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PROJECTOR OWNER'S MANUAL

Epson

PowerLite Pro Cinema LS9600e

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PowerLite® Pro Cinema LS9600e/LS10000 User's Guide

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PowerLite Pro Cinema LS9600e/LS10000 User's Guide

Welcome to the PowerLite Pro Cinema LS9600e/LS10000 *User's Guide*.

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 Pro Cinema LS9600e and LS10000 projectors include these special features:

Bright, high-resolution projection system

- PowerLite Pro Cinema LS9600e: Up to 1300 lumens of color brightness (color light output) and 1300 lumens of white brightness (white light output)

  PowerLite Pro Cinema LS10000: Up to 1500 lumens of color brightness (color light output) and 1500 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 300 inches (7.62 m) for projection on any wall or screen
- Laser light source provides Absolute black level and precision detail
- Super-resolution enhances low resolution images to 1920 × 1080 and sharpens blurred images
- 4K Enhancement projects 4K images using "4K Enhancement Technology", creating ultra-high definition images (PowerLite Pro Cinema LS10000)

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 video device or computer connections

- Watch both HDMI sources simultaneously with Picture-In-Picture mode
- One MHL (Mobile High-definition Link)-compatible HDMI port on the WirelessHD Transmitter for high-quality audio and video from tablets and smartphones (PowerLite Pro Cinema LS9600e)

Easy-to-use setup and operation features

- Laser light source provides up to 30,000 hours of operation
- Powered lens memory function for maintaining constant height for up to five different aspect ratios
- Vertical and horizontal lens shift, and vertical keystone correction buttons for flexible projector placement
- 2.1× optical zoom ratio for improved zooming capability

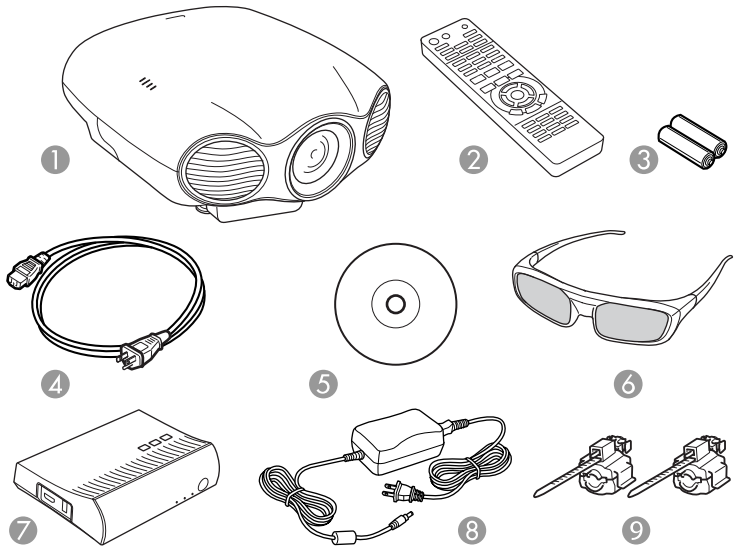
Product Box Contents
Additional Components
Optional Equipment and Replacement Parts
Warranty and Registration Information

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

6 3D glasses (2 pairs)

7 WirelessHD Transmitter (PowerLite Pro Cinema LS9600e)

8 WirelessHD Transmitter AC adapter (PowerLite Pro Cinema LS9600e)

9 HDMI cable clamps (2)

Parent topic: Projector Features

Additional Components

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

- To receive a component video signal, you need a compatible component cable. 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.

  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.

- 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 (PowerLite Pro Cinema LS9600e).
- To receive and view a 3D signal, you need a compatible HDMI cable. You can purchase one 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.

Parent topic: Projector Features

Optional Equipment and Replacement Parts

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

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

Option or part	Part number
Replacement air filter	V13H134A39
RF 3D glasses (ELPGS03)	V12H548006
Projector ceiling mount	CHF2500
Belkin PureAV HDMI audio video cable, 6 ft	AV22300-06
Belkin PureAV HDMI audio video cable, 3 ft	AV22300-03
Belkin Pro Series VGA/SVGA cable, 10 ft	F3H982-10
Kensington security lock	ELPSL01

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

Parent topic: Projector Features

Related tasks

Replacing the Air Filter

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

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

Parent topic: Projector Features

Notations Used in the Documentation

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

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

Parent topic: Introduction to Your Projector

Where to Go for Additional Information

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

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

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

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

Parent topic: Introduction to Your Projector

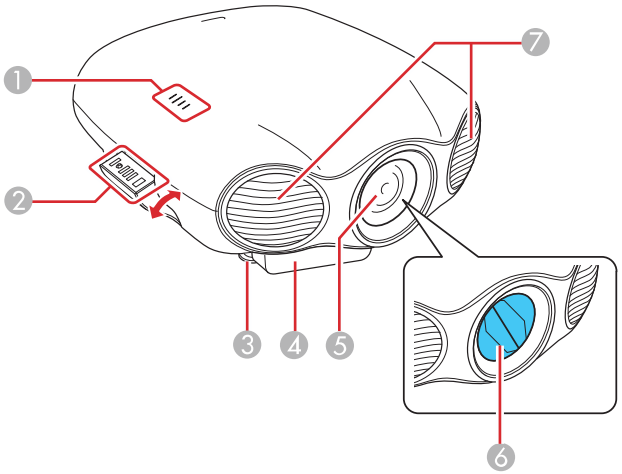
Projector Part Locations

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

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

Parent topic: Introduction to Your Projector

Projector Parts - Front/Top

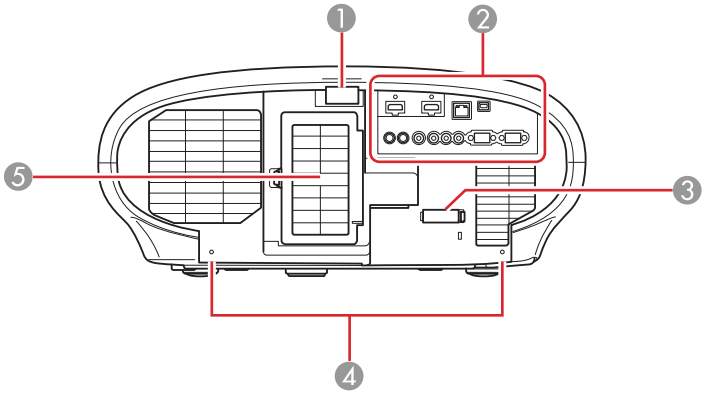


1 Projector status lights
2 Control panel
3 Front adjustable foot
4 WirelessHD receiver (PowerLite Pro Cinema LS9600e)
5 Lens
6 Lens shutter

7 Air exhaust vents

Parent topic: Projector Part Locations

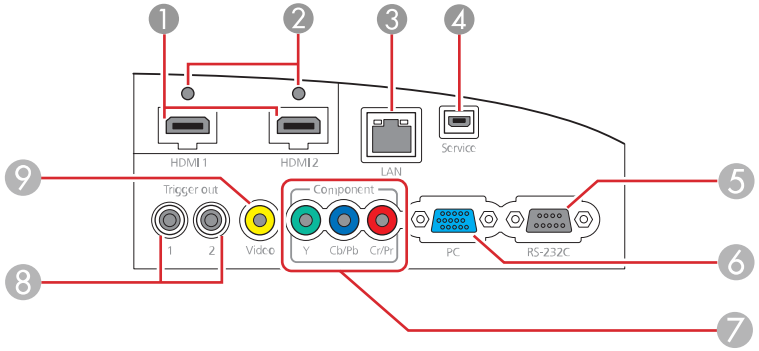
Projector Parts - Rear



1 Remote receiver
2 Projector ports
3 Cable clamp
4 Cable cover screw holes
5 Air intake/Air filter cover

Parent topic: Projector Part Locations

Projector Parts - Interface Ports



1 **HDMI1** / **HDMI2** ports

2 HDMI cable clamp slots (2)

3 **LAN** port

4 **Service** port

5 **RS-232C** port

6 **PC** port (VGA)

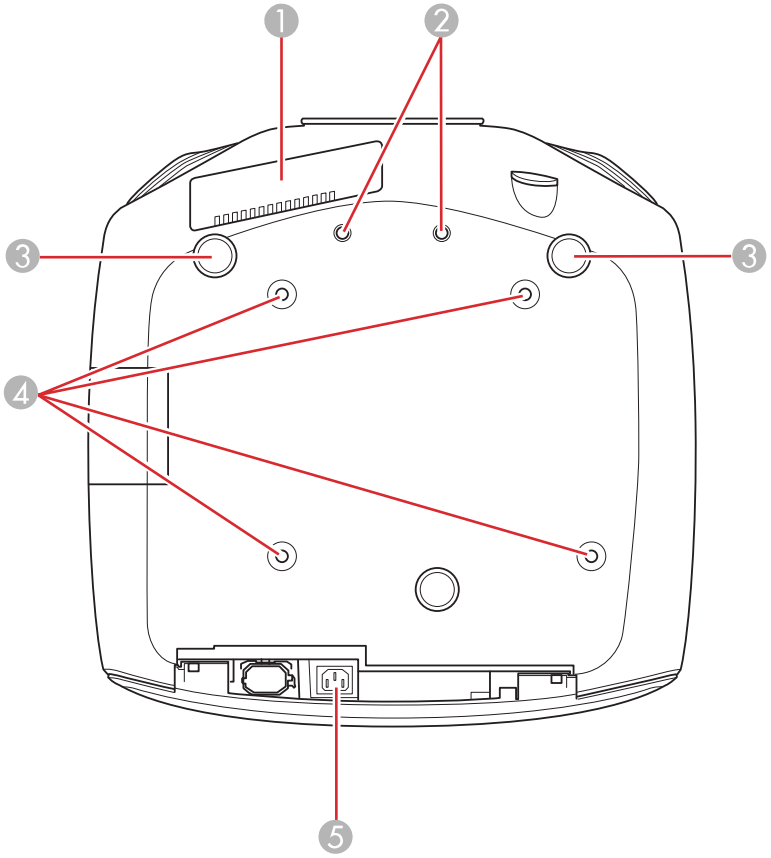
7 **Component** ports

8 **Trigger out 1** and **Trigger out 2** ports

9 **Video** port

Parent topic: Projector Part Locations

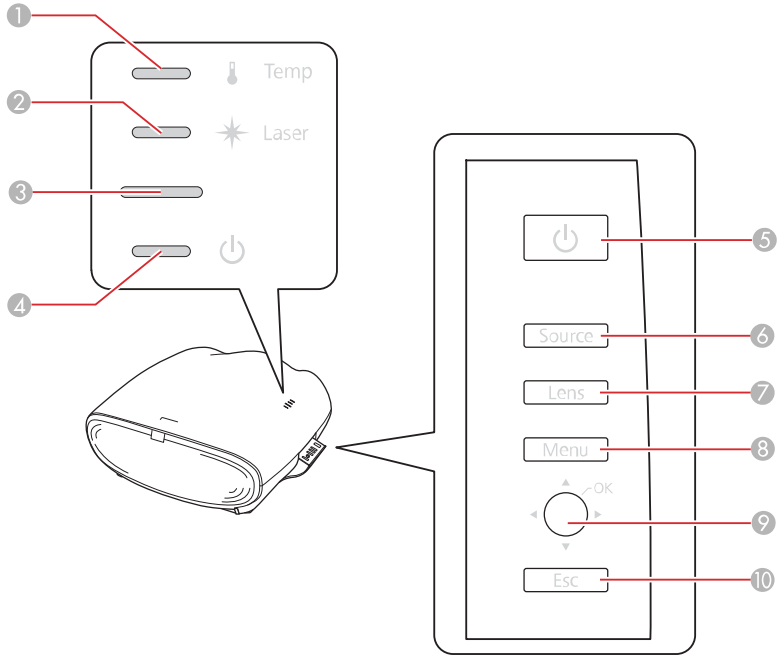
Projector Parts - Base



1 Air intake vent
2 Screw holes for anamorphic lens
3 Adjustable front feet
4 Mounting bracket holes
5 Power inlet

Parent topic: Projector Part Locations

Projector Parts - Control Panel and Projector Lights



1 **Temp** light
2 **Laser** light
3 Status light
4 Power light
5 Power button
6 **Source** button (cycles through the list of sources)
7 **Lens** button (cycles through the lens adjustment options)
8 **Menu** button (accesses configuration menus)
9 Directional thumbstick (push in for **OK** button; controls menu selection and keystone adjustment)
10 **Esc** button

Parent topic: Projector Part Locations

Related references

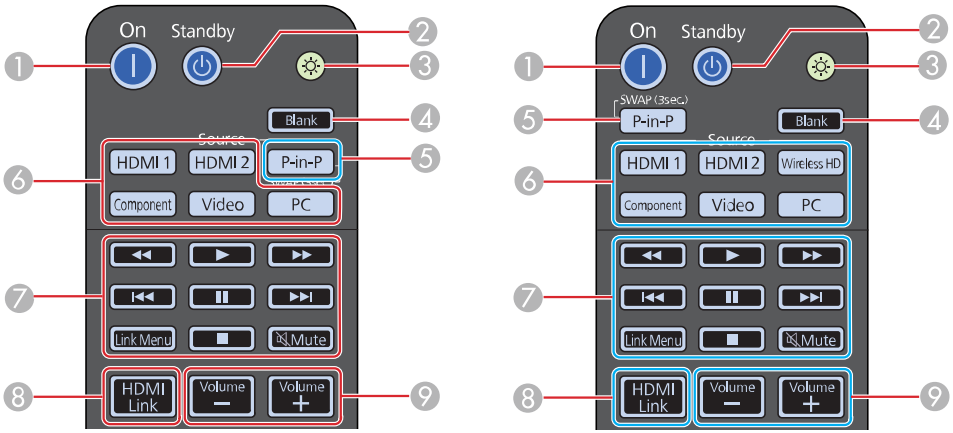
Projector Light Status

Projector Parts - Remote Control

Top buttons

Left: PowerLite Pro Cinema LS10000

Right: PowerLite Pro Cinema LS9600e



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

2 **Standby** button

3 Illumination button (lights the remote control)

4 **Blank** button (turns off video projection)

5 **P-in-P** button (controls the Picture-in-Picture mode for HDMI inputs)

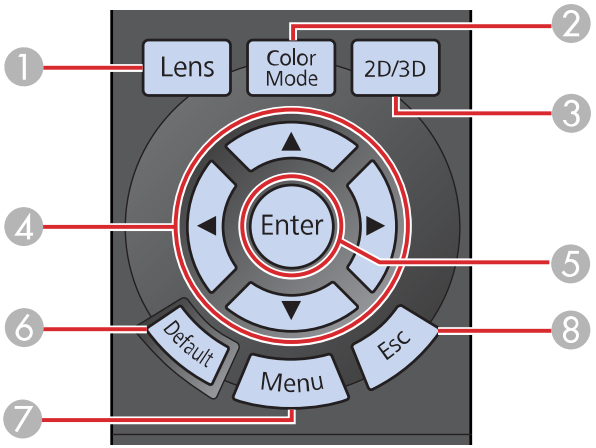
6 Source buttons (select specific video input sources)

7 HDMI Link control buttons (control playback and other features of connected devices that support the HDMI CEC standard)

8 **HDMI Link** button (displays the settings menu for HDMI Link)

9 **Volume** up/down buttons (adjust volume for devices connected via HDMI Link)

Center buttons

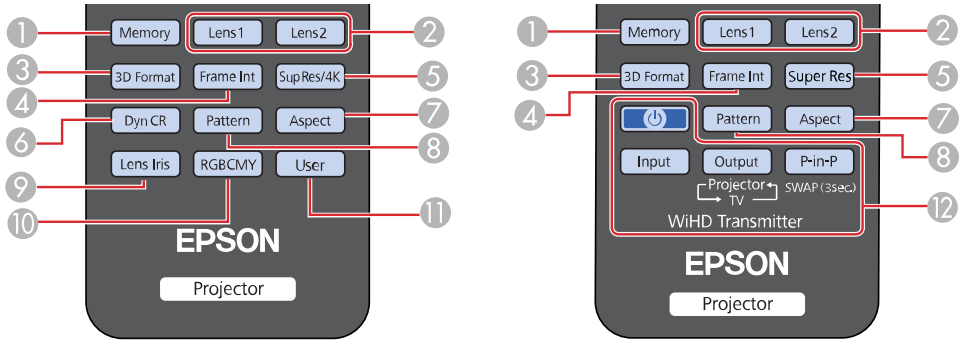


1 **Lens** button (cycles through the lens adjustment options)
2 **Color Mode** button (selects display modes)
3 **2D/3D** button (cycles between 2D and 3D modes)
4 Arrow buttons (move though on-screen options)
5 **Enter** button (selects options)
6 **Default** button (returns selected setting to default value)
7 **Menu** button (accesses projector menu system)
8 **Esc** button (cancels/exits functions)

Bottom buttons

Left: PowerLite Pro Cinema LS10000

Right: PowerLite Pro Cinema LS9600e



1 **Memory** button (accesses the Memory menu)

2 **Lens 1** / **Lens 2** buttons (loads a saved lens position)

3 **3D Format** button (changes the 3D format)

4 **Frame Int** button (adjusts the Frame Interpolation setting)

5 **SupRes/4K** button (PowerLite Pro Cinema LS10000; reduces blurring around the edges of images when viewing 3D content, or adjusts the 4K Enhancement setting for ultra-high-definition images)

Super Res button (PowerLite Pro Cinema LS9600e; reduces blurring around the edges of images)

6 **Dyn Cr** button (PowerLite Pro Cinema LS10000; sets Dynamic Contrast)

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

8 **Pattern** button (displays a test pattern)

9 **Lens Iris** button (PowerLite Pro Cinema LS10000; adjusts the contrast of the image by restricting the amount of light entering the lens)

10 **RGBCMY** button (PowerLite Pro Cinema LS10000; adjusts hue, saturation, and brightness for each RGBCMY color)

11 **User** button (PowerLite Pro Cinema LS10000; customizable for different functions)

12 WirelessHD transmitter control buttons (PowerLite Pro Cinema LS9600e; controls WirelessHD Transmitter functions)

Parent topic: Projector Part Locations

Setting Up the Projector

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

Projector Placement
Removing and Attaching the Cable Cover
Projector Connections
Installing Batteries in the Remote Control

Projector Placement

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

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

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

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

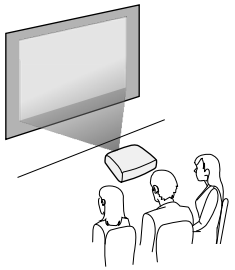
Projector Setup and Installation Options
Projection Distance

Parent topic: Setting Up the Projector

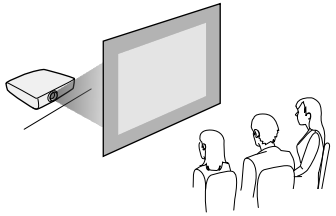
Projector Setup and Installation Options

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

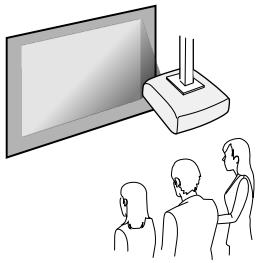
Front



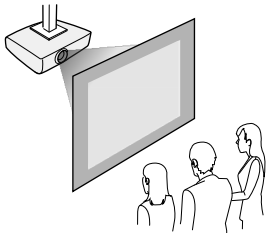
Rear



Front Ceiling



Rear Ceiling



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 the projector cannot be centered in front of the screen, use lens shift to reposition the image instead of using keystone correction for better image quality.

