide the power switch on the 3D glasses to the **On** position.



6. Put on the 3D glasses. If you do not see a 3D image, pair the glasses with the projector.

**Note:** If you change the video source or you are not within range of your projector, the glasses enter standby mode and the status light flashes green. Slide the power switch on the glasses to the **Off** position and then back to the **On** position to resume 3D viewing.

[Pairing the 3D Glasses with the Projector](#)

[Charging the 3D Glasses](#)

[3D Viewing Range](#)

**Parent topic:** [Using Basic Projector Features](#)

## Related tasks

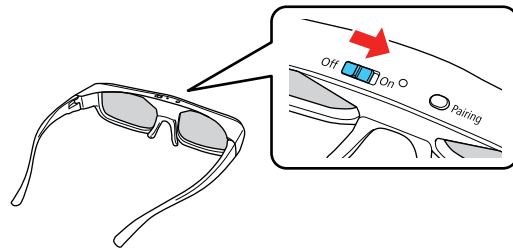
[Connecting to an HDMI Video Source](#)

[Connecting to a Computer for HDMI Video and Audio](#)

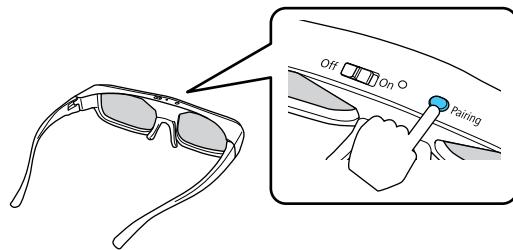
## Pairing the 3D Glasses with the Projector

Pair the glasses with the projector to establish communication between them for 3D viewing.

1. Turn on the projector.
2. Set the image source to HDMI.
3. Project a 3D image.
4. Slide the power switch on the 3D glasses to the **On** position.



5. Move the glasses within 10 feet (3 m) of the projector, then hold down the **Pairing** button on the glasses for at least three seconds.



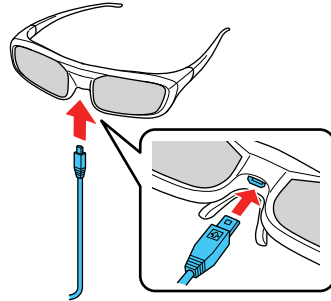
The status light on the glasses flashes green and red. If pairing is successful, the light turns green for 10 seconds and then turns off.

**Parent topic:** [Viewing 3D Images](#)

## Charging the 3D Glasses

Charge the glasses when the status light on the glasses flashes red to indicate a low battery.

1. Connect the smaller end of the charging cable to the port on the bridge of the glasses.



**Note:** Make sure you connect the cable in the correct orientation or you may damage the glasses or cable.

2. Connect the other end of the cable to the USB Type A port on the projector or any other device such as a computer that has an active USB Type A port.

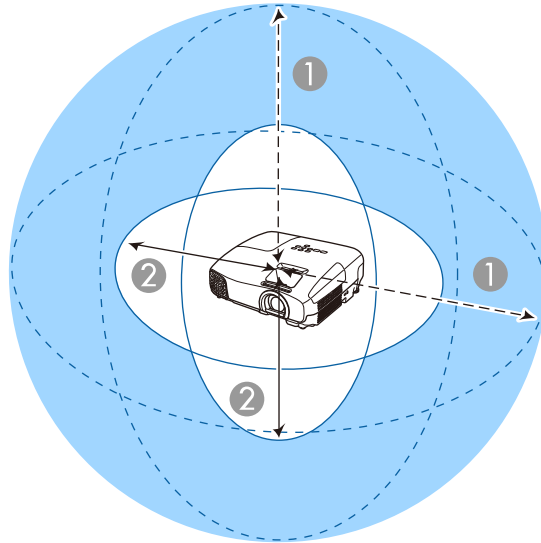
**Note:** The projector must be turned on to charge the glasses.

The glasses are fully charged when the status light on the glasses stays green.

**Parent topic:** [Viewing 3D Images](#)

## 3D Viewing Range

When you view 3D images, make sure you are positioned within the viewing range shown here.



1 32 ft (10 m)

2 10 ft (3 m)

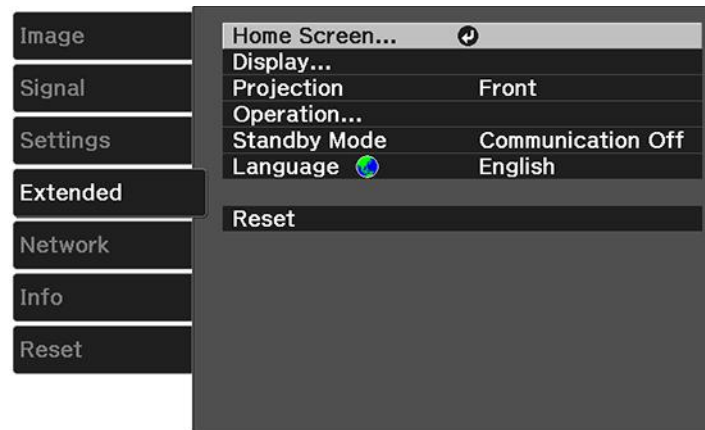
Parent topic: [Viewing 3D Images](#)

## 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.

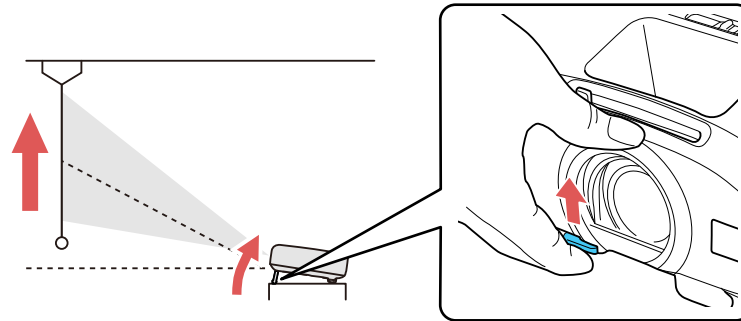
Parent topic: [Using Basic Projector Features](#)

## 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.

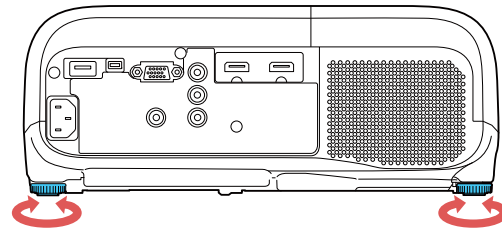
1. Turn on the projector and display an image.

2. To adjust the front foot, pull up on the foot release lever and lift the front of the projector.



The foot extends from the projector.

3. Release the lever to lock the foot.
4. If the image is tilted, rotate the rear feet to adjust their height.



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

**Parent topic:** [Using Basic Projector Features](#)

**Related concepts**

[Image Shape](#)

## Image Shape

You can project an evenly rectangular image by placing the projector directly in front of the center of the screen and keeping it level. If you place the projector at an angle to the screen, or tilted up or down, or off to the side, you may need to correct the image shape for the best display quality.



When you turn on automatic keystone correction in your projector's Settings menu, your projector automatically corrects vertical keystone effects when you reposition the projector.

[Correcting Image Shape with the Horizontal Keystone Slider](#)

[Correcting Image Shape with the Keystone Buttons](#)

**Parent topic:** [Using Basic Projector Features](#)

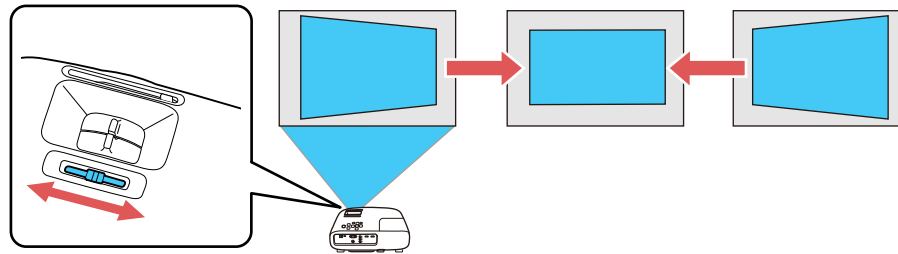
## Correcting Image Shape with the Horizontal Keystone Slider

You can use the projector's horizontal keystone slider to correct the shape of an image that is unevenly rectangular horizontally, such as when the projector is placed to the side of the projection area.

1. Turn on the projector and display an image.

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

2. Adjust the slider until the image is evenly rectangular.



After correction, your image is slightly smaller.

**Parent topic:** [Image Shape](#)

**Related references**

[Projector Feature Settings - Settings Menu](#)

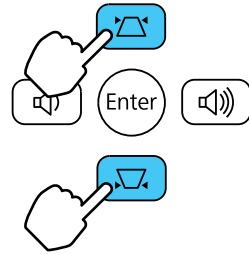
## Correcting Image Shape with the Keystone Buttons

You can use the projector's keystone correction buttons to correct the shape of an image that is unevenly rectangular on the sides.

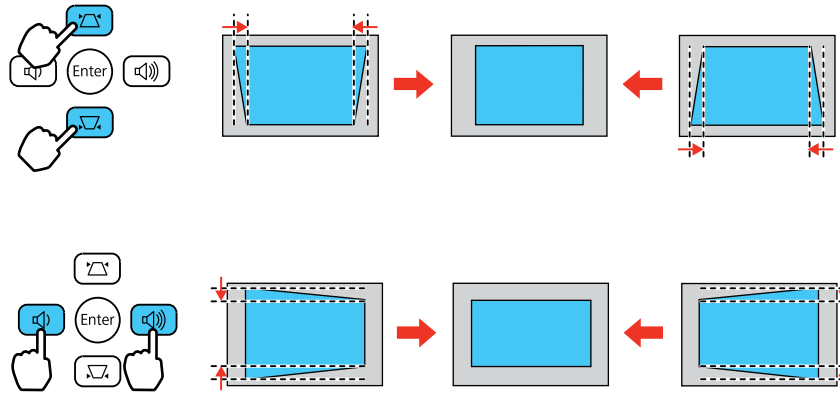
1. Turn on the projector and display an image.

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

2. Press one of these keystone buttons on the control panel to display the Keystone adjustment screen.



3. Press a keystone button on the projector's control panel to adjust the image shape.



After correction, your image is slightly smaller.

**Note:** If the projector is installed out of reach, you can also correct the image shape with the remote control using the **Keystone** settings in the projector menus.

**Parent topic:** [Image Shape](#)

**Related references**

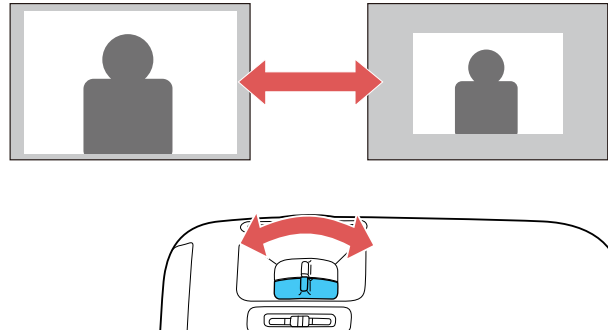
[Projector Feature Settings - Settings Menu](#)

## Resizing the Image with the Zoom Ring

1. Turn on the projector and display an image.

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

2. To enlarge or reduce the image size, rotate the projector's zoom ring.



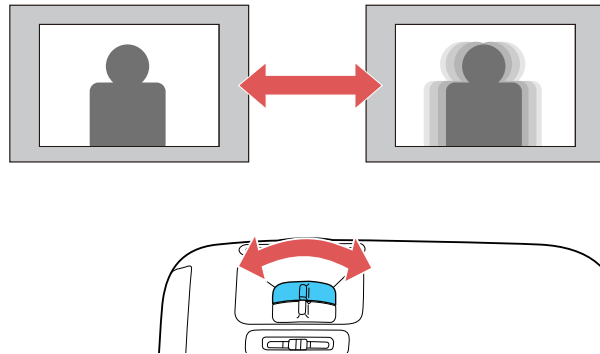
Parent topic: [Using Basic Projector Features](#)

## Focusing the Image Using the Focus Ring

1. Turn on the projector and display an image.

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

2. To sharpen the image focus, rotate the projector's focus ring.



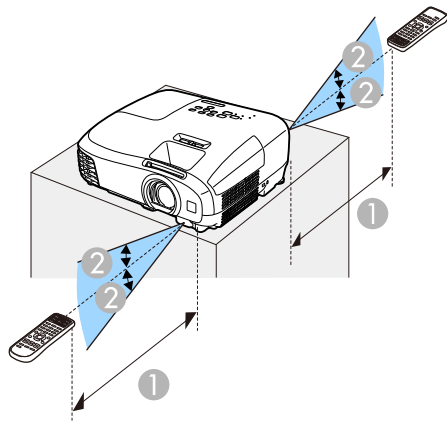
Parent topic: [Using Basic Projector Features](#)

## 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.

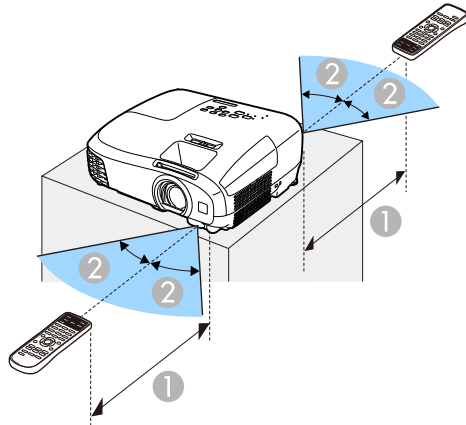
Make sure that you aim the remote control at the projector's receivers within the distance and angles listed here.

