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LS500W/LS500B/LS500WATV/ LS500BATV User's Guide

Contents

LS500W/LS500B/LS500WATV/LS500BATV User's Guide

Welcome to the LS500W/LS500B/LS500WATV/LS500BATV *User's Guide*.

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

Introduction to Your Projector

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

Projector Features

The Home Cinema LS500W/LS500B/LS500WATV/LS500BATV projector includes these special features:

Bright, high-resolution projection system

• Up to 4000 lumens of color brightness (color light output) and white brightness (white light output)

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

Flexible connectivity

• Three HDMI ports for computer or video device connection

Innovative display and operation features

• Long-life laser light source

• High digital zoom ratio for larger images in shorter projection distances

• 2,500,000:1 contrast ratio and Dynamic Contrast control for sharp, detailed images

• Powerful 2 x 10 W stereo speaker system with audio out port for connecting external speakers

• Epson's Direct Power On feature for quick and easy setup

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:
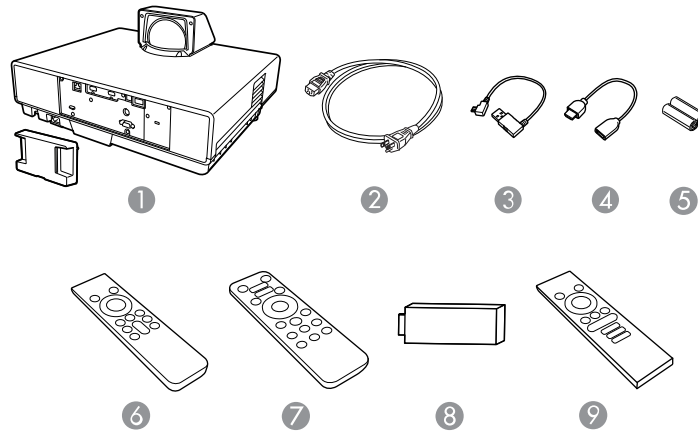
1   Projector and lens cap

2   Power cord

3   USB power cable with USB Micro-B connector

4   HDMI extension cable

5   Remote control batteries (2 AAA alkaline [LS500W/LS500B], 4 AAA alkaline [LS500WATV/LS500BATV])

6   Projector remote control (LS500W/LS500B only)

7   Remote control for projector and included streaming device (LS500WATV/LS500BATV only)

8   Streaming device (LS500WATV/LS500BATV only)

9   Remote control for included streaming device (LS500WATV/LS500BATV only)

Additional Components

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

Note: To connect a source that does not include a compatible video output port, you need to obtain an adapter that allows you to connect to an input port on the projector. If the device is a Mac, contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter that allows you to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer for compatible adapter options.

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

Note: Availability of accessories varies by country.

Signal or connection type	Additional component necessary
HDMI	Compatible HDMI cable Available for purchase from Epson or an authorized Epson reseller. **Note:** Older Mac computers (2009 and earlier) may not support HDMI audio.
3.5 mm stereo mini jack	Commercially available 3.5 mm audio cable compatible with your device

Parent topic: Projector Features

Optional Equipment and Replacement Parts

U.S. and Canada: You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766) in the U.S. or 800-807-7766 in Canada. Or you can purchase online at epsonstore.com (U.S. sales) or epsonstore.ca (Canadian sales).

Latin America: You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, go to epson.com.jm. Or you can click the "Where to Get Help" link below to contact your nearest sales office.

Note: Availability of accessories varies by country.

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

Option or part	Part number
Replacement air filter (ELPAF56)	V13H134A43
Wireless LAN module (ELPAP10)	V12H731P02
HDMI cable (3 ft) [U.S. and Canada]	AV22300-03
HDMI cable (6 ft) [U.S. and Canada]	AV22300-06

Note: The wireless LAN module is meant for displaying static content like presentations and photos, and is not recommended for projecting video.

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

Parent topic: Projector Features

Related references

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

Warranty and Registration Information (U.S. and Canada)

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

Note: Availability varies by region.

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 at this site: epson.com/webreg

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

Parent topic: Projector Features

Warranty and Registration Information (Latin America)

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

Register your product online at latin.epson.com/support, search for your product, and select **Register**.

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

Parent topic: Projector Features

Notations Used in the Documentation

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

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

Parent topic: Introduction to Your Projector

Where to Go for Additional Information

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

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

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

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

Parent topic: Introduction to Your Projector

Related references

Where to Get Help (Latin America)

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

Additional Projector Software and Manuals

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

You can install the projector software programs listed here and view their manuals for instructions on using them.

Note: If you still need help after checking this manual and the sources listed here, you can use the Epson PrivateLine Support service to get help fast (U.S. and Canada only). For details, see "Where to Get Help."

Projector software	Manual	Description
Epson iProjection (Windows/Mac)	*Epson iProjection Operation Guide (Windows/Mac)*	Lets you project the computer screens of users over a network. You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.), epson.ca/support (Canada), or epson.com.jm/support (Caribbean) and select your projector.
Epson iProjection app	Instructions are included with the app	Lets you project from an iOS device, Android device, or Chromebook if your projector is connected to a network that includes a wireless access point. Visit epson.com/support (U.S.), epson.ca/support (Canada), or epson.com.jm/support (Caribbean) for more information.
—	*Open Source Software License*	You can download this document from the Epson web site. Go to epson.com/support (U.S.), epson.ca/support (Canada), or epson.com.jm/support (Caribbean) and select your projector.

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

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

Parent topic: Introduction to Your Projector

Projector Parts - Front/Top

1	Front cover
2	Speakers (2 x 10 W Stereo)

3	Control panel
4	Focus lever
5	Storage space cover
6	Air intake vent (air filter)
7	⏻ **Power** button and light
8	Projector lights
9	Remote receiver

Parent topic: Projector Part Locations

Related references
Projector Light Status

Projector Parts - Rear/Top
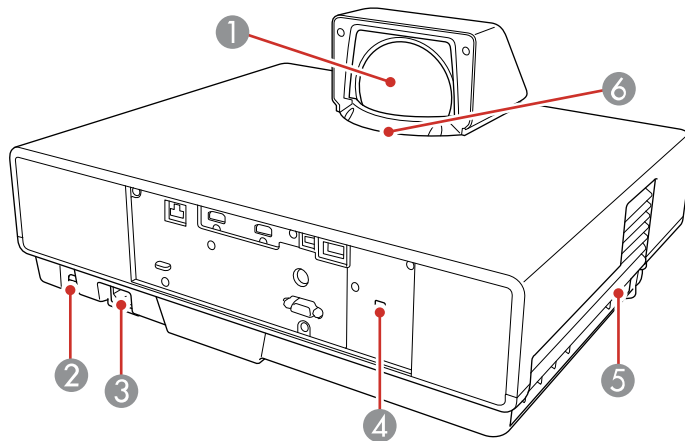
1	Lens
2	Security cable attachment point
3	Power inlet
4	Kensington security slot

5	Exhaust vent
6	Remote receiver

Parent topic: Projector Part Locations

Projector Parts - Connectors

Rear
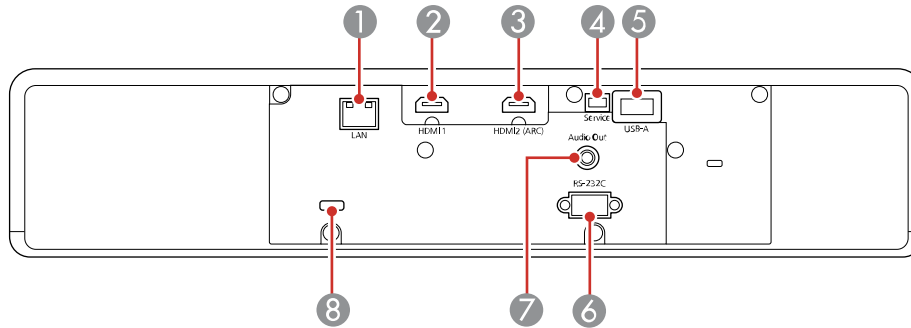
1	**LAN** port
2	**HDMI1** port
3	**HDMI2 (ARC)** port
4	**Service** port
5	**USB-A** port
6	**RS-232C** port
7	**Audio Out** port
8	Cable holder (zip tie)

Front
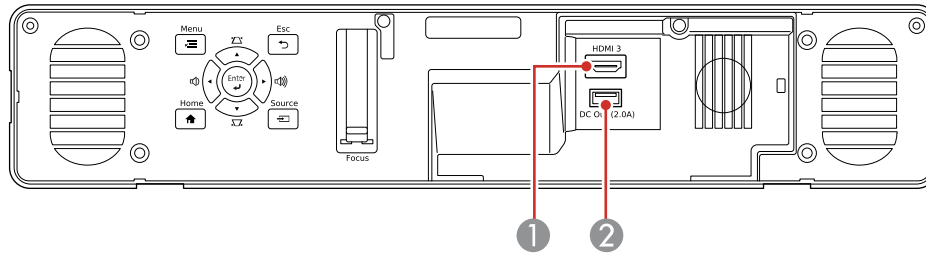
1	**HDMI3** port
2	**DC Out (2.0A)** power supply port

Parent topic: Projector Part Locations

Related concepts

Projector Connections

Projector Parts - Base
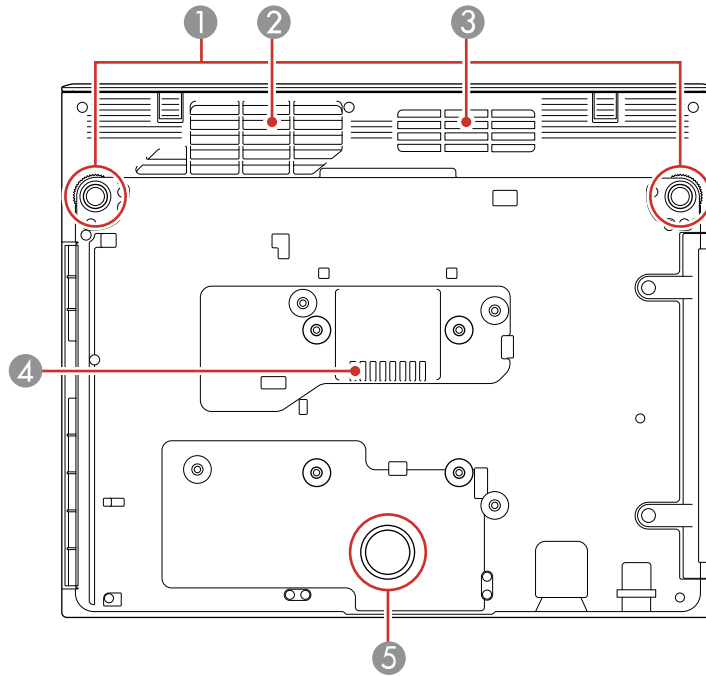
1	Front adjustable feet
2	Air intake vent
3	Air intake vent
4	Exhaust vent
5	Rear foot (fixed)

Parent topic: Projector Part Locations

Projector Parts - Control Panel
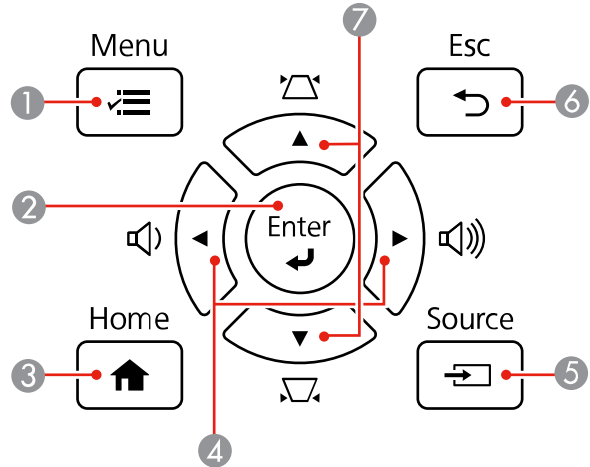
1	⋮≡ **Menu** button (accesses projector menu system)
2	↵ **Enter** button (selects options)
3	♠ **Home** button (accesses projector Home screen)
4	Volume and left/right arrow buttons
5	⇥ **Source** button (changes the input source)
6	↺ **Esc** button (cancels/exits functions)
7	Keystone and up/down arrow buttons (display the adjustment screen and adjust screen shape)

Parent topic: Projector Part Locations

Projector Parts - Remote Control

LS500W/B
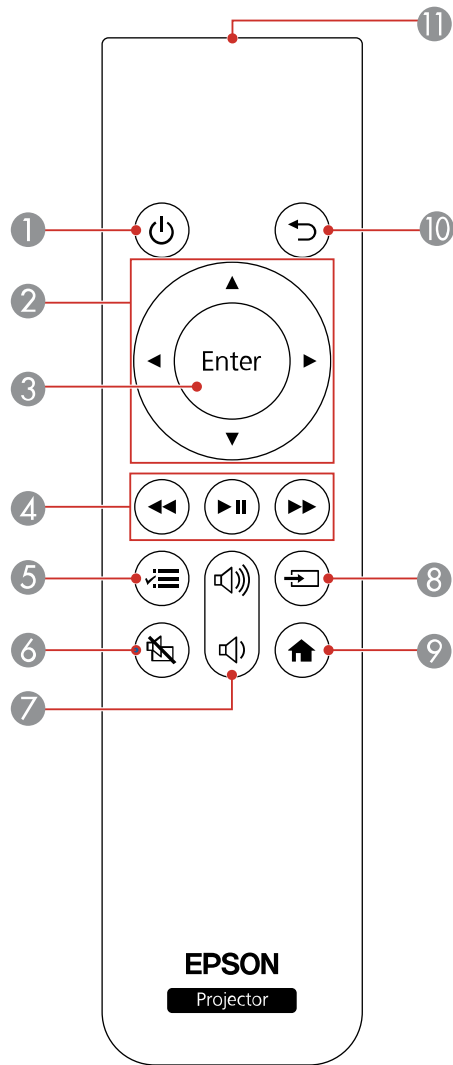
1   ⏻ **Power** button

2   Arrow buttons (move through on-screen options)

3   **Enter** button (selects options)

4   ◄◄ rewind, ►❚❚ play/pause, and ►► fast forward buttons (control connected streaming device)

5   ✓☰ **Menu** button (accesses projector menus)

6   ⌦ A/V mute button (turns off picture and sound)

7   ◁)) volume up and ◁) volume down buttons

8   ⤒ **Source** button (changes the input source)

9   ⌂ **Home** button (accesses projector Home screen)

10   ↩ **Esc** button (cancels/exits function)

11   Remote control emitter

LS500WATV/BATV

Projector remote control
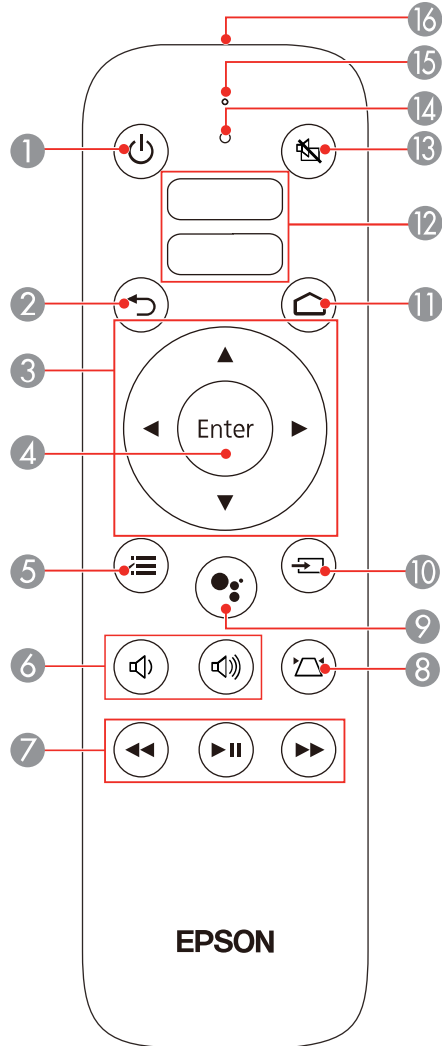
1   ⏻ **Power** button

2   ↩ **Esc** button (cancels/exits function)

3   Arrow buttons (move through on-screen options)

4   **Enter** button (selects options)

5   ⊟ **Menu** button (accesses projector menus)

6   ◁⟩ volume up and ◁⟩ volume down buttons

7   ◀◀ rewind, ▶❚❚ play/pause, and ▶▶ fast forward buttons (control connected streaming device)

8   ◹ keystone button (corrects vertical/horizontal image distortion)

9   ⦂ mic button (operates Android TV using voice commands)

10   ⊡ **Source** button (changes the input source)

11   ⌂ **Home** button (accesses Android TV Home screen)

12   App buttons

13   ⧅ A/V mute button (turns off picture and sound)

14   Command light (turns on when the remote control is in operation)

15   Microphone (listens for voice commands after pressing the ⦂ mic button)

16   Remote control emitter

Streaming device remote control
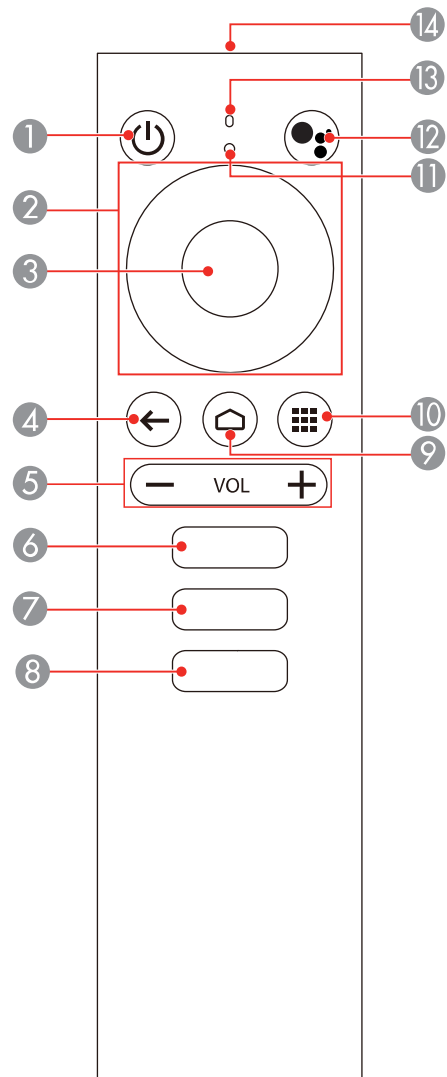
1   ⏻ **Power** button

2   Up/Down/Left/Right buttons

3   **Enter** button

4   ← return button (returns to the previous menu level)

5   Volume down and volume up buttons

6   YouTube button (opens the YouTube app)

7   Netflix button (opens the Netflix app)

8   Google Play button (connects to Google Play)

9   ⌂ home button (displays the Android TV home screen)

10   ⊞ apps button (displays list of Android TV apps)

11   Command light (turns on when the remote control is in operation)

12   🎤 mic button (operates Android TV using voice commands)

13   Microphone (listens for voice commands after pressing the 🎤 mic button)

14   Remote control emitter

Parent topic: Projector Part Locations

Setting Up the Projector

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

Projector Placement
Projector Connections
Installing Batteries in the Remote Control

Projector Placement

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

Warning: Do not mount the projector on a ceiling or a wall. It could fall and cause damage or injury.

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

• Place the projector on a sturdy, level surface.

• Do not place or install the projector vertically.

• 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.

• 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.

• 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
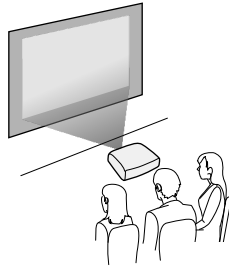
Wherever you set up the projector, make sure to position it squarely in front of the center of the screen, not at an angle, if possible. Do not place or install the projector vertically.

Note: Do not mount the projector on a ceiling or a wall. It could fall and cause damage or injury.

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.)

You can also use the Projection Distance Calculator here (U.S.), here (Canada), or here (Caribbean).
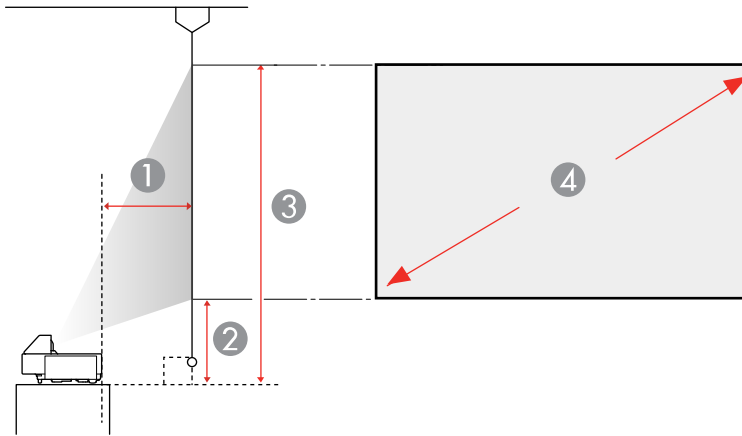
1   Projection distance (from image to rear of projector)

2   Distance from projector surface to base of image

3   Distance from projector surface to top of image

4   Projected image size

16:9 Aspect Ratio Image or Screen			
Screen or image size (4)	Projection distance (1) Wide to Tele	Offset from projector surface (2) Wide to Tele	Offset from projector surface (3) Wide to Tele
70 inches (177.8 cm)	7.8 to 14.0 inches (19.7 to 35.5 cm)	11.3 to 19.0 inches (28.7 to 48.2 cm)	45.6 to 53.3 inches (115.9 to 135.4 cm)
80 inches (203.2 cm)	10.3 to 17.4 inches (26.2 to 44.2 cm)	12 to 20.8 inches (30.5 to 52.8 cm)	51.2 to 60.0 inches (130.1 to 152.4 cm)
90 inches (228.6 cm)	12.8 to 20.8 inches (32.6 to 52.9 cm)	12.7 to 22.6 inches (32.2 to 57.3 cm)	56.8 to 66.7 inches (144.3 to 169.4 cm)
100 inches (254 cm)	15.4 inches (39.1 cm)*	13.4 inches (33.9 cm)*	62.4 inches (158.5 cm)*

16:9 Aspect Ratio Image or Screen			
Screen or image size (4)	Projection distance (1) Wide to Tele	Offset from projector surface (2) Wide to Tele	Offset from projector surface (3) Wide to Tele
110 inches (279.4 cm)	17.9 inches (45.5 cm)*	14.1 inches (35.7 cm)*	68.0 inches (172.7 cm)*
120 inches (304.8 cm)	20.4 inches (51.9 cm)*	14.7 inches (37.4 cm)*	73.6 inches (186.9 cm)*
130 inches (330.2 cm)	23.0 inches (58.4 cm)*	15.4 inches (39.2 cm)*	79.2 inches (201.1 cm)*

* Wide resolution only

Parent topic: Projector Placement

Projector Connections

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

Caution: If you will use the projector at altitudes above 4921 feet (1500 m), turn on **High Altitude Mode** to ensure the projector's internal temperature is regulated properly. The cooling fans will run at a higher speed and will be slightly louder.