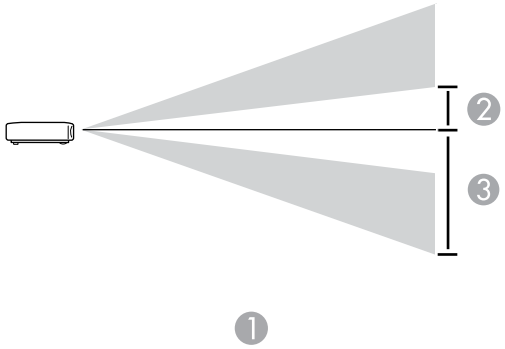
If you project from the ceiling or from the rear, be sure to select the correct **Projection** option in the projector's menu system.

Parent topic: Projector Placement

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.)



4:3 Aspect Ratio Image or Screen

Screen or image size	Projection distance (1) Wide to Tele	Offset from lens center (2)	Offset from lens center (3)
40 inches (101.6 cm)	53.9 to 115.7 inches (137 to 294 cm)	9.4 inches (24 cm)	33.5 inches (85 cm)
60 inches (152.4 cm)	81.5 to 174.8 inches (207 to 443 cm)	14.6 inches (37 cm)	50.4 inches (128 cm)
80 inches (203.2 cm)	109 to 232.7 inches (277 to 591 cm)	19.3 inches (49 cm)	67.3 inches (171 cm)
100 inches (254 cm)	137 to 291.3 inches (348 to 740 cm)	24 inches (61 cm)	83.9 inches (213 cm)

Screen or image size	Projection distance (1) Wide to Tele	Offset from lens center (2)	Offset from lens center (3)
120 inches (304.8 cm)	164.6 to 350 inches (418 to 889 cm)	28.7 inches (73 cm)	100.8 inches (256 cm)
150 inches (381 cm)	205.9 to 437.8 inches (523 to 1112 cm)	35.8 inches (91 cm)	126 inches (320 cm)
200 inches (508 cm)	275.2 to 583.9 inches (699 to 1483 cm)	48 inches (122 cm)	168.1 inches (427 cm)

16:9 Aspect Ratio Image or Screen

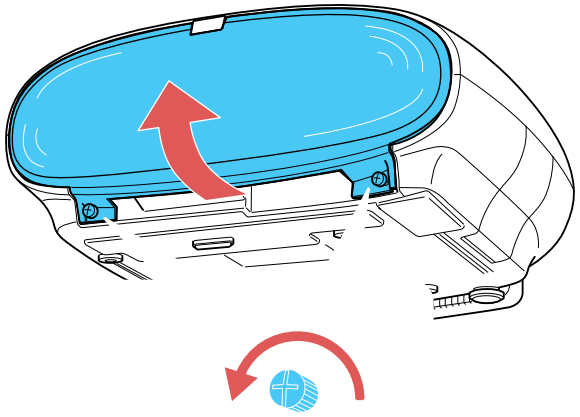
Screen or image size	Projection distance (1) Wide to Tele	Offset from lens center (2)	Offset from lens center (3)
40 inches (101.6 cm)	43.7 to 94.5 inches (111 to 240 cm)	7.9 inches (20 cm)	27.6 inches (70 cm)
60 inches (152.4 cm)	66.5 to 142.1 inches (169 to 361 cm)	11.8 inches (30 cm)	41.3 inches (105 cm)
80 inches (203.2 cm)	89 to 189.8 inches (226 to 482 cm)	15.7 inches (40 cm)	54.7 inches (139 cm)
100 inches (254 cm)	111.4 to 237.8 inches (283 to 604 cm)	19.7 inches (50 cm)	68.5 inches (174 cm)
120 inches (304.8 cm)	134.3 to 285.4 inches (341 to 725 cm)	23.6 inches (60 cm)	82.3 inches (209 cm)
150 inches (381 cm)	168.1 to 357.5 inches (427 to 908 cm)	29.5 inches (75 cm)	103.2 inches (262 cm)
180 inches (457.2 cm)	202 to 429.1 inches (513 to 1090 cm)	35.4 inches (90 cm)	123.6 inches (314 cm)

Parent topic: Projector Placement

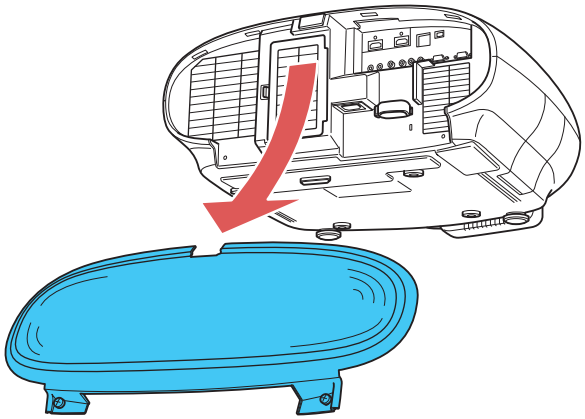
Removing and Attaching the Cable Cover

Before you can connect equipment to your projector, you need to remove the cable cover.

1. Remove both of the cable cover screws (screwdriver not included).



2. Lift off the cable cover.



To attach the cable cover, slide it into position and tighten the screws.

Parent topic: Setting Up the Projector

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.

- Connect any Windows or Mac computer that has a standard video output (15-pin VGA monitor) port, or HDMI port.

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 a Trigger Out Port

Parent topic: Setting Up the Projector

Connecting to Video Sources

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

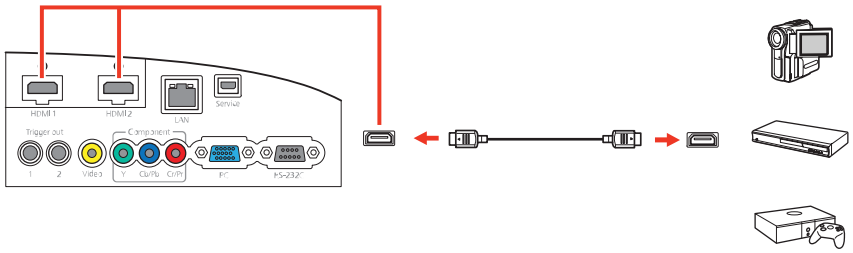
Connecting to an HDMI Video Source
Attaching and Removing the HDMI Cable Clip
Connecting to an MHL-Compatible Device
Connecting to a Component Video Source
Connecting to a Composite Video Source

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: 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.

You can also select the **Fast** Image Processing setting to reduce lag time.

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 tasks

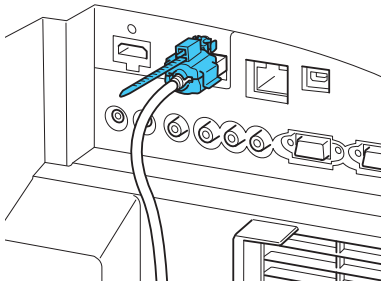
Attaching and Removing the HDMI Cable Clip

Attaching and Removing the HDMI Cable Clip

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

1. Plug in the HDMI cable.

2. Insert the end of the cable clip anchor into the cable clip slot near the **HDMI** port.



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

To remove the cable clip, open the clip and disconnect the HDMI cable. Then pinch the sides of the cable clip anchor and carefully pull it out of the cable clip slot.

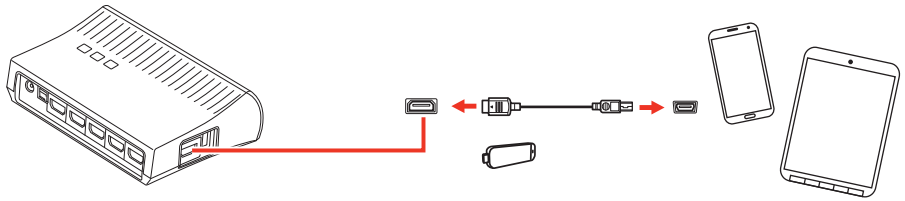
Parent topic: Connecting to Video Sources

Connecting to an MHL-Compatible Device

If you have an MHL-compatible smartphone or tablet, you can connect it to the WirelessHD transmitter using either an MHL cable or an HDMI cable with a device-compatible MHL adapter (PowerLite Pro Cinema LS9600e). If you have a device with a built-in MHL connector, plug it directly into the **HDMI 5 / MHL (IN)** 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 WirelessHD transmitter's **HDMI 5 / MHL (IN)** port.



Parent topic: Connecting to Video Sources

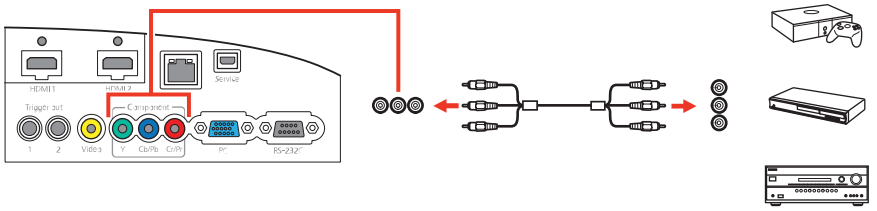
Related topics

Using WirelessHD

Connecting to a Component Video Source

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

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



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.

You can also select the **Fast** Image Processing setting to reduce lag time.

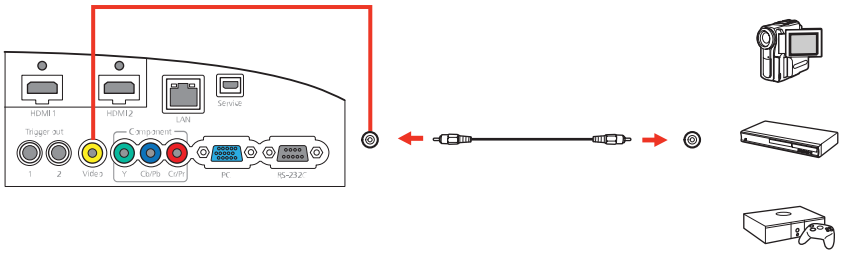
Parent topic: Connecting to Video Sources

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.



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

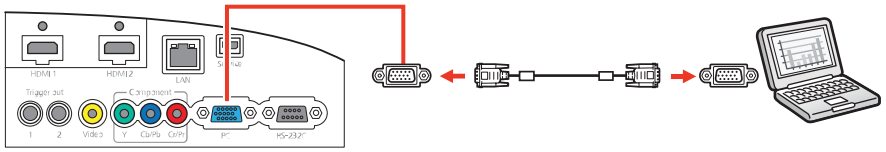
Parent topic: Projector Connections

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.

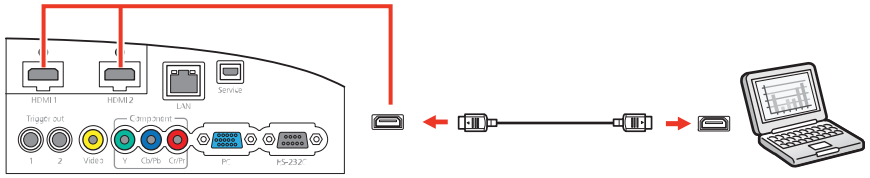
Parent topic: Connecting to Computer Sources

Connecting to a Computer for HDMI Video

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.

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.



Parent topic: Connecting to Computer Sources

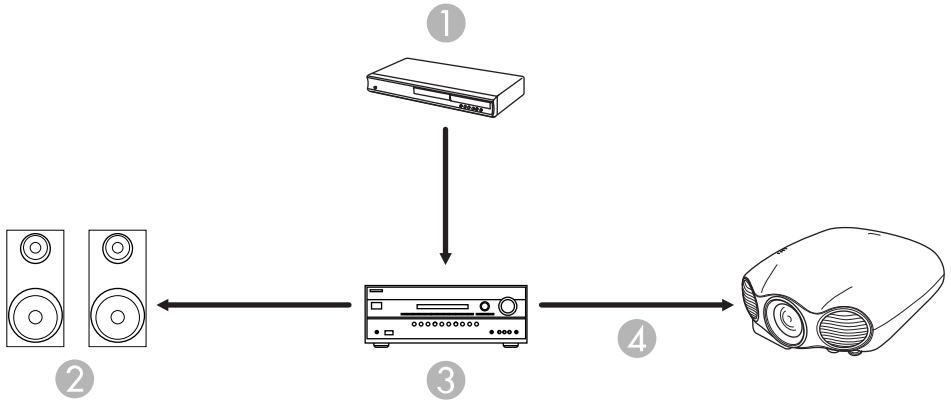
Related tasks

Attaching and Removing the HDMI Cable Clip

Connecting to External Speakers

To add sound, you can 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.



1 Video source
2 Surround sound speakers
3 Receiver
4 Video cable

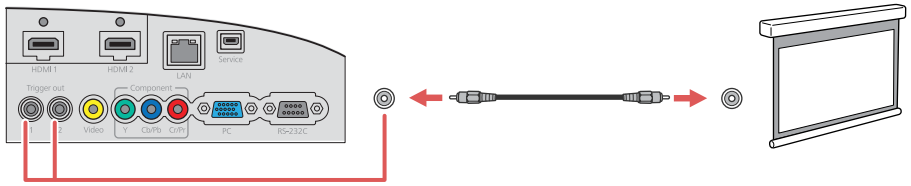
Parent topic: Projector Connections

Connecting to a Trigger Out Port

You can connect your projector to external devices such as motorized screens that support a trigger signal. When active, a 12V signal is sent to the connected device while the projector is powered on.

1. Connect a 3.5 mm stereo mini-jack cable to the external device's trigger port. See your device's documentation for details.

2. Connect the other end to one of the projector's **Trigger Out** ports.



3. Activate the trigger port in the projector's **Settings** menu.

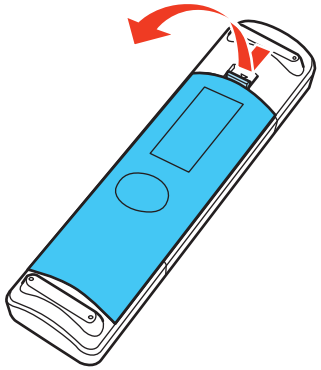
Parent topic: Projector Connections

Installing Batteries in the Remote Control

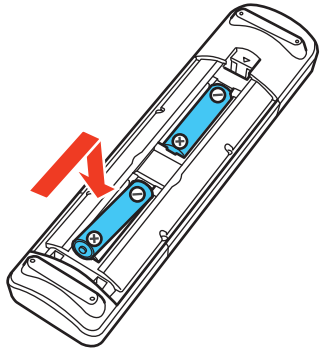
The remote control uses the two AA batteries that came with the projector.

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

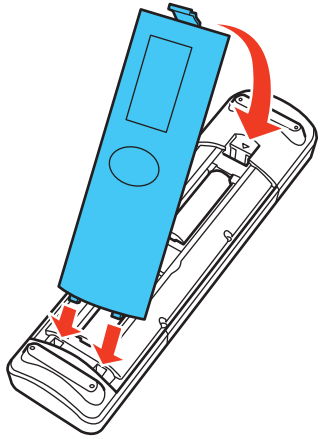
1. Remove the battery cover.



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

Related tasks

Replacing the Remote Control Batteries

Using the Projector on a Network

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

Wired Network Monitoring and Control
Setting Up Projector Network E-Mail Alerts
Setting Up Network Monitoring
Controlling a Networked Projector Using a Web Browser

Wired Network Monitoring and Control

You can monitor, configure, and control your projector through a wired network. You can also send email alerts from the projector when a problem occurs. To do this, you connect the projector to your network, and then set up your projector and computer for network monitoring.

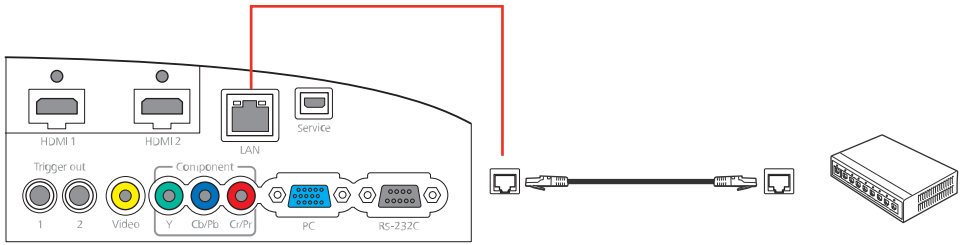
Connecting to a Wired Network
Selecting Wired Network Settings

Parent topic: Using the Projector on a Network

Connecting to a Wired Network

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

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



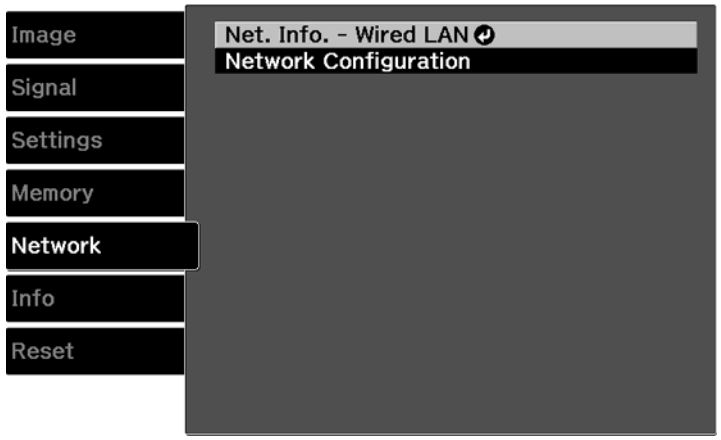
Parent topic: Wired Network Monitoring and Control

Selecting Wired Network Settings

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

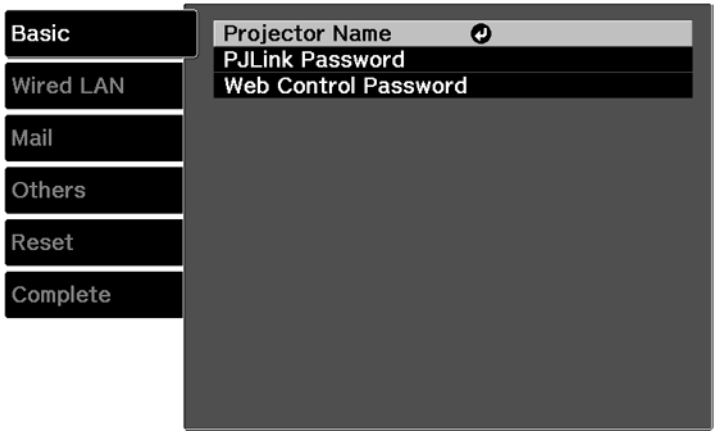
Note: Make sure you already connected the projector to your wired network using the **LAN** port.