### Vertical



- 1 19.7 feet (6 m)
- 2  $\pm 15^\circ$

### Horizontal



- 1 19.7 feet (6 m)
- 2  $\pm 30^\circ$

**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

[Installing Batteries in the Remote Control](#)

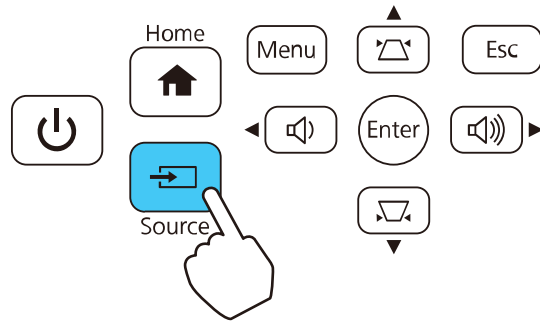
## Selecting an Image Source

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.

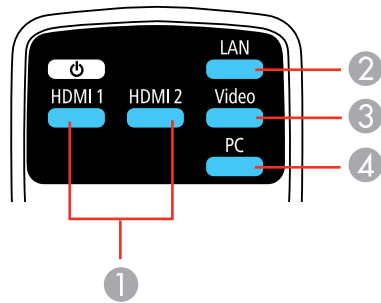
1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press its play button, if necessary.

3. Do one of the following:

- Press the **Source** button on the projector 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 HDMI port sources
- 2 Network source
- 3 Video sources
- 4 PC port (VGA) 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.

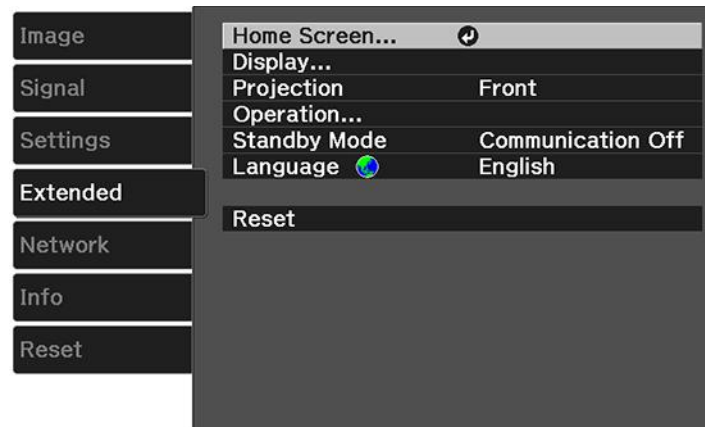
[Changing the Projection Mode Using the Menus](#)

Parent topic: [Using Basic Projector Features](#)

## Changing the Projection Mode Using the Menus

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

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



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

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

**Parent topic:** [Projection Modes](#)

**Related concepts**

[Projector Placement](#)

## 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](#)

## Changing the Image Aspect Ratio

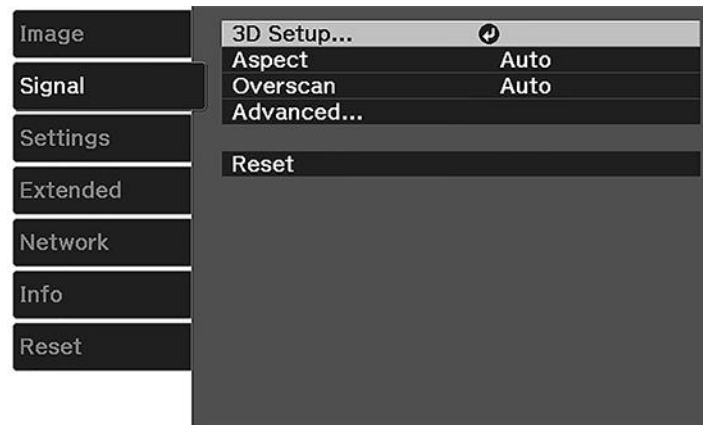
You can change the aspect ratio of the displayed image to resize it.

**Note:** For HDMI sources, the input signal determines the image's aspect ratio.

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



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



4. Select **Aspect** and press **Enter**.
5. Select the aspect ratio you want to use for your input signal and press **Enter**.
6. Select **Menu** or **Exit** to exit the menus.

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  |
|----------------------|--|
| <b>Auto</b>          | Automatically sets the aspect ratio according to the input signal.                                       |
| <b>Normal</b>        | Displays images using the full projection area and maintains the aspect ratio of the image.              |
| <b>Zoom</b>          | Displays images using the full width of the projection area and maintains the aspect ratio of the image. |

| Aspect ratio setting | Description  |
|----------------------|--|
| Full                 | Displays images using the full width of the projection area, but does not maintain the aspect ratio. |

**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**

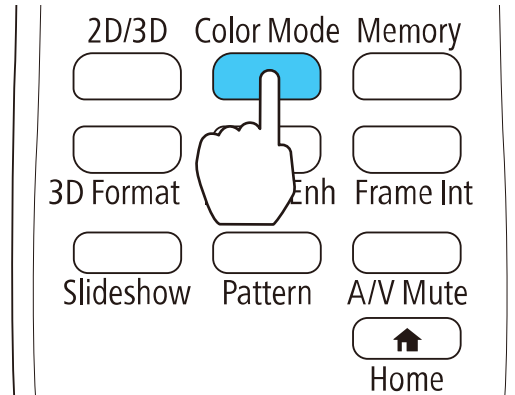
[Image Quality Settings - Image Menu](#)

## 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.



A list of available Color Modes appears.

4. To cycle through all the available Color Modes for your input signal, press the up or down arrow button.
5. Press **Enter** to select a Color Mode.

**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                                |
|----------------------|--|
| <b>Dynamic</b>       | Best for projecting in a bright room       |
| <b>Bright Cinema</b> | Best for movies projected in a bright room |
| <b>Natural</b>       | Best for projecting in a dark room         |
| <b>Cinema</b>        | Best for movies projected in a dark room   |

### 3D Images

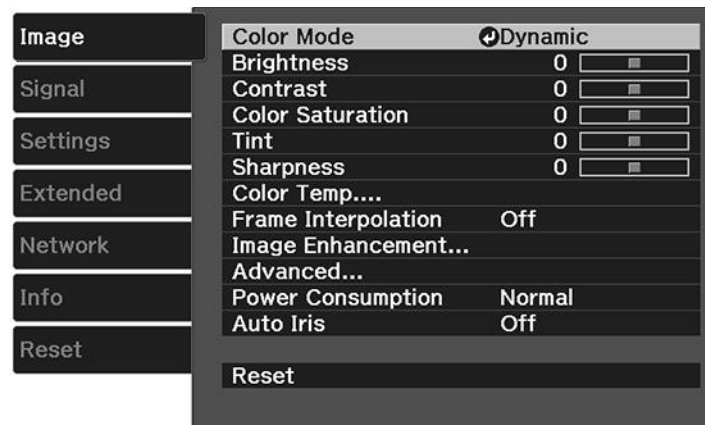
| Color Mode | Description                              |
|------------|--|
| 3D Dynamic | Best for projecting in a bright room     |
| 3D Cinema  | Best for movies projected in a dark room |

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**.



4. Select the **Auto Iris** setting and choose one of the following:
  - **High Speed** to adjust brightness as soon as the scene changes.
  - **Normal** for standard brightness adjustment.

**Note:** You can set **Auto Iris** for each Color Mode that supports the feature.

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

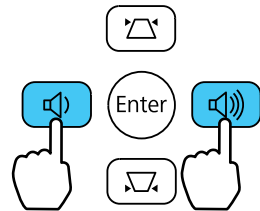
Parent topic: [Color Mode](#)

## 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, use the projector menus.

Parent topic: [Using Basic Projector Features](#)

### Related references

[Projector Feature Settings - Settings Menu](#)

## Projecting a Slide Show

You can use your projector's Slideshow feature whenever you connect a USB device that contains compatible image files. This lets you quickly and easily display a slide show, and control it using the projector's remote control.

[Supported Slideshow File Types](#)

[Slideshow Features](#)

[Starting a Slide Show](#)

Parent topic: [Using Basic Projector Features](#)

**Related concepts**[USB Device Projection](#)**Related tasks**[Connecting a USB Device or Camera to the Projector](#)

## Supported Slideshow File Types

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

**Note:** For best results, place your files on media that is formatted in FAT16/32.

| File contents | File type (extension) | Details  |
|---------------|-----------------------|--|
| Image         | .jpg                  | Make sure the file is not: <ul style="list-style-type: none"><li>• CMYK format</li><li>• Progressive format</li><li>• Highly compressed</li><li>• Above 8192 × 8192 resolution</li></ul> |

**Parent topic:** [Projecting a Slide Show](#)

## Slideshow Features

Your projector's Slideshow feature lets you do the following:

- Display individual images
- Present a slide show of all images in a folder

**Parent topic:** [Projecting a Slide Show](#)

## Starting a Slide Show

After connecting a USB device to the projector, you can switch to the USB input source and start your slide show.

**Note:** You can change the Slideshow operation options or add special effects by highlighting **Option** at the bottom of the screen and pressing **Enter**.

1. Press the **Slideshow** button on the projector remote control.  
The Slideshow screen appears.



2. Do the following as necessary to locate your files:
  - If you need to display files inside a subfolder on your device, press the arrow buttons to highlight the folder and press the **Enter** button.
  - To move back up a folder level on your device, highlight **Back to Top** and press **Enter**.
  - To view additional images in a folder, highlight **Next page** or **Previous page** and press **Enter**.
3. Do one of the following to start your slide show:
  - To display an individual image, press the arrow buttons to highlight the image and press **Enter**. (Press the **Esc** button to return to the file list screen.)
  - To display a slide show of all the images in a folder, press the arrow buttons to highlight the **Slideshow** option at the bottom of the screen and press **Enter**.

**Note:** If any file names are longer than 8 characters or include unsupported symbols, the file names may be shortened or changed only in the screen display.

4. While projecting, use the following commands to control the display as necessary:
  - To rotate a displayed image, press the up or down arrow button.
  - To move to the next or previous image, press the left or right arrow button.