Connecting a Streaming Device
Connecting to an HDMI Video Source
Connecting External Speakers Using HDMI ARC
Connecting to External Speakers

Parent topic: Setting Up the Projector

Related references
Projector Setup Settings - Extended Menu
Additional Components

Connecting a Streaming Device

You can connect a streaming device to the projector's **HDMI3** port. Connecting the USB power cable provides power to the streaming device.

Note: The illustrations below show the streaming device included with LS500WATV/BATV models. If you are connecting a different streaming device and it does not have a USB 2.0 Micro-B power port, use the USB power cable that came with the device.

Note: For LS500WATV/BATV models, the projector remote control must be paired to the included streaming device to use Android TV and video-on-demand features. Follow the on-screen instructions or see the link below.

1. Remove the front cover from the projector.
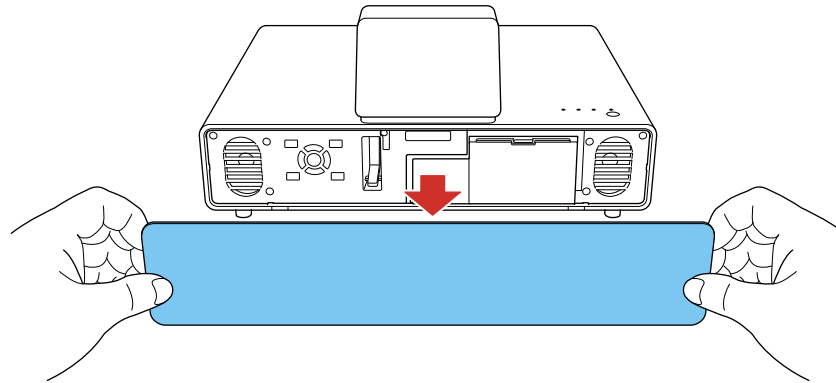
2. Remove the storage space cover.
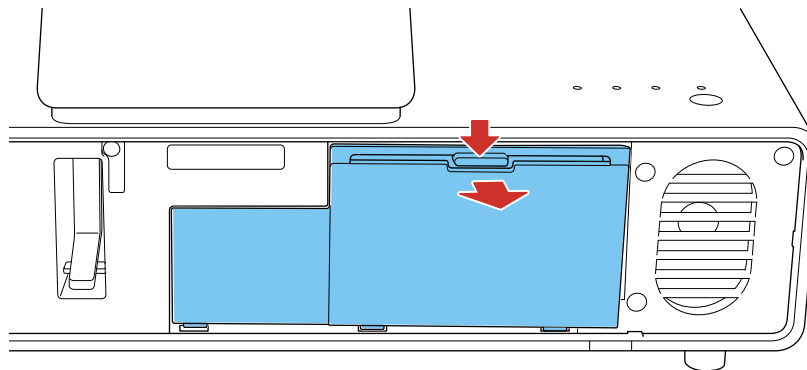
3. Connect the HDMI extension cable to the **HDMI3** port and the USB power cable to the **DC Out (2.0A)** port.
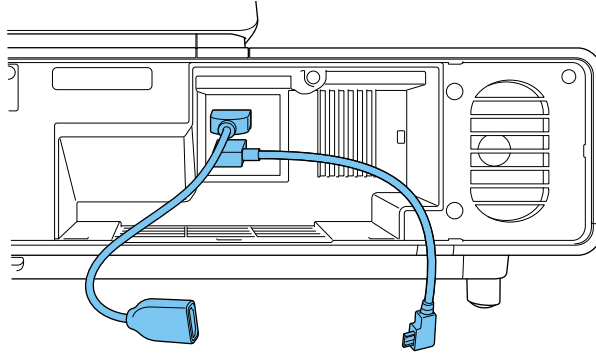
4. Connect the streaming device to the HDMI extension cable.
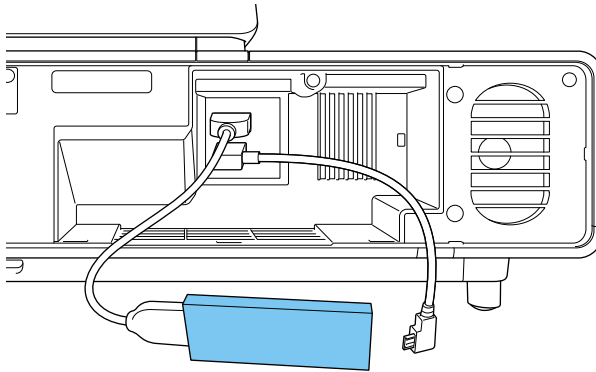
5. Connect the USB power cable to the streaming device's USB power port.
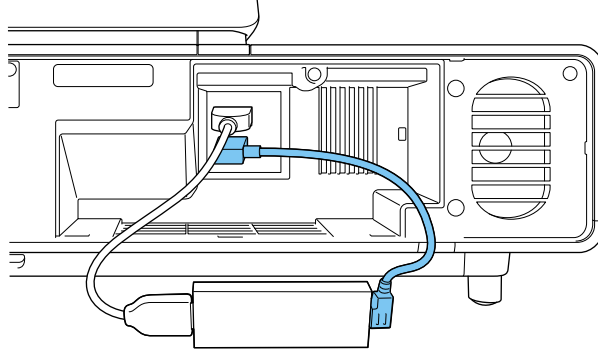
6. Fit the device securely inside the storage space by arranging the cables as shown.
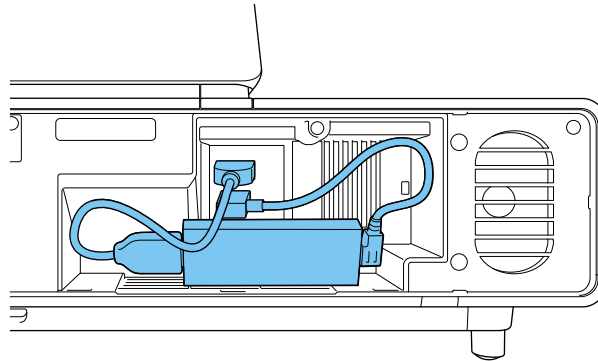
Note: Do not force the device into the projector; you may damage the projector and/or the device.

7. Replace the storage space cover as shown.
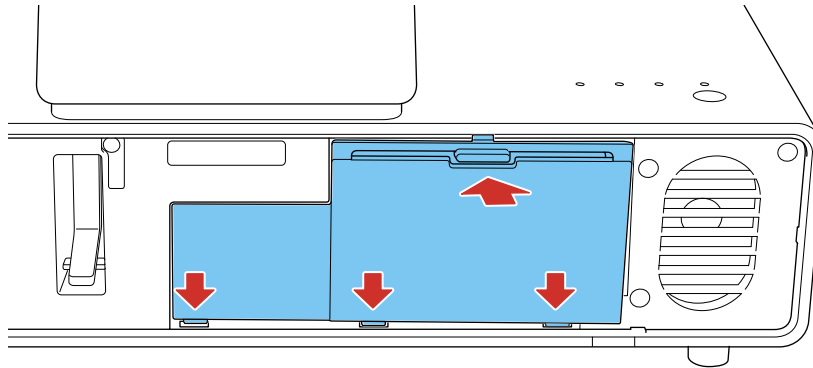
Note: Make sure to clear the cables or the cover will not close.

8. Replace the front cover of the projector.
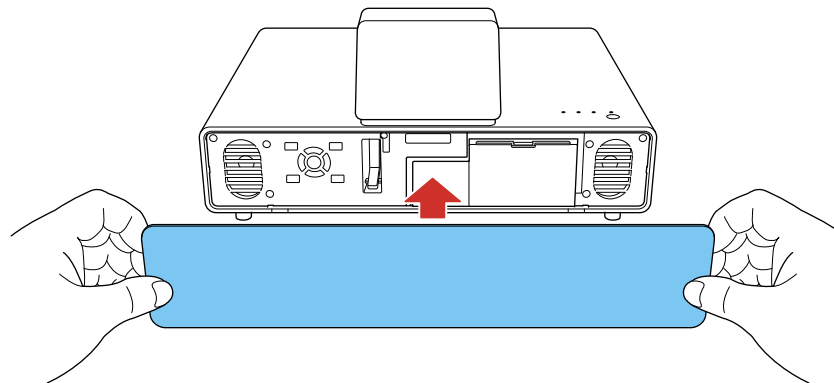
Parent topic: Projector Connections

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.

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

   Note: To display signals in the 18 Gbps transmission band, such as from a 4K 60 fps source, use a cable rated for HDMI 2.0 or higher or you may have trouble displaying an image. If you experience any trouble displaying images at 18 Gbps, change the **EDID** setting to **Normal**.

2. Connect the other end to one of the HDMI ports on the rear of the projector.
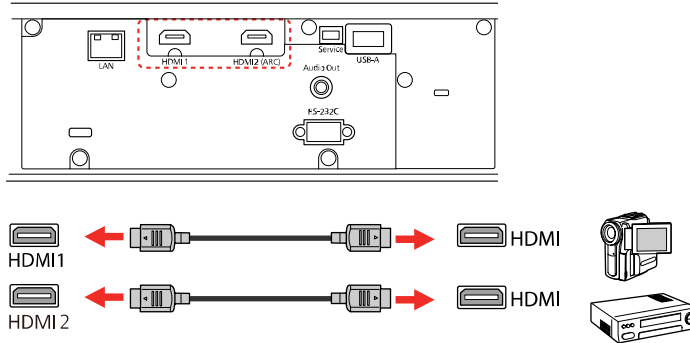
Note: When an audio/video source that meets the HDMI CEC standard is connected to one of the projector's HDMI ports, you can use the projector's remote control to control certain features of the linked device by accessing the Settings menu and setting **HDMI Link** to **On**.

Parent topic: Projector Connections

Related references

Projector Feature Settings - Settings Menu

Input Signal Settings - Signal Menu

Connecting External Speakers Using HDMI ARC

If your external speakers or A/V receiver are HDMI ARC-compatible, you can connect them to the projector's **HDMI2 (ARC)** port using an optional HDMI cable. Make sure the **HDMI Link** setting is enabled and **AV System** is selected as the **Audio Out Device** setting.

1. Connect the HDMI cable to the ARC-compatible HDMI port on your external speakers or A/V receiver.

    Note: To display signals in the 18 Gbps transmission band, such as from a 4K 60 fps source, use a cable rated for HDMI 2.0 or higher or you may have trouble displaying an image. If you experience any trouble displaying images at 18 Gbps, change the **EDID** setting to **Normal**.

2. Connect the other end to the **HDMI2 (ARC)** port on the rear of the projector.
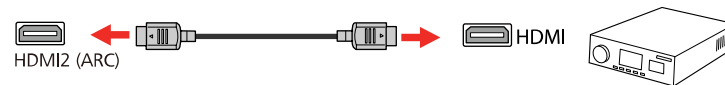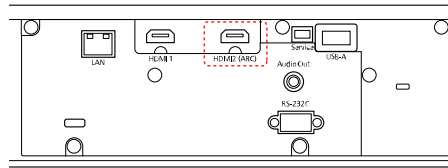
3. Select any HDMI control settings on the connected speakers or receiver, as necessary. See your device's documentation for more information.

Parent topic: Projector Connections

Related references

Projector Feature Settings - Settings Menu
Input Signal Settings - Signal Menu

Connecting to External Speakers

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

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

1. Make sure your computer or video source is connected to the projector with both audio and video cables as necessary.

2. Locate the appropriate cable to connect your external speakers, such as a stereo mini-jack-to-pin-jack cable, or another type of cable or adapter.

3. Connect one end of the cable to your external speakers as necessary.

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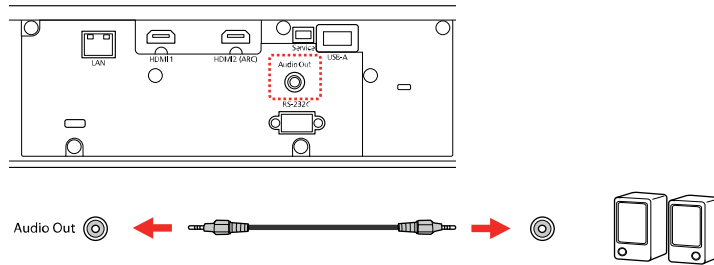
Parent topic: Projector Connections

Installing Batteries in the Remote Control

The remote control uses two AAA manganese or alkaline 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.

Note: Your remote may look different but the steps are the same.

1. Remove the battery cover.
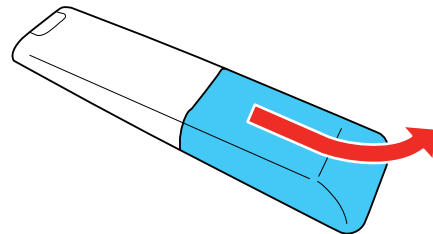
2. Insert the batteries with the **+** and **–** ends facing as shown.
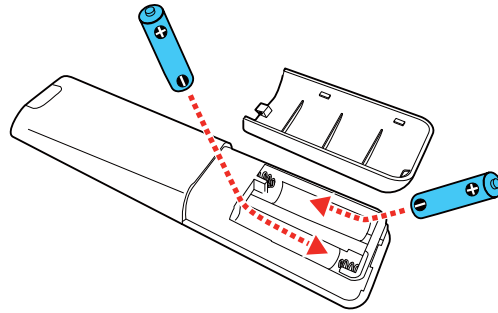
Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

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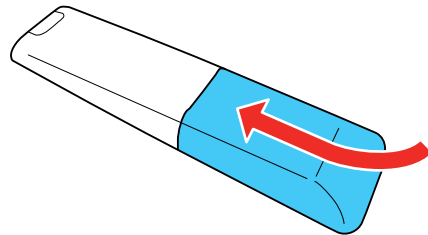
Warning: Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

Parent topic: Setting Up the Projector

Using the Projector on a Network

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

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

Wired Network Projection
Wireless Network Projection

Wired Network Projection

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

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

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

Connecting to a Wired Network
Selecting Wired Network Settings

Parent topic: Using the Projector on a Network

Related references

Additional Projector Software and Manuals

Connecting to a Wired Network

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

1. Connect one end of the network cable to your network hub, switch, or router.

2. Connect the other end of the cable to the projector's **LAN** port.
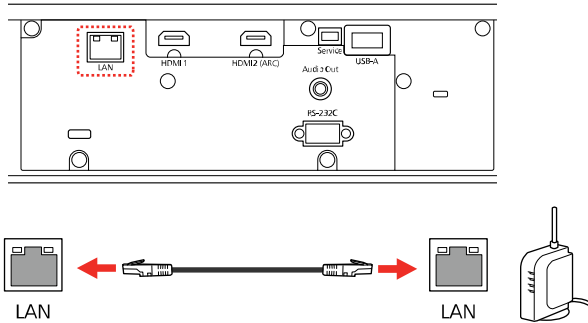
Parent topic: Wired Network Projection

Selecting Wired Network Settings

Before you can project from computers 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**.

Image	Wireless LAN Power	On
Signal	Net. Info. - Wireless LAN	
	Net. Info. - Wired LAN	
Settings	Display the QR Code	
	Network Configuration	
Extended		
Network		
Info		
Reset		
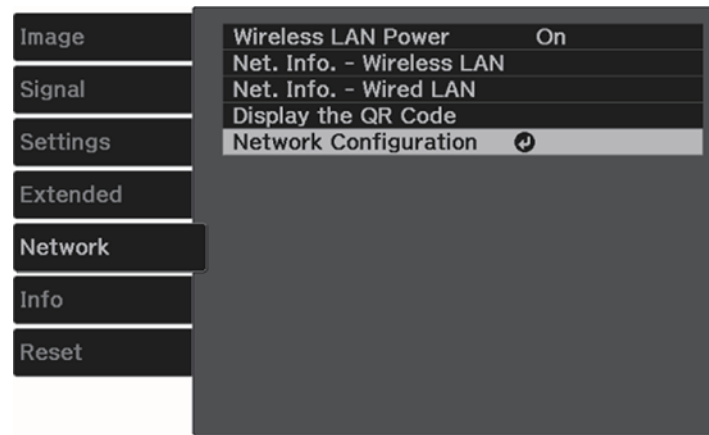
4. Select **Network Configuration** and press **Enter**.

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

Basic	Projector Name	
	PJLink Password	
Wireless LAN	Remote Password	
	Display LAN Info.	Text & QR Code
Security		
Wired LAN		
Others		
Reset		
Complete		

6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.

- **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
- **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen in Epson Web Control. (Default user name is **EPSONREMOTE**; default password is **guest**.)
- **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices using the Epson iProjection app.

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

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

Basic	DHCP	On
	IP Address	192. 168. 100. 100
Wireless LAN	Subnet Mask	255. 255. 255. 0
	Gateway Address	192. 168. 200. 1
Security	IP Address Display	On
Wired LAN		
Others		
Reset		
Complete		

8. If necessary, 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.

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.

Parent topic: Wired Network Projection

Wireless Network Projection

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

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

To connect wirelessly to your projector, configure the connection using the projector's Network menus.

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

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

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

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

Installing the Wireless LAN Module
Connecting Directly to a Smartphone or Tablet
Selecting Wireless Network Settings Manually
Selecting Wireless Network Settings in Windows
Selecting Wireless Network Settings on Mac
Setting Up Wireless Network Security

Parent topic: Using the Projector on a Network

Related references

Additional Projector Software and Manuals
Optional Equipment and Replacement Parts

Installing the Wireless LAN Module

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

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

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

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

2. Insert the wireless LAN module into the **USB-A** port shown here.
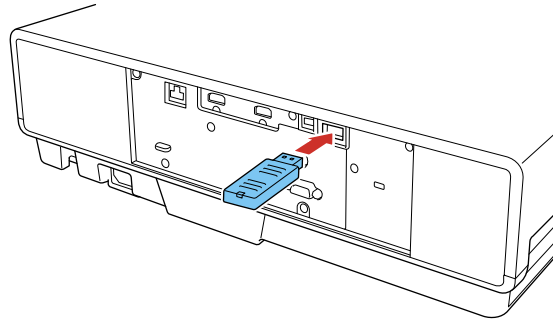
3. Plug in and turn on the projector.

Parent topic: Wireless Network Projection

Related tasks
Turning Off the Projector

Connecting Directly to a Smartphone or Tablet

You can display a QR code on the screen and use it to connect a single smartphone or tablet to your projector with the Epson iProjection app. Make sure the optional Epson 802.11b/g/n wireless LAN module is installed.

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

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

1. Download the latest version of the Epson iProjection app from the App Store or Google Play and install it on your smartphone or tablet.

2. Press the **Menu** button on the projector or the projector remote control.

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

Image	Wireless LAN Power	On
	Net. Info. - Wireless LAN	
Signal	Net. Info. - Wired LAN	
	Display the QR Code	
Settings	Network Configuration	
Extended		
Network		
Info		
Reset		
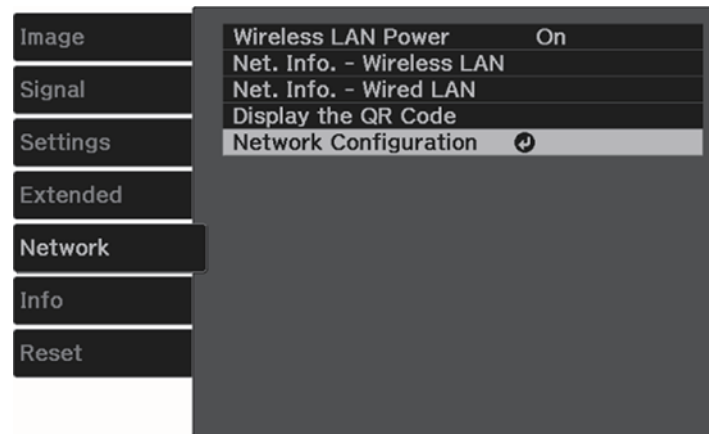
4. Select **On** as the **Wireless LAN Power** setting, if necessary.

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

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

Basic	Connection Mode	Quick
	Channel	11ch
Wireless LAN	SSID	EB8A5715-00001a4
	Search Access Point	
Security	IP Settings...	
	SSID Display	On
Wired LAN	IP Address Display	On
Others		
Reset		
Complete		
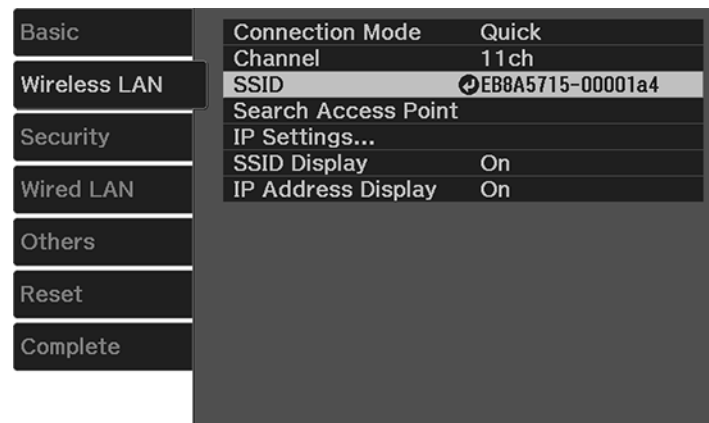
7. Select **Connection Mode** and press **Enter**.

8. Select **Quick** and press **Enter**.

9. Press ↩ **Esc** to return to the Network Configuration menu.

10. Select **Complete** and follow the on-screen instructions to save your settings.

11. Select **Display the QR Code** and press **Enter**.

    Your projector displays a QR code on the projection surface.

12. Open the Epson iProjection app on your smartphone or tablet.

13. Use the QR code reader feature to read the QR code and connect your device to the projector.

    Note: The projector and the smartphone must be on the same wireless network in order to establish a connection.

Your smartphone or tablet is now connected to your projector. Visit epson.com/iprojection (U.S.), epson.ca/iprojection (Canada), or latin.epson.com/iprojection (Caribbean) for information on controlling your projector with the Epson iProjection app.

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings Manually

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

1. Turn on the projector.

2. Press the **Menu** button.

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

Image	Wireless LAN Power ⏼On
Signal	Net. Info. - Wireless LAN
	Net. Info. - Wired LAN
Settings	Display the QR Code
	Network Configuration
Extended	
Network	
Info	
Reset	
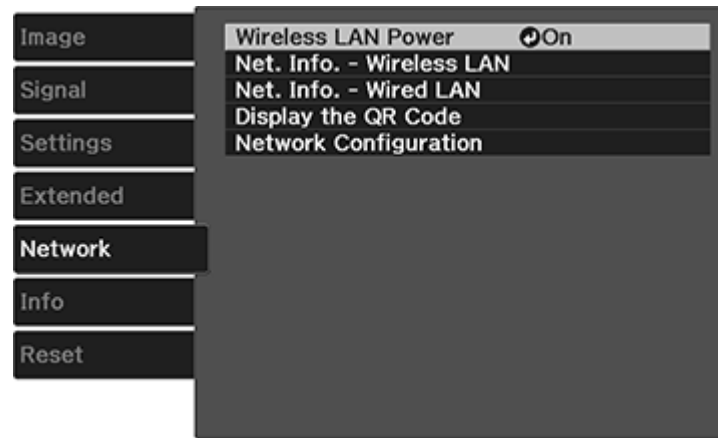
4. Make sure the **Wireless LAN Power** setting is set to **On**.
5. Select **Network Configuration** and press **Enter**.
6. Select the **Basic** menu and press **Enter**.