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



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

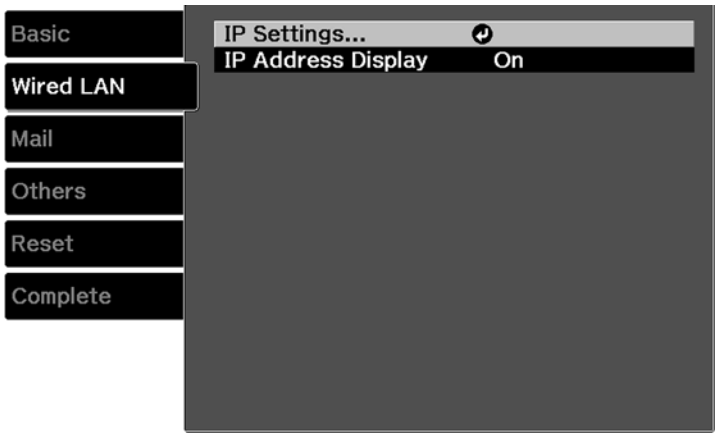
5. Select the **Basic** menu and press **Enter**.



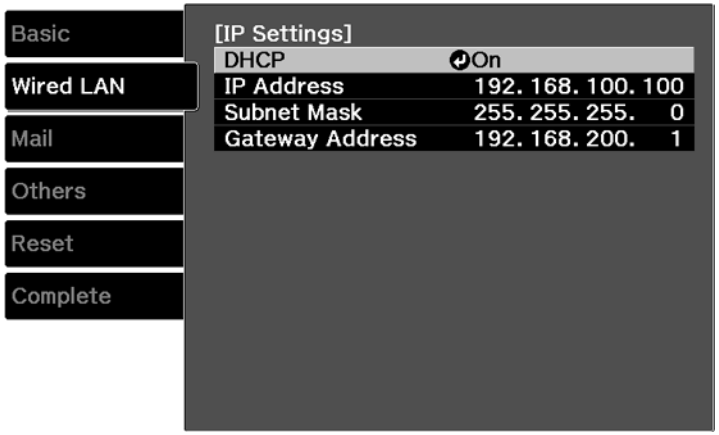
6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
   - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
   - **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web. (Default user name is **EPSONWEB**; default password is **admin**.)

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

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



8. Select **IP Settings** and press **Enter**.



9. Select your IP Settings as necessary:
   - If your network assigns addresses automatically, turn on the **DHCP** setting.

- If you must set addresses manually, turn off **DHCP** and enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address** as needed. When manually entering IP Settings, you cannot use restricted IP addresses.

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

10. To prevent display of the IP address on the standby screen, turn off **IP Address Display**.
11. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Restricted IP Addresses

Parent topic: Wired Network Monitoring and Control

Restricted IP Addresses

When manually entering IP Settings, you cannot use these ranges of IP addresses:

Setting	Restricted IP addresses
IP Address	0.0.0.0 127.x.x.x 192.0.2.x 224.0.0.0 to 255.255.255.255
Subnet Mask	0.0.0.0 255.255.255.255
Gateway Address	0.0.0.0 197.x.x.x 224.0.0.0 to 255.255.255.255

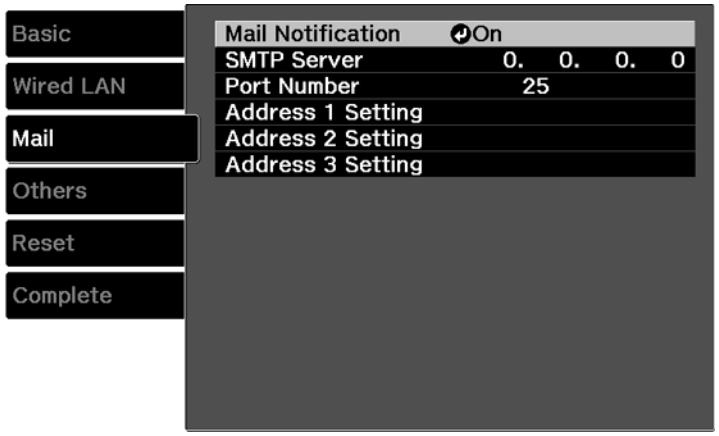
Parent topic: Selecting Wired Network Settings

Setting Up Projector Network E-Mail Alerts

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

1. Press the **Menu** button.

2. Select the **Network** menu and press **Enter**.
3. Select **Network Configuration** and press **Enter**.
4. Select the **Mail** menu and press **Enter**.



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

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

7. Select a number for the SMTP server **Port Number**, from 1 to 65535 (default is 25).
8. Choose an **Address** field, enter the e-mail address, and select the alerts you want to receive there. Repeat for up to three addresses.

   Note: Your e-mail address can be up to 64 alphanumeric characters long. You can only enter 32 characters via the projector menu. To enter more than 32 characters, use the web configuration page to enter the e-mail address.

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

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

Network Projector E-mail Alert Messages

Parent topic: Using the Projector on a Network

Network Projector E-mail Alert Messages

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

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

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

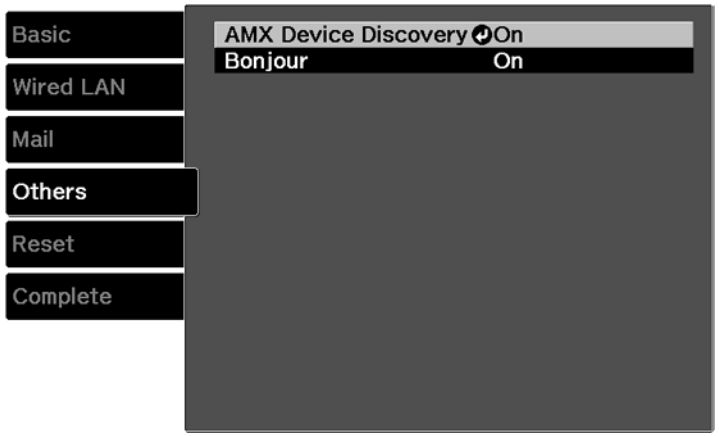
Parent topic: Setting Up Projector Network E-Mail Alerts

Setting Up Network Monitoring

Network administrators can install monitoring software on network computers so they can monitor projectors. If your network uses this software, you can set up the projector for monitoring.

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

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



5. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.
6. If your network environment uses a Control4 or Control4 SDDP controller, turn on the **Control4 SDDP** setting to allow the projector to be detected (PowerLite Pro Cinema LS10000).
7. If you are connecting to a network using Bonjour, turn on the **Bonjour** setting.
8. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Parent topic: Using the Projector on a Network

Controlling a Networked Projector Using a Web Browser

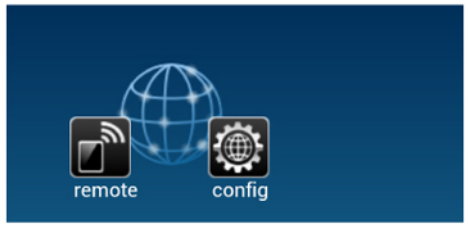
Once you have connected your projector to your network, you can select projector settings and control projection using a compatible web browser. This lets you access the projector remotely.

Note: The web setup and control features support Microsoft Internet Explorer 8, 9, or 10, and Safari on networks that do not use a proxy server for connection. You cannot select all of the projector menu settings or control all projector functions using a web browser.

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

1. Make sure the projector is turned on.
2. Start your web browser on a computer or device connected to the network.
3. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

   Note: If you connect from a web browser on a smartphone or tablet, a screen with two options is displayed. Select **remote** to display the Web Remote page, or select **config** to display the Web Control page.

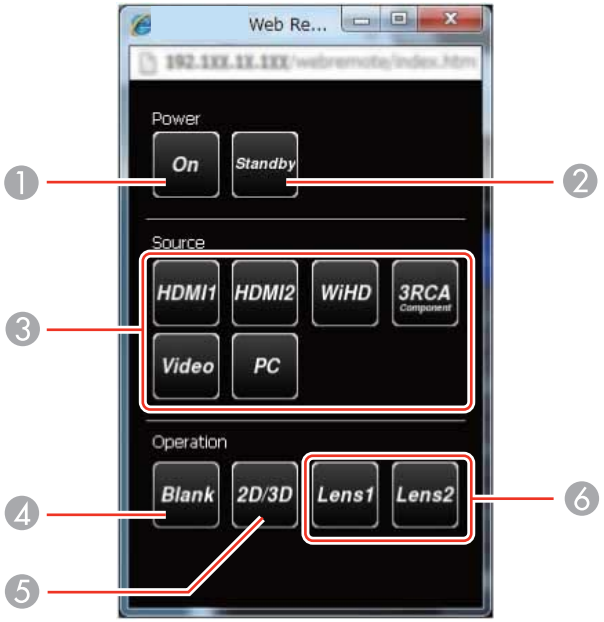
   

   You see the Web Control screen.

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

4. To select projector menu settings, select the name of the menu and follow the on-screen instructions.
5. To control projection remotely, select the **Web Remote** option.

You see a screen like this:



1 Turns the projector on

2 Turns the projector off

3 Selects **HDMI1**, **HDMI2**, **WiHD** (PowerLite Pro Cinema LS9600e), **3RCA** (component), **Video**, and **PC** port sources

4 **Blank** button control

5 Switches between 2D and 3D projection

6 Loads a saved lens position

6. Select the icon corresponding to the projector function you want to control.

Parent topic: Using the Projector on a Network

Using Basic Projector Features

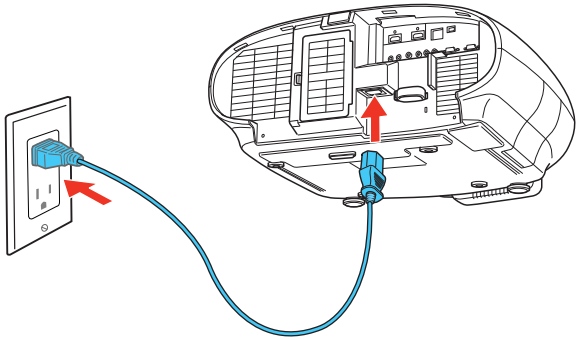
Follow the instructions in these sections to use your projector's basic features.

Turning On the Projector
Turning Off the Projector
Viewing 3D Images
Selecting the Language for the Projector Menus
Adjusting the Image Height
Image Shape
Resizing the Image with the Zoom Feature
Focusing the Image with the Lens Button
Adjusting the Color Convergence (Panel Alignment)
Remote Control Operation
Selecting an Image Source
Projection Modes
Image Aspect Ratio
Color Mode
Changing the Super-resolution Setting
Changing the Super-resolution/4K Enhancement Setting
Using Picture in Picture

Turning On the Projector

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

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



2. Plug the power cord into an electrical outlet.

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

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

   The shutter opens 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 laser 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:

- Turn on the connected computer or video device.
- Insert a DVD or other video media and press the play button, if necessary.
- Press the **Source** button on the projector to detect the video source, or press a source button on the remote control.

Parent topic: Using Basic Projector Features

Related references

Projector Feature Settings - Settings Menu

Turning Off the Projector

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

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

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

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

   The projector displays a shutdown confirmation screen.

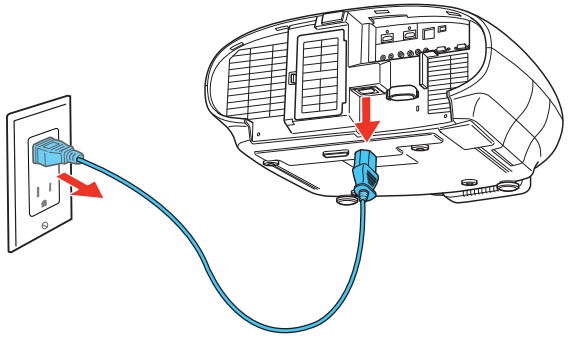


2. Press the power button on the projector or the **Standby** button on the remote control again. (To leave it on, press any other button.)

   The shutter closes, the laser turns off, and the Status light turns off.

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

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 laser, never unplug the power cord when the Status light is on or flashing.

Parent topic: Using Basic Projector Features

Related references

Projector Feature Settings - Settings Menu

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. 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 (U.S. sales) or epson.ca (Canadian sales).

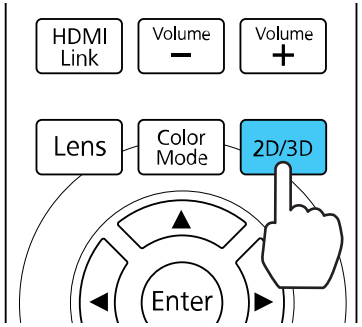
1. Connect a 3D-compatible video device to the projector using a compatible HDMI cable.

   Note: You can also connect a 3D HDMI source to the WirelessHD Transmitter (PowerLite Pro Cinema LS9600e).

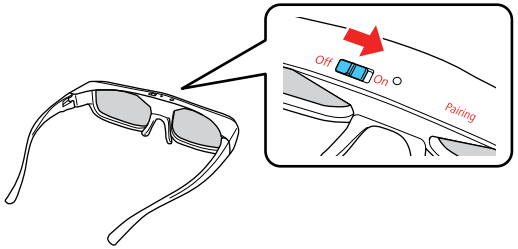
2. Turn on the video device, then turn on the projector.
3. Begin playback from the video device.

   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

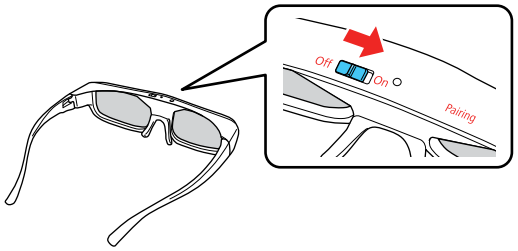
Related references

Input Signal Settings - Signal Menu

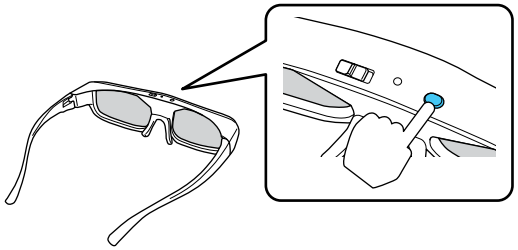
Pairing the 3D Glasses with the Projector

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 or WirelessHD (PowerLite Pro Cinema LS9600e).
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

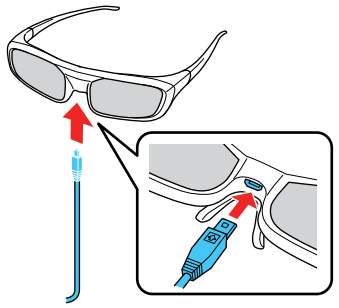
Related tasks

Selecting an Image Source

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. Do one of the following:
   - Plug the other end of the charging cable into a powered USB port on a computer or other device.
   - Plug the other end of the charging cable into a USB-to-AC adapter with the following specifications:

     Input: 100-240V, ~0.15A, 50-60Hz

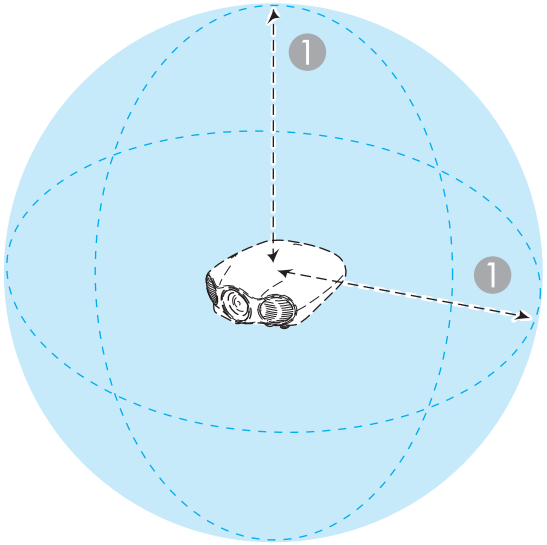
     Output: 5V=1A

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)

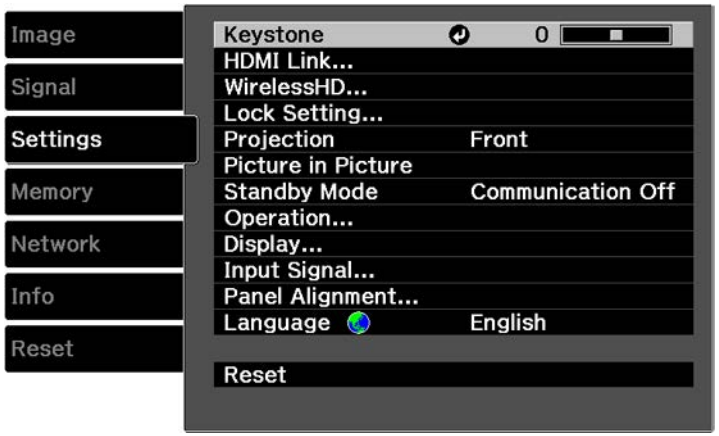
Parent topic: Viewing 3D Images

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 **Settings** 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

Related references

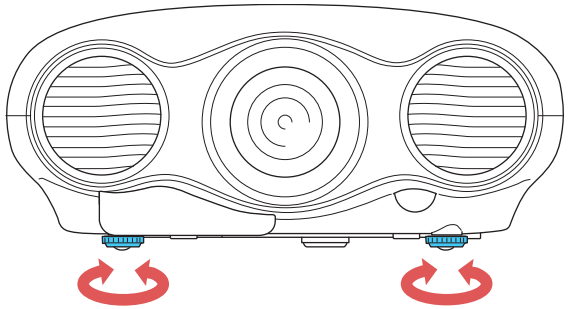
Projector Feature Settings - Settings Menu

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



3. Use the **Lens** button on the remote control to adjust the position of the projected image as necessary.

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

Adjusting the Image Position Using Lens Shift

Parent topic: Using Basic Projector Features

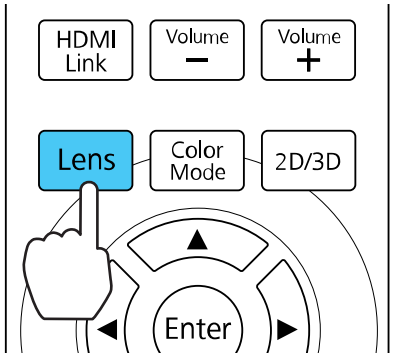
Adjusting the Image Position Using Lens Shift

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

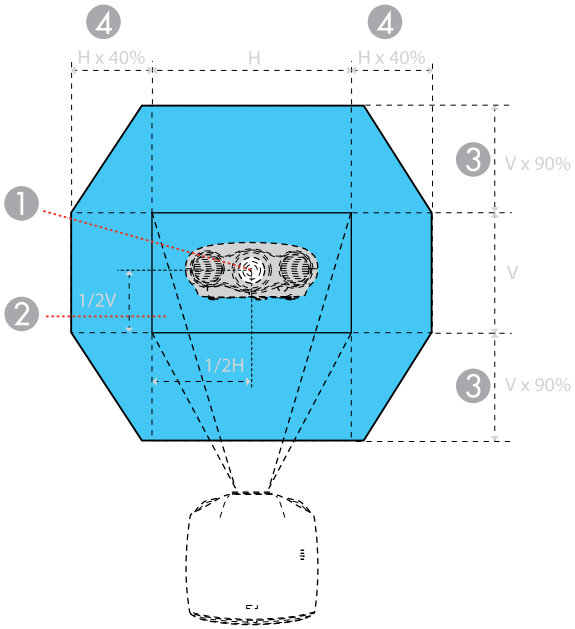
Note: Wait 30 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy.

1. Turn on the projector and display an image.

2. Press the **Lens** button on the control panel or remote control.



3. Press the **Lens** button repeatedly until **Adjust Lens Shift** is displayed on the screen.
4. Press the arrow buttons on the remote control or use the thumbstick on the control panel to adjust the position of the projected image as necessary.