5. To stop the display, follow the on-screen instructions or press the **Esc** button.

### [Slideshow Display Options](#)

**Parent topic:** [Projecting a Slide Show](#)

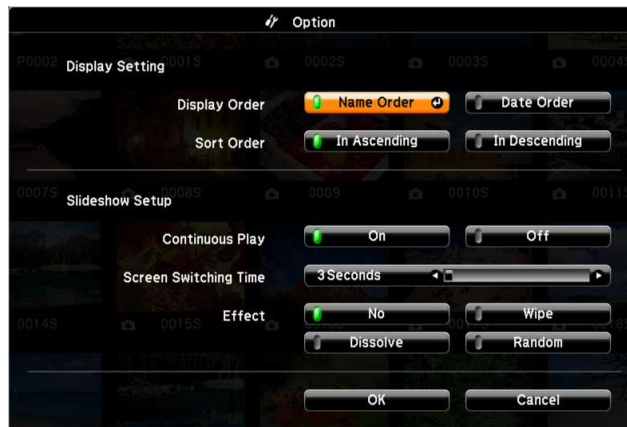
#### **Related tasks**

[Connecting a USB Device or Camera to the Projector](#)

[Disconnecting a USB Device or Camera From the Projector](#)

### **Slideshow Display Options**

You can select these display options when using the projector's Slideshow feature.



| Setting         | Options       | Description                            |
|-----------------|---------------|--|
| Display Order   | Name Order    | Displays files in name order           |
|                 | Date Order    | Displays files in date order           |
| Sort Order      | In Ascending  | Sorts files in first-to-last order     |
|                 | In Descending | Sorts files in last-to-first order     |
| Continuous Play | On            | Displays a slide show continuously     |
|                 | Off           | Displays a slide show one time through |



| <b>Setting</b>               | <b>Options</b>         | <b>Description</b>  |
|------------------------------|------------------------|---|
| <b>Screen Switching Time</b> | <b>No</b>              | Does not display the next file automatically  |
|                              | 1 Second to 60 Seconds | Displays files for the selected time and switches to the next file automatically; high resolution images may switch at a slightly slower rate |
| <b>Effect</b>                | <b>Wipe</b>            | Transitions between images with a wipe effect   |
|                              | <b>Dissolve</b>        | Transitions between images with a dissolve effect   |
|                              | <b>Random</b>          | Transitions between images using a random variety of effects  |

**Parent topic:** [Starting a Slide Show](#)

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# Adjusting Projector Features

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

[Shutting Off the Picture and Sound Temporarily](#)

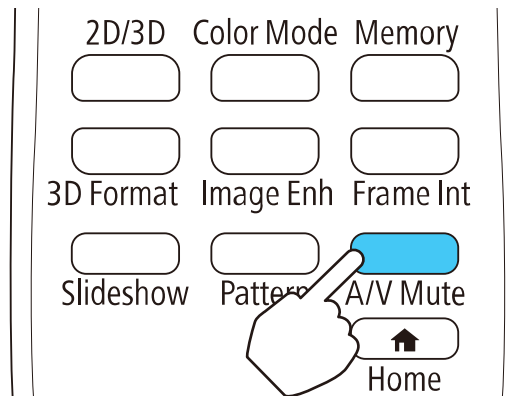
[Projecting Two Images Simultaneously](#)

[Projector Security Features](#)

## 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.



**Note:** To mute only the audio, press the **Mute** button on the remote control.

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 lever on the projector.

**Parent topic:** [Adjusting Projector Features](#)

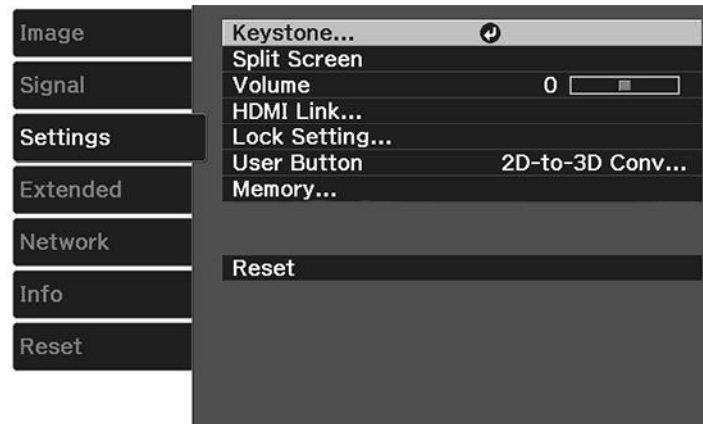
## Projecting Two Images Simultaneously

You can use the split screen feature to simultaneously project two images from different image sources (HDMI1/HDMI2 and Screen Mirroring) next to each other (PowerLite Home Cinema 2045). You can control the split screen feature using the projector menus.

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

**Note:** You cannot project from the same input source onto both sides (left and right) of the screen. You also cannot use split screen with 3D images or certain input source combinations.

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



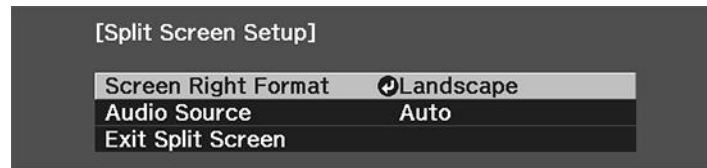
3. Select **Split Screen** and press **Enter**.

Images from the HDMI1 or HDMI2 source are projected on the left side of the screen, and images from Screen Mirroring are projected on the right side of the screen. (These are the only sources that can be used for this feature.)

**Note:** 3D images cannot be projected using Split Screen.

4. Press the **Menu** button on the remote control to change the Split Screen Settings.

You see this screen:



5. To change the size and orientation of the image sent by Screen Mirroring, select the **Screen Right Format** setting, press **Enter**, select size and orientation options, press **Enter**, and press **Menu** to exit. (The image sent by Screen Mirroring will always be on the right side.)
6. To choose the audio you want to hear, select the **Audio Source** setting, press **Enter**, select an audio option, press **Enter**, and press **Menu** to exit.
7. To exit the split screen feature, select **Exit Split Screen** or press the **Esc** button.

**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:

- Button lock security to block operation of the projector using the buttons on the control panel.
- Security cabling to physically cable the projector in place.

[Locking the Projector's Buttons](#)

[Installing a Security Cable](#)

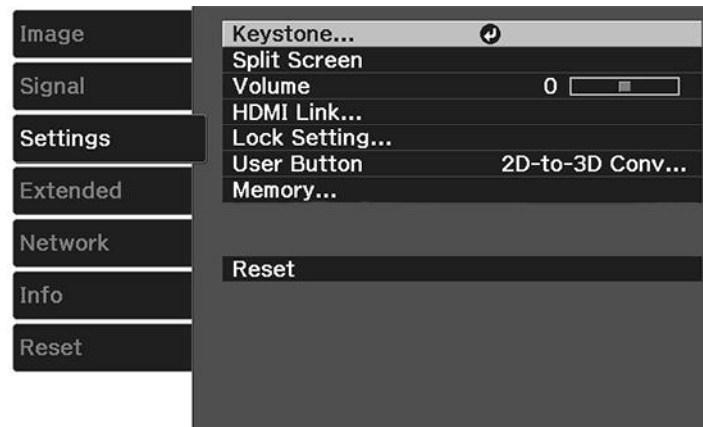
**Parent topic:** [Adjusting Projector Features](#)

### Locking the Projector's Buttons


You can lock the buttons on the projector's control panel to prevent anyone from using the projector.

1. Press the **Menu** button.

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



3. Select the **Lock Setting** setting and press **Enter**.
4. Select one of these lock types and press **Enter**:
  - To lock the projector's power button, select **Child Lock**. To turn the projector on, you must press the power button for longer than three seconds.
  - To lock all buttons, select **Control Panel Lock > Full Lock**.
  - To lock all buttons except the power button, select **Control Panel Lock > Partial Lock**.

**Note:** The  lock icon is displayed on the screen if any control panel buttons are pressed while this setting is enabled.

You see a confirmation prompt.

5. Select **Yes** and press **Enter**.
6. Restart the projector for the lock settings to take effect.

[Unlocking the Projector's Buttons](#)

**Parent topic:** [Projector Security Features](#)

**Related references**

[Projector Feature Settings - Settings Menu](#)

## Unlocking the Projector's Buttons

If the projector's buttons have been locked, hold the **Enter** button on the projector's control panel for seven seconds to unlock them.

**Parent topic:** [Locking the Projector's Buttons](#)

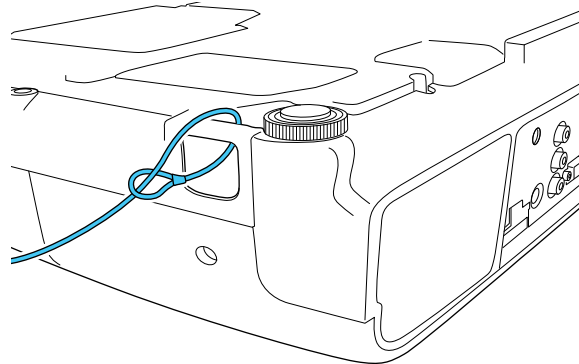
### Related references

[Projector Feature Settings - Settings Menu](#)

## Installing a Security Cable

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

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



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

**Parent topic:** [Projector Security Features](#)

### Related references

[Optional Equipment and Replacement Parts](#)

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# Adjusting the Menu Settings

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

[Using the Projector's Menus](#)

[Image Quality Settings - Image Menu](#)

[Input Signal Settings - Signal Menu](#)

[Projector Feature Settings - Settings Menu](#)

[Projector Setup Settings - Extended Menu](#)

[Projector Network Settings - Network Menu](#)

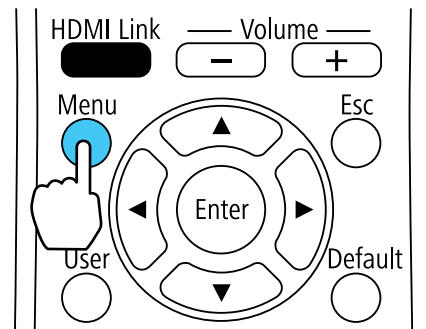
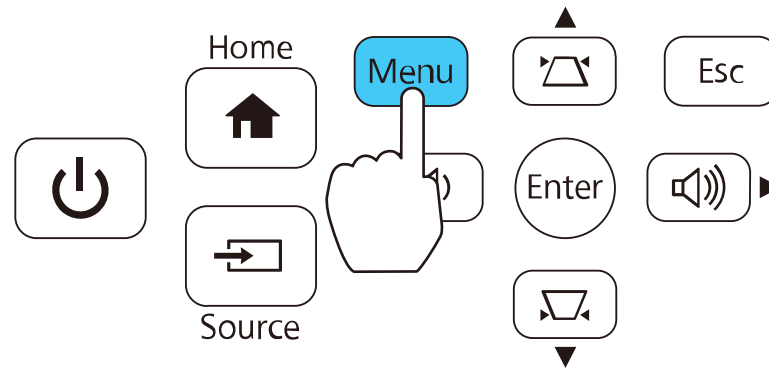
[Projector Information Display - Info Menu](#)

[Projector Reset Options - Reset Menu](#)

## Using the Projector's Menus

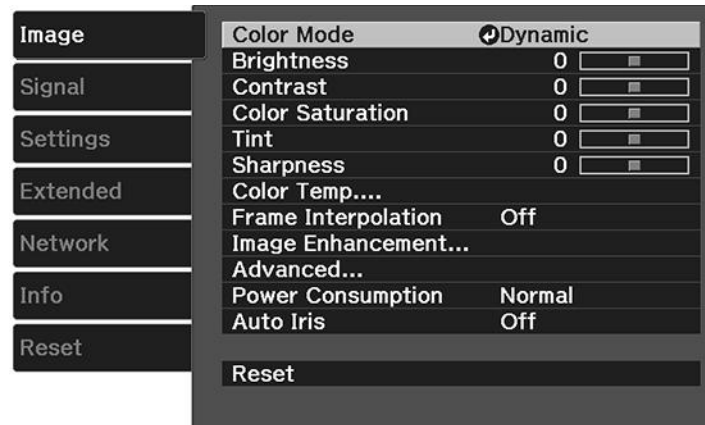
You can use the projector's menus to adjust the settings that control how your projector works. The projector displays the menus on the screen.

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



You see the menu screen displaying the Image menu settings.