Basic	Projector Name ⏼
	PJLink Password
Wireless LAN	Remote Password
	Display LAN Info. Text & QR Code
Security	
Wired LAN	
Others	
Reset	
Complete	

7. Select the following basic options as necessary:

- **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.

- **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.

- **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen in Epson Web Control. (Default user name is **EPSONREMOTE**; default password is **guest**.

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

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

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

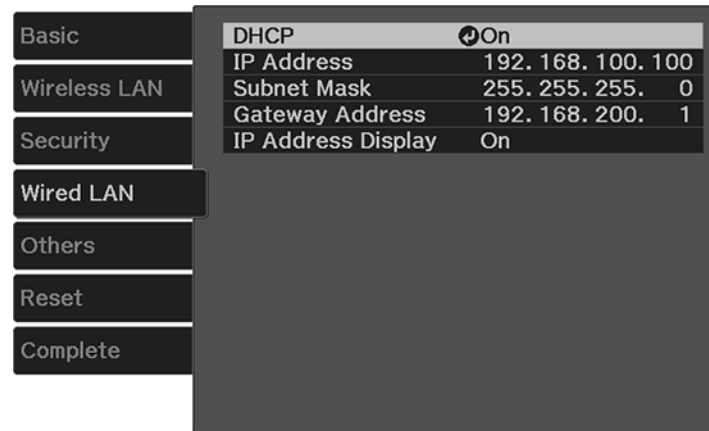| Basic	Connection Mode	⊙Quick
	Channel	1ch
Wireless LAN	SSID	E88A5715-00001a4
	Search Access Point	
Security	IP Settings...	
	SSID Display	On
Wired LAN	IP Address Display	On
Others		
Reset		
Complete		
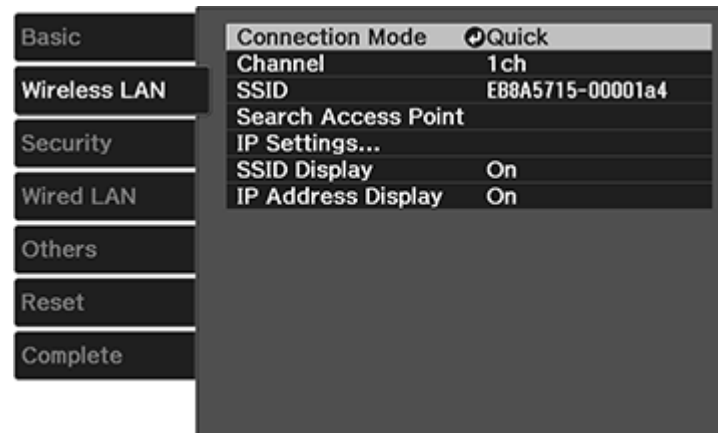
9. Select the settings on the **Wireless LAN** menu as necessary for your network.

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

Note: Check your network security settings after completing the wireless settings.

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

Wireless LAN Menu Settings

Parent topic: Wireless Network Projection

Wireless LAN Menu Settings

Setting	Options	Description
Connection Mode	**Quick** **Advanced**	Selects the type of wireless connection: **Quick**: lets you directly connect to multiple devices and computers using the projector's wireless network (requires the optional wireless LAN module). **Advanced**: lets you connect to multiple devices and computers via a wireless network access point
Channel	1ch 6ch 11ch	In **Quick** connection mode, selects the frequency band (channel) used by the wireless LAN
SSID	Up 32 alphanumeric characters	Manually set the SSID (network name) of the wireless LAN system the projector is connecting to
Search Access Point	**To Search View**	Search for available wireless network access points in **Advanced** connection mode
IP Settings	**DHCP** (**On** or **Off**) **IP Address** **Subnet Mask** **Gateway Address**	Selects DHCP if your network assigns IP addresses automatically, or turns off DHCP so you can enter the network's IP address, subnet mask, and gateway address as needed

Setting	Options	Description
SSID Display	On Off	Selects whether to display the SSID on the network standby screen and Home screen
IP Address Display	On Off	Selects whether to display the IP address on the network standby screen and Home screen

Parent topic: Selecting Wireless Network Settings Manually

Selecting Wireless Network Settings in Windows

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

1. To access your wireless utility software, access the Desktop and double-click the network icon on the Windows taskbar.

2. Do one of the following:

   • If your projector is set up on an existing network (Advanced mode), select the network name (SSID).

   • If your projector is configured for Quick mode, select the projector's SSID.

3. Click **Connect**.

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings on Mac

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

1. Click the AirPort icon on the menu bar at the top of the screen.

2. Make sure AirPort is turned on, then do one of the following:

   • If your projector is set up on an existing network (Advanced mode), select the network name (SSID).

   • If your projector is configured for Quick mode, select the projector's SSID.

Parent topic: Wireless Network Projection

Setting Up Wireless Network Security

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

- WPA2-PSK
- WPA/WPA2-PSK*

* Available only in **Advanced** connection mode.

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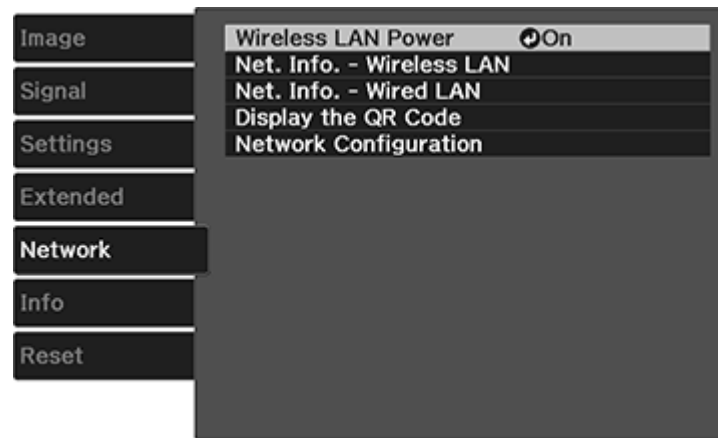
3. Select **Network Configuration** and press **Enter**.

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

Basic	Security	⊘WPA2-PSK
Wireless LAN	Passphrase	
Security		
Wired LAN		
Others		
Reset		
Complete		

5. Select the **Security** setting and press **Enter**.

6. Select the security setting for your network.

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

Parent topic: Wireless Network Projection

Using Basic Projector Features

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

Turning On the Projector

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

1. Connect the computer or video equipment you want to use to one of the projector's HDMI ports, if necessary.

2. Connect the power cord to the projector's power inlet.
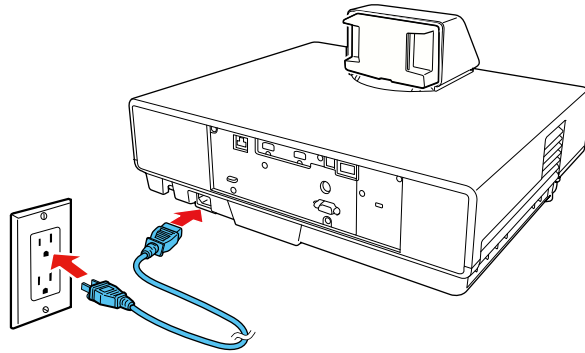
3. Plug the power cord into an electrical outlet.

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

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

4. Remove the lens cap.
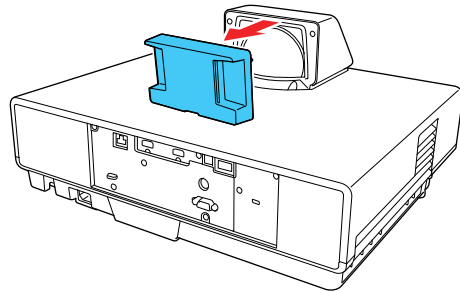
5. Press the power button on the projector or remote control to turn on the projector.

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

Warning: Never look into the projector lens when the laser is on. This can damage your eyes and is especially dangerous for children and pets. If you are using the remote control to turn the projector on, make sure no one is looking into the lens or in front of the projector before turning it on.

Caution: Make sure no objects are blocking the light from the projector lens. Objects blocking the lens for an extended time can melt and light that is reflected back into the lens can cause the projector to malfunction. Do not stand in front of the projector lens during projection. Your clothes could be damaged from the high temperature.

6. Turn on the connected video source.

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

- Make sure the lens cap is off.
- Turn on the connected computer or video device.
- Insert a DVD or other video media and press the play button, if necessary.
- Press the **Source** button on the projector or the projector remote control and select the desired input.
- Change the screen output from the computer when using a laptop.
- If the Home screen is displayed, select the source you want to project.

Using the Home Screen

Parent topic: Using Basic Projector Features

Related references
Projector Setup Settings - Extended Menu

Using the Home Screen

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

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

2. Press the arrow buttons on the remote control or control panel to navigate the screen, and press **Enter** to select an option.
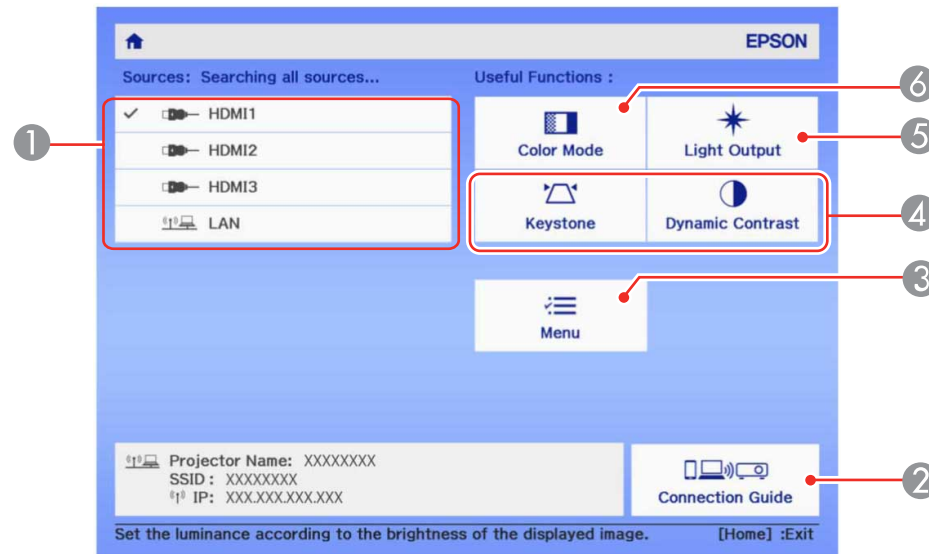
1   Selects the source you want to project

2   Displays the Connection Guide

3   Displays the projector's menus

4   Performs the actions assigned to Custom Function 1 and Custom Function 2 on the Home screen

5   Displays the brightness for the light source

6   Selects the color mode

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

3. Press the ⌂ **Home** button to exit the Home screen.

Note: The Home screen disappears after 10 minutes of inactivity.

Turning Off the Projector

Before turning off the projector, turn off any connected devices and 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 A/V Mute feature, the laser is still on. To turn off the laser, turn off the projector.

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

   The projector displays a shutdown confirmation screen.

   Power Off?

   Yes: Press ⏻ button
   No : Press any other button

   Note: If **Standby Confirmation** is disabled and you press the power button on the remote control, the confirmation screen is not shown and the projector shuts off.

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

   The laser turns off and the Status light flashes as the projector cools down.

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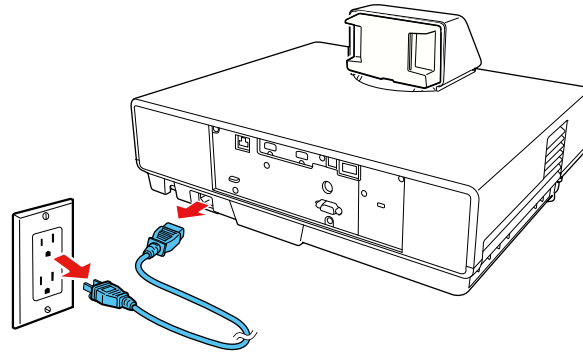
Caution: To avoid damaging the projector or laser, never unplug the power cord when the Status light is on or flashing.

4. Attach the lens cap.
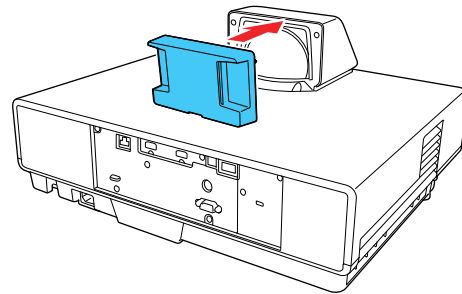
Parent topic: Using Basic Projector Features

Related references
Projector Setup Settings - Extended Menu

Selecting the Language for the Projector Menus

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

1. Turn on the projector.

2. Press the **Menu** button.

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

Image	Home Screen...	⏎
Signal	Display...	
	Projection	Front
Settings	Operation...	
	Standby Mode	Communication Off
Extended	Language 🌐	English
Network	Reset	
Info		
Reset		
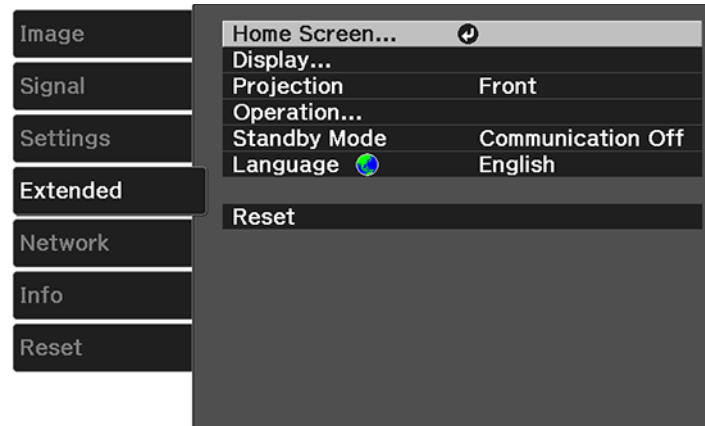
4. Select the **Language** setting and press **Enter**.

5. Select the language you want to use and press **Enter**.

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

Parent topic: Using Basic Projector Features

Adjusting the Image Position

You can use the Image Shift feature to adjust the image position without moving the projector.

Note: This feature is not available if the **Zoom** option is set to the widest setting.

Note: Images are not stable immediately after turning the projector on. Wait at least 20 minutes after starting projection to adjust the image position. The Image Shift setting is stored even after the projector

is turned off. If you change the projector's installation position or angle, you may need to make adjustments again.
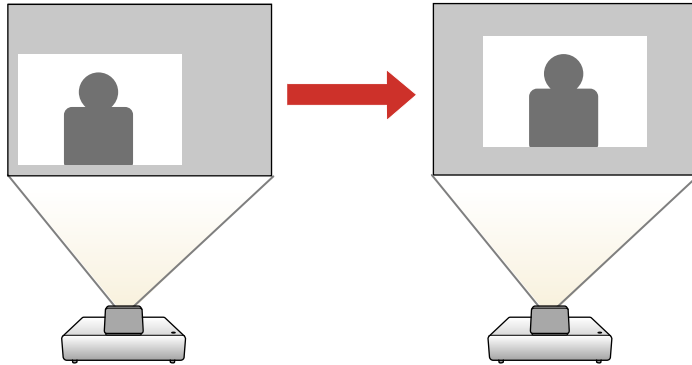
1. Turn on the projector and display an image.

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

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

4. Select **Image Shift** and press **Enter**.

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

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

Focusing the Image

1. Turn on the projector and display an image.

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

2. Raise or lower the focus lever to sharpen the image.
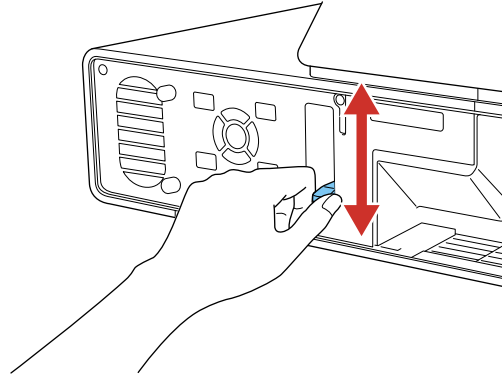
Related references
Projector Feature Settings - Settings Menu

Adjusting the Front Feet

If you are projecting from a table or other flat surface, you can adjust the image using the projector's adjustable feet. To adjust the image height, set the projector higher or lower while keeping it level and parallel to the screen.

1. Turn on the projector and display an image.

2. Rotate the front feet to adjust any tilting or vertical distortion.
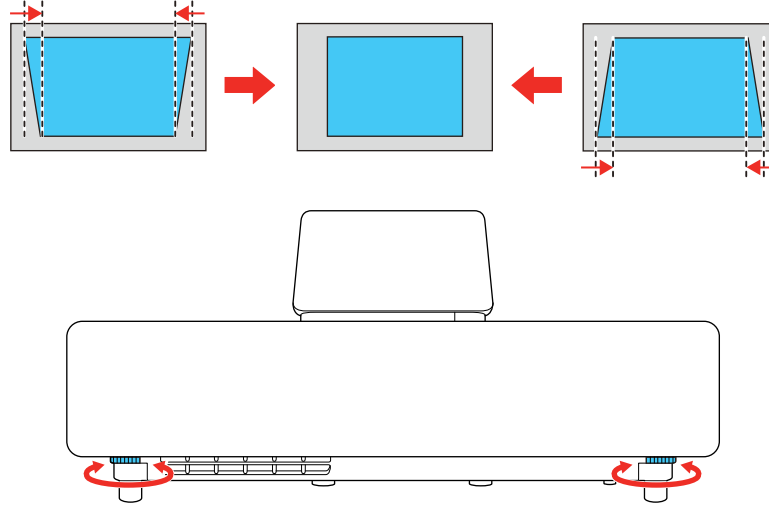
If the projected image is unevenly rectangular, you need to adjust the image shape.

Parent topic: Using Basic Projector Features

Image Shape

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

Correcting Image Shape with Quick Corner
Correcting Image Shape with the Keystone Buttons

Parent topic: Using Basic Projector Features

Correcting Image Shape with Quick Corner

You can use the projector's Quick Corner setting to correct the shape and size of an image that is unevenly rectangular on all sides.

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

1. Turn on the projector and display an image.

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

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

Image	Installation Guide	⟳
	Keystone	H/V-Keystone
Signal	Blanking	
	Zoom	
Settings	Image Shift	
	Volume	0
Extended	HDMI Link...	
	Lock Setting...	
Network	Memory...	
Info	Reset	
Reset		
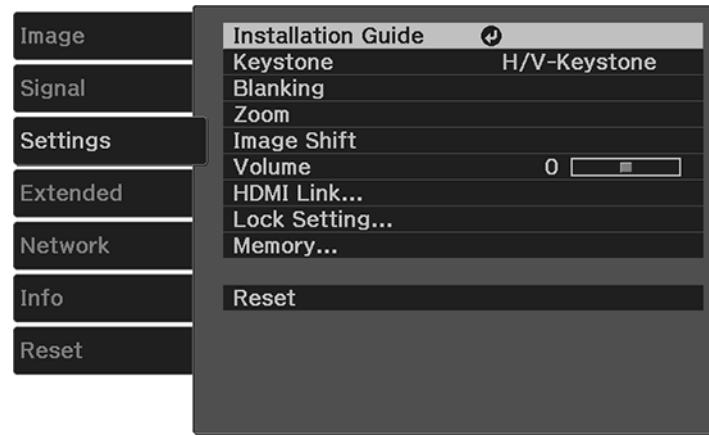
4. Select the **Keystone** setting and press **Enter**.
5. Select the **Quick Corner** setting and press **Enter**. Then press **Enter** again.

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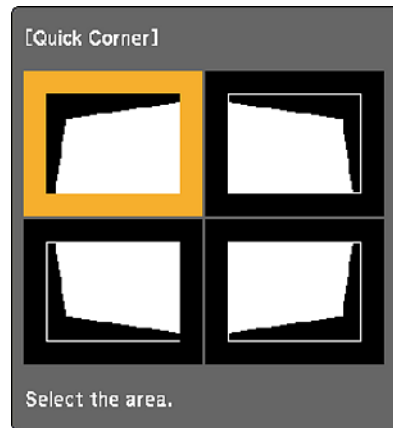
Note: To reset your adjustments, press and hold the **Esc** button for at least 2 seconds to display a reset screen. Then select **Yes**.

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

7. Press the arrow buttons to adjust the image shape as necessary. Press **Enter** to return to the area selection screen.

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

Parent topic: Image Shape

Related references

Projector Feature Settings - Settings Menu

Correcting Image Shape with the Keystone Buttons

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

Note: You can use the keystone buttons to correct the image up to ± 3° horizontally or vertically.

Note: To provide the best possible image quality, adjust the projector's position to correct the image shape. Due to the ultra-short throw characteristics of the projector, the projected image is greatly

affected by small movements. Adjust the projector's position in small increments to square up the image. If this isn't possible, use the keystone correction buttons on the projector to correct the image shape.

Note: Wait 20 minutes after turning on the projector before setting the focus for maximum accuracy.

1. Turn on the projector and display an image.

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

2. Press one of these keystone buttons on the control panel to display the Keystone adjustment screen.
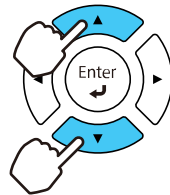
3. Press a keystone button on the projector's control panel to adjust the image shape.

   Vertical
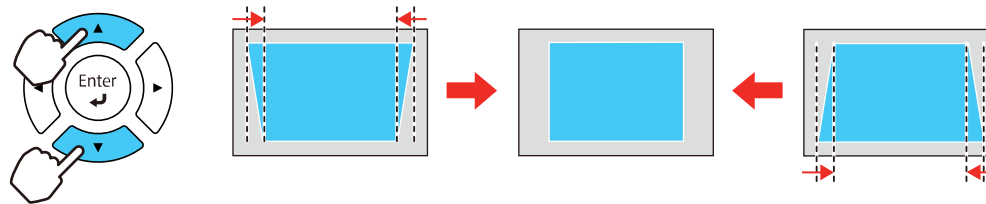
   Horizontal
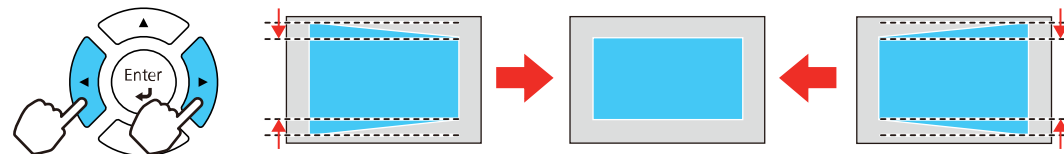
After correction, your image is slightly smaller.