1 Center of lens

2 Projected image when lens shift is set in the center

3 Maximum vertical range (V × 90%)

4 Maximum horizontal range (H × 40%)

Note: You cannot move the image to both the horizontal and vertical maximum values.

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

Note: When adjusting the image height, position the image lower than where you want it to be and then move it up. This will help prevent the image from moving down after adjustment.

Parent topic: Adjusting the Image Height

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.

Adjusting Keystone with the Control Panel

Parent topic: Using Basic Projector Features

Adjusting Keystone with the Control Panel

You can use the projector's thumbstick on the control panel to correct the shape of an image that is unevenly rectangular on the sides.

Note: To provide the best possible image quality, adjust the projector's position to correct the image shape. If this isn't possible, use keystone correction to correct the image shape.

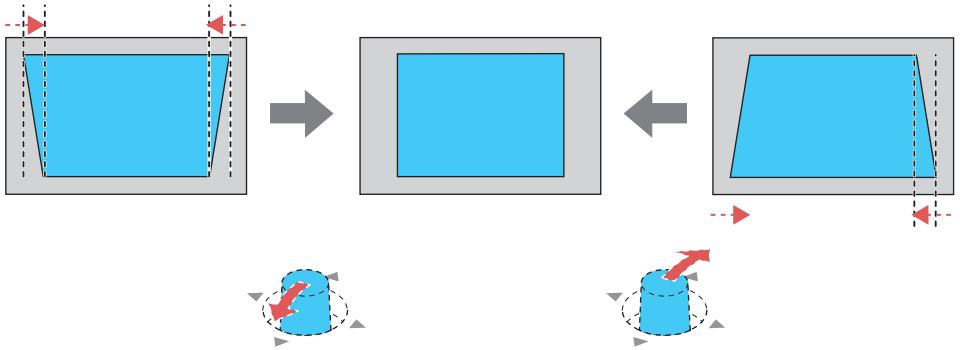
Note: Keystone corrections are most effective within a projection angle of 30° from top to bottom.

1. Turn on the projector and display an image.

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

   Note: You can also display the pattern by pressing the **Pattern** button on the remote control.

2. Move the thumbstick on the control panel up or down to display the keystone adjustment sliders, then continue moving the thumbstick up or down to adjust the image shape.



3. Push in the thumbstick on the control panel to set the keystone value.

   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

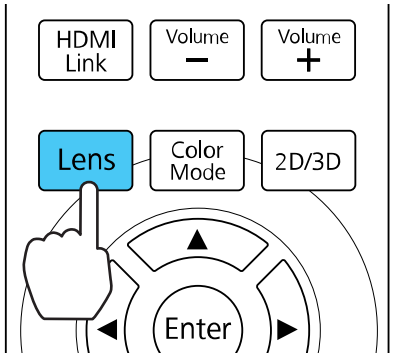
Resizing the Image with the Zoom Feature

You can adjust the size of the projected image using the zoom feature.

Note: Wait 30 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy.

1. Turn on the projector and display an image.

2. Press the **Lens** button on the projector's control panel or remote control.



3. Press the **Lens** button repeatedly until **Adjust Zoom** is displayed on the screen.
4. Press and hold the left or right arrow buttons on the projector's remote control or use the thumbstick on the control panel to resize the image.
5. Press the **Esc** button on the projector's control panel or remote control when finished.

Parent topic: Using Basic Projector Features

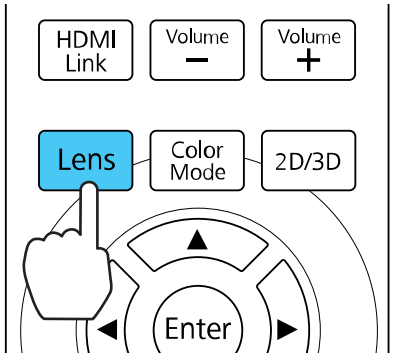
Focusing the Image with the Lens Button

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

Note: Wait 30 minutes after turning on the projector before setting the focus, zoom, and lens shift for maximum accuracy.

1. Turn on the projector and display an image.

2. Press the **Lens** button on the projector's control panel or remote control.



3. Press the **Lens** button repeatedly until **Adjust Focus** is displayed on the screen.
4. Press and hold the left or right arrow buttons on the projector's remote control or use the thumbstick on the control panel to focus the image.
5. Press the **Esc** button on the projector's control panel or remote control when finished.

Parent topic: Using Basic Projector Features

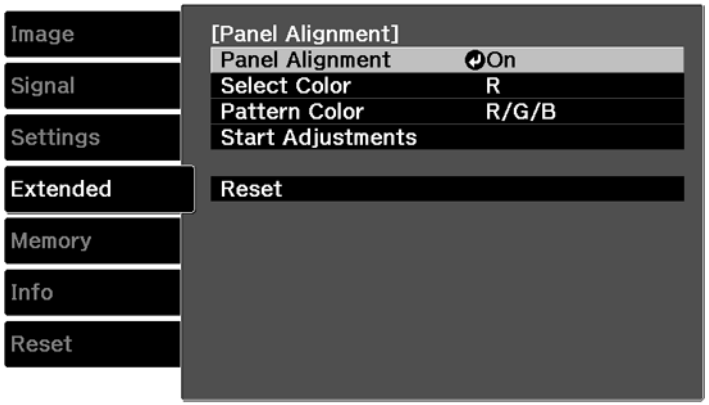
Adjusting the Color Convergence (Panel Alignment)

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

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

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

4. Select the **Panel Alignment** setting and press **Enter**.

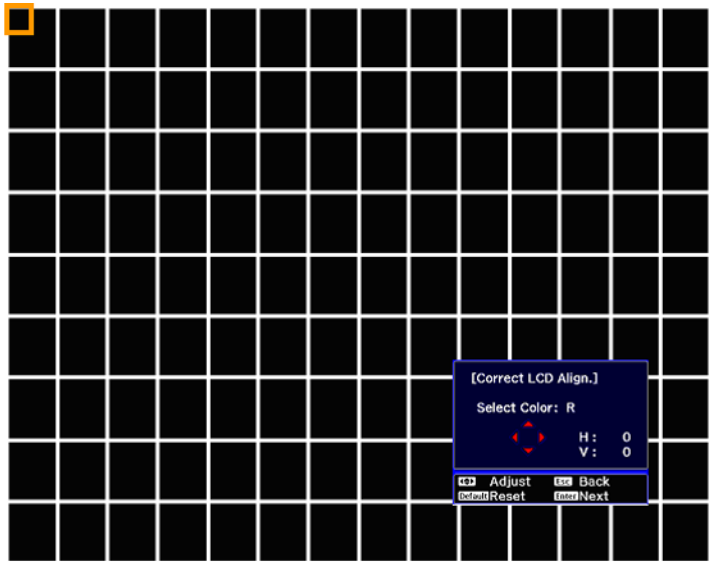


5. Select the **Panel Alignment** setting and press **Enter**.
6. Select **On** and press **Enter**.
7. Select the **Select Color** setting and choose one of the following:
   - **R** to adjust the red color convergence.
   - **B** to adjust the blue color convergence.

   Note: You can only adjust the red or blue color convergence. Green is the standard color panel and cannot be adjusted.

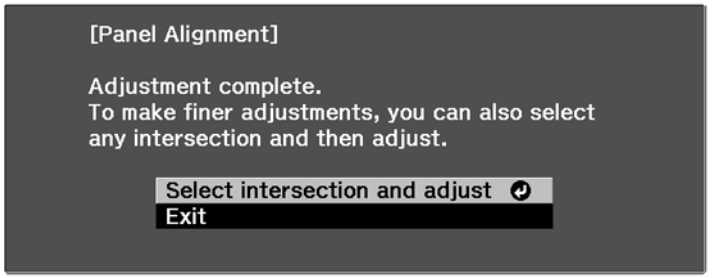
8. Select the **Pattern Color** setting and press **Enter**.
9. Select the pattern you want to use and press **Enter**.
10. Select **Start Adjustments** and press **Enter**.

You see this screen:



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

    You see this screen:



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

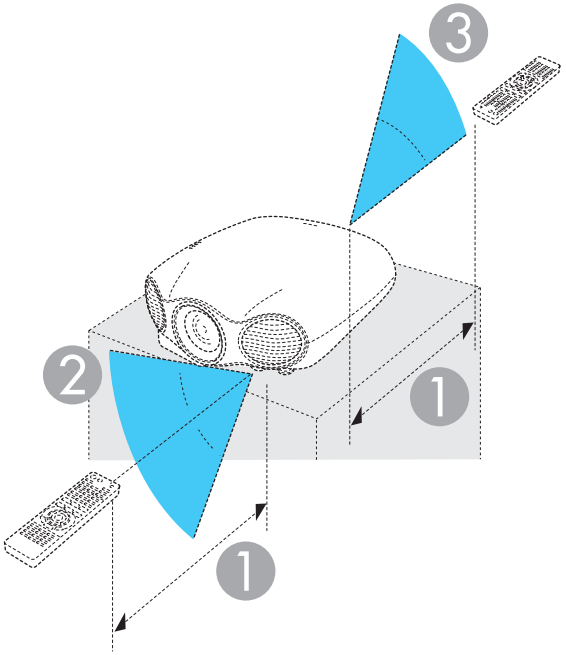
Parent topic: Using Basic Projector Features

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

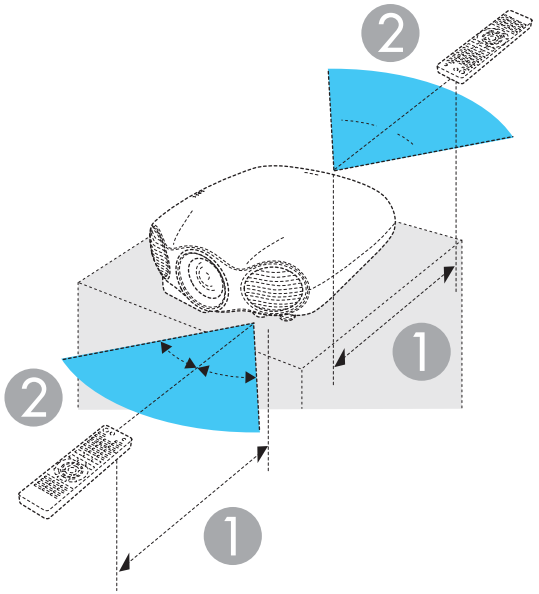


1 32 feet (10 m)

2 ± 30°

3 60°

Horizontal



1 32 feet (10 m)

2 ± 30°

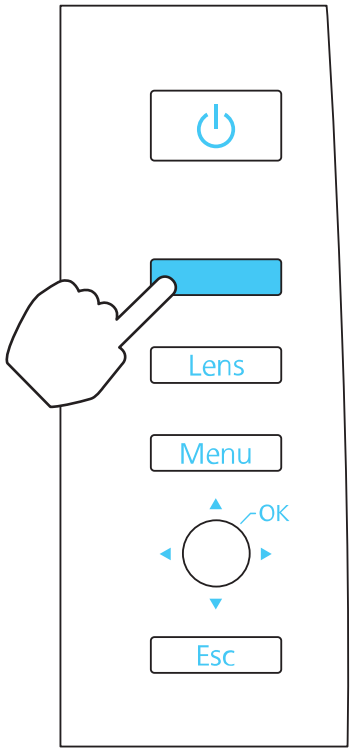
Note: Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you will not use the remote control for a long time, remove the batteries.

Parent topic: Using Basic Projector Features

Selecting an Image Source

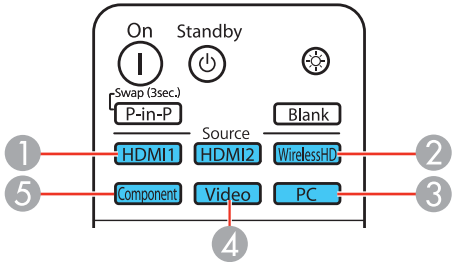
If you connected multiple image sources to the projector, such as a computer and DVD player, you may want to switch from one image source to the other.

1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press its play button, if necessary.
3. Do one of the following:
   - Press the **Source** button on the projector until you see the image from the source you want.



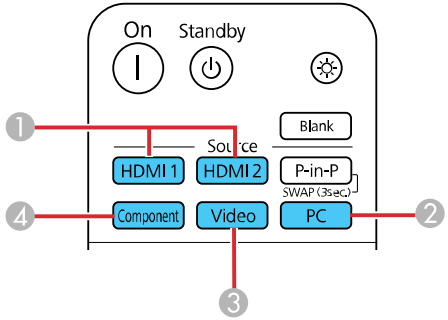
   - Press the button for the source you want on the remote control.

PowerLite Pro Cinema LS9600e



1 HDMI port sources
2 WirelessHD source
3 **PC** port (VGA) source
4 Composite video source
5 Component video source

PowerLite Pro Cinema LS10000



1 HDMI port sources
2 **PC** port (VGA) source
3 Composite video source
4 Component video source

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.

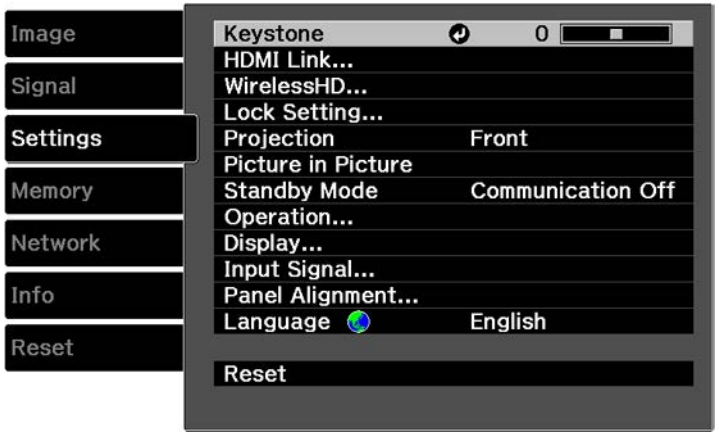
Changing the Projection Mode Using the Menus

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 **Settings** 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 references

Projector Feature Settings - Settings Menu

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

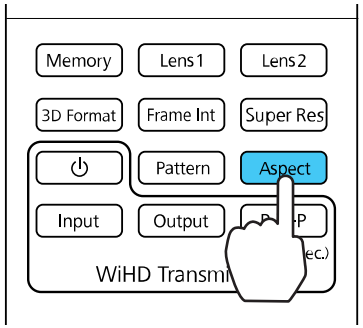
Changing the Image Aspect Ratio

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

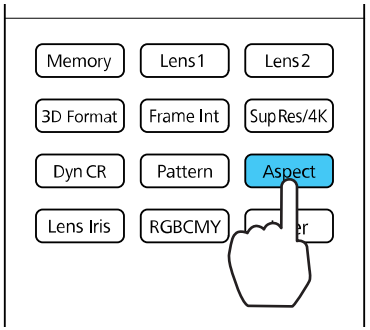
Note: For HDMI sources, the input signal determines the image's aspect ratio.

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

   PowerLite Pro Cinema LS9600e



PowerLite Pro Cinema LS10000



A list of the available aspect ratios appears.

3. To cycle through the available aspect ratios for your input signal, press the up or down arrow button.
4. Press **Enter** to select the aspect ratio.

Parent topic: Image Aspect Ratio

Related references

Input Signal Settings - Signal Menu

Available Image Aspect Ratios

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

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

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

Aspect ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal.
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image.
Full	Displays images using the full width of the projection area, but does not maintain the aspect ratio.

You can also select two modes that can be used with a third-party anamorphic lens.

Aspect ratio setting	Description
Anamorphic Wide	Displays CinemaScope content using an anamorphic lens.
Horiz. Squeeze	Stretches the horizontal aspect of the input signal to project across the entire screen using an anamorphic lens.

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.

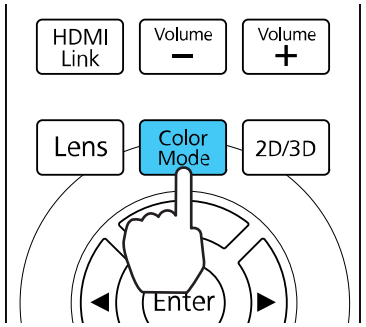
Changing the Color Mode
Available Color Modes
Adjusting the Lens Iris

Parent topic: Using Basic Projector Features

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

Related references

Image Quality Settings - Image Menu

Available Color Modes

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

2D Images

Color Mode	Description
Dynamic	Best for projecting in a bright room

Color Mode	Description
Living Room	Best for projecting in a room with closed curtains
Natural	Best for projecting in a dark room. Perform color adjustment in this mode.
THX	Uses a color mode authorized by THX Ltd.
Cinema	Best for movies and concerts projected in a dark room
Digital Cinema (PowerLite Pro Cinema LS10000)	Uses the same color spectrum as digital cinema movie theaters
Adobe RGB (PowerLite Pro Cinema LS10000)	Best when projecting images using the Adobe RGB color space

3D Images

Color Mode	Description
3D Dynamic	Best for projecting in a bright room
3D Cinema	Best for movies projected in a dark room
3D THX	Color mode authorized by THX Ltd.

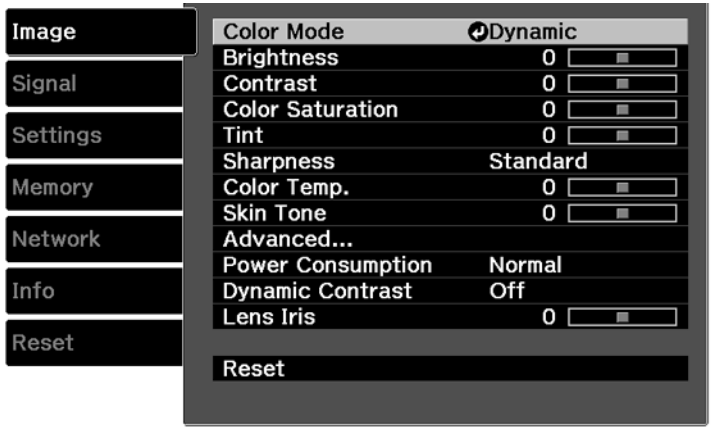
Parent topic: Color Mode

Adjusting the Lens Iris

In certain color modes, you can reduce the amount of light in the projection lens and adjust 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 **Lens Iris** setting and press and hold the left or right arrow buttons on the projector's remote control to adjust the lens iris.

   Note: Reducing the value increases the intensity of the colors in the image. The default values and settings differ based on the Color Mode settings and the zoom lens position.

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

Parent topic: Color Mode

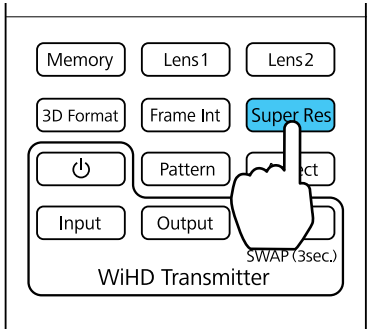
Changing the Super-resolution Setting

You can sharpen blurred images and enhance the apparent detail of an image by increasing the resolution of the image signal using the **Super-resolution** setting. (PowerLite Pro Cinema LS9600e).

Note: You cannot use Super-resolution when converting 2D images to 3D images, or when a computer image is displayed. When projecting 3D images, you can use this setting only with 1080p/24 Hz/frame packing signals.