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

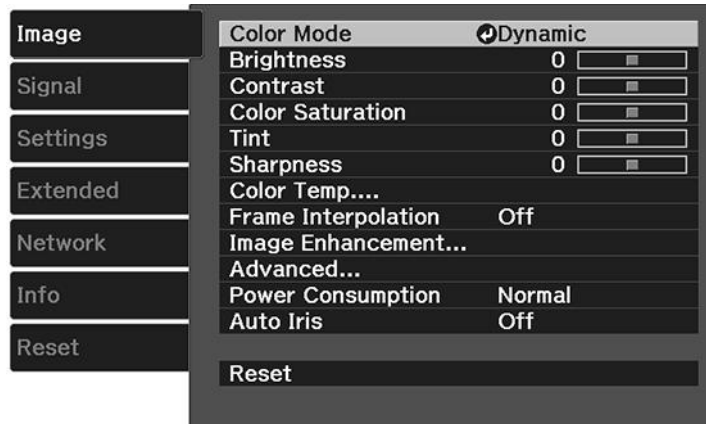
**Note:** The available settings depend on the current input source.

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 and resolution. (If a menu is grayed-out, that item is not available for the input source you are currently using.)



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

| Setting                 | Options                               | Description  |
|-------------------------|---------------------------------------|--|
| <b>Color Mode</b>       | See the list of available Color Modes | Adjusts the vividness of image colors for various image types and environments |
| <b>Brightness</b>       | Varying levels available              | Lightens or darkens the overall image  |
| <b>Contrast</b>         | Varying levels available              | Adjusts the difference between light and dark areas of the image               |
| <b>Color Saturation</b> | Varying levels available              | Adjusts the intensity of the image colors                                      |
| <b>Tint</b>             | Varying levels available              | Adjusts the balance of green to magenta tones in the image                     |
| <b>Sharpness</b>        | Varying levels available              | Adjusts the sharpness or softness of image details                             |

| Setting                                | Options  | Description   |
|--|--|---|
| <b>Color Temp.</b> (color temperature) | Varying levels available   | Sets the overall color tone; Higher values tint the image blue and lower values tint the image red  |
| <b>Frame Interpolation</b>             | <b>Off</b><br><b>Weak</b><br><b>Normal</b><br><b>Strong</b>  | Smooths fast moving video by comparing consecutive frames and inserting an intermediate frame between them  |
| <b>Image Enhancement</b>               | <b>Image Preset Mode</b><br><b>Noise Reduction</b><br><b>MPEG Noise Reduction</b><br><b>Detail Enhancement</b> | <b>Image Preset Mode:</b> Selects the image enhancement settings saved in advance<br><b>Noise Reduction:</b> Reduces flickering in analog images in two levels (cannot be set if Image Processing is set to Fast)<br><b>MPEG Noise Reduction:</b> Reduces the noise or artifacts seen in MPEG video<br><b>Detail Enhancement:</b> Enhances details to create clear outlines |
| <b>Advanced</b>                        | <b>RGBCMY</b><br><b>Epson Super White</b>  | <b>RGBCMY:</b> Adjusts the hue, saturation, and brightness for each color<br><b>Epson Super White:</b> Reduces over-exposure of whites in your image; is only available when receiving signal input from the HDMI1 or HDMI2 port.   |
| <b>Power Consumption</b>               | <b>Normal</b><br><b>ECO</b>  | Adjusts the brightness level, power usage, and fan noise  |

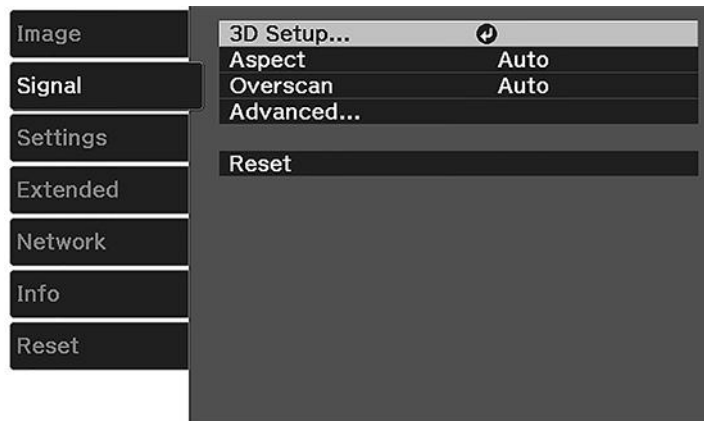
| Setting   | Options                     | Description   |
|-----------|-----------------------------|---|
| Auto Iris | Off<br>Normal<br>High Speed | Adjusts the projected luminance based on the image brightness when certain Color Modes are selected |

**Note:** The **Brightness** setting does not affect lamp brightness. To change the lamp brightness mode, use the **Power Consumption** setting.

Parent topic: [Adjusting the Menu Settings](#)

## Input Signal Settings - Signal Menu

Normally the projector detects and optimizes the input signal settings automatically. If you need to customize the settings, you can use the Signal menu. The available settings depend on the currently selected input source.



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

| Setting         | Options  | Description  |
|-----------------|--|--|
| <b>3D Setup</b> | <b>3D Display</b><br><b>3D Format</b><br><b>2D-to-3D Conversion</b><br><b>3D Depth</b><br><b>Diagonal Screen Size</b><br><b>3D Brightness</b><br><b>Inverse 3D Glasses</b><br><b>3D Viewing Notice</b> | Selects various 3D options<br><b>3D Display:</b> enables 3D mode<br><b>3D Format:</b> selects the 3D format<br><b>2D-to-3D Conversion:</b> converts 2D images to 3D images<br><b>3D Depth:</b> sets the depth for the 3D image<br><b>Diagonal Screen Size:</b> selects the actual size of the screen to maximize the 3D effect<br><b>3D Brightness:</b> adjusts the brightness of the 3D image<br><b>Inverse 3D Glasses:</b> reverses the images projected for the left and right eyes (enable only if 3D images are not displaying correctly)<br><b>3D Viewing Notice:</b> enables the viewing notice displayed when 3D mode is activated |
| <b>Aspect</b>   | See the list of available aspect ratios  | Sets the aspect ratio (width-to-height ratio) for the selected input source; not available for HDMI HD signal sources  |
| <b>Tracking</b> | Varying levels available   | Adjusts signal to eliminate vertical stripes in computer images  |
| <b>Sync.</b>    | Varying levels available   | Adjusts signal to eliminate fuzziness or flickering in computer images   |
| <b>Position</b> | Up, down, left, right  | Adjusts the image location on the screen   |

| Setting           | Options  | Description  |
|-------------------|--|--|
| <b>Auto Setup</b> | <b>On</b><br><b>Off</b>                            | Automatically optimizes computer image quality (when On)   |
| <b>Overscan</b>   | <b>Auto</b><br><b>Off</b><br>4%<br>8%              | Changes the projected image ratio to make the edges visible by a selectable percentage or automatically (HDMI 1/HDMI2 only)  |
| <b>Advanced</b>   | <b>HDMI Video Range</b><br><b>Image Processing</b> | <p><b>HDMI Video Range</b> sets the video range to match the setting of the device connected to the HDMI input port</p> <p><b>Auto:</b> detects the video range automatically</p> <p><b>Normal:</b> for images from a device other than a computer; can also be selected if the black areas of the image are too bright</p> <p><b>Expanded:</b> for images from a computer; can also be selected if the image is too dark</p> <p><b>Image Processing:</b> adjusts how images are processed; <b>Fast</b> displays images more quickly and <b>Fine</b> displays images in higher quality</p> |

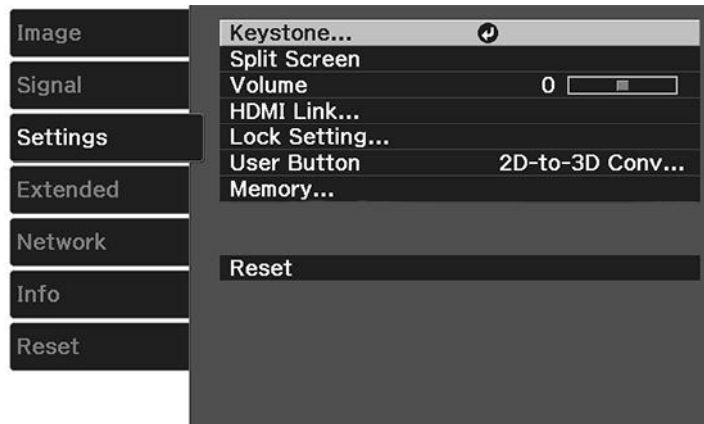
**Note:** You can select the **HDMI Video Range** setting only when the **Epson Super White** setting in the Image menu **Advanced** setting is turned off.

**Note:** The **Reset** setting does not reset the **Diagonal Screen Size**, **3D Viewing Notice**, **Aspect**, and **Image Processing** settings.

Parent topic: [Adjusting the Menu Settings](#)

## Projector Feature Settings - Settings Menu


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



| Setting         | Options  | Description   |
|-----------------|--|---|
| <b>Keystone</b> | <b>V-Keystone</b><br><b>H-Keystone</b><br><b>Auto V-Keystone</b><br><b>H-Keystone Adjuster</b> | Adjusts image shape to rectangular (horizontally and vertically)<br><br><b>V-Keystone:</b> lets you manually correct vertical sides<br><br><b>H-Keystone:</b> lets you manually correct horizontal sides<br><br><b>Auto V-Keystone:</b> enables or disables automatic vertical keystone adjustment<br><br><b>H-Keystone Adjuster:</b> enables or disables manual horizontal keystone adjustment using the slider on the projector |

| Setting   | Options   | Description  |
|---|---|--|
| <b>Split Screen</b><br>(PowerLite Home Cinema 2045) | —   | Splits the screen in two and displays images from the HDMI source and the Screen Mirroring source simultaneously   |
| <b>Volume</b>                                       | Varying levels available  | Adjusts the volume of the projector's speaker system   |
| <b>HDMI Link</b>                                    | <b>Device Connections</b><br><b>HDMI Link</b><br><b>Audio Out Device</b><br><b>Power On Link</b><br><b>Power Off Link</b> | Adjusts the HDMI Link options that allow the projector remote to control HDMI-connected devices that support the CEC standard<br><br><b>Device Connections:</b> lists the devices connected to the <b>HDMI 1</b> and <b>HDMI 2</b> ports<br><br><b>HDMI Link:</b> enables or disables the HDMI Link function<br><br><b>Audio Out Device:</b> selects whether to output audio from the internal speakers or a connected audio/video system<br><br><b>Power On Link:</b> controls the projector or a linked device<br><br><ul style="list-style-type: none"> <li>• <b>PJ -&gt; Device</b> or <b>Bidirectional:</b> turns on the linked device when the projector is turned on</li> <li>• <b>Device -&gt; PJ</b> or <b>Bidirectional:</b> turns on the projector when the linked device is turned on</li> </ul><br><b>Power Off Link:</b> controls whether linked devices are turned off when the projector is turned off |



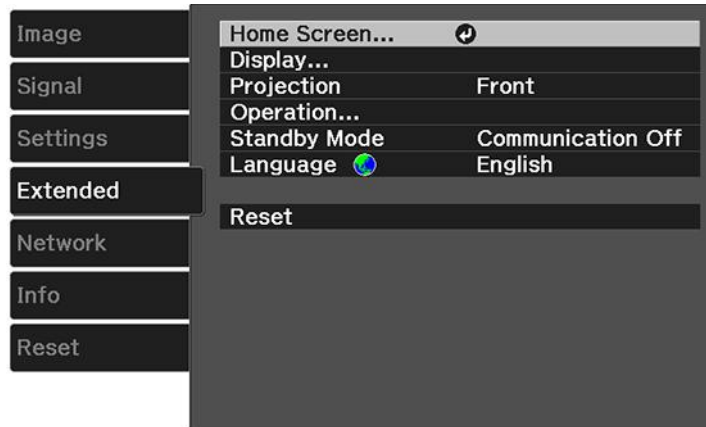
| Setting             | Options   | Description  |
|---------------------|---|--|
| <b>Lock Setting</b> | <b>Child Lock</b><br><b>Control Panel Lock</b>  | Controls projector button locking to secure the projector<br><b>Child Lock:</b> locks the power button<br><b>Control Panel Lock:</b> <ul style="list-style-type: none"> <li>• <b>Full Lock:</b> locks all buttons</li> <li>• <b>Partial Lock:</b> locks all buttons except the power button</li> </ul> <b>Note:</b> The  lock icon is displayed on the screen if any control panel buttons are pressed while this setting is enabled. |
| <b>User Button</b>  | <b>Fine/Fast</b><br><b>2D-to-3D Conversion</b><br><b>Power Consumption</b><br><b>Info</b><br><b>Display the QR Code</b><br>(PowerLite Home Cinema 2045) | Assigns a menu option to the <b>User</b> button on the remote control for one-touch access   |

| Setting       | Options   | Description  |
|---------------|---|--|
| <b>Memory</b> | <b>Load Memory</b><br><b>Save Memory</b><br><b>Erase Memory</b><br><b>Rename Memory</b> | Controls memory functions for current projector settings<br><br><b>Load Memory:</b> lets you load a saved memory<br><br><b>Save memory:</b> lets you save current projector settings to memory<br><br><b>Erase Memory:</b> lets you delete a saved memory<br><br><b>Rename Memory:</b> lets you rename a saved memory using 9 predetermined name types or up to 12 characters in a customized name |
| <b>Reset</b>  | <b>Yes</b><br><b>No</b>   | Resets all settings except <b>Audio Out Device, Power On Link, Power Off Link, and Memory</b>  |