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

Parent topic: Image Shape

Related references
Projector Feature Settings - Settings Menu

Resizing the Image with the Zoom Setting

You can resize the image using the Zoom setting.

1. Turn on the projector and display an image.

2. Press the **Menu** button.

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

Image	Installation Guide ●
	Keystone	H/V-Keystone
Signal	Blanking
	Zoom
Settings	Image Shift
	Volume	0 ☐—■——☐
Extended	HDMI Link...
	Lock Setting...
Network	Memory...
Info	
	Reset
Reset	
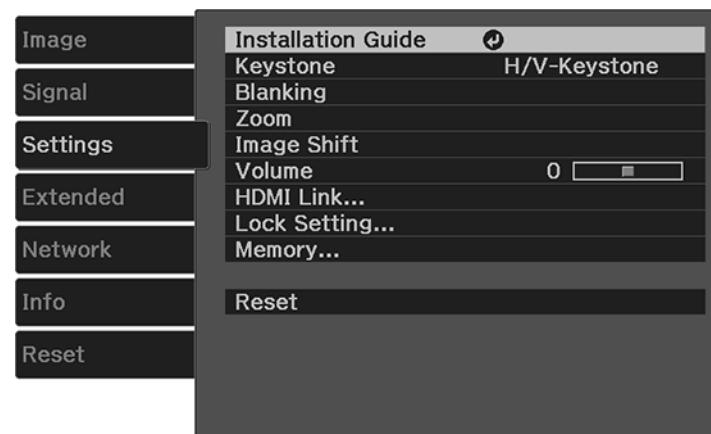
4. Select the **Zoom** setting and press **Enter**.

5. To enlarge the image size, press the left arrow button on the projector's control panel or remote control.

6. To reduce the image size, press the right arrow button.

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

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, a compatible HDMI cable, and a pair of compatible RF 3D glasses (not included with your projector).

Note: Make sure the **3D Display** setting on the **Signal** menu is set to **Auto** or **3D**.

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

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

3. Begin playback from the video device.

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

4. Turn on the 3D glasses.

5. Put on the 3D glasses and view the projected image. 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 may enter standby mode. Try turning the glasses off and then back on to resume 3D viewing. See the documentation for your 3D glasses for information on how to pair and operate the glasses.

   Note: Make sure you are within 32 ft (10 m) of the projector when using the 3D glasses or you may lose your connection.

3D Viewing Range

Parent topic: Using Basic Projector Features

3D Viewing Range

When you view 3D images, make sure you are positioned within the viewing range shown here.
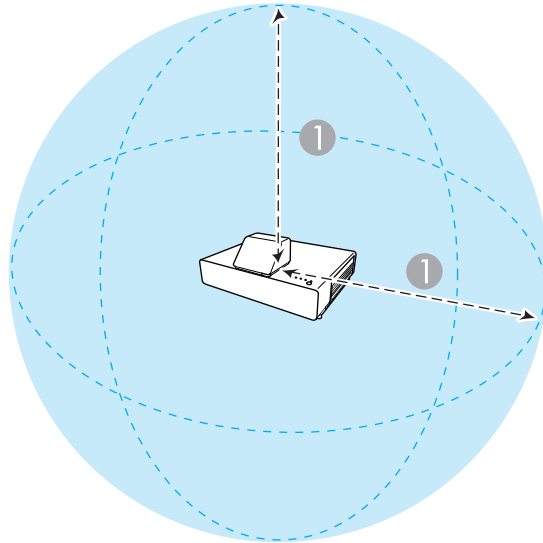
1 32 ft (10 m)

Parent topic: Viewing 3D Images

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 19.7 feet (6 m) away. You can point it at the screen or board, or the front or back of the projector.

Make sure that you aim the remote control at the projector's receivers within the angles listed here.
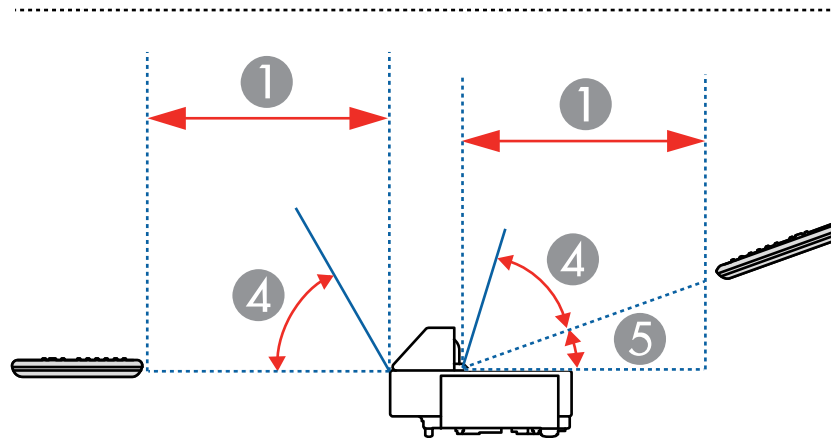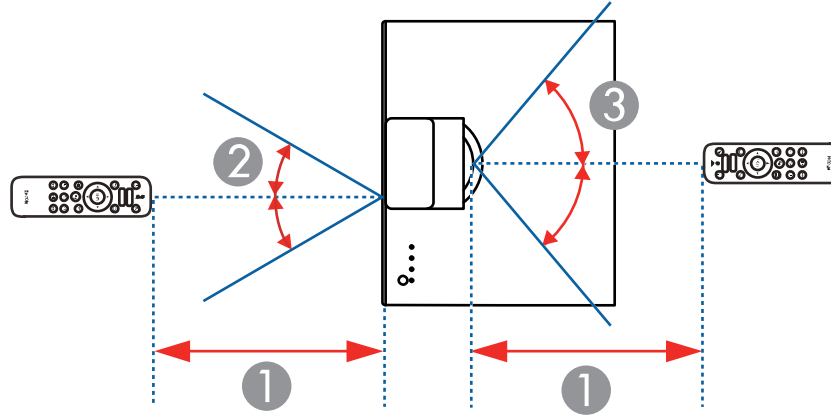
1	19.7 feet (6 m)
2	± 30°
3	± 55°
4	60°
5	15°

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

Pairing the Remote Control (LS500WATV/LS500BATV)

To use Android TV and video-on-demand features, you must pair the projector remote control to the included streaming device.

Note: When you first turn on the projector after connecting the included streaming device, instructions for pairing the projector remote control are displayed on the screen. If the pairing screen is not displayed, make sure that the projector and the streaming device are on, then press and hold the ⤺ **Esc** and right arrow buttons on the projector remote control for about 7 seconds.

1. Turn on the projector.
2. Select the correct input source, if necessary.
3. Press and hold the ⌂ **Home** and **Enter** buttons on the projector remote control until the indicator starts blinking.

   A message appears on the screen when the projector remote control is paired.

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.

Note: Your remote control may look different from the illustration below, but the instructions are the same.

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's control panel or remote control. Press the button again to cycle through the sources.
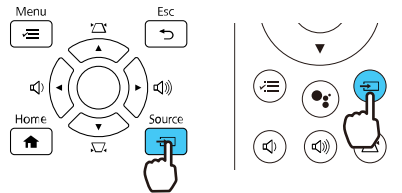
    *   Press the ⌂ **Home** button on the projector's control panel and select your image source.
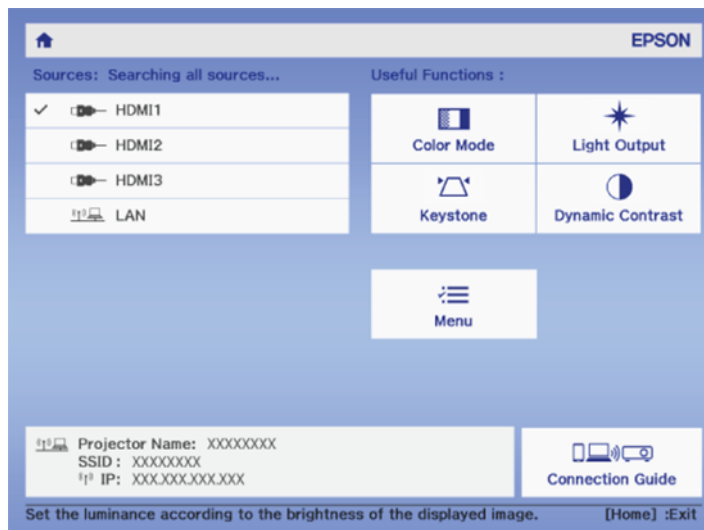
Parent topic: Using Basic Projector Features

Related tasks
Using the Home Screen

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.

Changing the Image Aspect Ratio

Available Image Aspect Ratios

Parent topic: Using Basic Projector Features

Changing the Image Aspect Ratio

You can only change the aspect ratio to resize the displayed image. The input signal must be low resolution.

Note: Aspect setting adjustment is only available when projecting from an HDMI source. You may not be able to change the **Aspect** setting depending on the input signal from the HDMI source. When a 4K image signal is being input, you can only select the **Normal** setting.

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

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

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

Image	3D Setup...	
Signal	Aspect	Auto
	Overscan	Auto
	Color Space	Auto
Settings	Dynamic Range...	
	Advanced...	
Extended		
	Reset	
Network		
Info		
Reset		
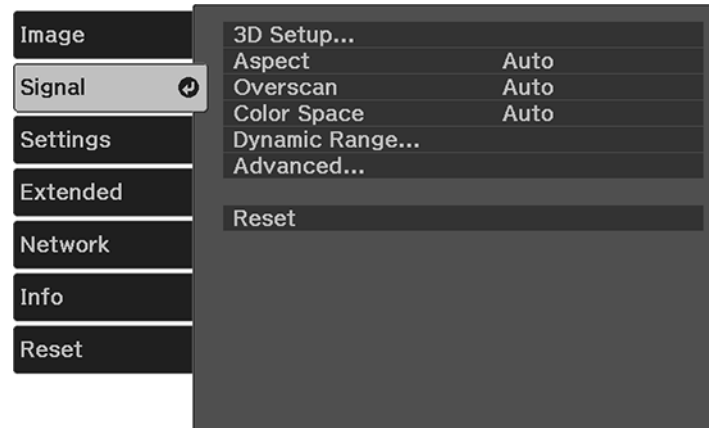
4. Select **Aspect** and press **Enter**.

5. Select the aspect ratio you want to use for your input signal and press **Enter**.

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

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.

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.

Changing the Color Mode
Available Color Modes

Parent topic: Using Basic Projector Features

Changing the Color Mode

You can change the projector's Color Mode 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 **Menu** button on the projector's control panel or remote control.

Image	↵	Color Mode	Dynamic
		Brightness	0
Signal		Contrast	0
		Color Saturation	0
Settings		Tint	0
		Sharpness	
Extended		White Balance...	
		Image Enhancement...	
Network		Advanced...	
		Light Output	0 %
Info		Dynamic Contrast	Off
Reset		Reset	
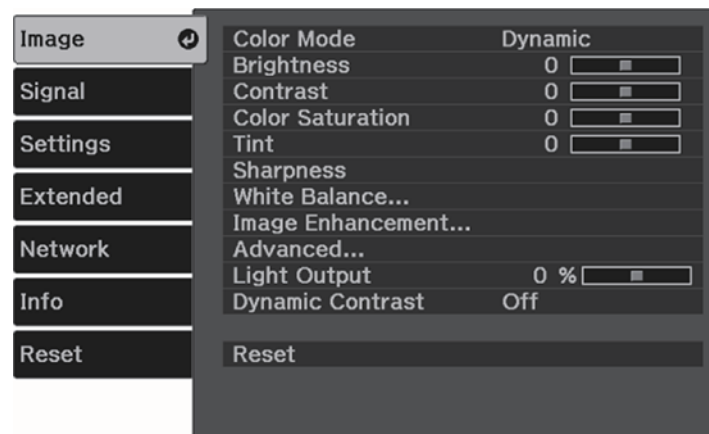
4. Select the **Image** menu and press **Enter**.

5. Select **Color Mode** and press **Enter**.

6. Press the arrow buttons to select a color mode setting and press **Enter**.

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

Parent topic: Color Mode

Available Color Modes

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

Color Mode	Description
Dynamic	Best for video games in a bright room
Bright Cinema	Best for projecting vivid images
Cinema	Best for movies projected in a dark room with natural tone images
Game	Best for gaming

Parent topic: Color Mode

Turning On Automatic Luminance Adjustment

You can turn on the **Dynamic Contrast** setting to automatically optimize the image luminance. This improves the image contrast based on the brightness of the content you project.

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

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

3. Select the **Image** menu and press **Enter**.
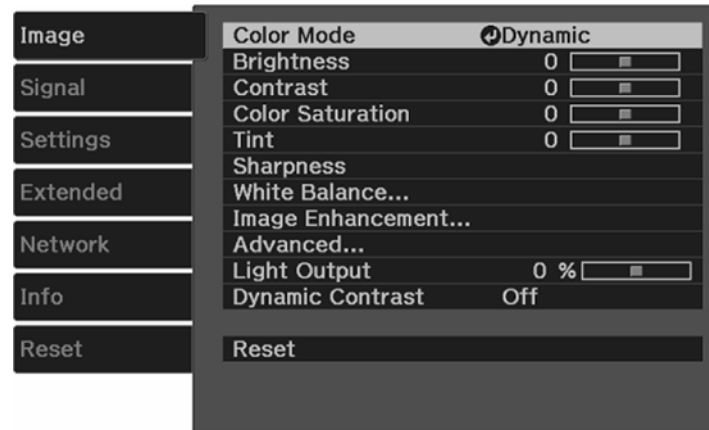
4. Select the **Dynamic Contrast** setting, choose one of the following options, and press **Enter**:

   • **Normal** to adjust brightness at the standard speed.

   • **High Speed** to adjust brightness as soon as the scene changes.

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

Related references

Image Quality Settings - Image Menu

Adjusting Gamma

You can adjust the gamma to improve differences in halftone brightness that vary depending on the connected device.

Note: Project a still image to adjust the gamma; you cannot adjust it properly when projecting a movie or other moving video. Medical images may not reproduce correctly depending on your operating environment and screen.

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 **Gamma** setting and press **Enter**.

    You see a screen like this:
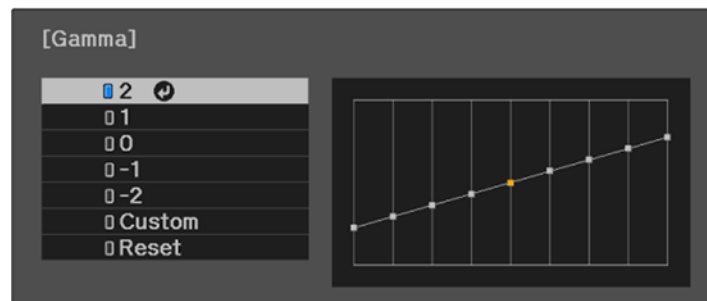
5. Select and adjust the correction value.

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

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

You see a screen like this:
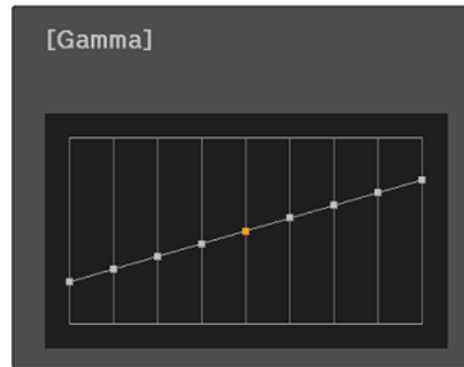
7. Press the left or right arrow button to select the tone you want to change, then press the up or down arrow button to adjust the tone and press **Enter**.

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

Parent topic: Using Basic Projector Features

Related references

Image Quality Settings - Image Menu

Controlling the Volume with the Volume Buttons

You can use the **Volume** buttons on the projector or the remote control to adjust the volume of your projected content. The volume buttons control the projector's internal speaker system or any external speakers you connected to the projector.

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

Note: Your remote control may differ from the illustration below, but the instructions are the same.

1. Turn on the projector and start a presentation that includes audio.

2. To lower or raise the volume, press the volume buttons on the projector's control panel or remote control.
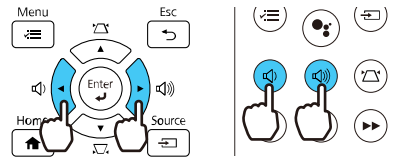
3. To set the volume to a specific level for an input source, use the projector menus.

Parent topic: Using Basic Projector Features

Adjusting Projector Features

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

Operating Connected Devices Using the HDMI Link Features
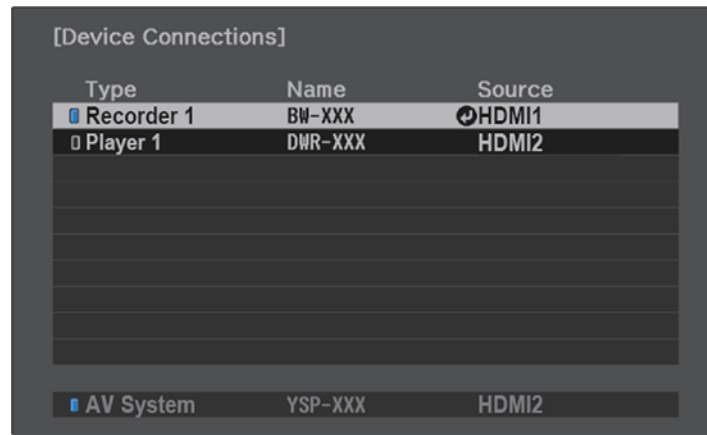
You can use the remote control to control certain features of devices connected to the projector's HDMI ports.

1. Press the ⏏️ **Menu** button on the projector's control panel or remote control.

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

Image	Installation Guide	⊘
	Keystone	H/V-Keystone
Signal	Blanking	
	Zoom	
Settings	Image Shift	
	Volume	0
Extended	HDMI Link...	
	Lock Setting...	
Network	Memory...	
Info		
	Reset	
Reset		

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

4. Select **HDMI Link** and press ↵ **Enter**.

5. Select **On** and press ↺ **Esc**.

6. Select **Device Connections** and press ↵ **Enter**.

You see this screen:

[Device Connections]

Type	Name	Source
▪ Recorder 1	BW-XXX	⊙HDMI1
▫ Player 1	DWR-XXX	HDMI2

▪ AV System   YSP-XXX   HDMI2

Note: Linked devices are indicated in blue.

7. Select the device you want to control and project images from, and press ↵ **Enter**.

8. Select the following HDMI link options as necessary:

   • **Audio Out Device**: select whether to output audio from the internal speakers or a connected audio/video system.

   • **Power On Link**: select what happens when you turn on the projector or linked device. Select **PJ - > Device or Bidirectional** to turn the linked device on when the projector is turned on, or **Device - > PJ or Bidirectional** to turn the projector on when the linked device is turned on.

   • **Power Off Link**: select whether linked devices are turned off when the projector is turned off.

   • **Link Buffer**: turn on to improve the performance of the linked operations by changing the settings if the HDMI Link feature is not working correctly.

9. When you are finished, press ↰ **Esc**.

Parent topic: Adjusting Projector Features

Shutting Off the Picture and Sound Temporarily

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

Note: Your remote control may differ from the illustration below but the steps are still the same.

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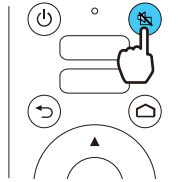
2. To turn the picture and sound back on, press **A/V Mute** again.

Parent topic: Adjusting Projector Features

Projector Security Features

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

• Button lock security to block operation of the projector using the buttons on the control panel.

• Security cabling to physically cable the projector in place.

Locking the Projector's Lens Settings and Buttons
Installing a Security Cable

Parent topic: Adjusting Projector Features

Locking the Projector's Lens Settings and Buttons

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

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

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

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

Image		Installation Guide	⊘
		Keystone	H/V-Keystone
Signal		Blanking	
		Zoom	
Settings		Image Shift	
		Volume	0 ▭ ▪ ▭
Extended		HDMI Link...	
		Lock Setting...	
Network		Memory...	
Info		Reset	
Reset			
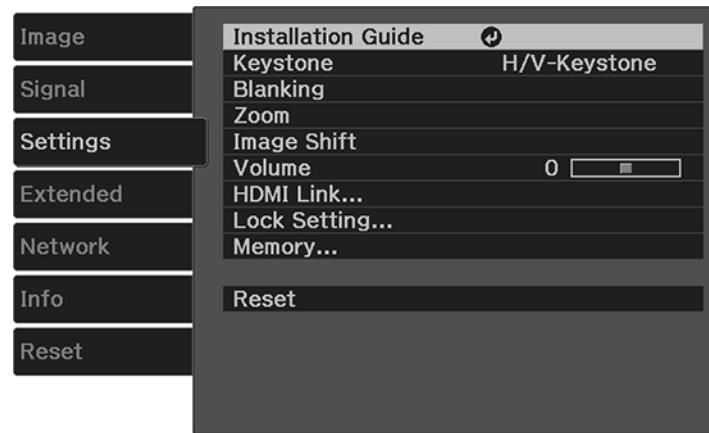
3. Select the **Lock Setting** setting and press **Enter**.

4. Select one of these lock types and press **Enter**:

   • To lock the projector's power button, select **Child Lock**. This setting is enabled once the projector is turned off. To turn the projector on, you must press the projector's 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, select **Control Panel Lock** > **Full Lock**. This setting is enabled once you exit the configuration menu.

   • To lock all buttons except the power button, select **Control Panel Lock** > **Partial Lock**. This setting is enabled once you exit the configuration menu.

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

   You see a confirmation prompt.

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

Unlocking the Projector's Buttons

Parent topic: Projector Security Features

Unlocking the Projector's Buttons

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

Parent topic: Locking the Projector's Lens Settings and Buttons

Related references

Projector Feature Settings - Settings Menu

Installing a Security Cable

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

• Use the security slot on the projector to attach a Kensington lock. See your local computer or electronics dealer for purchase information.

• Use the security cable attachment point on the projector to attach a wire cable and secure it to a room fixture or heavy furniture.
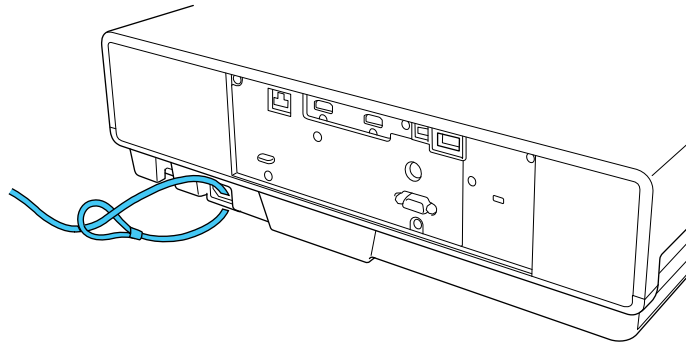
Parent topic: Projector Security Features

Using Advanced Image Adjustment Features

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

Creating Image Presets
Adjusting Detail Enhancement
Adjusting the Color Convergence (Panel Alignment)

Parent topic: Adjusting Projector Features

Creating Image Presets

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

You can save the following settings in a preset:

- Frame Interpolation
- Deinterlacing
- Noise Reduction
- MPEG Noise Reduction
- Super-resolution
- Detail Enhancement

Note: Some settings may be unavailable depending on the input signal type.