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

2. Press the **Super Res** button on the remote control.



Note: You can also set the **Super-resolution** setting from the Signal menu.

A list of the setting values appears. Higher values increase the intensity of the effect.

3. Press the left or right arrow buttons on the projector's remote control to adjust the setting.
4. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Related references

Input Signal Settings - Signal Menu

Changing the Super-resolution/4K Enhancement Setting

You can set the strength of the **Super-resolution/4K** setting (PowerLite Pro Cinema LS10000).

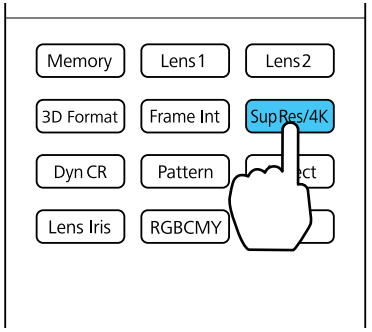
If you select a Super-resolution value of **1** to **5**, you can sharpen blurred images and enhance the apparent detail of an image by increasing the resolution of the image signal.

If you select a 4K Enhancement value of **4K-1** to **4k-5**, you can display 4K images (3840 × 2160) using 4K Enhancement Technology with super resolution processing and create ultra high-definition images.

Note: You cannot use Super-resolution when converting 2D images to 3D images, or when a computer image is displayed. When projecting 3D images, you can use Super-resolution only with 1080p/24 Hz/frame packing signals. You cannot use 4K Enhancement when projecting 3D images.

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

2. Press the **Sup Res/4K** button on the remote control.



Note: You can also select the **Super-resolution/4K** setting in the Signal menu.

A list of the available settings appears.

3. Press the up or down arrow buttons on the projector's remote control to select a setting.
4. Press the **Sup Res/4K** button on the remote control to exit the menu.

Parent topic: Using Basic Projector Features

Related references

Input Signal Settings - Signal Menu

Using Picture in Picture

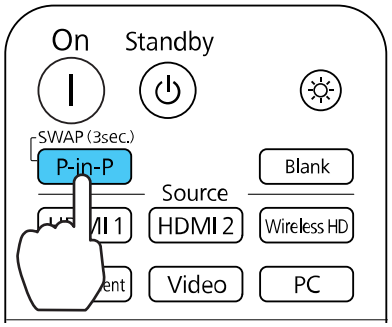
You can use Picture in Picture mode to view two image sources simultaneously.

Note: You can only display HDMI or WirelessHD (PowerLite Pro Cinema LS9600e) video sources when Picture in Picture mode is active.

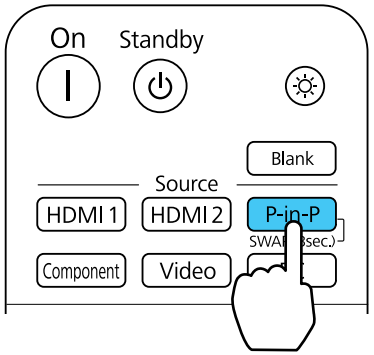
Note: You cannot use Picture in Picture while projecting 3D or 4K images.

1. Turn on the projector and switch to the HDMI or WirelessHD image source you want to use.
2. Press the **P-in-P** button on the remote control.

   PowerLite Pro Cinema LS9600e



PowerLite Pro Cinema LS10000



The second HDMI video source appears as a sub-screen in the corner of the image.

Note: While Picture in Picture mode is active, press the **Menu** button on the remote control to adjust the size and position of the sub-screen.

3. To swap the main screen and sub-screen video sources, press and hold the **P-in-P** button for at least three seconds.
4. Press the **P-in-P** button again to close the sub-screen and resume normal projection.

Available Picture in Picture Options

Parent topic: Using Basic Projector Features

Related references

Projector Feature Settings - Settings Menu

Available Picture in Picture Options

You can adjust the following options by pressing the **Menu** button on the remote control while Picture in Picture mode is active:

Setting	Description
Subscreen Size	Adjusts the size of the sub-screen
Subscreen Position	Adjusts the location where the sub-screen is displayed
Subscreen Source (PowerLite Pro Cinema LS9600e)	Selects which source appears in the sub-screen
Swap Main/Sub	Switches the video source displayed on the main screen with the source displayed on the sub-screen
Exit Picture in Picture	Closes the sub-screen and resumes normal projection

Parent topic: Using Picture in Picture

Adjusting Projector Features

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

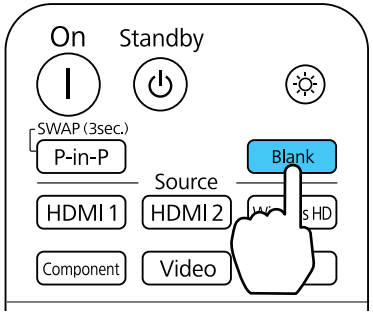
Shutting Off the Picture Temporarily
Locking the Projector's Buttons
Saving Settings to Memory and Using Saved Settings
Saving the Lens Position and Using Saved Lens Positions

Shutting Off the Picture Temporarily

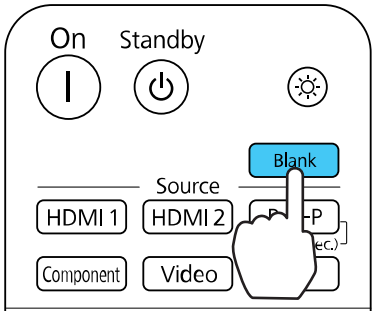
You can temporarily turn off the projected picture if you want to redirect your audience's attention during a presentation. Any video action continues to run, however, so you cannot resume projection at the point that you stopped it.

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

   PowerLite Pro Cinema LS9600e



   PowerLite Pro Cinema LS10000



2. To turn the picture back on, press the **Blank** button again.

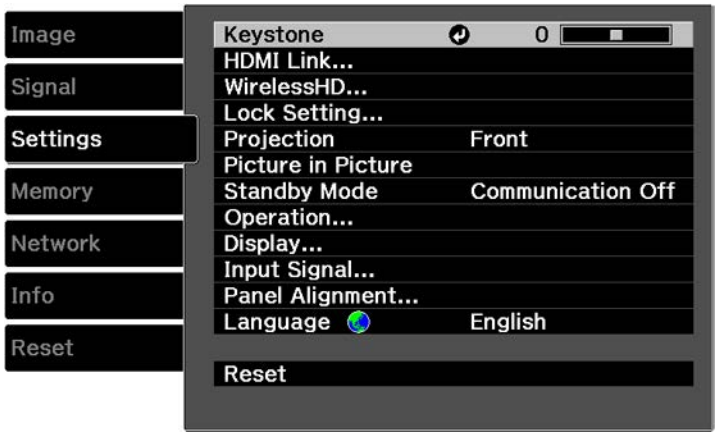
Parent topic: Adjusting Projector Features

Locking the Projector's Buttons

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

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

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



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

     Note: Child Lock does not prevent the projector from turning on when the power cord is connected if the **Direct Power On Setting** is set to **On**.

   - To lock all buttons except the power button, select **Control Panel Lock**. 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: Adjusting Projector 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.

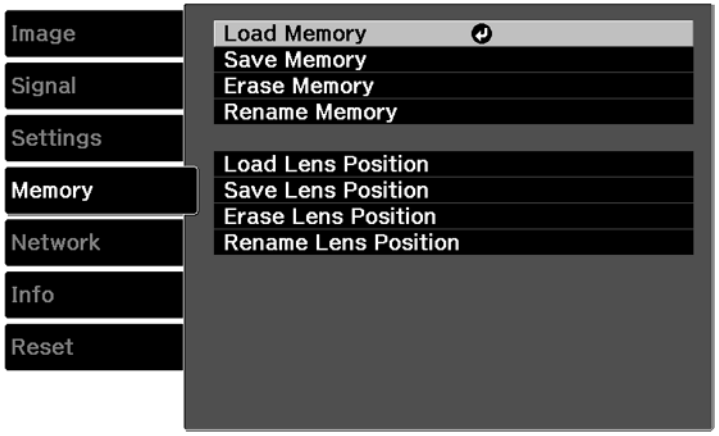
Parent topic: Locking the Projector's Buttons

Saving Settings to Memory and Using Saved Settings

You can save customized settings for each of your video inputs and then select the saved settings whenever you want to use them.

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

You see this screen:



5. Select one of the following options:
   - **Load Memory**: Overwrites your current settings with saved settings
   - **Save Memory**: Saves your current settings to memory (10 memories with different names are available)

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

   - **Erase Memory**: Erases the selected memory settings
   - **Rename Memory**: Renames a saved memory
6. Press **Esc** to exit.

Parent topic: Adjusting Projector Features

Related references

Projector Memory Options - Memory Menu

Saving the Lens Position and Using Saved Lens Positions

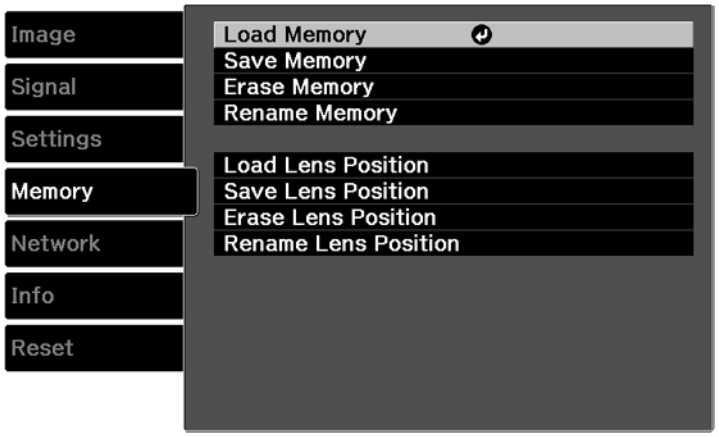
You can save the focus, zoom, and lens shift settings and then select the saved settings whenever you want to use them.

1. Turn on the projector and display an image.
2. Adjust the focus, zoom, and lens shift settings.
3. Press the **Menu** button.

   Note: You can also press the **Memory** button on the remote control to access the Memory menu directly.

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

   You see this screen:



5. Select one of the following options:
   - **Load Lens Position**: Overwrites your current settings with saved settings

     Note: You can load the saved settings from **Memory1** or **Memory2** by pressing the **Lens1** or **Lens2** buttons on the remote control.

   - **Save Lens Position**: Saves your current settings to memory (10 memories with different names are available)

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

- **Erase Lens Position**: Erases the selected memory settings
- **Rename Lens Position**: Renames a saved memory (12 characters maximum)

6. Press **Esc** to exit.

Parent topic: Adjusting Projector Features

Using WirelessHD

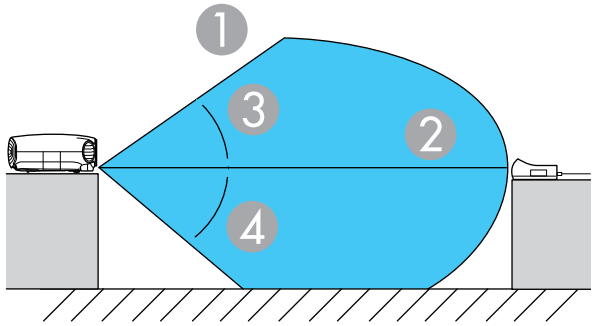
You can use the included WirelessHD transmitter to wirelessly stream HD content from a video device to the projector(PowerLite Pro Cinema LS9600e).

WirelessHD Transmission Range
WirelessHD Remote Control Operation
Connecting the WirelessHD Transmitter
Viewing WirelessHD Content
Switching WirelessHD Sources
Using the WirelessHD Picture in Picture Feature

WirelessHD Transmission Range

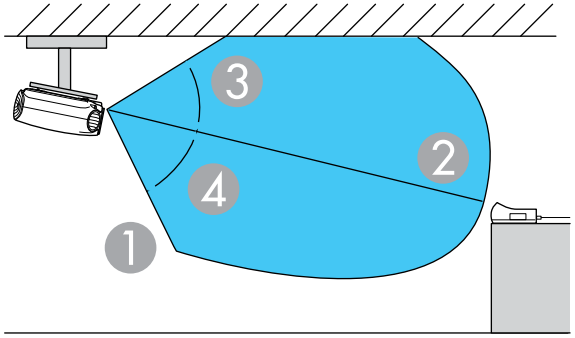
The WirelessHD Transmitter must be placed within the distance and angles shown here. Make sure the front of the WirelessHD Transmitter faces the front of the projector.

Vertical (on surface)



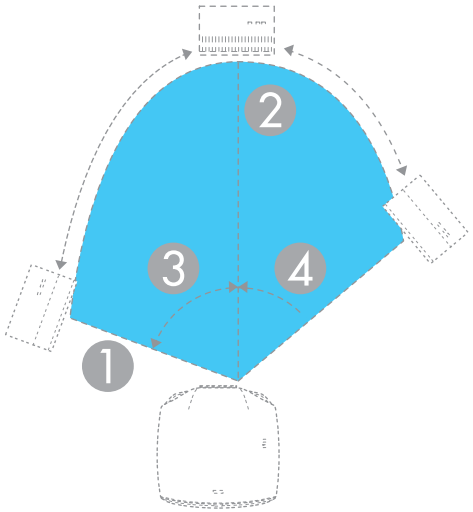
1	16 feet (5 m)
2	32 feet (10 m)
3	35°
4	40°

Vertical (inverted on ceiling)



1	16 feet (5 m)
2	32 feet (10 m)
3	45°
4	50°

Horizontal (when WiHD Mode is set to Full)



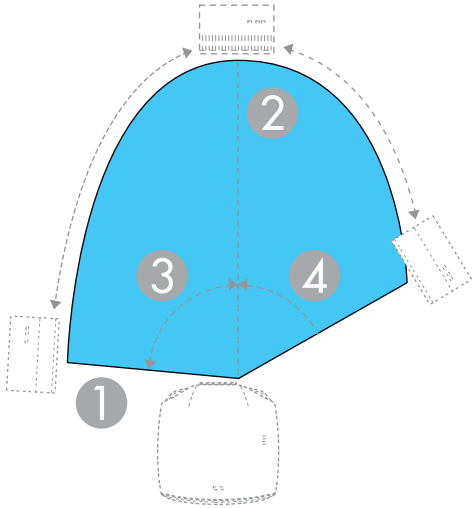
1 16 feet (5 m)

2 32 feet (10 m)

3 70°

4 50°

Horizontal (when WiHD Mode is set to Dynamic)



1 16 feet (5 m)

2 32 feet (10 m)

3 85°

4 60°

When positioning the WirelessHD transmitter, note the following:

- The wireless transmission range varies depending on the placement and material of the furniture and walls. The values provided here are for your reference only.
- The projector cannot communicate through walls.
- Place the WirelessHD transmitter on a wooden shelf or other location that does not block the signal.

- The antennas are built into the front of the projector and the transmitter. Make sure the antennas face each other when setting up the devices.
- When checking the signal, place the projector and WirelessHD Transmitter close to each other and make sure there are no other projectors operating nearby.
- Depending on the signal strength, the image's color information may be automatically discarded to avoid any interruptions and maintain a constant connection. To avoid any deterioration in image quality, adjust the position of the transmitter so that the **Reception** setting is as strong as possible. If no image is being input, the **Reception** setting displays **0%**, even if the projector and transmitter are connected.

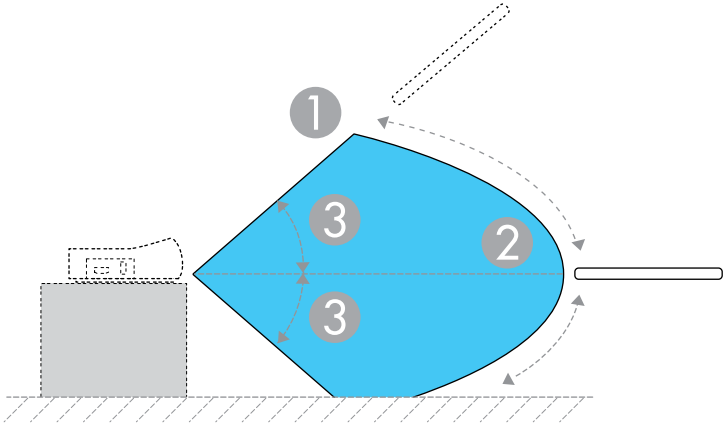
Parent topic: Using WirelessHD

WirelessHD Remote Control Operation

The remote control lets you control the WirelessHD transmitter from almost anywhere in the room. You must point the remote at the transmitter.

Make sure that you aim the remote control at the WirelessHD transmitter's remote receiver within the distance and angles listed here.

Vertical

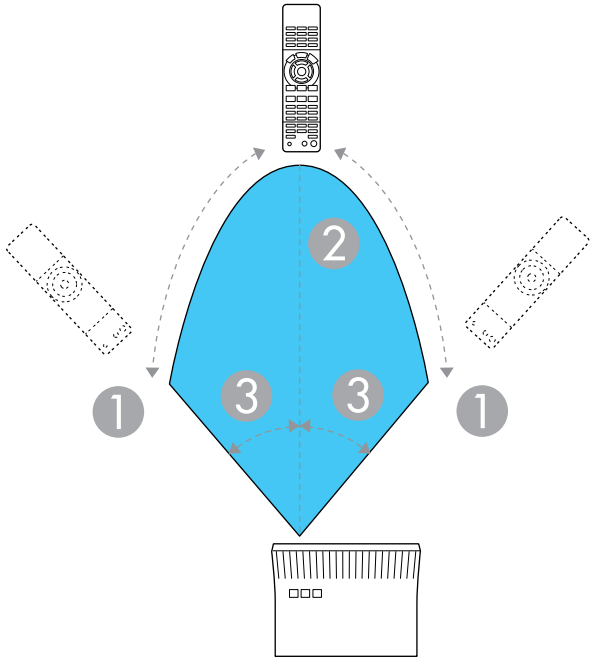


1 13 feet (4 m)

2 32 feet (10 m)

3 ± 40°

Horizontal



1	13 feet (4 m)
2	32 feet (10 m)
3	± 40°

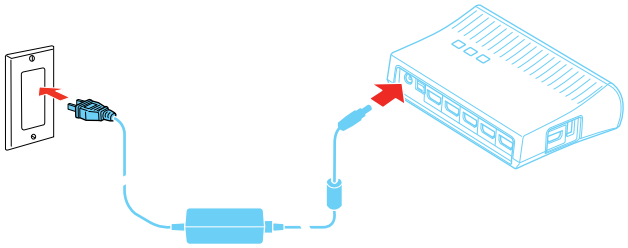
Note: Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you will not use the remote control for a long time, remove the batteries.

Parent topic: Using WirelessHD

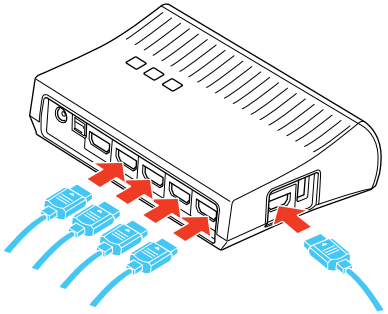
Connecting the WirelessHD Transmitter

You can connect up to five HDMI input sources and one HDMI output source to your WirelessHD transmitter.