Parent topic: [Adjusting the Menu Settings](#)

## Projector Setup Settings - Extended Menu

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



| Setting     | Options  | Description  |
|-------------|--|--|
| Home Screen | Home Screen Auto Disp.<br>Custom Function 1<br>Custom Function 2 | Selects various options for the projector's Home screen<br><br><b>Home Screen Auto Disp.:</b> controls whether the Home screen displays automatically when the projector is turned on<br><br><b>Custom Function 1/Custom Function 2:</b> let you customize the options displayed on the Home screen and save your settings as a preset |

| Setting    | Options  | Description   |
|------------|--|---|
| Display    | <b>Messages</b><br><b>Display Background</b><br><b>Startup Screen</b>      | Selects various display options<br><b>Messages:</b> controls whether messages are displayed on the screen<br><b>Display Background:</b> selects the screen color or Epson logo to display when no signal is received<br><b>Startup Screen:</b> controls whether the Epson logo appears when the projector starts up |
| Projection | <b>Front</b><br><b>Front/Ceiling</b><br><b>Rear</b><br><b>Rear/Ceiling</b> | Selects the way the projector faces the screen so the image is oriented correctly   |

| Setting             | Options   | Description  |
|---------------------|---|--|
| <b>Operation</b>    | <b>Direct Power On</b><br><b>Sleep Mode</b><br><b>Sleep Mode Timer</b><br><b>Illumination</b><br><b>High Altitude Mode</b><br><b>Auto Source Search</b> | Selects various operation options<br><b>Direct Power On:</b> lets you turn on the projector without pressing the power button<br><b>Sleep Mode:</b> automatically places the projector in standby mode after an interval of inactivity<br><b>Sleep Mode Timer:</b> sets the interval for sleep mode (1 to 30 minutes)<br><b>Illumination:</b> turns off the power and status lights on the projector<br><b>High Altitude Mode:</b> regulates the projector's operating temperature at altitudes above<br><b>Auto Source Search:</b> detects the input signal automatically |
| <b>Standby Mode</b> | <b>Communication Off</b><br><b>Communication On</b>   | Selects whether or not the projector can be monitored over a network when it is in standby mode  |
| <b>Language</b>     | Various languages available   | Selects the language for projector menu and message displays (not changed by <b>Reset</b> option)  |

**Note:** The **Reset** setting does not reset the **Projection**, **High Altitude Mode**, **Standby Mode**, and **Language** settings.

Parent topic: [Adjusting the Menu Settings](#)

## Projector Network Settings - Network Menu

Settings on the Network menu let you view network information and set up the projector for monitoring and control over a network (PowerLite Home Cinema 2045).



| Setting                   | Options   | Description   |
|---------------------------|---|---|
| Screen Mirroring          | On<br>Off   | Turns on screen mirroring mode  |
| Screen Mirroring Info     | Display Name<br>MAC Address<br>Region Code<br>Version | Displays screen mirroring status and details  |
| Screen Mirroring Settings | Display Name<br>Adjust Image Quality<br>Reset         | Configures your screen mirroring settings; only available when <b>Screen Mirroring</b> is <b>On</b> |
| Wireless LAN Power        | On<br>Off   | Turns on wireless LAN mode  |

| Setting                         | Options  | Description   |
|---------------------------------|--|---|
| <b>Net. Info - Wireless LAN</b> | <b>Connection mode</b><br><b>Wireless LAN System</b><br><b>Antenna level</b><br><b>Projector Name</b><br><b>SSID</b><br><b>DHCP</b><br><b>IP Address</b><br><b>Subnet Mask</b><br><b>Gateway Address</b><br><b>MAC Address</b><br><b>Region Code</b> | Displays wireless network status and details  |
| <b>Display the QR Code</b>      | —  | Displays network information for the projection in a QR code so you can connect to the projector from the Epson iProjection app |
| <b>Network Configuration</b>    | Accesses additional network menus  | Configures your network settings  |

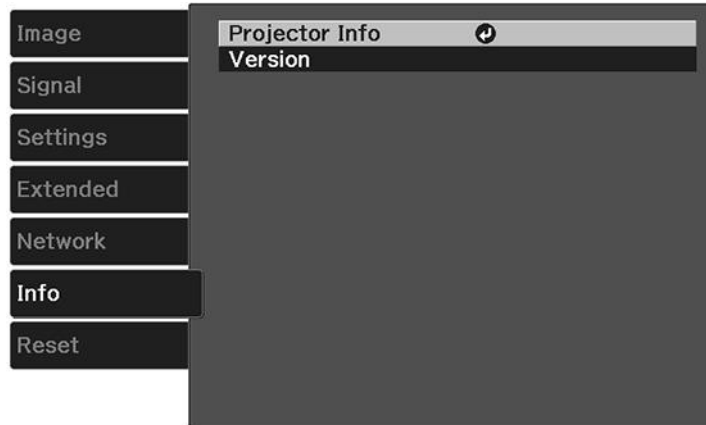
**Parent topic:** [Adjusting the Menu Settings](#)

**Related tasks**

[Selecting Screen Mirroring Settings](#)

## Projector Information Display - Info Menu

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



Select **Version** to display the projector's firmware version. Select **Projector Info** to display the settings described below.

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

| Information item    | Description   |
|---------------------|---|
| <b>Lamp Hours</b>   | Displays the number of hours ( <b>H</b> ) the lamp has been used in <b>Normal</b> and <b>ECO</b> Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon |
| <b>Source</b>       | Displays the name of the port to which the current input source is connected  |
| <b>Input Signal</b> | Displays the input signal setting of the current input source   |
| <b>Resolution</b>   | Displays the resolution of the current input source   |
| <b>Scan Mode</b>    | Displays the scan mode of the current input source  |
| <b>Refresh Rate</b> | Displays the refresh rate of the current input source   |



| Information item                 | Description  |
|----------------------------------|--|
| <b>3D Format</b>                 | Displays the 3D format of the current input source during 3D projection                                    |
| <b>Sync Info</b>                 | Displays information that may be needed by a service technician  |
| <b>Deep Color</b>                | Displays the deep color of the current input source  |
| <b>Status</b>                    | Displays information about projector problems that may be needed by a service technician                   |
| <b>Serial Number</b>             | Displays the projector's serial number   |
| <b>Event ID (PowerLite 2045)</b> | Displays the Event ID number corresponding to a specific projector problem; see the list of Event ID codes |

[Event ID Code List](#)

Parent topic: [Adjusting the Menu Settings](#)

## Event ID Code List

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

| Event ID code | Cause and solution  |
|---------------|---|
| 0021          | Screen Mirroring did not start. Turn the projector off and then on again. |

| Event ID code | Cause and solution  |  |
|---------------|---|--|
| 0022          | Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.            |  |
| 0027          |   |  |
| 0028          |   |  |
| 0029          |   |  |
| 0030          |   |  |
| 0031          |   |  |
| 0035          |   |  |
| 0434          |   |  |
| 0481          |   |  |
| 0482          |   |  |
| 0485          |   |  |
| 0023          |   | Connection failed. If you see the PIN entry screen on your computer, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image. If this does not solve the problem, restart the projector and connected devices, then check the connection settings. |
| 0024          |   |  |
| 0025          |   |  |
| 0432          | The EasyMP Network Projection program did not start. Turn the projector off and then on again.  |  |
| 0435          |   |  |
| 0433          | Cannot display the transferred images. Restart the EasyMP Network Projection program.   |  |
| 0484          | Communication with computer was disconnected. Restart the EasyMP Network Projection program.  |  |
| 0483          | The EasyMP Network Projection program quit unexpectedly. Check the network communication status, then turn the projector off and then on again. |  |
| 04FE          |   |  |
| 0479          | A projector system error has occurred. Turn the projector off and then on again.  |  |
| 04FF          |   |  |
| 0891          | Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID.                                |  |

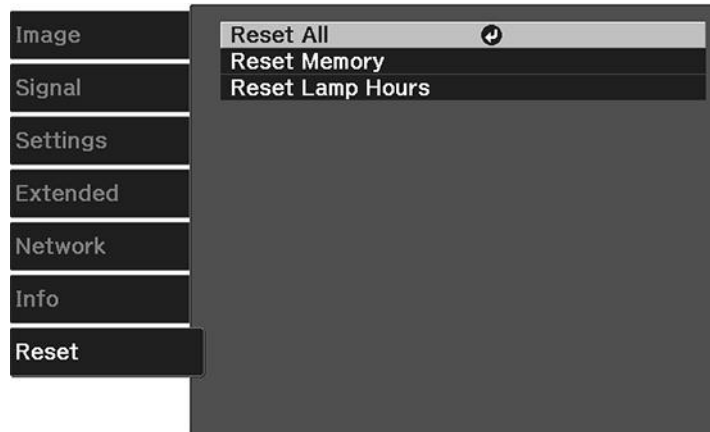
| Event ID code | Cause and solution  |
|---------------|---|
| 0892          | The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.  |
| 0894          | Communication with unauthorized access point was disconnected. Contact your network administrator.  |
| 0898          | Failed to acquire DHCP address. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the <b>DHCP</b> setting in the Network menus.                 |
| 0020          | A communication error has occurred. Try restarting the EasyMP Network Projection program and restarting your projector. If that does not solve the problem, contact Epson for help. |
| 0026          |   |
| 0032          |   |
| 0036          |   |
| 0037          |   |
| 0038          |   |
| 0899          |   |

Parent topic: [Projector Information Display - Info Menu](#)

## Projector Reset Options - Reset Menu

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

You can reset the projector's lamp usage timer to zero when you replace the lamp using the **Reset Lamp Hours** option and you can also reset all memory entries using the **Reset Memory** option.



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

- Language
- Lamp Hours
- Memory settings
- All settings in the Network menu

**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 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.

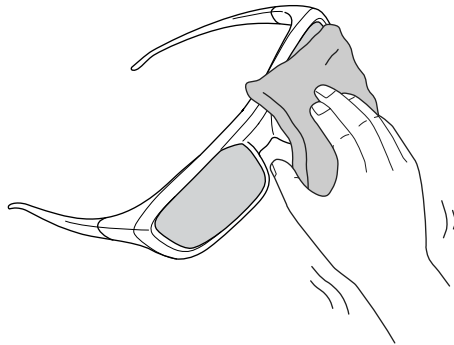
**Caution:** Do not use glass cleaner or any harsh materials to clean the lens and do not subject the lens to any impacts; you may damage it. Do not use canned air, or the gases may leave a residue. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

Parent topic: [Projector Maintenance](#)

## Cleaning the 3D Glasses

To remove dust, dirt, smudges, or fingerprints from the glasses, use a soft, dry, lint-free cloth.

**Note:** Unplug any charging cables from the glasses before cleaning them.



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

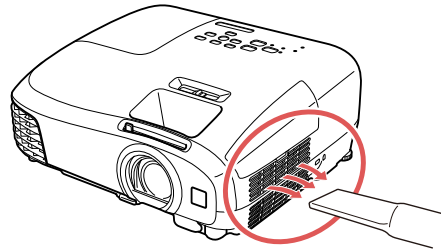
[Projector Light Status](#)

### **Cleaning the Air Filter and Vents**

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

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

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 the 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 flammable residue or push dust and debris into the projector's optics or other sensitive areas.