1. Press the **Menu** button.

   You see a screen like this:
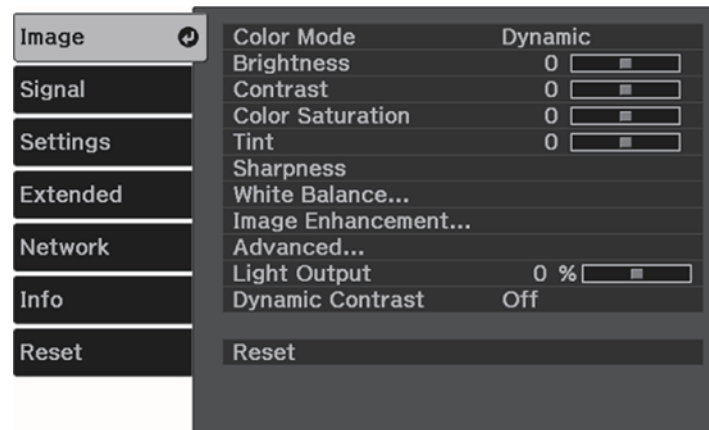
2. Select the **Image** menu and press **Enter**.

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

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

[Image Preset Mode]

- Off
- Preset 1
- Preset 2
- Preset 3
- Preset 4
- Preset 5
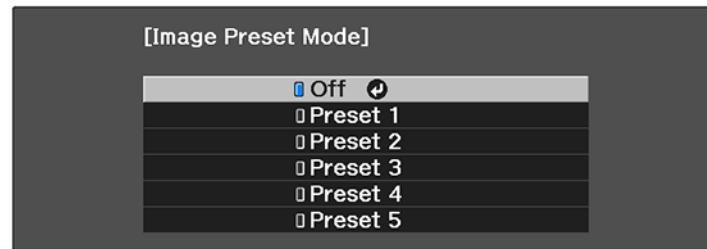
5. Select one of the presets and press **Enter**.

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

6. Press **Esc** to return to the Image Enhancement menu.

7. Fine-tune the following settings:
   - Frame Interpolation
   - Deinterlacing (depends on the signal)
   - Noise Reduction
   - MPEG Noise Reduction
   - Super-resolution
   - Detail Enhancement

   Note: You can select **Image Preset Mode** and toggle between **Off** and the preset you were adjusting to quickly check the effects of the settings. The effect of a preset can vary depending on the input signal type.

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

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

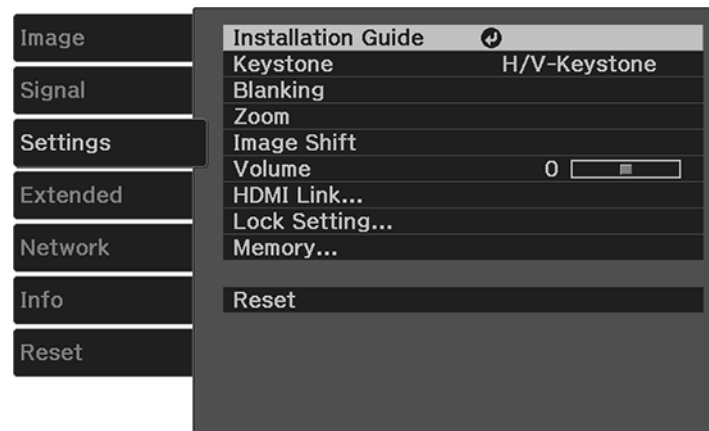**Parent topic:** Using Advanced Image Adjustment Features

Related references

Image Quality Settings - Image Menu

Adjusting Detail Enhancement

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

Note: This feature may not be available depending on the projection mode and input signal.

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

    You see a screen like this:

Image	Color Mode	⊙Dynamic
Signal	Brightness	0
	Contrast	0
	Color Saturation	0
Settings	Tint	0
	Sharpness	
Extended	White Balance...	
	Image Enhancement...	
Network	Advanced...	
	Light Output	0 %
Info	Dynamic Contrast	Off
Reset	Reset	
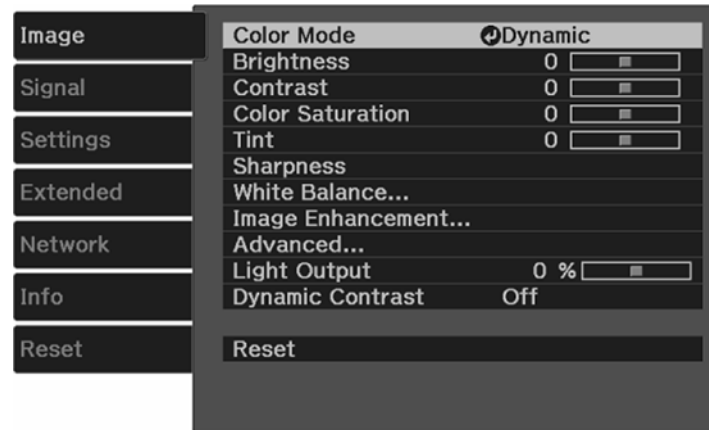
3. Select the **Image** menu and press **Enter**.
4. Select the **Image Enhancement** setting and press **Enter**.
5. Select the **Detail Enhancement** setting and press **Enter**.
6. Adjust each of the following options as necessary:
    *   **Strength** to adjust the image contrast
    *   **Range** to adjust the enhanced area of the image

    Note: Higher values increase the intensity of the effect.

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

Parent topic: Using Advanced Image Adjustment Features

Adjusting the Color Convergence (Panel Alignment)

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

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

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. For best results, project an image sized at least 60 inches (152 cm) diagonally in a dark room and on a projection surface that is not colored or textured.

1. Turn on the projector.

2. Press the **Menu** button.

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

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

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

Image	[Panel Alignment]	
	Panel Alignment	⊙On
Signal	Select Color	R
	Pattern Color	R/G/B
Settings	Start Adjustments	
	Memory...	
Extended		
	Reset	
Network		
Info		
Reset		
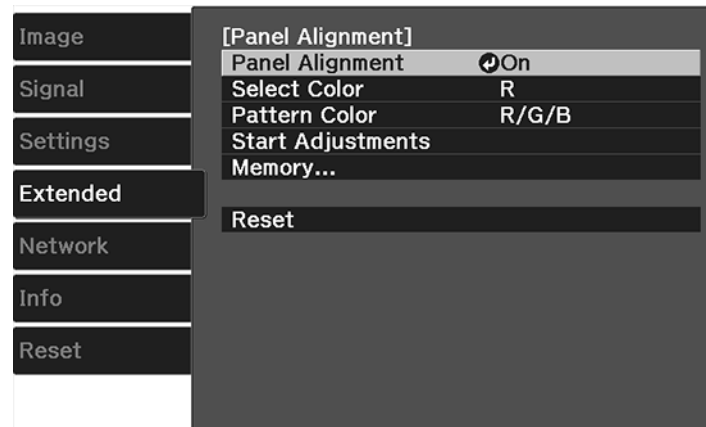
6. Select the **Panel Alignment** setting and press **Enter**.

7. Select **On** and press **Enter**.

8. 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.

9. Select the **Pattern Color** setting and press **Enter**.

10. Select the pattern you want to use and press **Enter**.

11. Select **Start Adjustments** and press **Enter**.

    You see this screen:

    [Panel Alignment]

    Starting adjustments.

    Shift the whole panel
    Adjust the four corners
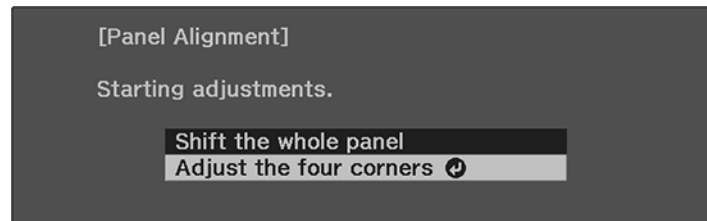
12. Select one of the following:

    - Select **Shift the whole panel** to adjust the whole panel at the same time. (This is not recommended, as usually only certain areas of the panel need to be adjusted.) Continue with step 13.

    - Select **Adjust the four corners** to adjust the corners of the panel one at a time. Skip to step 16.

13. Press **Enter**.

You see a screen like this:
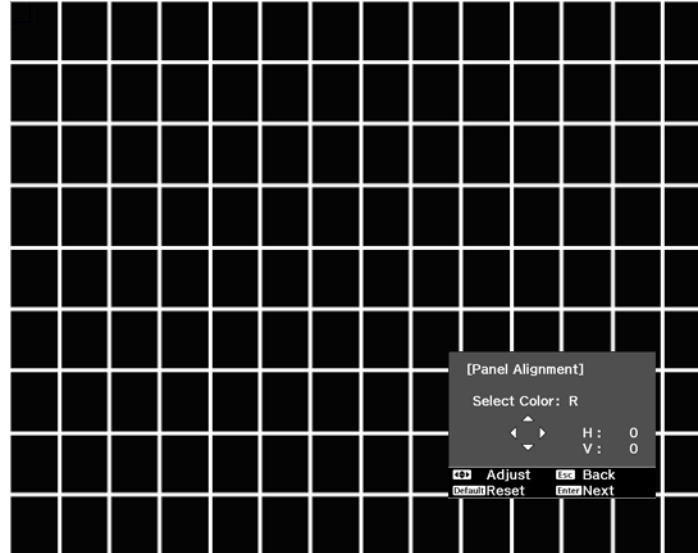
14. Use the arrow buttons on the remote control to adjust the color alignment of the color you selected for the **Select Color** setting.

15. When you are finished adjusting the screen, press **Enter**.

You see this screen:
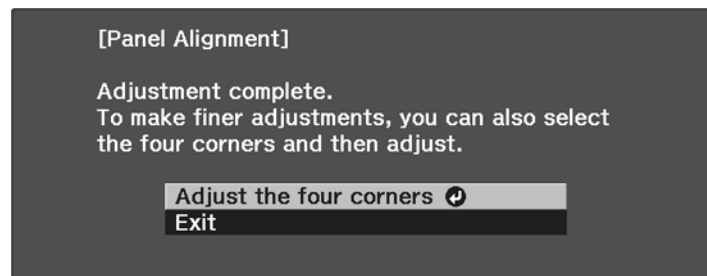
Note: The **Shift the whole panel** option affects the grid lines in the entire screen. To fine-tune your adjustments, continue with the next steps.

16. Select **Adjust the four corners** and press **Enter**. (Otherwise, select **Exit** and press **Enter**.)

17. Use the arrow buttons on the remote control to adjust the color alignment in the corner of the screen highlighted by the orange box.
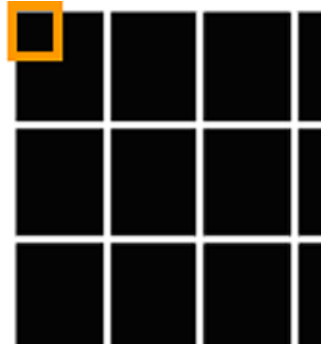
18. Press the **Enter** button to move to the next corner of the screen.

19. When you are finished adjusting each corner of the screen, press **Enter**.

    You see this screen:
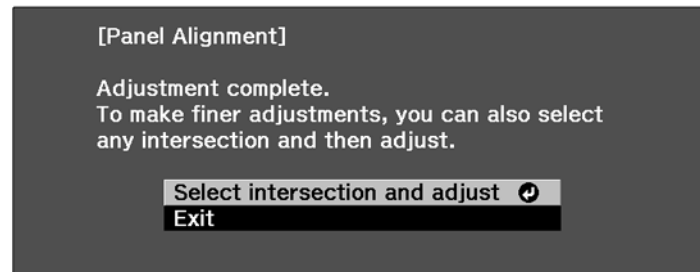
20. Do one of the following:

    • 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 misaligned box on the screen, press **Enter**, make any necessary adjustments and press **Enter** again. Repeat this step as necessary for the other intersections.

Parent topic: Using Advanced Image Adjustment Features

Related references

Projector Setup Settings - Extended Menu

Adjusting the Color Tone (Color Uniformity)

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

1. Press the **Menu** button.

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

Image	Home Screen...	⏱
	Display...	
Signal	Projection	Front
	Operation...	
Settings	Standby Mode	Communication Off
	Language 🌐	English
Extended		
	Reset	
Network		
Info		
Reset		
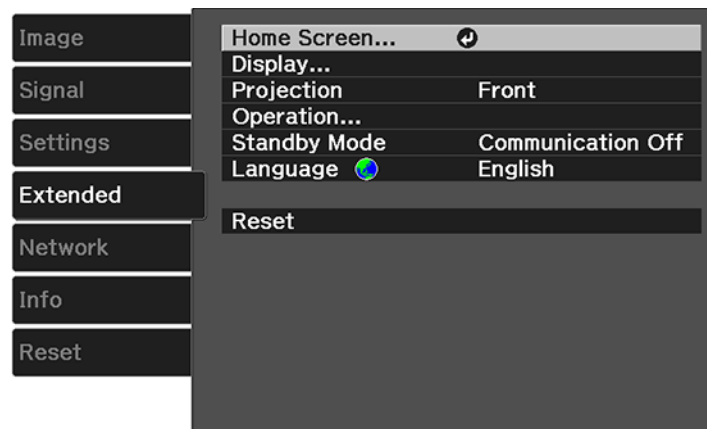
3. Select the **Display** setting and press **Enter**.

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

You see this screen:

```
Image              [Color Uniformity]
                   Color Uniformity      On
Signal             Adjustment Level      5/8  [    ■    ]
                   Start Adjustments
Settings
                   Reset
Extended

Network

Info

Reset
```
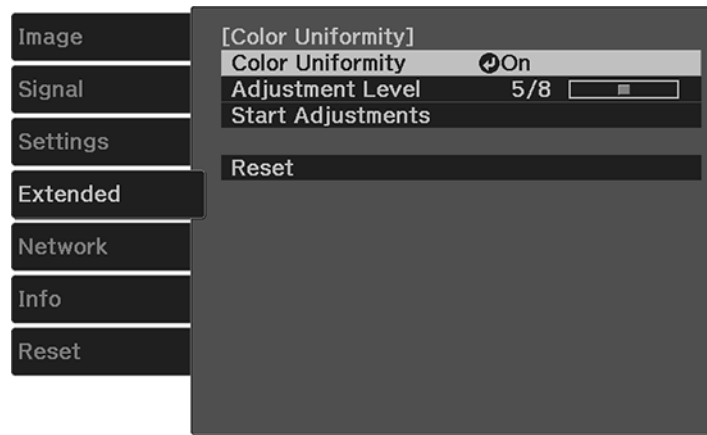
5. Press **Enter** and select **On**.

6. Press **Esc**.

7. Select the **Adjustment Level** setting and press **Enter**.

8. Press the right and left arrow buttons to adjust the level, and press **Esc**.

9. Select the **Start Adjustments** setting and press **Enter**.

```
[Color Uniformity]

   Top Left
   Top
   Top Right
   Right
   Bottom Right
   Bottom
   Bottom Left
   Left
   All
```

10. Select the area of the screen that you want to adjust and press **Enter**.

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

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

12. Press **Esc**.

13. Repeat steps 10 and 11 for each area you want to adjust.

14. Repeat steps 7 to 11 for each adjustment level.

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

Parent topic: Using Advanced Image Adjustment Features

Saving Settings to Memory and Using Saved Settings

You can save customized settings from the **Image** menu 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** setting and press **Enter**.

   You see this screen:
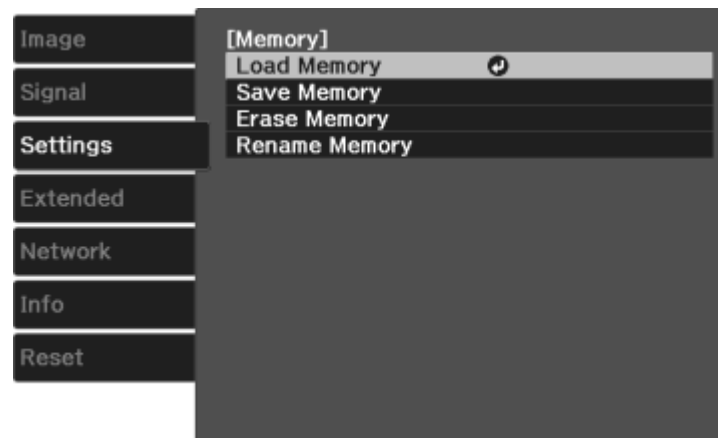
5. Select one of the following options:

   • **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 blue mark. Saving over a previously saved memory overwrites the settings with your current settings.

- **Erase Memory**: Erases the selected memory settings
- **Rename Memory**: Renames a saved memory

6. Press **Esc** to exit.

Parent topic: Adjusting Projector Features

Adjusting the Menu Settings

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

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

Using the Projector's Menus

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

Note: Your remote control may look different than the illustration below but the operation is the same.

1. Press the **Menu** button on the control panel or remote control.
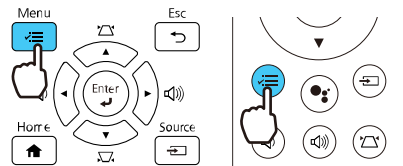
You see the menu screen displaying the Image menu settings.

Image	↵	Color Mode	Dynamic
		Brightness	0 ▭
Signal		Contrast	0 ▭
		Color Saturation	0 ▭
Settings		Tint	0 ▭
		Sharpness	
Extended		White Balance...	
		Image Enhancement...	
Network		Advanced...	
		Light Output	0 % ▭
Info		Dynamic Contrast	Off
Reset		Reset	
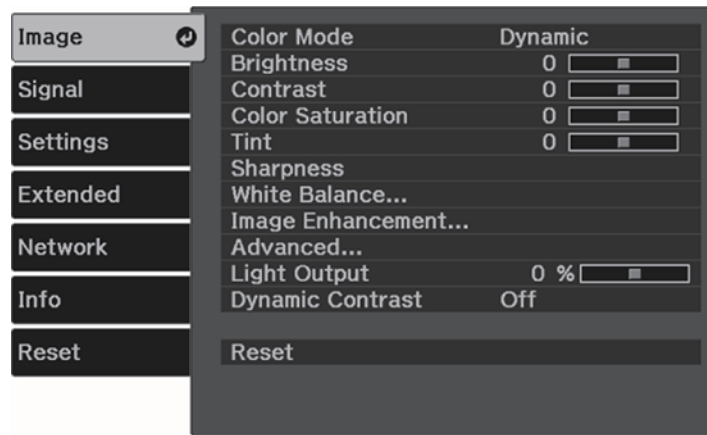
2. Press the up or down arrow button to move through the menus listed on the left. The settings for each menu are displayed on the right.

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

3. To change settings in the displayed menu, press **Enter**.

4. Press the up or down arrow button to move through the settings.

5. Change the settings using the buttons listed on the bottom of the menu screens.

6. To return all the menu settings to their default values, select **Reset**.

7. When you finish changing settings on a menu, press **Esc**.

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

Parent topic: Adjusting the Menu Settings

Image Quality Settings - Image Menu

Settings on the Image menu let you adjust the quality of your image for the input source you are currently using. The available settings depend on other settings, the input signal, and the currently selected input source.
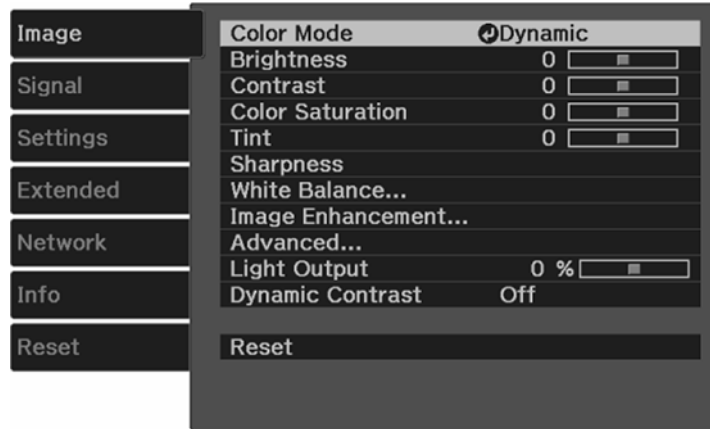
```
Image          Color Mode          ⊘Dynamic
               Brightness              0 [___■___]
Signal         Contrast                0 [___■___]
               Color Saturation        0 [___■___]
Settings       Tint                    0 [___■___]
               Sharpness
Extended       White Balance...
               Image Enhancement...
Network        Advanced...
               Light Output          0 % [_____■__]
Info           Dynamic Contrast      Off

Reset          Reset
```

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

Setting	Options	Description
Color Mode	See the list of available Color Modes	Adjusts the vividness of image colors for various image types and environments
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	Varying levels available	Adjusts the sharpness or softness of image details

Setting	Options	Description
White Balance	Color Temp. G-M Correction Custom Grayscale	Sets the overall color tone of the image **Color Temp.**: sets the color temperature according to the selected color mode; lower values tint the image red, and higher values tint the image blue **G-M Correction**: makes fine adjustments to the color tone; higher values tint the image green and lower values tint the image red **Custom**: adjusts the individual RGB components of the offset and gain **Grayscale**: adjusts the red, green, blue, and brightness for the selected adjustment level
Image Enhancement	—	Adjusts the resolution of the image. See the table below for Image Enhancement options
Advanced	Gamma RGBCMY	**Gamma**: adjusts the colors by selecting one of the gamma correction values, referring to the projected image, or a gamma graph **RGBCMY**: adjusts the hue, saturation, and brightness for each color
Light Output	Varying levels available	Sets the brightness for the light source
Dynamic Contrast	Off Normal High Speed	Adjusts the projected luminance based on the image brightness when certain Color Modes are selected

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

Image Enhancement Options

Options	Description
4K Enhancement	Projects at a doubled resolution
Image Preset Mode	Selects preset settings for Frame Interpolation, Deinterlacing, Noise Reduction, MPEG Noise Reduction, Super-resolution, and Detail Enhancement
Frame Interpolation	Adjusts the smoothness of image movement
Deinterlacing	Reduces flickering in analog images (only available when Image Processing is set to Fine or when receiving a 480i, 576i, or 1080i signal from one of the HDMI ports)
Noise Reduction	Reduces flickering in analog images
MPEG Noise Reduction	Smooths out rough images in MPEG format
Super-resolution	Adjusts the amount of enhancement for complicated images and backgrounds • **Fine Line Adjust**: enhances the contrast and the outlines of complicated images • **Soft Focus Detail**: enhances the contrast and the outlines for smooth backgrounds
Detail Enhancement	Creates a more textured image • **Strength**: the larger the value, the stronger the contrast • **Range**: the larger the value, the wider the range of detail enhancement becomes

Parent topic: Adjusting the Menu Settings

Input Signal Settings - Signal Menu

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

Image	3D Setup...	
Signal	Aspect	Auto
	Overscan	Auto
Settings	Color Space	Auto
	Dynamic Range...	
Extended	Advanced...	
Network	Reset	
Info		
Reset		