1. Plug the AC adapter into the AC input port on the WirelessHD transmitter and into an electrical outlet.

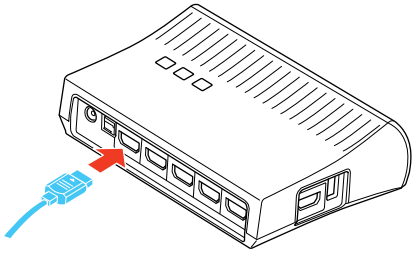


2. Connect HDMI cables to your video devices and to the HDMI input ports on the side and back of the WirelessHD transmitter.



Note: You can connect an MHL-compatible smartphone or tablet to the **HDMI 5 / MHL (IN)** port on the WirelessHD Transmitter.

3. To use the WirelessHD transmitter as a pass-through device to a television or other display, connect an HDMI cable to the display device and to the **HDMI (OUT)** port on the back of the transmitter.



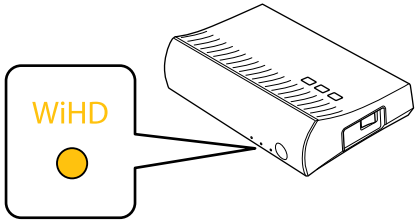
Parent topic: Using WirelessHD

Viewing WirelessHD Content

You can project content wirelessly from any device connected to the WirelessHD transmitter.

1. Turn on the video equipment or computer you connected to the transmitter and want to project from.
2. Press the power switch on the side of the transmitter to turn on the transmitter.
3. Turn on the projector.
4. Press the **WirelessHD** button on the remote control.

   The WiHD light on the transmitter lights up and your projector displays content wirelessly.



Note: If the WirelessHD connection fails, press the **Setup** button on the bottom of the WirelessHD transmitter and try again.

Parent topic: Using WirelessHD

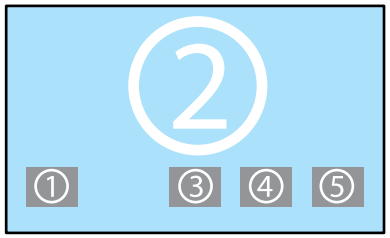
Switching WirelessHD Sources

If you have connected multiple HDMI input sources to your WirelessHD transmitter, you can use the projector remote control to switch between sources.

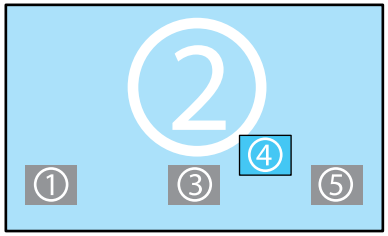
1. Aim the remote control at the WirelessHD transmitter.
2. Press the **Input** button on the remote control or the WirelessHD transmitter.



You see this screen:



3. Press the **Input** button repeatedly to highlight different input sources.



4. When you have highlighted the source you want to switch to, release the **Input** button.

After a few seconds, the display switches to the highlighted source.

Parent topic: Using WirelessHD

Using the WirelessHD Picture in Picture Feature

If you have connected multiple video sources to the WirelessHD transmitter, you can use the transmitter's Picture in Picture (P-in-P) feature to wirelessly project images from two separate sources at the same time. This feature is independent of any Picture-in-Picture capabilities of your projector.

1. Make sure that the WirelessHD source is selected.
2. Point the remote at the WirelessHD transmitter and press the **P-in-P** button in the WiHD Transmitter section of the remote control.
3. Do the following to control the P-in-P display:
   - Press the **Input** button on the remote control or the WirelessHD transmitter to change the video source displayed in the sub-screen. Keep pressing the button to cycle through the connected video devices.
   - Press the **Output** button on the remote control or the WirelessHD transmitter to change the position of the sub-screen. The screen moves counterclockwise from corner to corner each time you press the **Output** button.
   - Press and hold the **P-in-P** button on the remote control to switch the sources shown in the main display and the sub-screen.
4. When you are finished using Picture in Picture, press the WirelessHD **P-in-P** button on the remote control to resume normal projection.

Parent topic: Using WirelessHD

Adjusting the Menu Settings

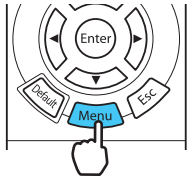
Follow the instructions in these sections to access the projector menu system and change projector settings.

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

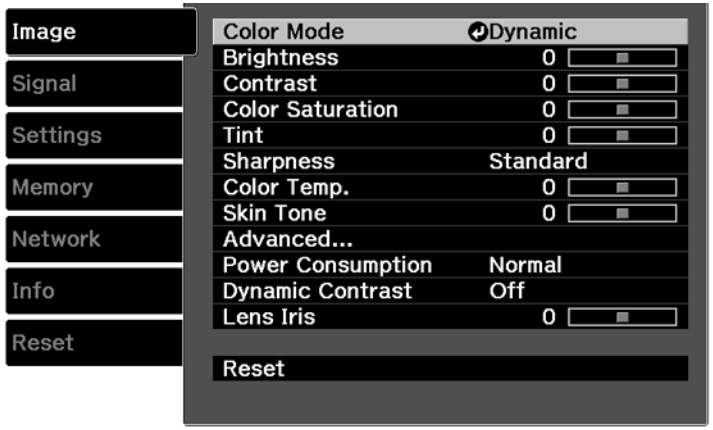
Using the Projector's Menus

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.

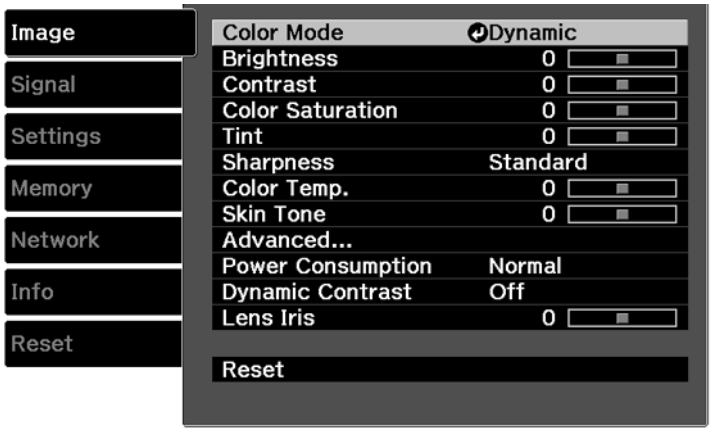
   Note: The available settings depend on the current input source.

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.



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

Setting	Options	Description
Color Mode	**Dynamic** **Living Room** **Natural** **THX** **Cinema** **Digital Cinema** (PowerLite Pro Cinema LS10000) **Adobe RGB** (PowerLite Pro Cinema LS10000) **3D Dynamic** **3D Cinema** **3D THX**	Adjusts the vividness of image colors for various image types and environments Not all Color Modes are available on all models.

Setting	Options	Description
Brightness	Varying levels available	Lightens or darkens the overall image
Contrast	Varying levels available	Adjusts the difference between light and dark areas of the image
Color Saturation	Varying levels available	Adjusts the intensity of the image colors.
Tint	Varying levels available	Adjusts the balance of green to magenta tones in the image.
Sharpness	**Standard**: Varying levels available **Advanced**: **Thin Line Enhancement** **Thick Line Enhancement** **Vert. Line Enhancement** **Horiz. Line Enhancement**	Adjusts the sharpness or softness of image details
Color Temp. (color temperature)	–3 to 6 (10 increments) or **5000K** to **10000K**	Sets the overall color tone; higher values tint the image blue and lower values tint the image red; for certain color modes, the settings change to **5000K** - **10000K**
Skin Tone	Varying levels available	Makes fine adjustments to the color tone; higher values tint the image green and lower values tint the image red

Setting	Options	Description
Advanced	**Gamma** **RGB** **RGBCMY** **EPSON Super White** **Color Gamut**	Selects various detailed color settings **Gamma**: adjusts the gamma levels of the image. Select **Customized** to adjust the gamma while viewing the image or a graph. **RGB**: adjusts the dark areas (Offset) and bright areas (Gain) of the image for each color **RGBCMY**: adjusts the hue, saturation, and brightness for each color **EPSON Super White**: reduces over-exposure of whites in your image; can be set only when Color Mode is set to certain color modes **Color Gamut**: selects the color gamut that matches the current video standard (**HDTV**, **EBU**, or **SMPTE-C**)
Power Consumption	**High** or **Extra Bright** **Medium** or **Normal** **ECO**	Selects the brightness mode of the projector **High**: sets maximum brightness **Medium**: sets reduced brightness **ECO**: reduces brightness and fan noise, and saves power and laser life If you set the Color Mode to **THX**, the options change to **Extra Bright**, **Normal**, and **ECO**.

Setting	Options	Description
Dynamic Contrast	**Off** **Normal** **High Speed**	Adjusts the luminance of the image to improve contrast by tracking changes in image brightness
Lens Iris	Varying levels available	Adjusts the contrast of the image by controlling the amount of light entering the lens

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

Parent topic: Adjusting the Menu Settings

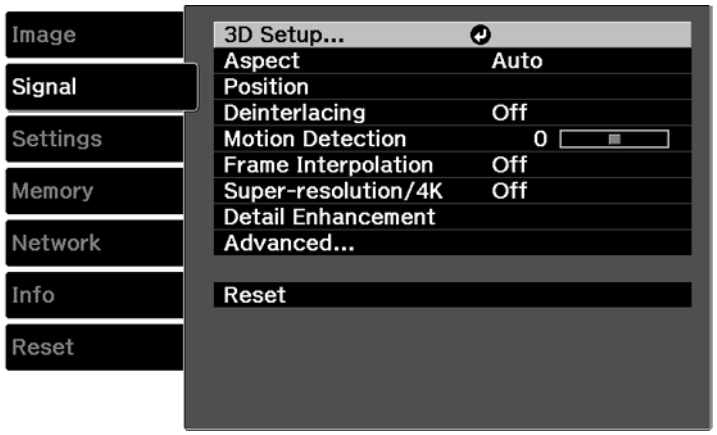
Related tasks

Changing the Color Mode

Adjusting the Lens Iris

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
3D Setup	**3D Display** **2D-to-3D Conversion** **3D Format** **3D Depth** **Diagonal Screen Size** **Inverse 3D Glasses** **3D Viewing Notice**	Selects various 3D options for 3D image sources **3D Display**: enables 3D mode **2D-to-3D Conversion**: converts 2D images to 3D **Note:** When using 2D-to-3D Conversion, set **3D Format** to **Auto** or **2D**. **3D Format**: selects the 3D format **3D Depth**: sets the depth for the 3D image **Diagonal Screen Size**: selects the actual size of the screen to maximize the 3D effect **Inverse 3D Glasses**: reverses the images projected for the left and right eyes (enable only if 3D images do not display correctly) **3D Viewing Notice**: enables the viewing notice displayed when using 3D mode
Aspect	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio) for the selected input source
Tracking	Varying levels available	Adjusts signal to eliminate vertical stripes in computer images from the PC input port

Setting	Options	Description
Sync.	Varying levels available	Adjusts signal to eliminate fuzziness or flickering in computer images; for best results, adjust the **Tracking** setting before adjusting the **Sync** setting to improve the accuracy of the adjustments.
Position	Up, down, left, right	Adjusts the image location on the screen
Deinterlacing	**Off** **Video** **Film/Auto**	Sets whether to convert interlaced-to-progressive signals for certain video image types **Off**: for fast-moving video images **Video**: for most video images **Film/Auto**: for movies, computer graphics, and animation
Motion Detection	**1** to **5**	Selects how the image is converted to a progressive signal; if you experience problems with still image quality or flickering video, select a lower setting for still images or a higher setting for fast-moving video content.)
Frame Interpolation	**Off** **Low** **Normal** **High**	Smooths fast moving video by comparing consecutive frames and inserting an intermediate frame between them
Super-resolution (PowerLite Pro Cinema LS9600e)	**0** to **5**	Sharpens blurred images resulting from increasing resolution

Setting	Options	Description
Super-resolution/4K (PowerLite Pro Cinema LS10000)	**Off** **1** to **5** **4K-1** to **4K-5**	Sharpens blurred images resulting from increasing resolution Super-resolution (**1** to **5**); reduces blurring when the image resolution is increased to 1920 × 1080 4K Enhancement (**4K-1** to **4K-5**); projects 4K images (3840 × 2160), employing super-resolution processing to create ultra-high-definition video images Cannot be set when a 4K or computer image is selected
Detail Enhancement	**Range** **Strength**	Enhances details to create clear outlines; **Range**: higher settings increase the affected area around the outline **Strength**: higher settings create a stronger effect
Auto Setup	**On** **Off**	Automatically optimizes computer image quality

Setting	Options	Description
Advanced	**Noise Reduction** **Setup Level** **Overscan** **HDMI Video Range** **Image Processing**	**Noise Reduction**: reduces flickering in analog images in three levels **Setup Level**: adjusts the level at which dark areas of the image are rendered black; leave this setting at 0% for most video equipment; check your video equipment specifications to verify the correct setting **Overscan**: changes the projected image ratio to make the edges visible by a selectable percentage or automatically **HDMI Video Range**: sets the video range to match the setting of the device connected to the HDMI input port **Image Processing**: adjusts how images are processed; select **Fast** to display images quicker; select **Fine** to display images in higher quality

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

Related concepts

Image Aspect Ratio

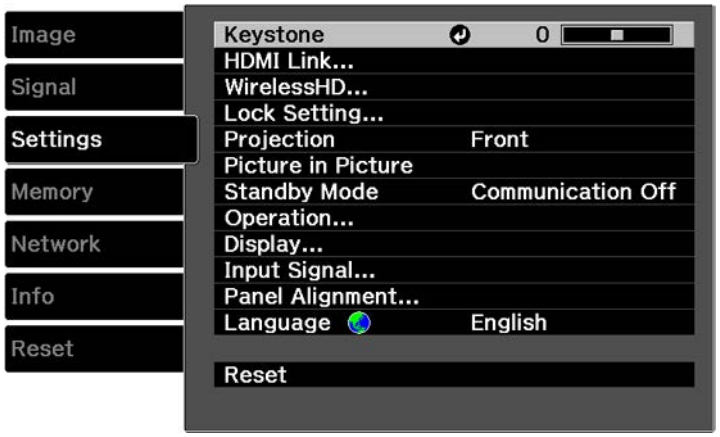
Related tasks

Changing the Super-resolution Setting

Changing the Super-resolution/4K Enhancement Setting

Projector Feature Settings - Settings Menu

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



Setting	Options	Description
Keystone	Varying levels available	Adjusts vertical image shape to rectangular

Setting	Options	Description
HDMI Link	**Device Connections** **HDMI Link** **Power On Link** **Power Off Link**	Adjusts the HDMI Link options that allow the projector remote to control HDMI-connected devices that support the CEC standard **Device Connections**: lists the devices connected to the **HDMI1** and **HDMI2** ports **HDMI Link**: enables or disables the HDMI Link function **Power On Link**: controls what happens when you turn on the projector or a linked device • **PJ -> Device** or **Bidirectional**: turns on the linked device when the projector is turned on • **Device -> PJ** or **Bidirectional**: turns on the projector when the linked device is turned on **Power Off Link**: controls whether linked devices are turned off when the projector is turned off

Setting	Options	Description
WirelessHD (PowerLite Pro Cinema LS9600e)	**Device Connections** **WirelessHD** **Reception** **WiHD Mode**	**Device Connections**: displays a list of available WirelessHD devices **WirelessHD**: controls whether the projector receives WirelessHD signals **Reception**: displays the strength of the WirelessHD signal **WiHD Mode**: adjusts the WirelessHD signal strength and range • **Full**: uses the maximum video bandwidth at all times • **Dynamic**: provides extended signal range while adjusting the video bandwidth in real time; if your WirelessHD signal is weak, try changing the WiHD Mode to **Dynamic**
Lock Setting	**Lens Lock** **Child Lock** **Control Panel Lock**	Controls projector button locking to secure the projector **Lens Lock**: locks the focus, zoom, and lens shift settings **Child Lock**: locks the power button **Control Panel Lock**: locks all buttons except the power button
Projection	**Front** **Front/Ceiling** **Rear** **Rear/Ceiling**	Selects the way the projector faces the screen so the image is oriented correctly

Setting	Options	Description
User Button (PowerLite Pro Cinema LS10000)	**2D-to-3D Conversion** **3D Depth** **Inverse 3D Glasses** **Power Consumption** **Detail Enhancement** **Info**	Assigns a menu option to the **User** button on the remote control for one-touch access
Picture in Picture	See the list of available Picture in Picture options	Adjusts the size and location of the sub-screen, swaps sources and exits Picture in Picture mode

Setting	Options	Description
Operation	**Direct Power On** **Sleep Mode** **Illumination** **Trigger Out** **High Altitude Mode** **Lens Adjustment Mode**	Selects various operation options **Direct Power On**: lets you turn on the projector without pressing the power button **Sleep Mode**: automatically places the projector in standby mode after an interval of inactivity **Illumination**: turns off the lights on the projector **Trigger Out**: outputs a DC 12V signal from the 3.5 mm mini-jack **Trigger Out 1** and **Trigger Out 2** ports whenever the projector is turned on; the **Anamorphic Wide** option outputs voltage to both Trigger Out ports when **Aspect** is set to **Anamorphic Wide** or **Horiz. Squeeze** **High Altitude Mode**: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m) **Lens Adjustment Mode**: adjusts the amount of lens movement for the focus, zoom, and lens shift adjustments when pressing the arrow buttons; lower numbers reduce the amount of movement, and higher numbers increase the amount of movement per button press

Setting	Options	Description
Display	**Menu Position** **Menu Color** **Messages** **Display Background** **Startup Screen** **Standby Confirmation**	Selects various display options **Menu Position**: adjusts the location where the menu is displayed **Menu Color**: selects the color of the menu **Messages**: controls whether messages are displayed on the screen **Display Background**: selects the screen color or logo to display when no signal is received **Startup Screen**: controls whether a special screen appears when the projector starts up **Standby Confirmation**: displays a confirmation message after pressing the **Standby** button on the remote control
Input Signal	**Video Signal** **Component**	Selects the input signals for certain ports **Video Signal**: specifies the signal type from input sources connected to the **Video** port or select **Auto** to detect the signal automatically **Component**: specifies the signal type from input sources connected to the **Component** port or select **Auto** to detect the signal automatically

Setting	Options	Description
Panel Alignment	**Panel Alignment** **Select Color** **Pattern Color** **Start Adjustments**	Corrects color misalignment in the projected image **Panel Alignment**: enables adjustments for color convergence (the alignment of the red and blue colors in the projected image) **Select Color**: specifies the color convergence to correct **Pattern Color**: specifies the color pattern used during panel alignment **Start Adjustments**: starts the Panel Alignment feature
Language	Various languages available	Selects the language for projector menu and message displays (not changed by **Reset** option)

Note: The Reset setting does not reset the following settings: **Power On Link**, **Power Off Link**, **Projection**, **User Button**, **Standby Mode**, **High Altitude Mode**, **Component**, or **Language**.