3. If dust is difficult to remove or the 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:

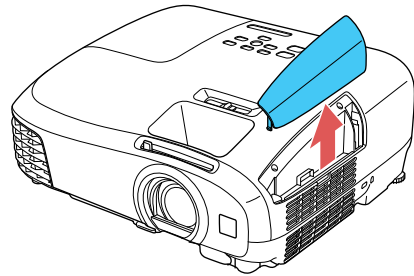
- After cleaning the air filter, you see a message telling you to clean or replace it
- The air filter is torn or damaged

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

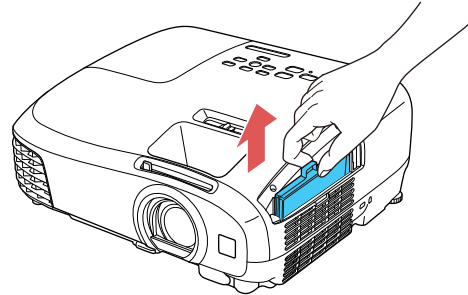
1. Turn off the projector and unplug the power cord.



- Carefully open the air filter cover.

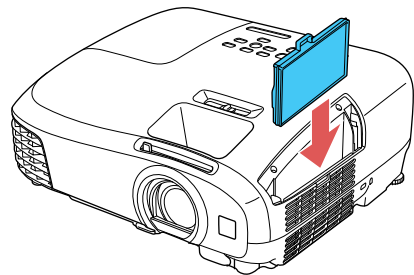


- Pull the air filter out of the projector.



**Note:** Air filters contain ABS resin and polyurethane foam. Dispose of used air filters according to local regulations.

- 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 projector keeps track of the number of hours the lamp is used and displays this information in the projector's menu system.

Replace the 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 projector telling you to replace the lamp
- The projector's lamp light is flashing orange and its power light is flashing blue

[Replacing the Lamp](#)

[Resetting the Lamp Timer](#)

**Parent topic:** [Projector Maintenance](#)

### Related references

[Optional Equipment and Replacement Parts](#)

[Projector Information Display - Info Menu](#)

[Projector Lamp Specifications](#)

## Replacing the Lamp

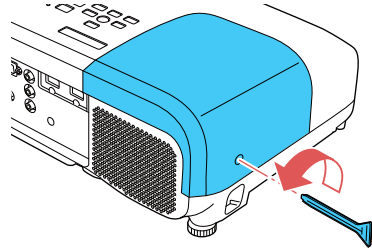
Before you replace the lamp, let the projector cool down for at least one hour so the lamp will not be hot.

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

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

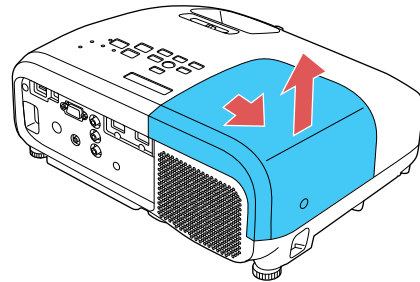
1. Turn off the projector and unplug the power cord.
2. Allow the projector lamp to cool down for at least one hour.

3. Use the screwdriver included with the replacement lamp to loosen the screw securing the lamp cover.

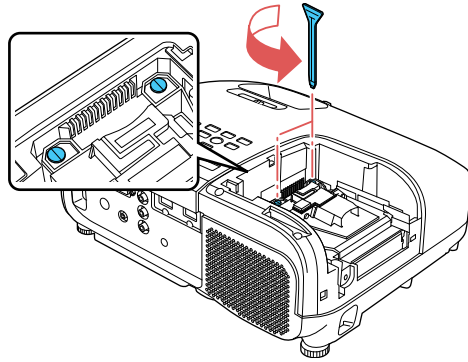


**Warning:** If the lamp is broken, glass fragments may be loose inside the lamp chamber. Be careful removing any broken glass to avoid injury. If the projector is installed on the ceiling, stand to the side of the lamp cover and not underneath it; pieces of glass could fall into your eyes or mouth when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

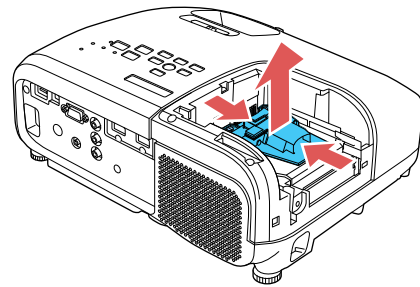
4. Slide the lamp cover out and lift it off.




5. Loosen the screws securing the lamp to the projector. The screws do not come all the way out.

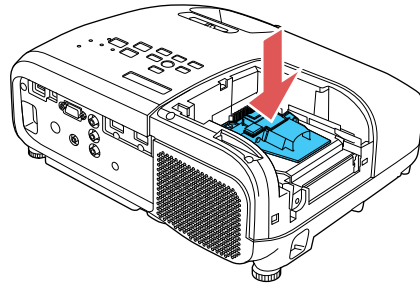


6. Grasp the raised section of the lamp and gently pull the lamp out of the projector.



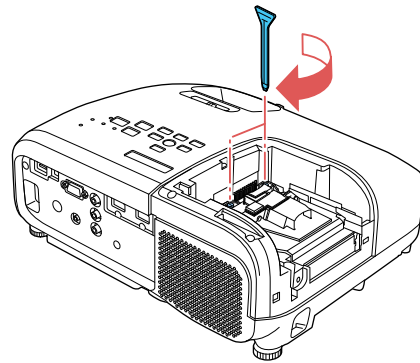
**Note:**  The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

7. Gently insert the new lamp into the projector. If it does not fit easily, make sure it is facing the right way.



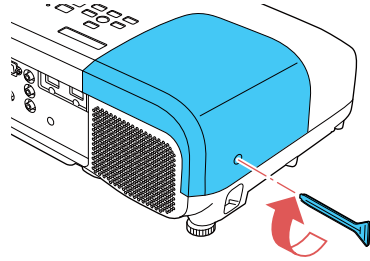
**Caution:** Do not touch any glass on the lamp assembly to avoid premature lamp failure.

8. Push in the lamp firmly and tighten the screws to secure it.



**Caution:** Do not over-tighten the screws.

9. 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.

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**.



4. Select **Reset Lamp Hours** 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**

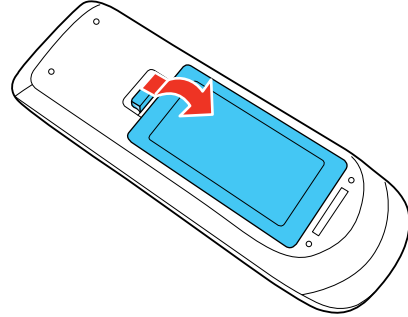
[Replacing the Lamp](#)

## 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.

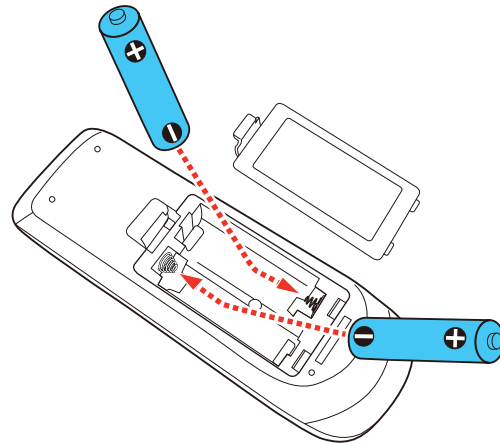
1. Remove the battery cover as shown.



2. Remove the old batteries.

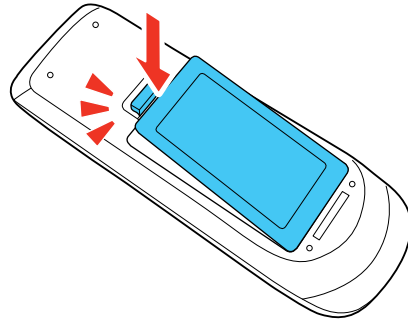
**Warning:** If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.

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





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



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

**Parent topic:** [Projector Maintenance](#)

**Related references**

[Remote Control Specifications](#)

## Transporting the Projector

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

- Close the lens cover to protect the lens.
- Remove any equipment connected to the projector.
- When transporting the projector a long distance or as checked luggage, pack it in a firm box with cushioning around it and mark the box "Fragile."
- When shipping the projector for repairs, place it in its original packing materials, if possible, or use equivalent materials with cushioning around the projector. Mark the box "Fragile."

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

**Parent topic:** [Maintaining and Transporting the Projector](#)

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# Solving Problems

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

[Projection Problem Tips](#)

[Projector Light Status](#)

[Solving Image or Sound Problems](#)

[Solving Projector or Remote Control Operation Problems](#)

[Solving Network Problems](#)

[Where to Get Help](#)

## Projection Problem Tips

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

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

- The lights on the projector may indicate what the problem is.
- The 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](#)

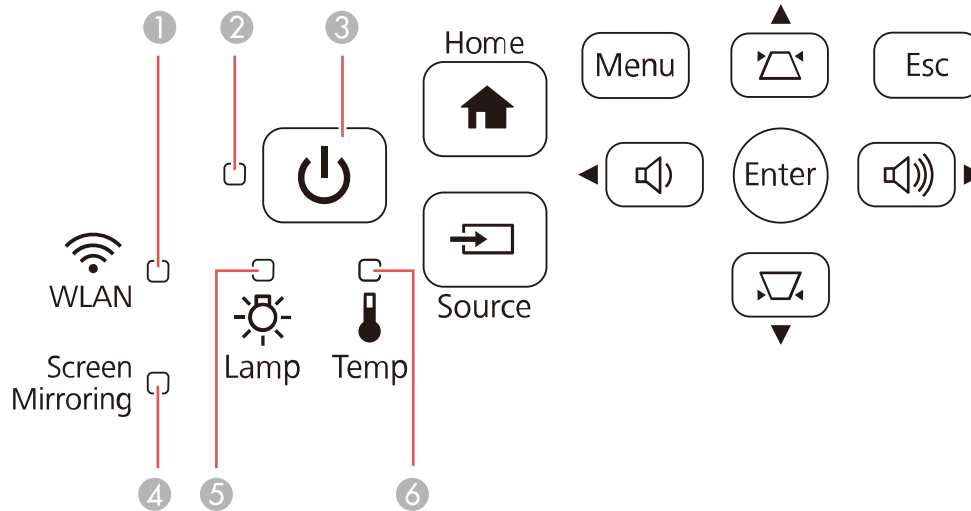
### Related references

[Where to Get Help](#)

[Projector Light Status](#)