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

Setting	Options	Description
3D Setup	**3D Display** **3D Format** **3D Depth** **Diagonal Screen Size** **3D Brightness** **Inverse 3D Glasses** **3D Viewing Notice**	**3D Display**: Select **Auto** or **3D** to enables 3D image projection **3D Format**: Sets the 3D format for the input signal **3D Depth**: Sets the depth for the 3D image **Diagonal Screen Size**: Sets the projection size for the 3D image to optimize the 3D effect **3D Brightness**: Sets the brightness for the 3D image **Inverse 3D Glasses**: reverses the synchronization timing for the left/right shutters on the 3D glasses and the left/right images. Enable this function if the 3D effect is not displayed correctly **3D Viewing Notice**: Toggles a notice to appear when viewing 3D content
Aspect	**Auto** **Normal** **Full** **Zoom**	Sets the available aspect mode for the selected input source
Overscan	**Auto** **Off** **4%** **8%**	Changes the projected image ratio to make the edges visible by a selectable percentage or automatically
Color Space	**Auto** **BT.709** **BT.2020**	Sets the conversion system for the color space

Setting	Options	Description
Dynamic Range	**Dynamic Range** **Signal Status** **HDR10 Setting** **HLG Setting**	**Dynamic Range**: changes the range of dark and bright areas in images **Signal Status**: displays the image signal **HDR10 Setting**: changes the PQ curve of the dynamic range using the HDR PQ method **HLG Setting**: changes the HLG curve of the dynamic range using the HDR HLG method
Advanced	**Video Range** **EDID** **Image Processing**	**Video Range**: sets the video range to match the setting of the device connected to the HDMI input port • **Auto**: detects the video range automatically • **Limited**: normally for images from a device other than a computer; select if the black areas of the image are too bright • **Full**: normally for images from a computer; select if the image is too dark **EDID**: selects the EDID settings • **Expanded**: supports 3840 × 2160 60 Hz signals • **Normal**: supports 3840 × 2160 30 Hz signals • **21:9**: supports 2560 × 1080 60 Hz signals **Image Processing**: improves the response speed for images projected at high speed

Parent topic: Adjusting the Menu Settings

Projector Feature Settings - Settings Menu

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

Image	Installation Guide ⏎
Signal	Keystone H/V-Keystone
	Blanking
Settings	Zoom
	Image Shift
Extended	Volume 0 ▣
	HDMI Link...
Network	Lock Setting...
	Memory...
Info	
	Reset
Reset	
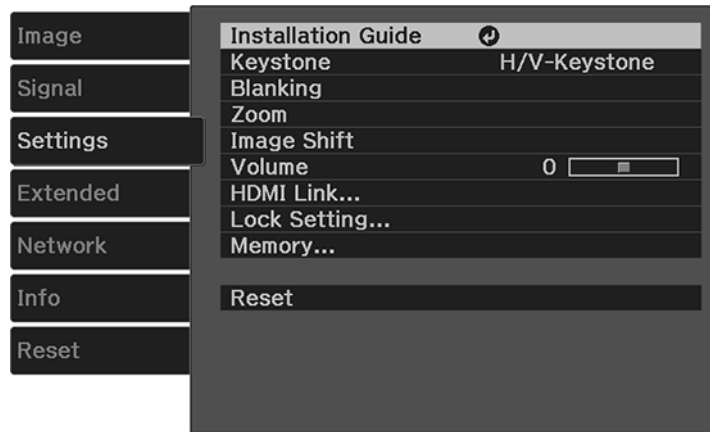
Setting	Options	Description
Installation Guide	—	Displays an on-screen guide with instructions for installing and positioning the projector.
Keystone	**H/V-Keystone** **Quick Corner**	Adjusts image shape to rectangular (horizontally and vertically) **H/V-Keystone**: lets you manually correct horizontal and vertical sides **Quick Corner**: select to correct image shape and alignment using an on-screen display
Blanking	Varying levels available	Covers part of the image with a blank (black screen). You can set the top, bottom, left, or right of the image

Setting	Options	Description
Zoom	Varying levels available	Adjusts the size of the projected image
Image Shift	Varying positions available	Adjusts the position of the projected image (not available if the image is zoomed all the way in)
Volume	Varying levels available	Adjusts the volume of projector's speaker system or external speakers
HDMI Link	**Device Connections** **HDMI Link** **Audio Out Device** **Power On Link** **Power Off Link** **Link Buffer**	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**, **HDMI2 (ARC)**, and **HDMI3** ports **HDMI Link**: enables or disables the HDMI Link feature **Audio Out Device**: selects whether to output audio from the internal projector speakers or a connected audio/video system **Power On Link**: controls what happens when you turn on the projector or a linked device **Power Off Link**: controls whether linked devices are turned off when the projector is turned off **Link Buffer**: improves the performance of operations when the HDMI Link feature is not working correctly

Setting	Options	Description
Lock Setting	**Child Lock** **Control Panel Lock**	Controls projector button locking to secure the projector **Child Lock**: locks the power button on the projector's control panel to prevent children from turning the projector on by accident. **Control Panel Lock**: • **Full Lock**: locks all buttons • **Partial Lock**: locks all buttons except the ⏻ **Power** button • **Off**: no buttons locked
Memory	**Load Memory** **Save Memory** **Erase Memory** **Rename Memory**	Save settings and manage saved settings • **Load Memory**: loads a memory preset saved in Save Memory to adjust the image settings • **Save Memory**: saves the settings made in the Image menu to a memory preset • **Erase Memory**: erases a memory preset • **Rename Memory**: renames a memory preset

Parent topic: Adjusting the Menu Settings

Projector Setup Settings - Extended Menu

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

Setting	Options	Description
Home Screen	**Home Screen Auto Disp.** **Custom Function 1** **Custom Function 2**	Adjusts settings on the Home Screen **Home Screen Auto Disp.**: controls whether the Home screen displays automatically when the projector is turned on **Custom Function 1** and **Custom Function 2**: let you customize the options displayed on the Home screen and save your settings as a preset

Setting	Options	Description
Display	**Messages**	Selects various display options
	Display Background	**Messages**: controls whether messages are displayed on the screen
	Startup Screen	
	Standby Confirmation	**Display Background**: selects the screen color or logo to display when no signal is received
	Panel Alignment	
	Color Uniformity	
		Startup Screen: controls whether a special screen appears when the projector starts up
		Standby Confirmation: sets whether to show a confirmation screen before turning off the projector
		Panel Alignment: Corrects color misalignment in the projected image
		Color Uniformity: adjusts the color tone balance
Projection	**Front**	Selects the way the projector faces the screen so the image is oriented correctly
	Front/Upside Down	

Setting	Options	Description
Operation	**Direct Power On**	Selects various operation options
	Sleep Mode	**Direct Power On**: turns on the projector when you plug it in
	Sleep Mode Timer	
	Illumination	**Sleep Mode**: select On to place the projector in standby mode after a certain interval of inactivity
	High Altitude Mode	
	Quick Startup	**Sleep Mode Timer**: sets the sleep mode internal between 1 and 30 minutes
	USB Power in Standby	
	Log Save Destination	**Illumination**: turns off the indicators on the projector
		High Altitude Mode: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m)
		Quick Startup: the projector enters this mode when you turn it off; you can start projecting in about five seconds by pressing the ⏻ **Power** button
		USB Power in Standby: Sends power to the connected device even if the projector is in standby mode (when the power is off). If the internal temperature of the projector gets too high, the power supply may stop automatically.
		This feature is not available in all countries.
		Log Save Destination: sets where you want to save the internal projector information logs

Setting	Options	Description
Standby Mode	Communication On Communication Off	Allows the projector to be monitored over a network even when turned off
Language	Various languages available	Selects the language for projector menu and message displays

Parent topic:

Projector Network Settings - Network Menu

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

Note: The optional wireless LAN module is required for wireless networking.
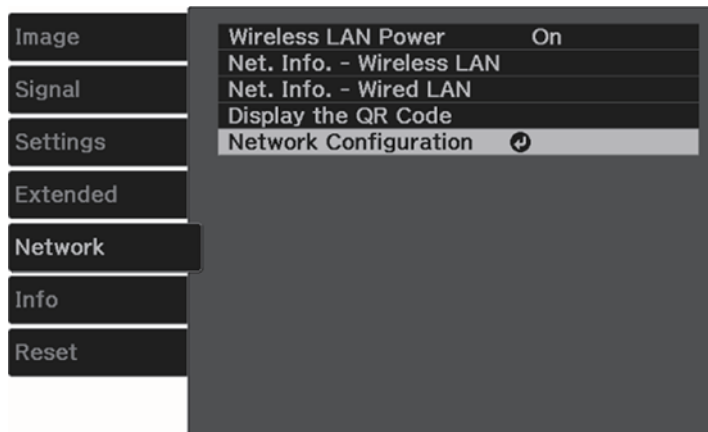
Setting	Options	Description
Wireless LAN Power	On Off	Enables or disables wireless communication

Setting	Options	Description
Net. Info - Wireless LAN	**Connection Mode** **Wireless LAN system** **Antenna Level** **Projector Name** **SSID** **DHCP** **IP Address** **Subnet Mask** **Gateway Address** **MAC Address** **Region Code**	Displays wireless network status and details
Net. Info - Wired LAN	**Projector Name** **DHCP** **IP Address** **Subnet Mask** **Gateway Address** **MAC Address**	Displays wired network status and details
Display the QR Code	—	Displays the QR code for quick connection to a mobile device
Network Configuration	Accesses additional network menus	Configures your network settings

Parent topic: Adjusting the Menu Settings

Projector Information Display - Info Menu

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

Image	Projector Info
Signal	Light Source Info
	Version
Settings	
Extended	
Network	
Info ⊘	
Reset	
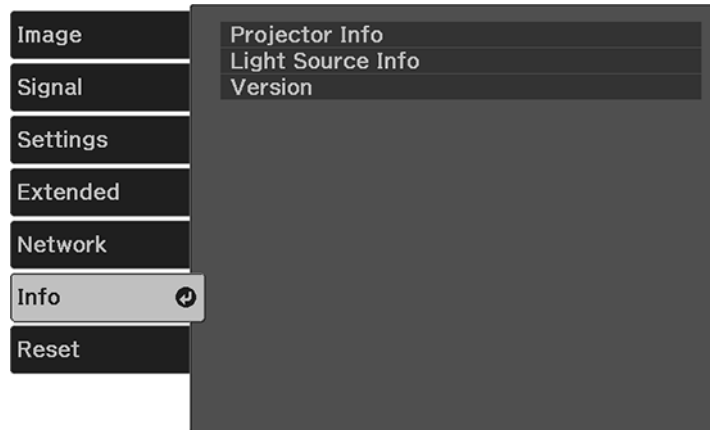
Select **Version** to display the projector's firmware version. Select **Light Source Info** to display the projector's light source information. Select **Projector Info** to display the settings described below.

Information item	Description
Operation Hours	Displays the number of hours (**H**) the projector has been used since it was turned on
Source	Displays the name of the port to which the current input source is connected
Input Signal	Displays the input signal setting of the current input source
Resolution	Displays the resolution of the current input source
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 input signal during 3D projection
Sync Info	Displays image signal information that may be needed by a service technician

Information item	Description
Color Depth	Displays the color depth and color difference
Color Format	Displays information on the Color Space and Dynamic Range
Status	Displays information about projector problems that may be needed by a service technician
Serial Number	Displays the projector's serial number
Event ID	Displays the Event ID number corresponding to a specific projector problem; see the list of Event ID codes

Event ID Code List

Parent topic: Adjusting the Menu Settings

Event ID Code List

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

Event ID code	Cause and solution
0432	The network software did not start. Turn the projector off and then on again.
0435	
0433	Cannot display the transferred images. Restart the network software.

Event ID code	Cause and solution
0022	Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0027	
0028	
0029	
0030	
0031	
0035	
0434	
0481	
0482	
0485	
0484	Communication with computer was disconnected. Restart the network software.
04FE	The network software quit unexpectedly. Check the network communication status, then turn the projector off and then on again.
0479	A projector system error has occurred. Turn the projector off and then on again.
04FF	
0891	Cannot find the SSID (network name). Make sure your computer and projector are connected to your access point's current SSID.
0892	The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.
0894	Communication with unauthorized access point was disconnected. Contact your network administrator.
0898	Failed to acquire DHCP address. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the **DHCP** setting in the Network menus.

Event ID code	Cause and solution
0020	A communication error has occurred. Try restarting the network software and restarting your projector. If that does not solve the problem, contact Epson for help.
0026	
0032	
0036	
0037	
0038	
0899	

Parent topic:

Projector Reset Options - Reset Menu

You can reset the Memory settings using the **Reset Memory** option and reset most of the projector settings to their default values using the **Reset All Config** option on the Reset menu.
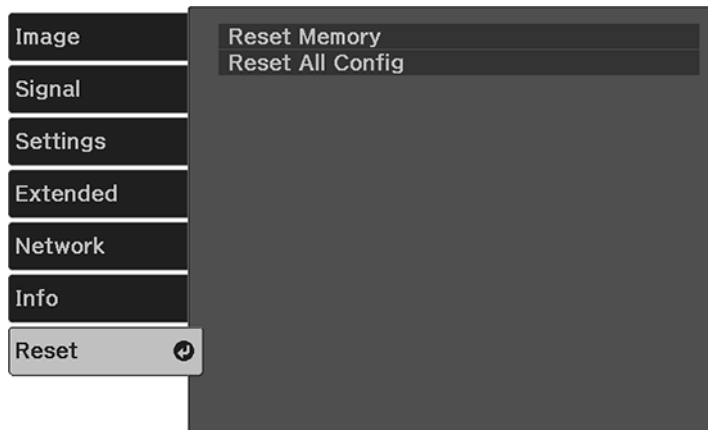
You cannot reset the following settings using the **Reset All Config** option:

- Zoom
- Image Shift
- Memory

- Panel Alignment
- Color Uniformity
- Operation Hours
- Language
- Network Settings

Parent topic: Adjusting the Menu Settings

Maintaining and Transporting the Projector

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

Projector Maintenance
Air Filter and Vent Maintenance
Replacing the Remote Control Batteries
Transporting the Projector

Projector Maintenance

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

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

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

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

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

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

Cleaning the Lens
Cleaning the Projector Case

Parent topic: Maintaining and Transporting the Projector

Cleaning the Lens

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

• To remove dust or smudges, gently wipe the lens with a cloth meant for cleaning glasses and lenses.

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

  Warning: Do not use a lens cleaner that contains flammable gas. The high heat generated by the projector may cause a fire.

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

Parent topic: Projector Maintenance

Related tasks
Turning Off the Projector

Cleaning the Projector Case

Before cleaning the projector case, turn off the projector and unplug the power cord.

- To remove dust or dirt, use a soft, dry, lint-free cloth.

- To remove stubborn dirt, use a soft cloth moistened with water and mild soap. Do not spray liquid directly on the projector.

  Caution: Do not use wax, alcohol, benzine, paint thinner, or other chemicals to clean the projector case. These can damage the case. Do not use canned air, or the gases may leave a flammable residue.

Parent topic: Projector Maintenance

Related tasks
Turning Off the Projector

Air Filter and Vent Maintenance

Regular filter maintenance is important to maintaining your projector. Your Epson projector is designed with an easily accessible, user-replaceable filter to protect your projector and make regular maintenance simple. Filter maintenance intervals will depend on the environment.

If regular maintenance is not performed, your Epson projector will notify you when the temperature inside the projector has reached a high level. Do not wait until this warning appears to maintain your projector filter as prolonged exposure to high temperatures may reduce the life of your projector or laser.

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

Cleaning the Air Filter and Vents

Replacing the Air Filter

Parent topic: Maintaining and Transporting the Projector

Cleaning the Air Filter and Vents

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

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

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

2. Lift the projector on the side of the air filter.
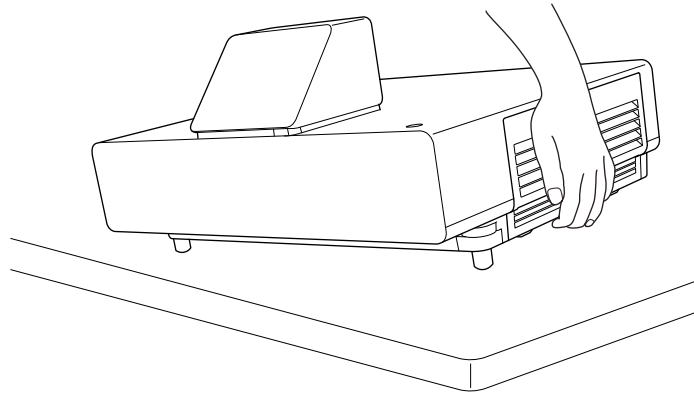
3. Loosen the screws securing the air filter cover and remove the air filter cover.
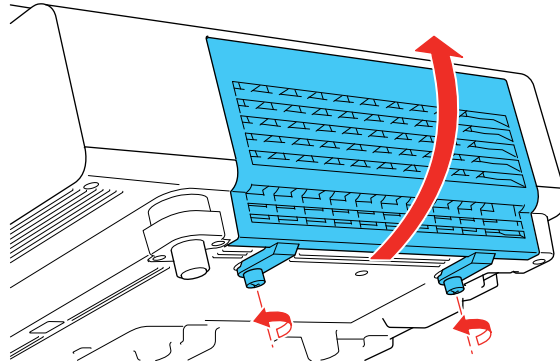
4. Set the projector down.
5. Pull the air filter out of the projector.
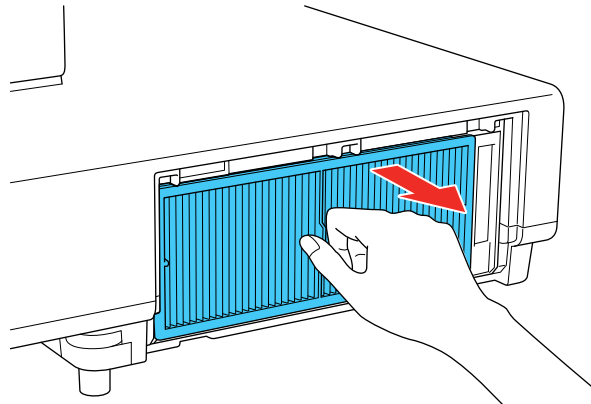
6. Tap each side of the filter 4 to 5 times to shake off any excess dust. Do this outside the room or away from the projector.
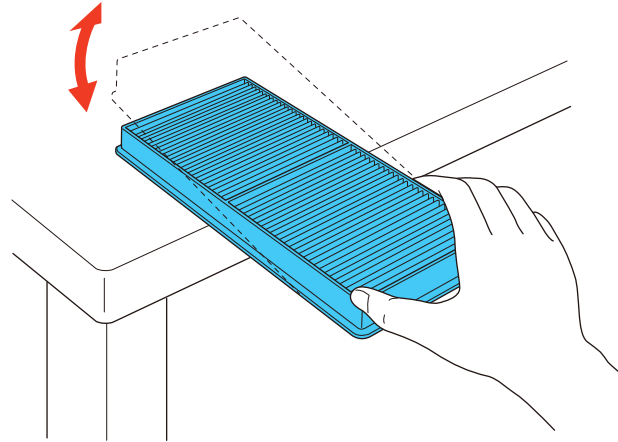
Caution: Do not use excessive force when tapping the air filter, or it may crack and become unusable. Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not use canned air; the gases may leave a flammable residue, or push dust and debris into the projector's optics or other sensitive areas.

7. Vacuum the front of the air filter (the side with the tabs) to remove any remaining dust.
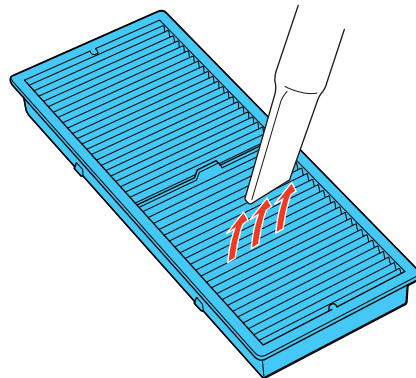
Note: If dust is difficult to remove or the air filter is damaged, replace the air filter.

8. Place the air filter back in the projector as shown.
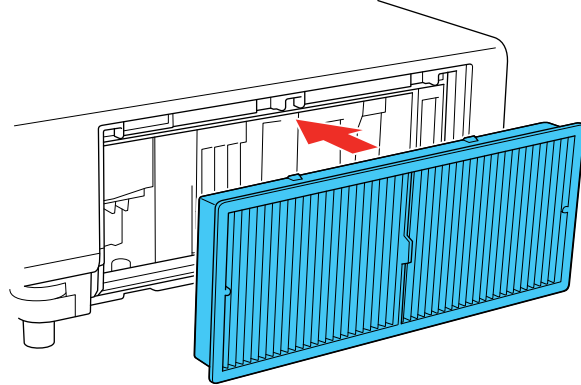
9. Lift the projector on the side of the air filter, close the air filter cover, and tighten the screws.
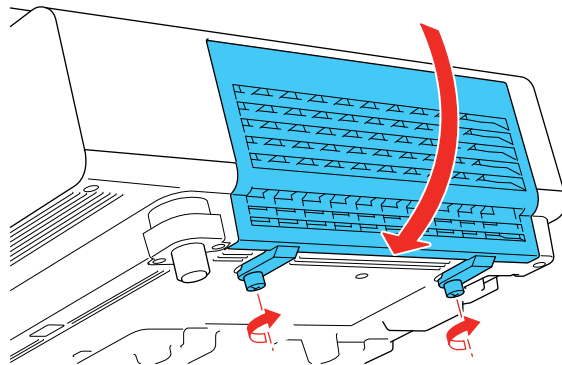
Parent topic: Air Filter and Vent Maintenance

Related tasks
Turning Off the Projector

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 placed on a table.

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

2. Lift the projector on the side of the air filter.
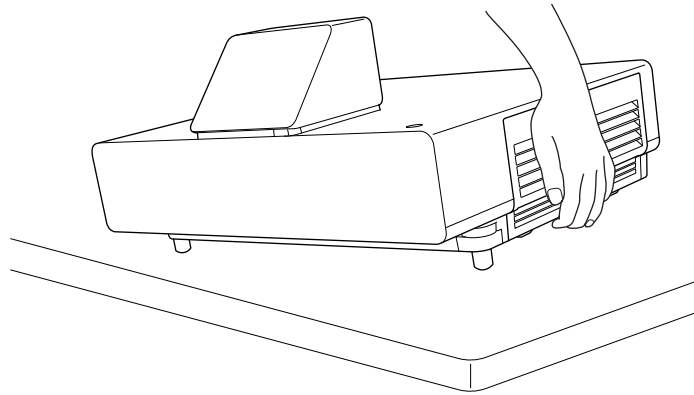
3. Loosen the screws securing the air filter cover and remove the air filter cover.
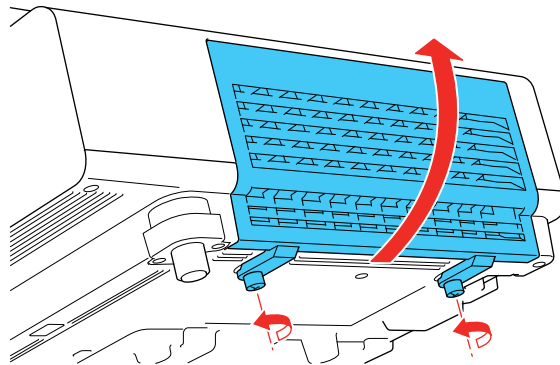
4. Set the projector down.