Parent topic: Adjusting the Menu Settings

Related concepts

Projector Placement

Related tasks

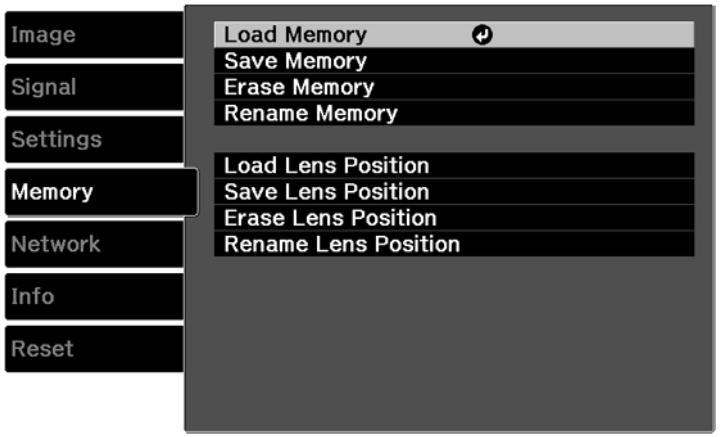
Adjusting Keystone with the Control Panel
Locking the Projector's Buttons
Using Picture in Picture

Related topics

Using WirelessHD

Projector Memory Options - Memory Menu

Your projector comes with 10 memory locations where you can save customized settings to obtain the best picture quality for each of your video inputs.



Setting	Description
Load Memory	Displays the list of customized settings entries that you have created; select an entry and press **Enter** on the remote control to load it
Save Memory	Saves the current projector settings to the projector's memory
Erase Memory	Displays the list of customized settings entries that you have created; select an entry and press **Enter** on the remote control to erase it
Rename Memory	Displays the list of customized settings entries that you have created; select an entry and press **Enter** on the remote control to rename it
Load Lens Position	Loads lens adjustment values saved with the **Save Lens Position** setting
Save Lens Position	Saves the focus, zoom, and lens shift adjustments as a lens position entry
Erase Lens Position	Deletes the saved lens position entry

Setting	Description
Rename Lens Position	Renames a saved lens position entry

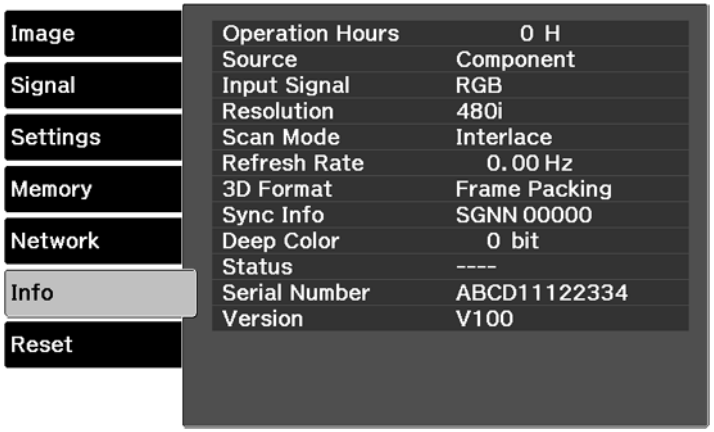
Parent topic: Adjusting the Menu Settings

Related tasks

Saving Settings to Memory and Using Saved Settings

Projector Information Display - Info Menu

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



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

Information item	Description
Operation Hours	Displays the number of hours (**H**) the laser has been used
Source	Displays the name of the port to which the current input source is connected
Input Signal	Displays the input signal setting of the current input source
Resolution	Displays the resolution of the current input source

Information item	Description
Scan Mode	Displays the scan mode
Refresh Rate	Displays the refresh rate of the current input source
3D Format	Displays the 3D format of the signal (Frame Packing, Side-by-Side, or Top and Bottom)
Sync Info	Displays information that may be needed by a service technician
Deep Color	Displays Deep Color bit depth information
Video Signal	Displays the video signal format of the current input source
Status	Displays information about projector problems that may be needed by a service technician
Serial Number	Displays the projector's serial number
Version	Displays the projector's firmware version

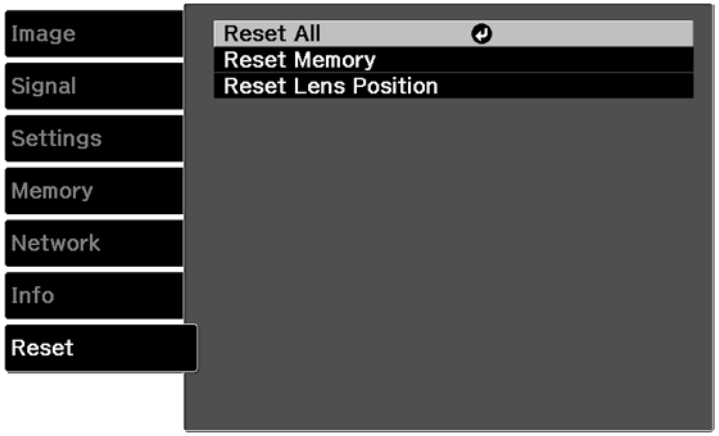
Parent topic: Adjusting the Menu Settings

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 all memory entries using the **Reset Memory** option.

You can erase all saved lens position entries using the **Reset Lens Position** option.



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

- **Input Signal - Component**
- **Panel Alignment**
- **Language**
- Memory settings
- Saved lens position settings
- **Operation Hours**

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

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

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

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

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

Parent topic: Maintaining and Transporting the Projector

Cleaning the Lens

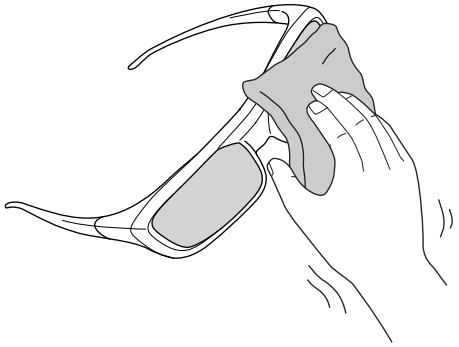
Do not touch the projector lens. If the lens needs to be cleaned, contact Epson support.

Parent topic: Projector Maintenance

Cleaning the 3D Glasses

To remove dust, dirt, smudges, or fingerprints from the glasses, use a 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 laser.

Damage due to the failure to properly maintain the projector or its filter may not be covered by the projector's Limited Warranty.

Cleaning the Air Filter
Replacing the Air Filter

Parent topic: Projector Maintenance

Related references

Projector Light Status

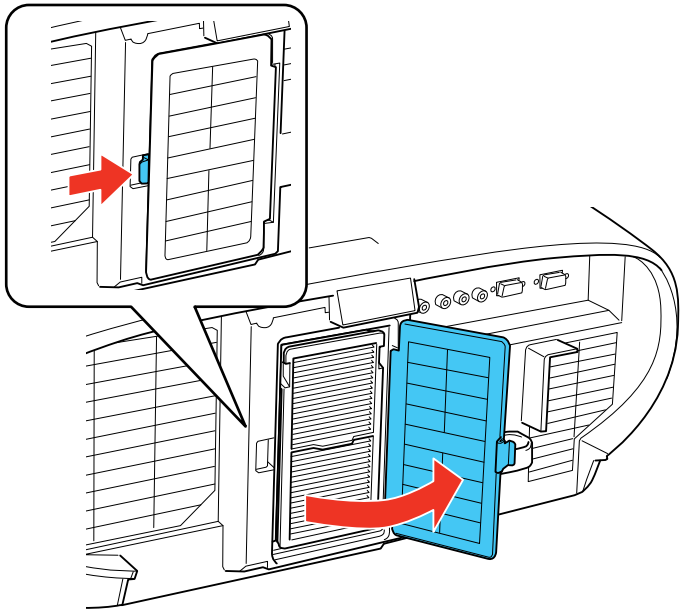
Cleaning the Air Filter

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

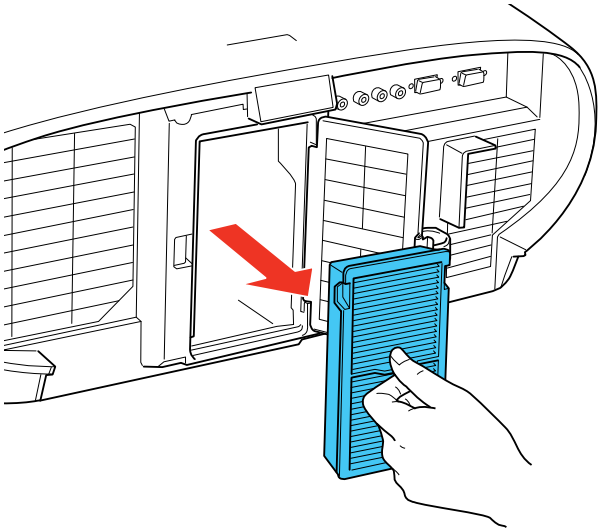
- The filter or vents get dusty.
- You see a message telling you to clean it.

1. Turn off the projector and unplug the power cord.
2. Remove the cable cover if it is attached.

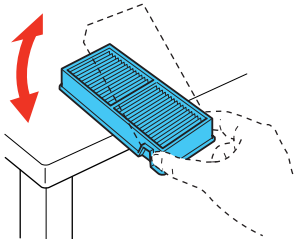
3. Press and hold the tab on the air filter cover, and pull to open the cover.



4. Pull the air filter out of the projector.

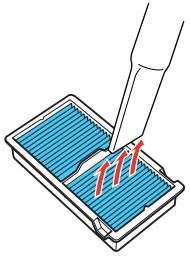


5. Tap each side of the air filter 4 to 5 times to shake off any excess dust.



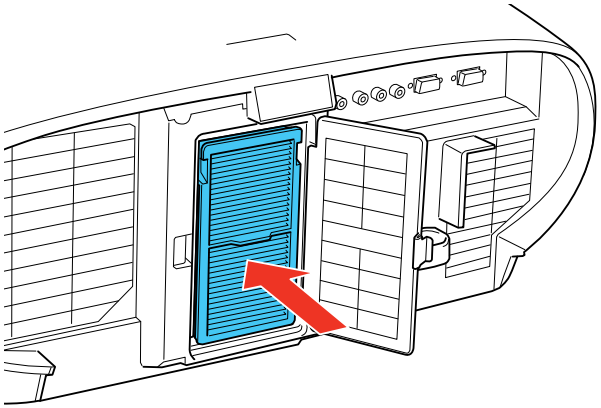
Caution: Do not use excessive force when tapping the air filter, or it may crack and become unusable. Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not use canned air; the gases may leave a residue, or push dust and debris into the projector's optics or other sensitive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

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

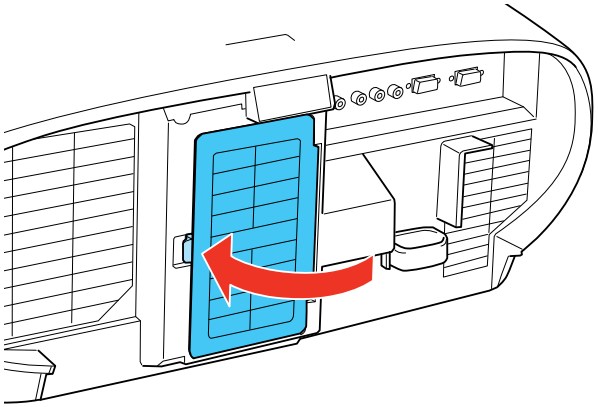


Note: If dust is difficult to remove or the air filter is damaged, replace the air filter.

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



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



9. Replace the cable cover if necessary.

Parent topic: Air Filter and Vent Maintenance

Replacing the Air Filter

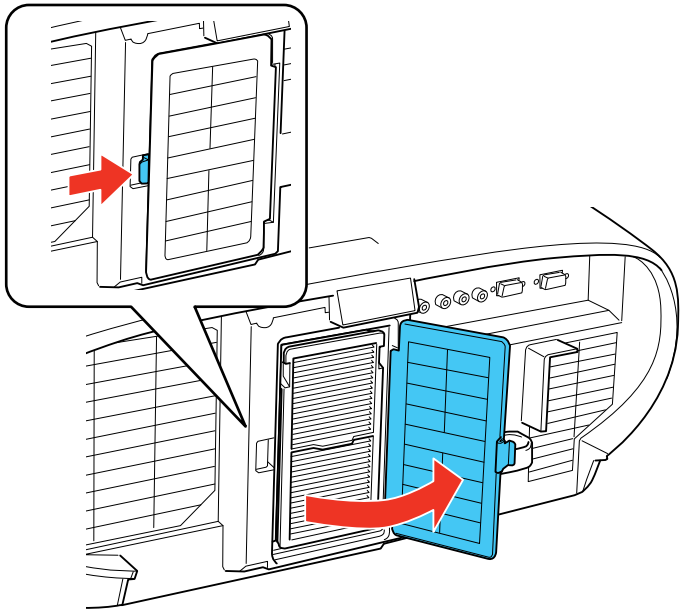
You need to replace the air filter in the following situations:

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

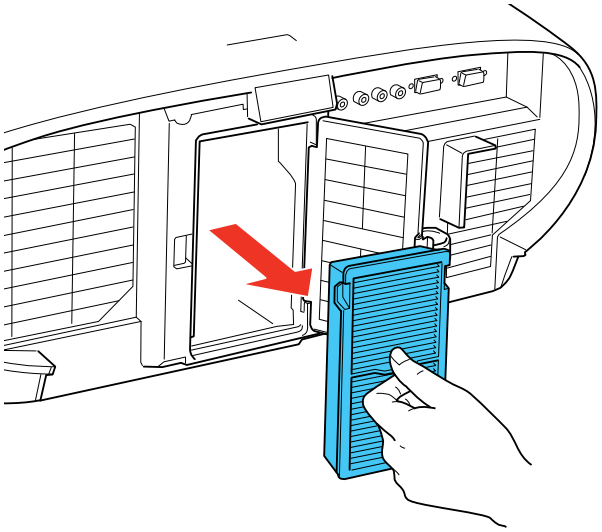
You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

1. Turn off the projector and unplug the power cord.
2. Remove the cable cover, if necessary.

3. Press and hold the tab on the air filter cover, and pull to open the cover.

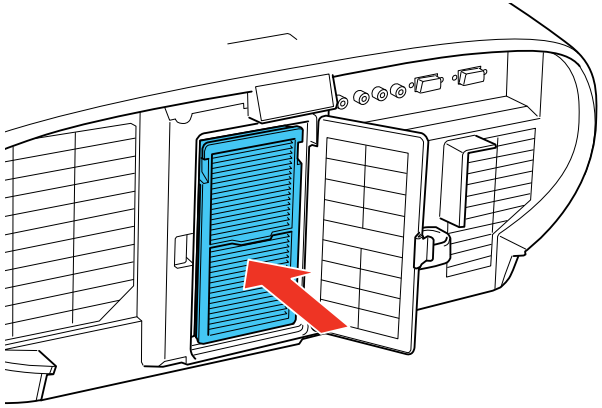


4. Pull the air filter out of the projector.

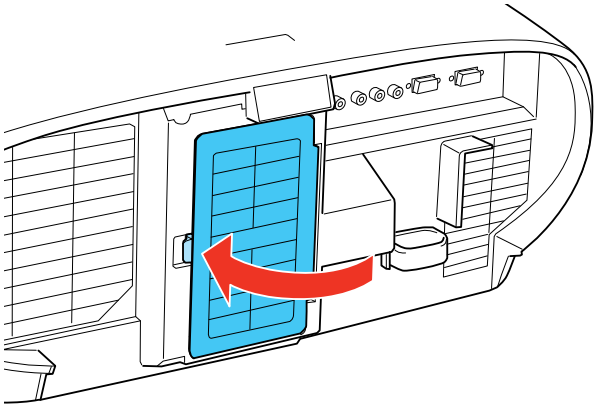


Note: Air filters contain polypropylene. Dispose of used air filters according to local regulations.

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



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



7. Replace the cable cover, if necessary.

Parent topic: Air Filter and Vent Maintenance

Related references

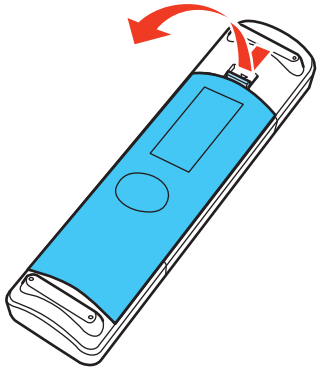
Optional Equipment and Replacement Parts

Replacing the Remote Control Batteries

The remote control uses two AA manganese or alkaline batteries. Replace the batteries as soon as they run out.

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

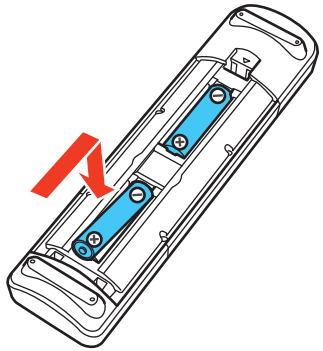
1. Remove the battery cover as shown.



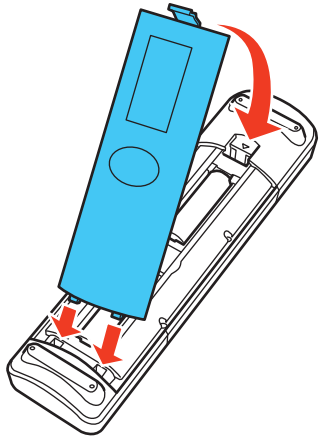
2. Remove the old batteries.

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

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



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



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

Parent topic: Projector Maintenance

Transporting the Projector

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

- 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

Solving Problems

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

Projection Problem Tips
Projector Light Status
Solving Image 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:

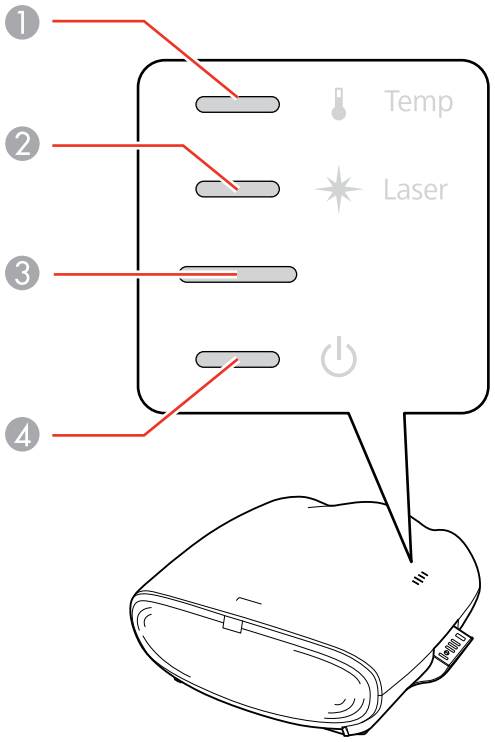
- The lights on the projector may indicate what the problem is.
- The solutions in this manual can help you solve many problems.