## 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 WLAN (Wireless LAN) light (PowerLite Home Cinema 2045)
- 2 Status light
- 3 Power button/light
- 4 Screen Mirroring light (PowerLite Home Cinema 2045)
- 5 Lamp light
- 6 Temp (temperature) light

| Power light | Status light  | Lamp light | Temp light | Status and solution                     |
|-------------|---------------|------------|------------|---|
| Blue        | Blue          | Off        | Off        | Normal operation                        |
| Blue        | Flashing blue | Off        | Off        | Warming up; wait for an image to appear |

| Power light   | Status light  | Lamp light      | Temp light      | Status and solution   |
|---------------|---------------|-----------------|-----------------|---|
| Blue          | Off           | Off             | Off             | Standby or sleep mode with communication <b>On</b> (PowerLite Home Cinema 2045)   |
| Blue          | Flashing blue | Off             | Off             | Shutting down; when the Status light stops flashing, you can unplug the projector   |
| Flashing blue | Varies        | Off             | Flashing orange | Projector is too hot <ul style="list-style-type: none"> <li>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects</li> <li>• Clean or replace the air filter</li> <li>• Make sure the environmental temperature is not too hot</li> </ul> |
| Flashing blue | Varies        | Flashing orange | Off             | Replace the lamp soon to avoid damage; do not continue using the projector  |
| Off           | Flashing blue | Flashing orange | Off             | Internal projector error; turn the projector off, unplug it, and contact Epson for help   |
| Off           | Flashing blue | Off             | Flashing orange | A fan or sensor has a problem; turn the projector off, unplug it, and contact Epson for help  |
| Off           | Flashing blue | Flashing orange | Flashing orange | Auto Iris error; turn the projector off, unplug it, and contact Epson for help  |
| Off           | Flashing blue | Orange          | Orange          | Power error; turn the projector off, unplug it, and contact Epson for help  |

| Power light | Status light  | Lamp light | Temp light | Status and solution  |
|-------------|---------------|------------|------------|--|
| Off         | Flashing blue | Orange     | Off        | <p>Lamp has a problem</p> <ul style="list-style-type: none"> <li>• Check to see if the lamp is burned out, broken, or installed incorrectly; reseal or replace the lamp as necessary</li> <li>• Clean or replace the air filter</li> <li>• If operating the projector at high altitude, turn on <b>High Altitude Mode</b></li> <li>• If the problem persists, unplug the projector and contact Epson for help</li> </ul>   |
| Off         | Flashing blue | Off        | Orange     | <p>Projector has overheated and turned off; leave it turned off to cool down for about five minutes, then do the following:</p> <ul style="list-style-type: none"> <li>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects</li> <li>• Clean or replace the air filter</li> <li>• If operating the projector at high altitude, turn on <b>High Altitude Mode</b></li> <li>• If the problem persists, unplug the projector and contact Epson for help</li> </ul> |
| Off         | Off           | Off        | Off        | Standby or sleep mode with communication <b>Off</b>  |
| Any         | Any           | Any        | Any        | Wireless LAN light is solid blue; Wireless LAN is available  |
| Any         | Any           | Any        | Any        | Wireless LAN light flashes blue quickly; connecting to a device  |

| Power light | Status light | Lamp light | Temp light | Status and solution   |
|-------------|--------------|------------|------------|---|
| Any         | Any          | Any        | Any        | Wireless LAN light flashes blue slowly; Wireless LAN error, select <b>Off</b> as the <b>Wireless LAN Power</b> setting, then switch the setting back to <b>On</b>       |
| Any         | Any          | Any        | Any        | Wireless LAN light is off; Wireless LAN is not available, check that the <b>Wireless LAN Power</b> setting is set to <b>On</b>  |
| Any         | Any          | Any        | Any        | Screen Mirroring light is solid blue; Screen Mirroring connection is available  |
| Any         | Any          | Any        | Any        | Screen Mirroring light flashes blue quickly; connecting to a device   |
| Any         | Any          | Any        | Any        | Screen Mirroring light flashes blue slowly; Screen Mirroring error, select <b>Off</b> as the <b>Screen Mirroring</b> setting, then switch the setting back to <b>On</b> |
| Any         | Any          | Any        | Any        | Screen Mirroring light is off; Screen Mirroring is not available, check that the <b>Wireless Mode</b> setting is set to <b>Screen Mirroring On</b>                      |

### WLAN Light

| Status                | Solution  |
|-----------------------|---|
| Blue                  | Wireless LAN is available   |
| Flashing blue quickly | Connecting to a device  |
| Flashing blue slowly  | Wireless LAN error; turn the <b>Wireless LAN Power</b> setting off and then on again        |
| Off                   | Wireless LAN is not available; make sure the <b>Wireless LAN Power</b> setting is turned on |

## Screen Mirroring Light

| Status                | Solution   |
|-----------------------|--|
| Blue                  | Screen Mirroring connection is available   |
| Flashing blue quickly | Connecting to a device   |
| Flashing blue slowly  | Screen Mirroring error; turn the <b>Screen Mirroring</b> setting off and then on again |
| Off                   | Screen Mirroring is not available; make sure the <b>Wireless Mode</b> setting is on    |

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

**Parent topic:** [Solving Problems](#)

## Solving Image or Sound Problems

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

[Solutions When No Image Appears](#)

[Solutions When "No Signal" Message Appears](#)

[Solutions When "Not Supported" Message Appears](#)

[Solutions When Only a Partial Image Appears](#)

[Solutions When the Image is Not Rectangular](#)

[Solutions When the Image Contains Noise or Static](#)

[Solutions When the Image is Fuzzy or Blurry](#)

[Solutions When the Image Brightness or Colors are Incorrect](#)

[Solutions When a 3D Image Does Not Display Correctly](#)

[Solutions to Sound Problems](#)

**Parent topic:** [Solving Problems](#)

## Solutions When No Image Appears

If no image appears, try the following solutions:

- Make sure the lens cover is open all the way.
- Press the **A/V Mute** button on the remote control to see if the image was temporarily turned off.

- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- Press the projector's power button to wake it from standby or sleep mode. Also see if your connected computer is in sleep mode or displaying a blank screen saver.
- Press the **Menu** button. If the projector menu is able to display, there may be a problem with the connected video source, cable connection, or port.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the **Brightness** setting or 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. Press and hold the **Enter** button for 10 seconds or use the remote control.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

**Parent topic:** [Solving Image or Sound Problems](#)

#### **Related references**

[Image Quality Settings - Image Menu](#)

[Projector Setup Settings - Extended Menu](#)

## **Solutions When "No Signal" Message Appears**

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

- Press the **Source** button on the projector repeatedly to cycle through the available sources. 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.
- If the other solutions do not solve the problem, reset all of the settings using the **Reset** menu.

[Displaying From a PC Laptop](#)

[Displaying From a Mac Laptop](#)

**Parent topic:** [Solving Image or Sound Problems](#)



## Related concepts

[Projector Connections](#)

### Displaying From a PC Laptop

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

1. Hold down the laptop's **Fn** key and press the key 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 and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)
4. If necessary, check your video card settings and set the multiple display option to **Mirror** or **Duplicate**.

**Parent topic:** [Solutions When "No Signal" Message Appears](#)

### Displaying From a Mac Laptop

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

1. Open the **System Preferences** utility and select **Displays**.
2. Click the **Arrangement** tab.
3. Select the **Mirror Displays** checkbox.

**Parent topic:** [Solutions When "No Signal" Message Appears](#)

### Solutions When "Not Supported" Message Appears

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

- Make sure the computer's display resolution does not exceed the projector's resolution and frequency limit. If necessary, select a different display resolution for your computer. (See your computer manual for details.)
- As a test, try setting the computer's display resolution to the lowest possible setting, and then gradually increase it as necessary.

**Parent topic:** [Solving Image or Sound Problems](#)

## Related references

[Projector Setup Settings - Extended Menu](#)

## **Solutions When Only a Partial Image Appears**

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

- Try adjusting the image position using the **Position** menu setting.
- Select a different image aspect ratio from the Signal menu.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)

**Parent topic:** [Solving Image or Sound Problems](#)

### **Related references**

[Supported Video Display Formats](#)

[Input Signal Settings - Signal Menu](#)

## **Solutions When the Image is Not Rectangular**

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

- Turn on automatic keystone adjustments using the projector's menus.
- Place the projector directly in front of the center of the screen, facing it squarely, if possible.
- If you adjusted the projector height using the projector feet, press the keystone buttons on the projector to adjust the image shape.
- Adjust the position of the projector's horizontal keystone slider.

**Parent topic:** [Solving Image or Sound Problems](#)

### **Related references**

[Projector Feature Settings - Settings Menu](#)

### **Related tasks**

[Correcting Image Shape with the Keystone Buttons](#)

[Correcting Image Shape with the Horizontal Keystone Slider](#)

## Solutions When the Image Contains Noise or Static

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

- Check the cables connecting your computer or video source to the projector. They should be:
  - Separated from the power cord to prevent interference
  - Securely connected at both ends
  - Not connected to an extension cable
  - No longer than 10 feet (3 m) for VGA/computer cables or 24 feet (7.3 m) for HDMI cables
- Check the settings on the projector's Signal menu to make sure they match the video source.
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting to improve image quality.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
- Try a different cable.
- Try turning off **Frame Interpolation**, or turn on **Image Enhancement** in the Image menu.

**Parent topic:** [Solving Image or Sound Problems](#)

### Related references

[Input Signal Settings - Signal Menu](#)

[Supported Video Display Formats](#)

[Image Quality Settings - Image Menu](#)

## Solutions When the Image is Fuzzy or Blurry

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

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

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

- Position the projector close enough to the screen.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Turn on automatic keystone adjustment in the projector's menus.
- Adjust the **Sharpness** setting to improve image quality.
- If any bands or overall blurriness remain, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you are projecting from a computer, try using a lower resolution or try to match the projector's native resolution.

**Parent topic:** [Solving Image or Sound Problems](#)

#### **Related references**

[Projection Distance](#)

[Image Quality Settings - Image Menu](#)

[General Projector Specifications](#)

#### **Related tasks**

[Cleaning the Lens](#)

[Focusing the Image Using the Focus Ring](#)

## **Solutions When the Image Brightness or Colors are Incorrect**

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

- Press the **Color Mode** button on the remote control to try different color modes for the image and environment.
- Check your video source settings.
- Adjust the available settings on the Image menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, **Advanced**, and **Color Saturation**.
- Make sure 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 projector's menus.

**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.

- Position the projector close enough to the screen.

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

**Parent topic:** [Solving Image or Sound Problems](#)

**Related concepts**

[Projector Lamp Maintenance](#)

**Related references**

[Image Quality Settings - Image Menu](#)

[Projector Setup Settings - Extended 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 an HDMI cable that supports 3D signals.
- 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 RF 3D active shutter glasses. You can purchase them from Epson.
- Make sure your 3D glasses are turned on and fully charged. If the glasses have entered standby mode, slide the power switch on the glasses to the **Off** position and then back to the **On** position.
- Make sure your 3D glasses are paired with the projector.
- Adjust the **3D Depth** setting on the Signal menu.
- Make sure you are within the 3D viewing range.
- Make sure your screen size matches the **Diagonal Screen Size** setting on the Signal menu.
- Avoid using the projector near wireless networks, microwave ovens, 2.4 GHz cordless phones, or other devices that use the 2.4 GHz frequency band. These devices can interfere with the signal between the projector and the 3D glasses.
- If the other solutions do not solve the problem, change the **Inverse 3D Glasses** setting on the Signal menu. Return the setting to its original value if changing it does not solve the problem as it can adversely affect the 3D image.

**Parent topic:** [Solving Image or Sound Problems](#)

### Related references

[Projector Feature Settings - Settings Menu](#)

[3D Viewing Range](#)

[Optional Equipment and Replacement Parts](#)

### Related tasks

[Cleaning the 3D Glasses](#)

[Charging the 3D Glasses](#)

[Pairing the 3D Glasses with the Projector](#)

## Solutions to Sound Problems

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

- Adjust the projector's volume settings.
- Press the **A/V Mute** button on the remote control to resume video and audio if they were temporarily stopped.
- Press the **Source** button on the projector or a source button on the remote control 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.
- If you connected an audio device to the projector's **Audio Out** port, the internal speaker is disabled. However, you can still control the volume level via the projector's control panel or remote control.
- If you turn the projector on immediately after turning it off, the cooling fans may run at high speed momentarily and cause an unexpected noise. This is normal.

**Parent topic:** [Solving Image or Sound Problems](#)

### Related 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](#)

**Parent topic:** [Solving Problems](#)

### Solutions to Projector Power or Shut-Off Problems

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

- Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- The projector's buttons may be locked for security. Unlock the buttons or use the remote control to turn on the projector.
- If the projector's lamp shuts off unexpectedly, it may have entered standby mode after a period of inactivity. Press the power button to wake the projector and adjust the Sleep Mode Timer setting to change the sleep interval.
- If the power button on the remote control does not turn on the projector, check its batteries and make sure the **Remote Receiver** setting is turned on in the projector's menu, if available.
- Make sure **Sleep Mode** is not in effect.
- The power cord may be defective. Try another power cord. If that doesn't work, disconnect the cord and contact Epson.

**Parent topic:** [Solving Projector or Remote Control Operation Problems](#)

#### Related references

[Where to Get Help](#)

[Projector Light Status](#)

[Projector Feature Settings - Settings Menu](#)

#### Related tasks

[Unlocking the Projector's Buttons](#)

[Replacing the Remote Control Batteries](#)

## 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 purchase another from an authorized Epson reseller.

**Parent topic:** [Solving Projector or Remote Control Operation Problems](#)

### Related references

[Optional Equipment and Replacement Parts](#)

[Remote Control Operation](#)

[Projector Feature Settings - Settings Menu](#)

### Related tasks

[Replacing the Remote Control Batteries](#)

## Solving Network Problems

Check the solutions in these sections if you have problems using the projector on a network PowerLite Home Cinema 2045).