5. Pull the air filter out of the projector.
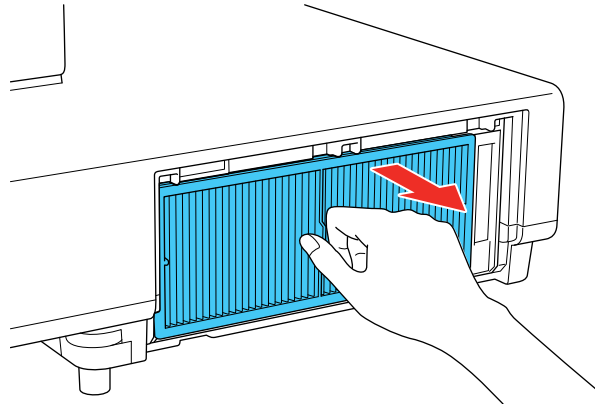
Note: Air filters contain polypropylene. Dispose of used air filters according to local regulations.

6. Place the new air filter in the projector as shown.
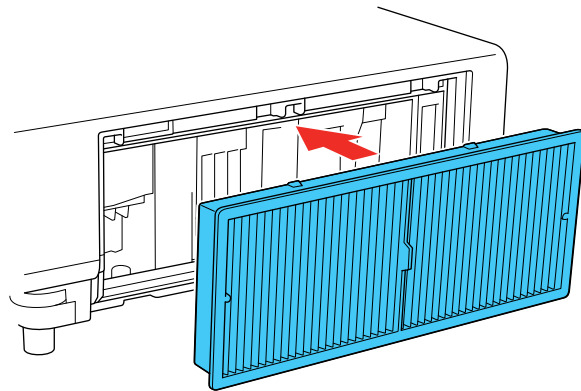
7. Lift the projector on the side of the air filter, close the air filter cover, and tighten the screws.
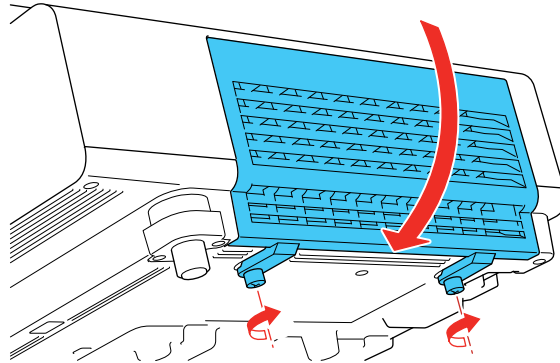
Parent topic: Air Filter and Vent Maintenance

Related tasks

Turning Off the Projector

Replacing the Remote Control Batteries

The remote control uses two AAA 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.

Note: Your remote may look different but the steps are the same.

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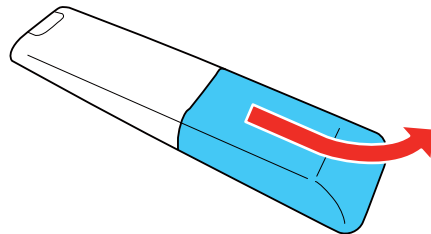
2. Remove the old batteries.

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

3. Insert the batteries with the **+** and **–** ends facing as shown.
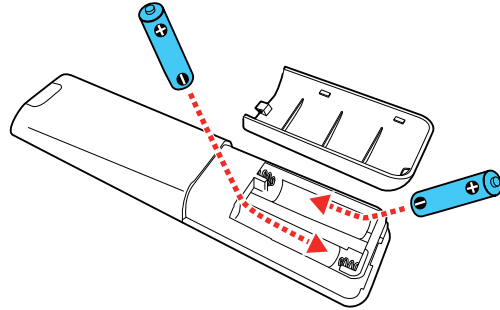
   Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

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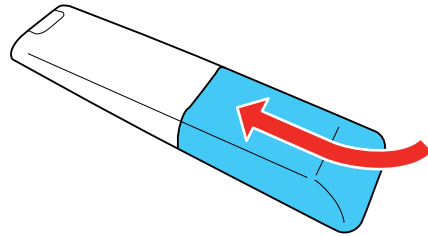
   Warning: Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

Parent topic: Maintaining and Transporting the Projector

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 or Sound Problems
Solving Projector or Remote Control Operation Problems
Solving Network Problems
Where to Get Help (U.S. and Canada)
Where to Get Help (Latin America)

Projection Problem Tips

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

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

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

• The solutions in this manual can help you solve many problems.

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

Parent topic: Solving Problems

Related references

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

Related tasks

Cleaning the Lens
Cleaning the Air Filter and Vents
Replacing the Air Filter

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.

Note: If the **Illumination** setting is **Off**, all indicator lights are off under normal projection conditions.
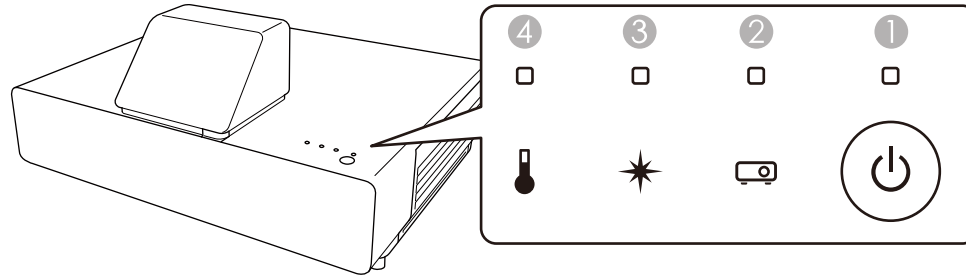
1   On/Standby light

2   Status light

3   Laser light

4   Temp (temperature) light

On/Standby light	Status light	Laser light	Temp light	Status and solution
Blue	Blue	Off	Off	Normal operation.
Blue	Flashing	Off	Off	Warming up. Wait for an image to appear.
				Shutting down. (When the Status light stops flashing, you can unplug the projector.)
Blue/Off	Off	Off	Off	Standby mode or monitoring.
Flashing	Off	Off	Off	Preparing for monitoring or quick startup mode; all features are disabled.

On/Standby light	Status light	Laser light	Temp light	Status and solution
Flashing	Varies	Off	Flashing	Projector is too hot. If the temperature continues to rise, projection will stop automatically. • 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 around the air intake vents is not too hot.
Off	Flashing	Off	Solid	Projector has overheated and turned off. Leave it turned off to cool down and wait about five minutes. After the fan has stopped, disconnect the power cord and do the following: • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. • Make sure the environmental temperature around the air intake vents is not too hot. • 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.
Flashing	Varies	Flashing	Off	Laser warning. Turn the projector off, unplug it, and contact Epson for help.
Off	Flashing	Solid	Off	Laser has a problem. Turn the projector off, unplug it, and contact Epson for help.

On/Standby light	Status light	Laser light	Temp light	Status and solution
Off	Flashing	Off	Flashing	A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help.
Off	Flashing	Flashing	Off	Internal projector error. Turn the projector off, unplug it, and contact Epson for help.

Parent topic: Solving Problems

Solving Image or Sound Problems

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

Solutions When No Image Appears

Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

Solutions When Only a Partial Image Appears

Solutions When the Image is Not Rectangular

Solutions When the Image Contains Noise or Static

Solutions When the Image is Fuzzy or Blurry

Solutions When the Image Brightness or Colors are Incorrect

Solutions When a 3D Image Does Not Display Correctly

Solutions to Sound Problems

Parent topic: Solving Problems

Solutions When No Image Appears

If no image appears, try the following solutions:

- Make sure the lens cap is off.

- Press the ⊠ A/V mute button on the projector remote control to see if the image was temporarily turned off.

- Check the status lights to confirm the projector is operating normally.

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

- Make sure the image being projected is not completely black (only when projecting computer images).
- 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.
- If you are projecting from a streaming device, make sure it is powered by the USB power cable inside the projector. Turn on the connected streaming device or video source, and press the play button to start a video, if necessary.
- Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information. If necessary, set the CEC function for the connected device again and restart the device. Turn off the projector and the connected streaming device or video source, and then turn them back on.
- Turn off the projector and the connected streaming device or video source, and then turn them back on.
- Press the **Menu** button. If the projector menu displays, there may be a problem with the connected video source, cable connection, or port.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the **Brightness** setting on the Image menu.
- Check the Display menu to make sure the **Messages** setting is set to **On**.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked. Unlock the buttons. Press and hold the power button for 7 seconds or use the remote control.
- If the projector does not respond when you press buttons on the remote control, make sure the remote and projector are within range of each other.
- If you are projecting from a computer, make sure it is set up to display on an external monitor. If the computer's display is set to an extended or mirrored mode, try changing it to external output only.
- If you are projecting from a computer using an HDMI cable, turn off the computer and the projector. Make sure the HDMI cable is securely connected, turn the projector on, then turn the computer on.
- Check the video copyright protection and encryption. The projector may not be able to project copyrighted videos with updated or revised versions of HDCP encryption.
- If you are using a streaming media device, make sure it has an active Internet connection. Also make sure it is securely connected to the **HDMI3** port using the HDMI extension cable and to the **DC Out (2.0A)** port using a USB power cable.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Parent topic: Solving Image or Sound Problems

Related references

Solutions When "No Signal" Message Appears

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

• Press the ⬛ **Source** button on the projector's control panel or remote control repeatedly to cycle through the available sources. Wait a few seconds for an image to appear on each source you cycle through.

• Press the 🏠 **Home** button on the projector's control panel to select from a list of available sources (shown in black text).

• Turn on the connected computer or video source, and press its play button to begin your presentation, if necessary.

• Check the connection from the projector to your video sources.

• If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.

• If necessary, turn the projector and the connected computer or video source off and then on again.

• If you are projecting from an HDMI source, replace the HDMI cable with a shorter one.

• Try a different video cable.

• If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Parent topic: Solving Image or Sound Problems

Related concepts

Related tasks

Displaying From a PC Laptop

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

1. Hold down the laptop's **Fn** key and press the key labeled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear. To display on both the laptop's monitor and the projector, try pressing the same keys again.

   Note: On Windows 7 or later, hold down the Windows key and press **P** at the same time, then click **Duplicate**.

2. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)

3. If necessary, check your video card settings and set the multiple display option to **Clone**, **Mirror**, or **Duplicate**.

Parent topic: Solutions When "No Signal" Message Appears

Displaying From a Mac Laptop

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

1. Open the **System Preferences** utility and select **Displays**, **Display**, or **Color LCD**.

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

3. Select the **Mirror Displays** checkbox.

Parent topic: Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

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

• Make sure the input signal is supported by the projector.

• 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.

• Check the input resolution under **Projector Info** in the **Info** menu and make sure that the projector supports that resolution.

Parent topic: Solving Image or Sound Problems

Solutions When Only a Partial Image Appears

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

- Check the **Blanking** setting in the Settings menu.

- Select a different image aspect mode in the Signal menu.

- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)

- Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)

- Make sure you selected the correct **Projection** setting.

- Try adjusting the image position using the **Image Shift** setting in the Settings menu.

- If you are passing the video signal through another device, make sure the device is set up correctly, then try connecting the video source directly to the projector.

- If you are viewing a 3D image, make sure you selected the correct 3D format.

- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

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

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.

- Adjust the **Quick Corner** setting to correct the image shape.

Parent topic: Solving Image or Sound Problems

Related concepts
Projector Placement

Related tasks
Correcting Image Shape with Quick Corner
Correcting Image Shape with the Keystone Buttons

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 24 feet (7.3 m) for HDMI cables

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

- Select a computer video resolution and refresh rate that are compatible with the projector.

- If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting to improve image quality.

- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.

- Try a different cable.

- Try adjusting the **Image Enhancement** settings on the Image menu.

- If you connected an A/V system that does not support ARC to the **HDMI2 (ARC)** port, the image may be distorted.

Parent topic: Solving Image or Sound Problems

Related references
Input Signal Settings - Signal Menu

Solutions When the Image is Fuzzy or Blurry

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

- Adjust the image focus.
- Clean the projector lens.
- Position the projector close enough to the screen, and directly in front of it.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Adjust the **Sharpness** setting to improve image quality.
- If you are projecting from a computer, adjust the computer's resolution to match the projector's native resolution, if possible.
- Make sure you removed the lens cap.

Parent topic: Solving Image or Sound Problems

Related concepts
Projector Placement

Related references
Image Quality Settings - Image Menu

Related tasks
Cleaning the Lens
Focusing the Image

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:

- Check the **Color Space** and **Dynamic Range** settings in the Signal menu and make sure they match the input signal. Select **Auto** for each setting.
- Try selecting a color mode that best fits 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**, **White Balance**, and/or **Color Saturation**.
- Make sure you selected the correct **Video Range** or **EDID** setting on the Signal menu, if available for your image source.

- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.

- Make sure the **Light Output** setting in the Image menu is set correctly.

- Position the projector close enough to the screen.

- If the above solutions do not correct your image, try resetting all of the projector's settings using the Reset menu.

Parent topic: Solving Image or Sound Problems

Related concepts

Projector Placement

Related references

Input Signal Settings - Signal Menu
Image Quality Settings - Image Menu
Projector Reset Options - Reset Menu

Solutions When a 3D Image Does Not Display Correctly

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

- Make sure the **3D Display** setting on the Signal menu is set to **Auto** or **3D**.

- 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.

- Make sure your 3D glasses are turned on and fully charged. If the glasses have entered standby mode, turn them off and then back on.

- Make sure your 3D glasses are paired with the projector.

- Adjust the **3D Depth** and **3D Brightness** settings on the Signal menu. If the setting is too high, you may have 3D crosstalk or image ghosting.

- Make sure you are within the 3D viewing range.

- Make sure your screen size matches the **Diagonal Screen Size** setting on the Signal menu.

- Avoid using the projector near wireless networks, microwave ovens, 2.4 GHz cordless phones, or other devices that use the 2.4 GHz frequency band. These devices can interfere with the signal between the projector and the 3D glasses.

- If the other solutions do not solve the problem, change the **Inverse 3D Glasses** setting on the Signal menu. Return the setting to its original value if changing it does not solve the problem as it can adversely affect the 3D image.

Parent topic: Solving Image or Sound Problems

Related references
Input Signal Settings - Signal Menu
3D Viewing Range

Solutions to Sound Problems

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

- Adjust the projector's volume settings.

- Press the ⌧ A/V mute button on the projector remote control to resume video and audio if they were temporarily stopped.

- Make sure the **Audio Out Device** settings are correct.

- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.

- Check the cable connection between the projector and your video source.

- Try disconnecting and reconnecting the audio cable.

- Check the audio out cable connection between the projector and your external speakers.

- If you do not hear sound from an HDMI source, set the connected device to PCM output.

- Make sure any connected audio cables are labeled "No Resistance."

- If you are using an ARC-compatible A/V system, make sure it is connected to the projector's ARC-compatible HDMI port and set the **HDMI Link** and **Audio Out Device** settings accordingly.

- If you are using a Mac and you do not hear sound from an HDMI source, make sure your Mac supports audio through the HDMI port. If not, you need to connect an audio cable directly to your speaker system.

- If you hear a hissing sound from your projector's speakers when projecting from a computer running Windows 10 over a network, you may need to adjust the Windows 10 sound properties:

  1. Right-click the speaker icon in the Windows taskbar and select **Sounds**.

2. Click the **Playback** tab, select the playback device, and click **Properties**.

3. Click the **Advanced** tab, set the sample rate and bit depth setting to **16 bit, 44100 Hz (CD Quality)**, click **Apply**, and click **OK**.

   Note: These steps may vary depending on the Windows 10 version you are using.

• If you turn the projector on immediately after turning it off, the cooling fans may run at high speed momentarily and cause an unexpected noise. This is normal.

Parent topic: Solving Image or Sound Problems

Related references

Projector Feature Settings - Settings Menu

Related tasks

Controlling the Volume with the Volume Buttons

Shutting Off the Picture and Sound Temporarily

Solving Projector or Remote Control Operation Problems

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

Solutions to Projector Power or Shut-Off Problems

Solutions to Remote Control Problems

Solutions to HDMI Link Problems

Parent topic: Solving Problems

Solutions to Projector Power or Shut-Off Problems

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

• Make sure the power cord is securely connected to the projector and to a working electrical outlet.

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

• Turn off the **HDMI Link** setting. If this resolves the issue, check the settings on connected devices and make sure the projector is not receiving shut down requests over CEC.

• If the projector's laser shuts off, the Status light is flashing, and the Temp light is on, 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.

- Make sure **Sleep Mode** is not in effect.

- The power cord may be defective. Try another power cord. If that doesn't work, disconnect the cord and contact Epson.

- Disconnect the projector from the network to see if there is a network setting that needs to be changed.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Light Status

Projector Setup Settings - Extended Menu

Projector Feature Settings - Settings Menu

Related tasks

Unlocking the Projector's Buttons

Related topics

Using the Projector on a Network

Solutions to Remote Control Problems

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

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

- Make sure you are operating the remote control within the reception angle and range of the projector.

- Make sure the projector is not warming up or shutting down.

- Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.

- Make sure the projector remote control is paired to the streaming device to operate Android TV features (if applicable).

- Make sure you are using the projector remote control and not the remote control for Android TV.

- 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 you lose the remote control, you can purchase another from an authorized Epson reseller.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Remote Control Operation

Related tasks

Replacing the Remote Control Batteries

Solutions to HDMI Link Problems

If you cannot control an HDMI device using the HDMI Link buttons, try the following solutions:

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

- Make sure the cables meet the HDMI CEC standard.

- Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information.

- Make sure the **HDMI Link** setting is set to **On**.

- Check if the device is available in the **Device Connections** list in the **Settings** menu. If the device does not appear, it does not meet the HDMI CEC standards. Connect a different device.

- Make sure the connected devices are turned on and in standby status. See the documentation supplied with the device for more information.

- If you connected a new device or changed any connections, make sure the CEC function is set for the connected device. You may need to restart the device.

- Connect no more than three devices that support HDMI Link at the same time.

- If you have connected a speaker or receiver, set the output to PCM.

- If your projector shuts itself off, the connected video source may be turning off the projector. Try turning off the **HDMI Link** setting on the projector and video source. See the documentation for your device for information on how to disable the HDMI Link setting.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Feature Settings - Settings Menu

Solving Network Problems

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

Solutions When Wireless Authentication Fails
Solutions When the Image Contains Static During Network Projection

Parent topic:

Solutions When Wireless Authentication Fails

If you cannot authenticate a wireless connection, try the following solutions:

• Make sure the **Wireless LAN Power** setting is set to **On**. If it is already set to **On**, set it to **Off**, then set it to **On** again.

• Check the Security settings and passphrase in the Network Configuration menu. The password is case sensitive.

• Check the Event ID number displayed in the Info menu and check the link below to identify the problem.

• Make sure the connected device is on and operating properly.

• Make sure you are using the correct Epson wireless LAN module.

Parent topic:

Related references

Solutions When the Image Contains Static During Network Projection

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

• Check for any obstacles between the access point, the computer, the mobile device, and the projector. If necessary, change their positions to improve communication. Also make sure that they are not too far apart; move them closer together and try to connect again.

• If the wireless connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.

• If the connection speed declines, reduce the number of connected devices.

• If you are using Epson iProjection, you can try adjusting the iProjection settings. See the *Epson iProjection Operation Guide* for more information.

Parent topic:

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

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

Internet Support

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

Speak to a Support Representative

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

Support hours are 6 AM to 8 PM, Pacific Time, Monday through Friday and 7 AM to 4 PM, Pacific Time, Saturday.

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

Before you call, have the following information ready:

• Product name

• Product serial number (located on the bottom or rear of the projector, or in the menu system)

• Proof of purchase (such as a store receipt) and date of purchase

• Computer or video configuration

• Description of the problem

Purchase Supplies and Accessories

You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766) in the U.S. or 800-807-7766 in Canada. Or you can purchase online at epsonstore.com (U.S. sales) or epsonstore.ca (Canadian sales).

To purchase a replacement remote control, call (562) 276-4394 (U.S.) or (905) 709-3839 (for dealer referral in Canada).

Parent topic: Solving Problems

Where to Get Help (Latin America)

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

Internet Support

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

Speak to a Support Representative

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

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

Then call:

Country	Telephone
Argentina	(54 11) 5167-0300 0800-288-37766
Bolivia*	800-100-116
Brazil	0800-007-5000
Chile	(56 2) 2484-3400
Colombia	Bogota: (57 1) 592-2200 Other cities: 018000-915235
Costa Rica	800-377-6627
Dominican Republic*	1-888-760-0068
Ecuador*	1-800-000-044
El Salvador*	800-6570
Guatemala*	1-800-835-0358

Country	Telephone
Mexico	Mexico City: (52 55) 1323-2052
	Other cities: 01-800-087-1080
Nicaragua*	00-1-800-226-0368
Panama*	00-800-052-1376
Paraguay	009-800-521-0019
Peru	Lima: (51 1) 418-0210
	Other cities: 0800-10-126
Uruguay	00040-5210067
Venezuela	(58 212) 240-1111

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

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

Purchase Supplies and Accessories

Parent topic: Solving Problems

Technical Specifications

These sections list the technical specifications of your projector.

General Projector Specifications

Type of display	Poly-silicon TFT active matrix
Resolution	1920 × 1080 pixels (HD 1080)
Lens	F=1.5
	Focal length: 3.9 mm
Color reproduction	Full color, up to 1.07 billion colors
Brightness	Normal Light Source mode:
	White light output 4000 lumens (ISO 21118 standard)
	Color light output 4000 lumens
	ECO Light Source mode:
	White light output 1200 lumens (ISO 21118 standard)
	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	2,500,000:1 with Dynamic Color Mode, Normal Light Source mode, and Wide Zoom on

Image size	65 inches (1.65 m) to 130 inches (3.3 m)
(in native aspect ratio)	
Projection distance	16.9 inches (0.43 m) to 32.3 inches (0.82 m)
(in native aspect ratio)	
Projection methods	Front
Optical aspect ratio	16:9
(width-to-height)	
Focus adjustment	Manual
Zoom adjustment	Digital
Zoom ratio	1.0 to 1.35
(Tele-to-Wide)	
Internal sound system	Stereo, 10 W × 2
Noise level	36 dB (Normal Light Source mode)
	23 dB (ECO Light Source mode)
Keystone correction angle	± 3º vertical and horizontal
USB Type A port compatibility	One USB 2.0 compliant port for connecting the optional wireless LAN module, firmware updates, and saving logs

Parent topic:

Projector Light Source Specifications

Type	Laser diode
Light source output power	Up to 104.5 W
Wavelength	449 to 461 nm
Light source life	Up to 20000 hours
(approximate)	

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.