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

Parent topic: Solving Problems

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 **Temp** light
2 **Laser** light
3 Status light
4 Power light

Power light	Status light	Laser light	Temp light	Status and solution
Blue	Blue	Off	Off	Normal operation or standby (with **Communication On**)

Power light	Status light	Laser light	Temp light	Status and solution
Blue	Flashing blue	Off	Off	Warming up; wait for an image to appear or Shutting down; when the Status light stops flashing, you can unplug the projector
Off	Off	Off	Off	Standby or sleep mode
Blue	Off	Off	Off	Standby (with **Communication On**) or WirelessHD standby (PowerLite Pro Cinema LS9600e)
Flashing blue	Varies	Varies	Flashing orange	Projector is too hot • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • Make sure the environmental temperature is not too hot
Off	Flashing blue	Off	Orange	Projector has overheated and turned off; leave it turned off until it cools down, then do the following: • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • If the problem persists, unplug the projector and contact Epson for help

Power light	Status light	Laser light	Temp light	Status and solution
Off	Flashing blue	Orange	Off	Laser has a problem or failed to turn on • Clean or replace the air filter • If operating the projector at high altitude, turn on **High Altitude Mode** • If the problem persists, unplug the projector and contact Epson for help
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	Cinema filter, static iris, or lens shutter error; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Orange	Orange	Laser driver error; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Flashing orange	Off	Internal projector error; turn the projector off, unplug it, and contact Epson for help
Flashing blue	Flashing blue	Flashing orange	Flashing orange	Fatal error; turn the projector off, unplug it, and contact Epson for help

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

Parent topic: Solving Problems

Related tasks

Cleaning the Air Filter
Replacing the Air Filter

Solving Image Problems

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

Solutions When No Image Appears
Solutions When "No Signal" Message Appears
Solutions When "Not Supported" Message Appears
Solutions When Only a Partial Image Appears
Solutions When the Image is Not Rectangular
Solutions When the Image Contains Noise or Static
Solutions When the Image is Fuzzy or Blurry
Solutions When the Image Brightness or Colors are Incorrect
Solutions to Panel Alignment Problems
Solutions When a 3D Image Does Not Display Correctly
Solutions When a WirelessHD Source Does Not Display Correctly

Parent topic: Solving Problems

Related references

Projector Light Status

Solutions When No Image Appears

If no image appears, try the following solutions:

- Press the **Blank** 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.
- 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.
- 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 Problems

Related references

Input Signal Settings - Signal 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 Problems

Related tasks

Selecting an Image Source

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

Parent topic: Solving Image Problems

Related references

Projector Feature Settings - Settings Menu

Solutions When Only a Partial Image Appears

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

- Press the **Aspect** button on the remote control to select a different image aspect ratio.
- Check the cables connecting the computer or video source to the projector. Try connecting different cables.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)

Parent topic: Solving Image Problems

Related tasks

Changing the Image Aspect Ratio

Solutions When the Image is Not Rectangular

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

- Place the projector directly in front of the center of the screen, facing it squarely, if possible.
- Adjust the image shape using the **Keystone** menu setting.

Parent topic: Solving Image Problems

Related tasks

Adjusting Keystone with the Control Panel

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.

Parent topic: Solving Image Problems

Related references

Input Signal Settings - Signal Menu

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.
- Check the lens for condensation.

  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, and directly in front of it.
- If you are projecting from a computer, use a lower resolution.
- Turn off any keystone correction and disable the **Quick Corner** setting.

Parent topic: Solving Image Problems

Related references

Image Quality Settings - Image Menu

Related tasks

Focusing the Image with the Lens Button

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 **High** in the projector's menus.
- Position the projector close enough to the screen.

Parent topic: Solving Image Problems

Related references

Image Quality Settings - Image Menu

Projector Feature Settings - Settings Menu

Related tasks

Changing the Color Mode

Solutions to Panel Alignment Problems

If the panel alignment does not result in a satisfactory picture, try the following solutions:

- Make sure the **Projection** setting matches the installation position.
- Make sure the projection surface is not colored or textured. Project on a white surface with no texture.
- Leave the projector on for a while before making adjustments to the panel alignment.
- The projected image size should be at least 60 inches (152 cm).
- If the image contains too much magenta, adjust the red and blue panels.
- If the pattern lines look fuzzy or out of focus, adjust the focus before shifting the panel alignment.

Parent topic: Solving Image Problems

Related tasks

Focusing the Image with the Lens Button

Changing the Projection Mode Using the Menus

Adjusting the Color Convergence (Panel Alignment)

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.
- 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 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.

Parent topic: Solving Image Problems

Related references

Input Signal Settings - Signal Menu

Related tasks

Viewing 3D Images

Solutions When a WirelessHD Source Does Not Display Correctly

If a WirelessHD source does not display correctly, try the following solutions:

- Make sure WirelessHD is selected as the image source on the projector.
- Open the WirelessHD reception monitor in the Settings menu and check the strength of the WirelessHD signal. If the signal is weak, you may need to move the transmitter closer to the projector or remove any large objects located between the transmitter and the projector.
- Make sure that your projector is connected to the correct WirelessHD device. It can take up to 30 seconds for a signal to sync and appear after connecting.
- You may need to reset the WirelessHD connection. Turn off both the WirelessHD transmitter and the projector. Start playback on your video device, then turn on the WirelessHD transmitter and the projector. Wait 10 seconds, then press the **Setup** button on the bottom of the transmitter.
- Make sure the WirelessHD transmitter is within 32 feet (10 m) of the projector, isn't obstructed by any large objects, and is not placed on a metal surface.
- If the green and orange lights on the transmitter are flashing, the unit may be overheating. Make sure the vents on the back of the transmitter are not blocked and that the room temperature does not exceed 95 °F (35 °C).
- If you are viewing wireless content, make sure that the WiHD light on the transmitter is on. If it is off, press the **Output** button on the remote control or transmitter.

Parent topic: Solving Image Problems

Solving Projector or Remote Control Operation Problems

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

Solutions to Projector Power or Shut-Off Problems

Solutions to 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 laser shuts off unexpectedly, it may have entered standby mode after a period of inactivity. Press the power button to wake the projector.
- If the projector's laser shuts off, the Status light is flashing blue, and the Temp light is orange, the projector has overheated and shut off. Check the solutions for this light status.
- If the power button on the remote control does not turn on the 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 enabled.
- The power cord may be defective. Disconnect the cord and contact Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Feature Settings - Settings Menu

Projector Light Status

Related tasks

Unlocking the Projector's Buttons

Solutions to Problems with the Remote Control

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

- Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.

- Make sure you are operating the remote control within the reception angle and range of the projector.
- Make sure the projector is not warming up or shutting down.
- Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.
- Strong fluorescent lighting, direct sunlight, or infrared device signals may be interfering with the projector's remote receivers. Dim the lights or move the projector away from the sun or interfering equipment.
- If available, turn off one of the remote receivers in the projector's menu system, or check if all the remote receivers were turned off.
- If you assigned an ID number to the remote control to operate multiple projectors, you may need to check or change the ID setting (feature not available with all projectors).
- If you lose the remote control, you can order another one from Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Remote Control Operation

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.

Solutions When Network Alert E-Mails are Not Received

Solutions When You Cannot Access the Projector Through the Web

Parent topic: Solving Problems

Solutions When Network Alert E-Mails are Not Received

If you do not receive an e-mail alerting you to problems with a projector over the network, try the following solutions:

- Make sure the projector is turned on and connected to the network correctly. (If an error shut down the projector, it cannot send an e-mail.)
- Make sure you set up the projector e-mail alert settings correctly on the projector's network Mail menu or in the network software.

Parent topic: Solving Network Problems

Related tasks

Setting Up Projector Network E-Mail Alerts

Solutions When You Cannot Access the Projector Through the Web

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

- For the user ID, enter **EPSONWEB**. (You cannot change the user ID.)
- For the password, enter the password set in the projector's Network menu. The default password is **admin**.
- Make sure you have access to the network the projector is on.

Note: The user ID and password are case sensitive.

Parent topic: Solving Network Problems

Where to Get Help

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

Internet Support

Visit Epson's support website at epson.com/support (U.S.) or 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 (U.S. sales) or 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

Technical Specifications

These sections list the technical specifications of your projector.

General Projector Specifications
Projector Light Source Specifications
Remote Control Specifications
Projector Dimension Specifications
Projector Electrical Specifications
Projector Environmental Specifications
Projector Safety and Approvals Specifications
Supported Video Display Formats

General Projector Specifications

Type of display	Poly-silicon TFT active matrix
Resolution	1920 × 1080 pixels (1080p)
Lens	F=2.5 to 3.7
	Focal length: 21.3 to 44.7 mm
Color reproduction	Full color, up to 1 billion colors
Brightness	**PowerLite Pro Cinema LS9600e**:
	High Power Consumption mode:
	White light output 1300 lumens (ISO 21118 standard)
	Color light output 1300 lumens
	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.

	PowerLite Pro Cinema LS10000: High Power Consumption mode: White light output 1500 lumens (ISO 21118 standard) Color light output 1500 lumens **Note:** Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118.
Contrast ratio	Infinite with the following settings: Color Mode, Dynamic; Power Consumption, High; Zoom, Wide; and Lens Shift set with the image horizontally centered and vertically adjusted upwards by one half of the image height.
Image size (in native aspect ratio)	30 inches (0.76 m) to 300 inches (7.62 m)
Projection distance (in native aspect ratio)	32.7 inches (0.83 m) to 716.1 inches (18.2 m)
Projection methods	Front, rear, ceiling-mounted
Optical aspect ratio (width-to-height)	16:9
Focus adjustment	Powered
Zoom adjustment	Powered
Zoom ratio (Tele-to-Wide)	1 to 2.1
Noise level	19 dB (with 4K Enhancement off on PowerLite Pro Cinema LS10000)
Keystone correction angle	± 30° vertical

Parent topic: Technical Specifications

Projector Light Source Specifications

Type	Laser Diode **PowerLite Pro Cinema LS9600e**: Output: 33.7 mW Repetition rate: 0 to 100% **PowerLite Pro Cinema LS10000**: Output: 41.9 mW Repetition rate: 0 to 100%
Life	High Power Consumption mode: Up to about 17000 hours ECO Power Consumption mode: Up to about 30000 hours

Parent topic: Technical Specifications

Remote Control Specifications

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

Parent topic: Technical Specifications

Projector Dimension Specifications

Height (excluding feet)	8.9 inches (225 mm)
Width	21.7 inches (550 mm)
Depth	21.8 inches (553 mm)

Weight	**PowerLite Pro Cinema LS9600e**: 37.5 lb (17 kg) **PowerLite Pro Cinema LS10000**: 39.7 lb (18 kg)

Parent topic: Technical Specifications

Projector Electrical Specifications

Rated frequency	50/60 Hz
Power supply	100 to 240 VAC ±10% **PowerLite Pro Cinema LS9600e**: 3.5 to 1.6 A **PowerLite Pro Cinema LS10000**: 4.6 to 2.1 A
Power consumption (100 to 120 V)	Operating: **PowerLite Pro Cinema LS9600e**: High Power Consumption mode: 345 W ECO Power Consumption mode: 218 W **PowerLite Pro Cinema LS10000**: High Power Consumption mode: 459 W ECO Power Consumption mode: 267 W Standby: 0.29 W (Communication Off), 2.8 W (Communication On)

Power consumption (220 to 240 V)	Operating: **PowerLite Pro Cinema LS9600e**: Normal Power Consumption mode: 334 W ECO Power Consumption mode: 215 W **PowerLite Pro Cinema LS10000**: Normal Power Consumption mode: 442 W ECO Power Consumption mode: 262 W Standby: 0.38 W (Communication Off), 3.3 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) 4921 feet (1500 m) 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)

Canada	ICES-003 Class B CSA C22.2 No. 60950-1-07 (cTUVus Mark)

Parent topic: Technical Specifications

Supported Video Display Formats

For best results, your computer's monitor port or video card resolution should be set to display in the projector's native resolution. However, your projector includes Epson's SizeWise chip that supports other computer display resolutions, so your image will be resized to fit automatically.

Your computer's monitor port or video card refresh rate (vertical frequency) must be compatible with the projector. (See your computer or video card manual for details.)

The table here lists the compatible refresh rate and resolution for each compatible video display format.

Display format	Refresh rate (in Hz)	Resolution (in pixels)
Computer signals (analog RGB)		
VGA	60/72/75/85	640 × 480
SVGA	56/60/72/75/85	800 × 600
XGA	60/70/75/85	1024 × 768
SXGA	70/75/85	1152 × 864
	60/75/85	1280 × 960
	60/75/85	1280 × 1024
WXGA	60	1280 × 768
	60	1366 × 768
	60/75/85	1280 × 800
WXGA++	60	1600 × 900
Composite video		
TV (NTSC)	60	720 × 480
TV (PAL)	50/60	720 × 576
TV (SECAM)	50	720 × 576
Component video		

Display format	Refresh rate (in Hz)	Resolution (in pixels)
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
SDTV (480p)	60	720 × 480
SDTV (576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	50/60	1920 × 1080
HDMI input signals		
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)	24/30/50/60	1920 × 1080
4K × 2K (PowerLite Pro Cinema LS10000)	24/25/30/50/60	3840 × 2160
	50/60	4096 × 2160
4K × 2K (SMPTE; PowerLite Pro Cinema LS10000)	24	4096 × 2160
MHL input signals		
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
WirelessHD input signals		
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	1920 × 1080
MHL input signals via WirelessHD Transmitter (HDMI5 port only)		
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)*	24/50/60	1920 × 1080

* With WirelessHD, these signals do not support Deep Color:

- 2D: 1080p 50/60 Hz
- 3D: 1080p 24 Hz frame packing, 720p 50/60 Hz frame packing, and 1080p 50/60 Hz side by side

3D Input Signals

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

3D Input Signals via WirelessHD Transmitter (HDMI5 port only)

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

Parent topic: Technical Specifications

Notices

Check these sections for important notices about your projector.

Recycling
Important Safety Information
Laser Safety Information
Important Safety Instructions
FCC Compliance Statement
Trademarks
Open Source Software License
Copyright Notice

Recycling

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

Parent topic: Notices

Important Safety Information

Caution: Never look into the projector lens when the laser is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on. Never open any cover on the projector, except the filter covers. Dangerous electrical voltages inside the projector can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

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

Parent topic: Notices

Laser Safety Information

This projector is a Class 2 laser product that complies with the IEC60825-1 international standard for lasers. Follow these safety instructions when using the projector.

- If an error occurs in the projector, turn off the power and unplug the projector immediately. Continuing to use the projector could result in an electric shock, fire, or visual impairment. Contact Epson support.
- Do not attempt to dissassemble or modify the projector. The projector contains a high-power laser component. Serious injury could result.
- Do not look into the lens during projection. Also, do not look into the lens using optical devices, such as a magnifying glass or telescope. This could cause visual impairment.
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- Do not allow small children to operate the projector. Children must be accompanied by an adult.
- Do not apply optical devices, such as a magnifying glass or reflector, to the projected image. Using the projector may result in physical harm, fire, or an accident.
- Before using the projector, make sure there is nothing in the area that could reflect the projected image.
- When disposing of the projector, do not disassemble it. Dispose of the projector in accordance with your local or national laws and regulations.

There is a label attached to the projector to indicate it is a Class 2 product. The label contains the following information:

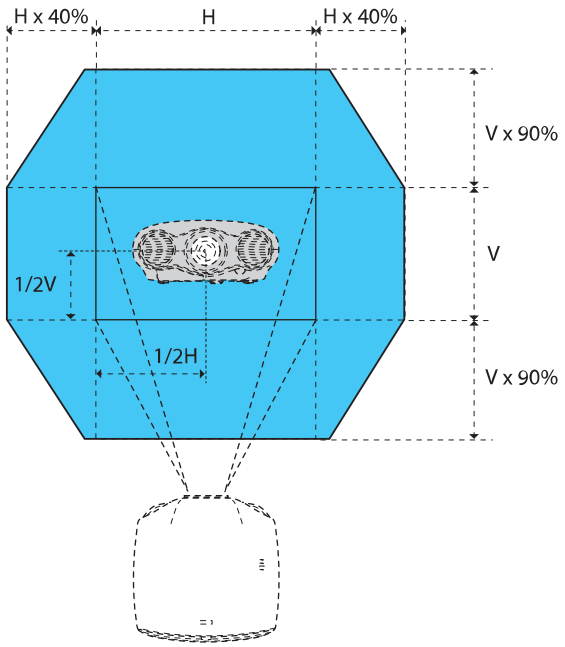
- Invisible laser radiation
- Do not stare into beam or view directly with optical instruments
- Class 2 laser product
- Pulse width

Laser Optical Path

Parent topic: Notices

Laser Optical Path

When using the Lens Shift function, the laser light from the projection lens is diffused within the following range:



When Lens Shift is at the maximum vertical position: 32° from the center of the lens

When Lens Shift is at the maximum horizontal position: 34° from the center of the lens

Parent topic: Laser Safety Information

Important Safety Instructions

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

- Do not look into the lens when the projector is on. The bright light can damage your eyes. Avoid standing in front of the projector so the bright light does not shine into your eyes.
- Do not place the projector on an unstable cart, stand, or table.
- Do not operate the projector on its side, or while tilted to one side. Do not tilt the projector more than 3° forward or back.

- If the projector is mounted on a ceiling or wall, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- When installing or adjusting a ceiling or wall mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the projector case to crack and the projector to fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector.
- Do not use the projector near water, sources of heat, high-voltage electrical wires, or sources of magnetic fields.
- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into a dusty outlet. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Do not overload wall outlets, extension cords, or power strips. Failure to comply with these precautions could result in fire or electric shock.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the projector from the wall outlet before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners, any sprays containing flammable gas, or solvents such as alcohol, paint thinner, or benzine.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers. Do not cover the projector with a blanket, curtain, or tablecloth. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the air exhaust vent.
- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
- Never allow objects of any kind to enter any openings in the projector. Do not leave objects, especially flammable objects, near the projector. Never spill liquid of any kind into the projector.
- If you are using two or more projectors side-by-side, leave at least 20 inches (50 cm) of space between the projectors to allow for proper ventilation.
- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector. Do not use canned air, or the gases may leave a residue.
- Do not store the projector outdoors for an extended length of time.

- Except as specifically explained in this manual, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Never open any covers on the projector except as specifically explained in this manual. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: if it does not operate normally when you follow the operating instructions, or exhibits a distinct change in performance; if smoke, strange odors, or strange noises come from the projector; if the power cord or plug is damaged or frayed; if liquid or foreign objects get inside the projector, or if it has been exposed to rain or water; if it has been dropped or the housing has been damaged.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Unplug the projector when it will not be used for extended periods.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Do not use or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.
- Do not use the projector where flammable or explosive gases may be present.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range of 41 to 95 °F (5 to 35 °C) at an altitude of 7500 feet (2286 m) or less, or 41 to 86 °F (5 to 30 °C) at a higher altitude. Doing so may cause an unstable display and could lead to projector damage. Do not use or store the projector where it may be exposed to sudden changes in temperature.
- Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress. Do not bring your face close to the projector while it is in use.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.

- Do not block the lens during projection using a book or any other object. This could damage the projector or cause a fire.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.

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.)

Restriction of Use

Parent topic: Notices

Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive; disaster prevention devices; various safety devices; or functional/precision devices, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability.

Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care, please make your own judgment on this product's suitability after a full evaluation.

Parent topic: Important Safety Instructions

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)

Wireless Telegraphy Act Regulations

Parent topic: Notices

Wireless Telegraphy Act Regulations

The following acts are prohibited by the Wireless Telegraphy Act:

- Modifying and disassembling (including the antenna)
- Removing the label of conformance

Parent topic: FCC Compliance Statement

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The list of GPL Programs

busybox-1.13.4

iptables-1.4.4

libgcc1(gcc-4.3.3)

libstdc++-6.0.10

linux-2.6.27

patches

udhcp 0.9.8

uvc rev.219

wireless_tools 29

EPSON original drivers

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Version 2, June 1991

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Version 2.1, February 1999

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