[Solutions When Wireless Authentication Fails](#)

**Parent topic:** [Solving Problems](#)



## Solutions When Wireless Authentication Fails

- If the wireless settings are correct, but authentication fails, you may need to update the **Time/Schedule Settings** on the Extended menu.
- Make sure the **Wireless LAN Power** setting is set to **On**.
- Check the Security settings and passphrase in the Network Configuration menu.

**Parent topic:** [Solving Network Problems](#)

## Where to Get Help

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

### Internet Support

Visit Epson's support website at [epson.com/support](http://epson.com/support) (U.S.) or [epson.ca/support](http://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 the menu system)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

### **Purchase Supplies and Accessories**

You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at [epsonstore.com](http://epsonstore.com) (U.S. sales) or [epson.ca](http://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](#)

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# Technical Specifications

These sections list the technical specifications of your projector.

[General Projector Specifications](#)

[Projector Lamp Specifications](#)

[Remote Control Specifications](#)

[Projector Dimension Specifications](#)

[Projector Electrical Specifications](#)

[Projector Environmental Specifications](#)

[Projector Safety and Approvals Specifications](#)

[Supported Video Display Formats](#)

## General Projector Specifications

|                           |   |
|---------------------------|---|
| <b>Type of display</b>    | Poly-silicon TFT active matrix  |
| <b>Resolution</b>         | 1920 × 1080 pixels (1080p)  |
| <b>Lens</b>               | F=1.58 to 1.72<br>Focal length: 16.9 mm to 20.28 mm   |
| <b>Color reproduction</b> | Full color, up to 1 billion colors  |
| <b>Brightness</b>         | Normal Power Consumption mode:<br>White light output 2200 lumens<br>Color light output 2200 lumens<br>ECO Power Consumption mode:<br>White light output 1500 lumens (ISO 21118 standard)  |
| <b>Contrast ratio</b>     | <b>Note:</b> Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118.<br>35000:1 with Dynamic color mode, Zoom = wide |

|  |  |
|--|--|
| <b>Image size</b><br>(in native aspect ratio)          | 34 inches (0.86 m) to 332 inches (8.4 m)   |
| <b>Projection distance</b><br>(in native aspect ratio) | 36 inches (0.91 m) to 431 inches (10.9 m)  |
| <b>Projection methods</b>                              | Front, rear, ceiling-mounted   |
| <b>Optical aspect ratio</b><br>(width-to-height)       | 16:9   |
| <b>Focus adjustment</b>                                | Manual   |
| <b>Zoom adjustment</b>                                 | Manual   |
| <b>Zoom ratio</b><br>(Tele-to-Wide)                    | 1:1.2  |
| <b>Internal sound system</b>                           | 5 W monaural   |
| <b>Noise level</b>                                     | 37 dB (Normal Power Consumption mode)<br>27 dB (ECO Power Consumption mode)                                    |
| <b>Keystone correction angle</b>                       | Vertical: $\pm 30^\circ$ (Auto keystone correction)<br>Horizontal: $\pm 30^\circ$ (Manual keystone correction) |
| <b>USB Type A port compatibility</b>                   | One USB 1.1 and 2.0 compliant port for USB mass storage device input   |

Parent topic: [Technical Specifications](#)

## Projector Lamp Specifications

|                          |   |
|--------------------------|---|
| <b>Type</b>              | UHE (Ultra High Efficiency)   |
| <b>Power consumption</b> | 200 W   |
| <b>Lamp life</b>         | Normal Power Consumption mode:<br>Up to about 4000 hours<br>ECO Power Consumption mode:<br>Up to about 7500 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: [Technical Specifications](#)

## Remote Control Specifications

|                        |                              |
|------------------------|------------------------------|
| <b>Reception range</b> | 19.7 feet (6 m)              |
| <b>Batteries</b>       | Two alkaline or manganese AA |

Parent topic: [Technical Specifications](#)

## Projector Dimension Specifications

|                                |  |
|--------------------------------|--|
| <b>Height</b> (excluding feet) | 4.5 inches (114 mm)  |
| <b>Width</b>                   | 11.7 inches (297 mm)   |
| <b>Depth</b>                   | 9.6 inches (245 mm)  |
| <b>Weight</b>                  | <b>PowerLite Home Cinema 2040:</b><br>6.4 lb (2.9 kg)<br><b>PowerLite Home Cinema 2045:</b><br>6.8 lb (3.1 kg) |

Parent topic: [Technical Specifications](#)

## Projector Electrical Specifications

|                        |   |
|------------------------|---|
| <b>Rated frequency</b> | 50/60 Hz                                  |
| <b>Power supply</b>    | 100 to 240 V AC $\pm$ 10%<br>3.1 to 1.4 A |

**Power consumption**

(100 to 120 V)

## Operating:

Normal Power Consumption mode: 307 W

ECO Power Consumption mode: 231 W

## Standby:

0.21 W (Communication Off), 2.1 W (Communication On)

**Power consumption**

(220 to 240 V)

## Operating:

Normal Power Consumption mode: 291 W

ECO Power Consumption mode: 224 W

## Standby:

0.28 W (Communication Off), 2.4 W (Communication On)

Parent topic: [Technical Specifications](#)

## Projector Environmental Specifications

**Temperature**

## Operating:

Up to 7500 ft (2286 m): 41 to 95 °F (5 to 35 °C)

7500 ft (2286 m) to 9843 ft (3000 m): 41 to 86 °F (5 to 30 °C)

Storage: 14 to 140 °F (–10 to 60 °C)

**Humidity** (relative, non-condensing)

Operating: 20 to 80%

Storage: 10 to 90%

**Operating altitude**

Up to 4921 feet (1500 m)

Up to 9843 feet (3000 m) with High Altitude Mode enabled

Parent topic: [Technical Specifications](#)

## Projector Safety and Approvals Specifications

**United States**

FCC Part 15 Class B (DoC)

UL60950-1 2nd edition (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 lists the compatible refresh rate and resolution for each compatible video display format.

| Display format                       | Refresh rate (in Hz) | Resolution (in pixels) |
|--------------------------------------|----------------------|------------------------|
| <b>Computer signals (analog RGB)</b> |                      |                        |
| VGA                                  | 60                   | 640 × 480              |
| SVGA                                 | 60                   | 800 × 600              |
| XGA                                  | 60                   | 1024 × 768             |
| WXGA                                 | 60                   | 1280 × 768             |
|                                      | 60                   | 1366 × 768             |
|                                      | 60                   | 1280 × 800             |
| SXGA                                 | 60                   | 1280 × 960             |
|                                      | 60                   | 1280 × 1024            |
| WXGA++                               | 60                   | 1600 × 900             |
| <b>Composite video</b>               |                      |                        |
| TV (NTSC)                            | 60                   | 720 × 480              |
| TV (PAL)                             | 50/60                | 720 × 576              |
| TV (SECAM)                           | 50                   | 720 × 576              |
| <b>HDMI input signals</b>            |                      |                        |
| VGA                                  | 60                   | 640 × 480              |

| Display format           | Refresh rate (in Hz) | Resolution (in pixels) |
|--------------------------|----------------------|------------------------|
| 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            |
| <b>MHL input signals</b> |                      |                        |
| VGA                      | 60                   | 640 × 480              |
| 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                | 1920 × 1080            |

### HDMI 3D Signals

| Display format | Refresh rate (in Hz) | Resolution (in pixels) | 3D formats                                      |
|----------------|----------------------|------------------------|---|
| HDTV (720p)    | 50/60                | 1280 × 720             | Frame Packing<br>Side by Side<br>Top and Bottom |
| HDTV (1080i)   | 50/60                | 1920 × 1080            | Side by Side                                    |
| HDTV (1080p)   | 50/60                | 1920 × 1080            | Side by Side                                    |
|                | 24                   | 1920 × 1080            | Frame Packing<br>Side by Side<br>Top and Bottom |

### MHL 3D Signals



| Display format | Refresh rate (in Hz) | Resolution (in pixels) | 3D formats                     |
|----------------|----------------------|------------------------|--------------------------------|
| HDTV (720p)    | 50/60                | 1280 × 720             | Side by Side<br>Top and Bottom |
| HDTV (1080i)   | 50/60                | 1920 × 1080            | Side by Side                   |
| HDTV (1080p)   | 50/60                | 1920 × 1080            | —                              |
|                | 24                   | 1920 × 1080            | Side by Side<br>Top and Bottom |

Parent topic: [Technical Specifications](#)

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## Notices

Check these sections for important notices about your projector.

[Recycling](#)

[Important Safety Information](#)

[Important Safety Instructions](#)

[FCC Compliance Statement](#)

[Open Source Software License](#)

[Trademarks](#)

[Copyright Notice](#)

## Recycling

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

**Parent topic:** [Notices](#)

## Important Safety Information

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

**Parent topic:** [Notices](#)

## Important Safety Instructions

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

- Do not look into the lens when the projector is on. The bright light can damage your eyes. Avoid standing in front of the projector so the bright light does not shine into your eyes.
- Do not place the projector on an unstable cart, stand, or table.
- Do not operate the projector on its side, or while tilted to one side.
- If the projector is mounted on a ceiling or wall, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- When installing or adjusting a ceiling or wall mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the projector case to crack and the

projector to fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector.

- Do not use the projector near water, sources of heat, high-voltage electrical wires, or sources of magnetic fields.
- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into a dusty outlet. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Do not overload wall outlets, extension cords, or power strips. Failure to comply with these precautions could result in fire or electric shock.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the projector from the wall outlet and allow to cool before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners, any sprays containing flammable gas, or solvents such as alcohol, paint thinner, or benzene.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers. Do not cover the projector with a blanket, curtain, or tablecloth. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the projector.
- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
- Never allow objects of any kind to enter any openings in the projector. Do not leave objects, especially flammable objects, near the projector. Never spill liquid of any kind into the projector.
- If you are using two or more projectors side-by-side, leave at least 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. Doing so may cause an unstable display and could lead to projector damage. Do not use or store the projector where it may be exposed to sudden changes in temperature.
- Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress. Do not bring your face close to the projector while it is in use.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not 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.

**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 health 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 use the device near any medical equipment or equipment that is automatically controlled, such as automatic doors or fire alarms. Electromagnetic interference from the device may cause such equipment to malfunction and cause an accident.
- Do not disassemble or modify the 3D glasses. This could cause a fire to occur or the images to appear abnormal when viewing, causing you to feel ill.
- 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.
- Do not place the 3D glasses in a fire or on a heat source, or leave them unattended in a location subject to high temperatures. Because this device has a built-in rechargeable lithium battery, it could cause burns or a fire if it ignites or explodes.
- When charging the 3D glasses, only use the supplied charging cable and connect the cable to the USB port designated by Epson. Do not charge the 3D glasses using other devices as it may cause the battery to leak, overheat, ignite, or explode.
- Do not drop the 3D glasses or press too forcefully on them. If the glass sections or other parts are broken, an injury could occur.
- 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](#)

## **FCC Compliance Statement**

### **For United States Users**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **WARNING**

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## For Canadian Users

CAN ICES-3(B)/NMB-3(B)

Parent topic: [Notices](#)

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The list of GPL Programs

- busybox-1.21.0
- iptables-1.4.20
- linux-3.4.49
- patches
- udhcp 0.9.8
- wireless\_tools 29
- dbus-1.6.18
- EPSON original drivers
- Stonestreet One Drivers
- linux-2.6.34
- PTP-1.00
- busybox-1.18.4
- bridge-utils-1.1



- gdb-6.4
- gawk-3.1.5
- oprofile-0.9.2
- binutils-2.16.1
- diehotplug0.4
- MTD-utils
- Yaffs2-s1pha1
- pppoe-3.8
- udftools-1.0.0b3
- lrzsz-0.12.20
- wireless-tools.29
- yaffs2-utils
- squashfs 4.2
- coreutils 6.9

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