Remote Control Specifications

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

Projector Dimension Specifications

Height (excluding feet)	8.3 inches (209.5 mm)
Width	18.0 inches (458 mm)
Depth	14.8 inches (375 mm)
Weight	20.5 lb (9.3 kg)

Projector Electrical Specifications

Rated frequency	50/60 Hz
Power supply	100 to 240 V AC ±10% 3.8 to 1.7 A
Power consumption (100 to 120 V)	Operating: Normal Power Consumption mode: 381 W ECO Power Consumption mode: 236 W Networked Standby: 2.0 W Energy Saving: 0.5 W

Power consumption	Operating:
(220 to 240 V)	Normal Power Consumption mode: 366 W
	ECO Power Consumption mode: 230 W
	Networked Standby: 2.0 W
	Energy Saving: 0.5 W

Parent topic:

Projector Environmental Specifications

Temperature	Operating:
	Up to 7500 feet (2286 m): 41 to 95 °F (5 to 35 °C)
	7500 feet (2286 m) to 10000 feet (3048 m): 41 to 86 °F (5 to 30 °C)
	Storage: 14 to 140 °F (–10 to 60 °C)
Humidity (relative, non-condensing)	Operating: 20 to 80%
	Storage: 10 to 90%
Operating altitude	Up to 4921 feet (1500 m)
	Up to 10000 feet (3048 m) with High Altitude Mode enabled

Parent topic:

Projector Safety and Approvals Specifications

United States	FCC Part 15 Class B (DoC)
	UL60950-1 2nd edition (cTUVus Mark)
Canada	CAN ICES-3 (B)/NMB-3 (B)
	CSA C22.2 No. 60950-1

Parent topic:

Safety and Approvals Specifications for Latin America

Notice for Argentina

Bluetooth Module Model: DBUB-E207

Brand: EPSON

CNC ID: C-14922

Notice for Mexico

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Product Model: H956A/H922A (LS500WATV/LS500BATV, LS500W/LS500B)

Bluetooth Module Model: DBUB-E207

Brand: EPSON

IFT Certification Number: RCPEPDB12-0656

Notice for Paraguay

Imported by:

Fastrax, S.A.

Av. Perú esq. Río de Janeiro, Barrios Las Mercedes, Asunción, Paraguay

Imported by:

Sol Control S.R.L.

Av. Gral. Bernardino Caballero 810 esq. Celsa Speratti, Asunción, Paraguay

Notice for Peru

Product Model: LS500WATV/LS500BATV, LS500W/LS500B

Brand: EPSON

This product uses the following Bluetooth module:

Bluetooth Module Model: DBUB-E207

FCC ID: BKMAE-E207

Product Manufacturer: Seiko Epson Corporation

Address: 3-3-5 Owa Suwa-shi, Nagano-Ken 392-8502, Japan

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)
HDMI input signals		
VGA60	60	640 × 480
21:9	60	2560 × 1080
SDTV (480i/480p)	59.94	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/59.94/60	1280 × 720
HDTV (1080i)	50/59.94/60	1920 × 1080
HDTV (1080p)	23.98/24/29.97/30/50/59.94/60	1920 × 1080
4K	23.98/24/25/29.97/30/50/59.94/60	3840 × 2160
	23.98/24/25/29.97/30/50/59.94/60	4096 × 2160

HDMI 3D Signals

Display format	Refresh rate (in Hz)	Resolution (in pixels)	3D formats
HDTV (720p)	50/59.94/60	1280 × 720	Frame Packing
			Side by Side
			Top and Bottom

Display format	Refresh rate (in Hz)	Resolution (in pixels)	3D formats
HDTV (1080i)	50/59.94/60	1920 × 1080	Side by Side
HDTV (1080p)	50/59.94/60	1920 × 1080	Side by Side
	23.98/24	1920 × 1080	Frame Packing Side by Side Top and Bottom

Compatible 4K HDR Signals

Compatible 4K signals are converted for output as an HDR image. For example, a 4K 60 Hz 4:4:4 8-bit signal is converted to a 4:2:2 10-bit HDR signal.

Press the **Menu** button on the remote control and select the **Info** menu to determine whether you are receiving an HDR signal.

Refresh rate (in Hz)	Resolution (in pixels)
23.98/24/25/29.97/30/50/59.94/60	3840 × 2160
23.98/24/25/29.97/30/50/59.94/60	4096 × 2160

Display format (refresh rate)	Chroma subsampling (pixel encoding)	Color depth: 24 bits (8-bits per pixel)	Color depth: 30 bits (10-bits per pixel)	Color depth: 36 bits (12-bits per pixel)
4K/60p (60 Hz)	4:4:4	SDR	–	–
	4:2:2	SDR	HDR	HDR
	4:2:0	SDR	HDR	HDR
4K/24p (24 Hz)	4:4:4	SDR	HDR	HDR
	4:2:2	SDR	HDR	HDR

Parent topic: Technical Specifications

Notices

Check these sections for important notices about your projector.

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 IEC/EN60825-1:2007 international standard for lasers. Follow these safety instructions when using the projector.

Warning: Possibly hazardous optical radiation emitted from this product. Do not look at operating light source. Eye injury may result.
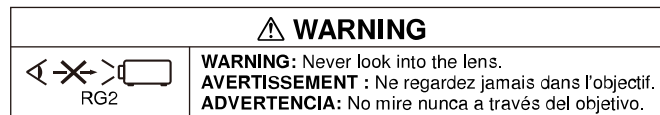
- If an error occurs in the projector, turn off the power and unplug the projector immediately. Continuing to use the projector could result in an electric shock, fire, or visual impairment. Contact Epson support.

- Do not attempt to disassemble or modify the projector. The projector contains a high-power laser component. Serious injury could result.

- Do not look into the lens during projection. Also, do not look into the lens using optical devices, such as a magnifying glass or telescope. This could cause visual impairment.

- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.

- Do not allow small children to operate the projector. Children must be accompanied by an adult.

- Do not apply optical devices, such as a magnifying glass or reflector, to the projected image. Using the projector may result in physical harm, fire, or an accident.

- Do not block the light from the lens during projection. The high temperature in this area could cause burns, fire, or other damage. The lens may overheat due to the reflected light and could cause the projector to malfunction.

- Before using the projector, make sure there is nothing in the area that could reflect the projected image.

- When disposing of the projector, do not disassemble it. Dispose of the projector in accordance with your local or national laws and regulations.

Labels are attached to the projector to indicate it is a Class 3R product and complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice N. 50, dated June 24, 2007:

• **Inside**

⚠ **CAUTION / DANGER**

CAUTION / DANGER: CLASS 4 LASER RADIATION WHEN OPEN
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
ATTENTION / DANGER : EN CAS D'OUVERTURE RAYONNEMENT LASER DE CLASSE 4
EVITER L'EXPOSITION DES YEUX OU DE LA PEAU AUX RAYONNEMENTS DIRECTS OU
DIFFUÉS
PRECAUCIÓN / PELIGRO: RADIACIÓN LÁSER DE CLASE 4 CUANDO ESTÁ ABIERTO
EVITAR LA EXPOSICIÓN DE OJOS O PIEL A LA RADIACIÓN DIRECTA O DISPERSA
ACHTUNG / GEFAHR: LASERSTRAHLUNG KLASSE 4 WENN GEÔFFNET   BESTRAHLUNG
VON AUGE ODER HAUT DURCH DIREKTE ODER STREUSTRAHLUNG VERMEIDEN

注意/危険:打开时有4类激光辐射 避免眼或皮肤受到直射或散射辐射的照射

注意/危険:打開時具有第4級(CLASS 4)雷射 避免眼睛或皮膚暴露於直射或散射的輻射

주의/위험:개방시 4 등급 레이저 제품   직접 혹은 분사 방사에 대한 눈 또는 피부 노출을 피하시오

注意/危険:ここを開くとクラス4のレーザ放射が出る   ビームや散乱光の目又は皮膚への被ばくを避けること

• **Top**

⚠ **CAUTION**

CAUTION: LASER APERTURE
ATTENTION: OUVERTURE LASER
PRECAUCIÓN:
          APERTURA DE LA FUENTE LASER

⚠ **WARNING**

RG2

WARNING: Never look into the lens.
AVERTISSEMENT : Ne regardez jamais dans l'objectif.
ADVERTENCIA: No mire nunca a través del objetivo.

• **Side**

Parent topic: Notices

Laser Light Source Warning

Refer to the table here for the Exposure Hazard Values (EHV) in accordance with the IEC62471-2:2009 standard. The EHV indicates the hazard level for objects in front of the light source for 0.25 seconds at a distance of 7.9 inches (20 cm). The higher the value, the greater the hazard level.

Exposure Hazard Value	0.68

Parent topic: Notices

Important Safety Instructions

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

• Do not look into the lens when the projector is on. The bright light can damage your eyes. Avoid standing in front of the projector so the bright light does not shine into your eyes.

- Do not mount the projector on a ceiling or wall.

- Do not install or place the projector vertically. Doing so may cause a malfunction.

- Do not place the projector on an unstable cart, stand, or table or on a surface that is unable to support its weight. Otherwise, it could fall or topple causing an accident and injury.

- When installing the projector in a high position, take measures to prevent it from falling by using wires to ensure safety in an emergency, such as an earthquake, and to prevent accidents. If the projector is not installed correctly, the projector could fall. This may result in injury or accidents. Contact your dealer to carry out the installation work.

- Do not install the projector in locations exposed to high humidity and dust, such as on a kitchen counter, in the kitchen, or near a humidifier, or in locations exposed to oil smoke or steam. Doing so could cause fire or electric shock.

- Do not use the projector near water, sources of heat, high-voltage electrical wires, or sources of magnetic fields.

- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.

- Place the projector near a wall outlet where the plug can be easily unplugged.

- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into a dusty outlet. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Do not overload wall outlets, extension cords, or power strips. Failure to comply with these precautions could result in fire or electric shock.

- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.

- Unplug the projector from the wall outlet and allow to cool before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners, any sprays containing flammable gas, or solvents such as alcohol, paint thinner, or benzine.

- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. If the vents are covered, the internal temperature could rise and cause a fire. Do not place the projector in locations subject to high temperatures, such as near heating equipment. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers. Do not cover the projector with a blanket, curtain, or tablecloth. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the projector.

- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.

- Never allow objects of any kind to enter any openings in the projector. Do not leave objects, especially flammable objects, near the projector. Never spill liquid of any kind into the projector.

- 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 install the projector in locations where it may be subject to salt damage. Doing so may result in malfunction and the corrosion may cause the projector to fall.

- Do not use or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.

- Do not use the projector where flammable or explosive gases may be present.

- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.

- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.

- Do not stand on the projector or place heavy objects on it.

- Do not use the projector outside of the required temperature range below:

    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 an altitude of 7500 feet (2286 m) to 10000 feet (3048 m)

    Doing so may cause an unstable display and could lead to projector damage. Do not use or store the projector where it may be exposed to sudden changes in temperature.

- Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress. Do not bring your face close to the projector while it is in use.

- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.

- Do not place the source of an open flame, such as a lit candle, on or near the projector.

- Do not 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.

Restriction of Use

Parent topic: Notices

Restriction of Use

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

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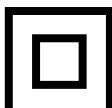
Parent topic: Important Safety Instructions
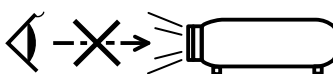
List of Safety Symbols

The following table lists the meaning of the safety symbols labeled on the equipment.

Symbol	Approved Standards	Description
I	IEC60417 No.5007	"ON" (power) To indicate connection to the mains.

Symbol	Approved Standards	Description
	IEC60417 No.5008	"OFF" (power) To indicate disconnection from the mains.
	IEC60417 No.5009	Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
	ISO7000 No.0434B, IEC3864-B3.1	Caution To identify general caution when using the product.
	IEC60417 No.5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
	IEC60417 No.6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
	IEC60417 No.5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
	IEC60417 No.5926	Polarity of DC power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC power supply may be connected.

Symbol	Approved Standards	Description
	—	Polarity of DC power connector
		To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC. power supply may be connected.
	IEC60417 No.5001B	Battery, general
		On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
	IEC60417 No.5002	Positioning of cell
		To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
	—	Positioning of cell
		To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
	IEC60417 No.5019	Protective earth
		To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
	IEC60417 No.5017	Earth
		To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required.
	IEC60417 No.5032	Alternating current
		To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.

Symbol	Approved Standards	Description
	IEC60417	Direct current
	No.5031	To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
	IEC60417	Class II equipment
	No.5172	To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
	ISO 3864	General prohibition
		To identify actions or operations that are prohibited.
	ISO 3864	Contact prohibition
		To indicate injury that could occur due to touching a specific part of the equipment.
	—	Never look into the projector lens while the projector is on.
	—	To indicate that the marked item don't place anything on projector.
	ISO3864	Caution, laser radiation
	IEC60825-1	To indicate the equipment has a laser radiation part.
	ISO 3864	Disassembly prohibition
		To indicate a risk of injury, such as electric shock, if the equipment is disassembled.

Symbol	Approved Standards	Description
	IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
	ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.
	IEC 60417-6056	Caution (movable fan blades) To indicate that you must keep away from movable parts according to protection standards.
	IEC 60417-6043	Caution (sharp corners) To indicate that you must not touch the sharp corners of the product according to protection standards.
	—	Never look into the projection lens while the projector is on.
	ISO7010 No. W027	Warning, light emission (UV, visible light, IR and so on) To indicate that you must be careful not to injure your eyes or skin when near light emitting sections.
	IEC60417 No. 5109	Not to be used in residential areas To indicate that the electrical equipment/device is not suitable for use in residential area.

Parent topic: Notices

FCC Compliance Statement

For United States Users

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

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING

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

For Canadian Users

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

Parent topic: Notices

Binding Arbitration and Class Waiver

1. DISPUTES, BINDING INDIVIDUAL ARBITRATION, AND WAIVER OF CLASS ACTIONS AND CLASS ARBITRATIONS

1.1 **Disputes**. The terms of this Section 1 shall apply to all Disputes between you and Epson. The term "Dispute" is meant to have the broadest meaning permissible under law and includes any dispute, claim, controversy or action between you and Epson arising out of or relating to this Agreement, Epson branded products (hardware and including any related software), or other transaction involving you and Epson, whether in contract, warranty, misrepresentation, fraud, tort, intentional tort, statute, regulation, ordinance, or any other legal or equitable basis. "DISPUTE" DOES NOT INCLUDE IP CLAIMS, or more specifically, a claim or cause of action for (a) trademark infringement or dilution, (b) patent infringement, (c) copyright infringement or misuse, or (d) trade secret misappropriation (an "IP Claim"). You and Epson also agree, notwithstanding Section 1.6,that a court, not an arbitrator, may decide if a claim or cause of action is for an IP Claim.

1.2 **Binding Arbitration**. You and Epson agree that all Disputes shall be resolved by binding arbitration according to this Agreement. **ARBITRATION MEANS THAT YOU WAIVE YOUR RIGHT TO A JUDGE OR JURY IN A COURT PROCEEDING AND YOUR GROUNDS FOR APPEAL ARE LIMITED**. Pursuant to this Agreement, binding arbitration shall be administered by JAMS, a nationally recognized arbitration authority, pursuant to its code of procedures then in effect for consumer related disputes, but excluding any rules that permit joinder or class actions in arbitration (for more detail on procedure, see Section 1.6 below). You and Epson understand and agree that (a) the Federal Arbitration Act (9 U.S.C. §1, et seq.) governs the interpretation and enforcement of this Section 1, (b) this Agreement memorializes a transaction in interstate commerce, and (c) this Section 1 shall survive termination of this Agreement.

1.3 **Pre-Arbitration Steps and Notice**. Before submitting a claim for arbitration, you and Epson agree to try, for sixty (60) days, to resolve any Dispute informally. If Epson and you do not reach an agreement to resolve the Dispute within the sixty (60) days), you or Epson may commence an arbitration. Notice to Epson must be addressed to: Epson America, Inc., ATTN: Legal Department, 3840 Kilroy Airport Way, Long Beach, CA 90806 (the "Epson Address"). The Dispute Notice to you will be sent to the most recent address Epson has in its records for you. For this reason, it is important to notify us if your address changes by emailing us at EAILegal@ea.epson.com or writing us at the Epson Address above. Notice of the Dispute shall include the sender's name, address and contact information, the facts giving rise to the Dispute, and the relief requested (the "Dispute Notice"). Following receipt of the Dispute Notice, Epson and you agree to act in good faith to resolve the Dispute before commencing arbitration.

1.4 **Small Claims Court**. Notwithstanding the foregoing, you may bring an individual action in the small claims court of your state or municipality if the action is within that court's jurisdiction and is pending only in that court.

1.5 **WAIVER OF CLASS ACTIONS AND CLASS ARBITRATIONS. YOU AND EPSON AGREE THAT EACH PARTY MAY BRING DISPUTES AGAINST THE OTHER PARTY ONLY IN AN INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY CLASS OR REPRESENTATIVE PROCEEDING, INCLUDING WITHOUT LIMITATION FEDERAL OR STATE CLASS ACTIONS, OR CLASS ARBITRATIONS. CLASS ACTION LAWSUITS, CLASS-WIDE ARBITRATIONS, PRIVATE ATTORNEY-GENERAL ACTIONS, AND ANY OTHER PROCEEDING WHERE SOMEONE ACTS IN A REPRESENTATIVE CAPACITY ARE NOT ALLOWED. ACCORDINGLY, UNDER THE ARBITRATION PROCEDURES OUTLINED IN THIS SECTION, AN ARBITRATOR SHALL NOT COMBINE OR CONSOLIDATE MORE THAN ONE PARTY'S CLAIMS WITHOUT THE WRITTEN CONSENT OF ALL AFFECTED PARTIES TO AN ARBITRATION PROCEEDING.**

1.6 **Arbitration Procedure**. If you or Epson commences arbitration, the arbitration shall be governed by the rules of JAMS that are in effect when the arbitration is filed, excluding any rules that permit arbitration on a class or representative basis (the "JAMS Rules"), available at http://www.jamsadr.com or by calling 1-800-352-5267 (U.S. or Canada), or https://www.jamsadr.com/about/ or by calling +1-949-224-1810 (Latin America), and under the rules set forth in this Agreement. All Disputes shall be resolved by a single neutral arbitrator, and both parties shall have a reasonable opportunity to participate in the selection of the arbitrator. The arbitrator is bound by the terms of this Agreement. The arbitrator, and not any federal, state or local court or agency, shall have exclusive authority to resolve all disputes arising out of or relating to the interpretation, applicability, enforceability or formation of this Agreement, including any claim that all or any part of this Agreement is void or voidable. Notwithstanding this broad delegation of authority to the arbitrator, a court may determine the limited question of whether a claim or cause of action is for an IP Claim, which is excluded from the definition of "Disputes" in Section 1.1 above. The arbitrator shall be empowered to grant whatever relief would be available in a court under law or in equity. The arbitrator may award you the same damages as a court could, and may award declaratory or injunctive relief only in favor of the individual party seeking relief and only to the extent necessary to provide relief warranted by that party's individual claim. In some instances, the costs of arbitration can exceed the costs of litigation and the right to discovery may be more limited in arbitration than in court. The arbitrator's award is binding and may be entered as a judgment in any court of competent jurisdiction.

You may choose to engage in arbitration hearings by telephone. Arbitration hearings not conducted by telephone shall take place in a location reasonably accessible from your primary residence, or in Orange County, California, at your option.

a) Initiation of Arbitration Proceeding. If either you or Epson decides to arbitrate a Dispute, both parties agree to the following procedure:

(i) Write a Demand for Arbitration. The demand must include a description of the Dispute and the amount of damages sought to be recovered. You can find a copy of a Demand for Arbitration at http://www.jamsadr.com ("Demand for Arbitration").

(ii) Send three copies of the Demand for Arbitration, plus the appropriate filing fee, to: JAMS, 500 North State College Blvd., Suite 600 Orange, CA 92868, U.S.A.

(iii) Send one copy of the Demand for Arbitration to the other party (same address as the Dispute Notice), or as otherwise agreed by the parties.

b) Hearing Format. During the arbitration, the amount of any settlement offer made shall not be disclosed to the arbitrator until after the arbitrator determines the amount, if any, to which you or Epson is entitled. The discovery or exchange of non-privileged information relevant to the Dispute may be allowed during the arbitration.

c) Arbitration Fees. Epson shall pay, or (if applicable) reimburse you for, all JAMS filings and arbitrator fees for any arbitration commenced (by you or Epson) pursuant to provisions of this Agreement.

d) Award in Your Favor. For Disputes in which you or Epson seeks $75,000 or less in damages exclusive of attorney's fees and costs, if the arbitrator's decision results in an award to you in an amount greater than Epson's last written offer, if any, to settle the Dispute, Epson will: (i) pay you $1,000 or the amount of the award, whichever is greater; (ii) pay you twice the amount of your reasonable attorney's fees, if any; and (iii) reimburse you for any expenses (including expert witness fees and costs) that your attorney reasonably accrues for investigating, preparing, and pursuing the Dispute in arbitration. Except as agreed upon by you and Epson in writing, the arbitrator shall determine the amount of fees, costs, and expenses to be paid by Epson pursuant to this Section 1.6d).

e) Attorney's Fees. Epson will not seek its attorney's fees and expenses for any arbitration commenced involving a Dispute under this Agreement. Your right to attorney's fees and expenses under Section 1.6d) above does not limit your rights to attorney's fees and expenses under applicable law; notwithstanding the foregoing, the arbitrator may not award duplicative awards of attorney's fees and expenses.

1.7 Opt-out. You may elect to opt-out (exclude yourself) from the final, binding, individual arbitration procedure and waiver of class and representative proceedings specified in this Agreement by sending a written letter to the Epson Address within thirty (30) days of your assent to this Agreement (including without limitation the purchase, download, installation of the Software or other applicable use of Epson Hardware, products and services) that specifies (i) your name, (ii) your mailing address, and (iii) your request to be excluded from the final, binding individual arbitration procedure and waiver of class and representative proceedings specified in this Section 1. In the event that you opt-out consistent with the procedure set forth above, all other terms shall continue to apply, including the requirement to provide notice prior to litigation.

1.8 **Amendments to Section 1**. Notwithstanding any provision in this Agreement to the contrary, you and Epson agree that if Epson makes any future amendments to the dispute resolution procedure and class action waiver provisions (other than a change to Epson's address) in this Agreement, Epson will obtain your affirmative assent to the applicable amendment. If you do not affirmatively assent to the applicable amendment, you are agreeing that you will arbitrate any Dispute between the parties in

accordance with the language of this Section 1 (or resolve disputes as provided for in Section 1.7, if you timely elected to opt-out when you first assented to this Agreement).

1.9 **Severability**. If any provision in this Section 1 is found to be unenforceable, that provision shall be severed with the remainder of this Agreement remaining in full force and effect. **The foregoing shall not apply to the prohibition against class or representative actions as provided in Section 1.5. This means that if Section 1.5 is found to be unenforceable, the entire Section 1 (but only Section 1) shall be null and void.**

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