

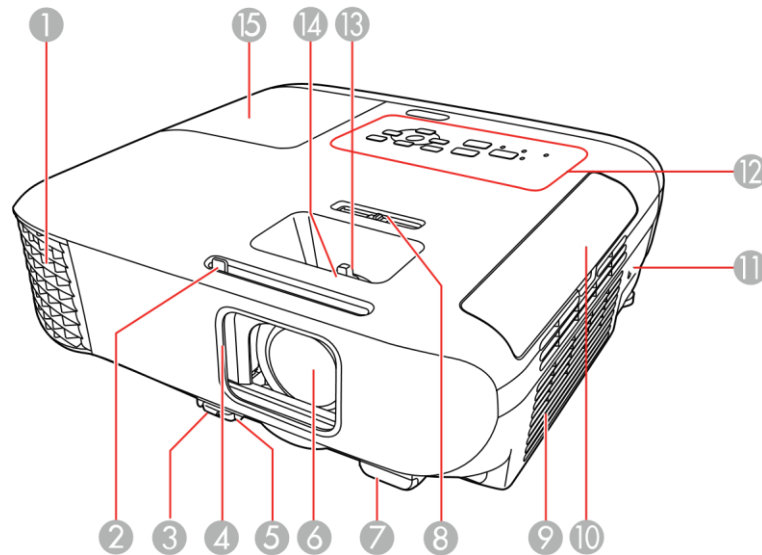


PowerLite 107/108/109W/970/980W/990U

User's Guide

Projector Part Locations

Projector Parts - Front/Top

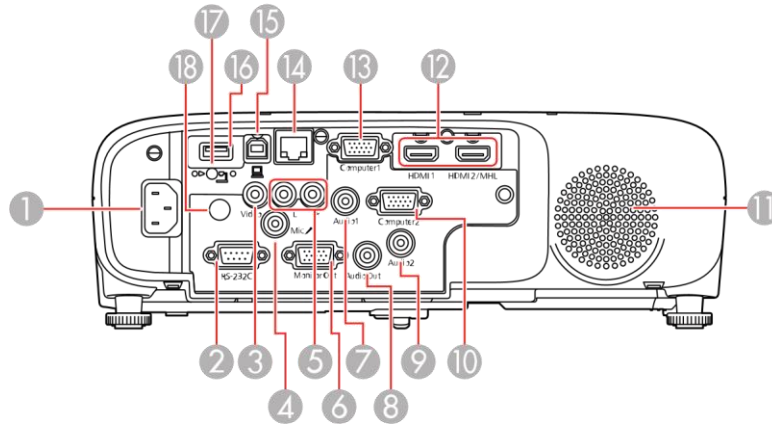


- 1 Exhaust vent
- 2 A/V Mute slide lever
- 3 Foot release lever
- 4 Lens cover
- 5 Front adjustable foot
- 6 Lens
- 7 Remote control receiver
- 8 Horizontal keystone slider
- 9 Air filter/intake vent
- 10 Air filter cover
- 11 Kensington security lock slot
- 12 Control panel

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- 13 Zoom ring
- 14 Focus ring
- 15 Lamp cover

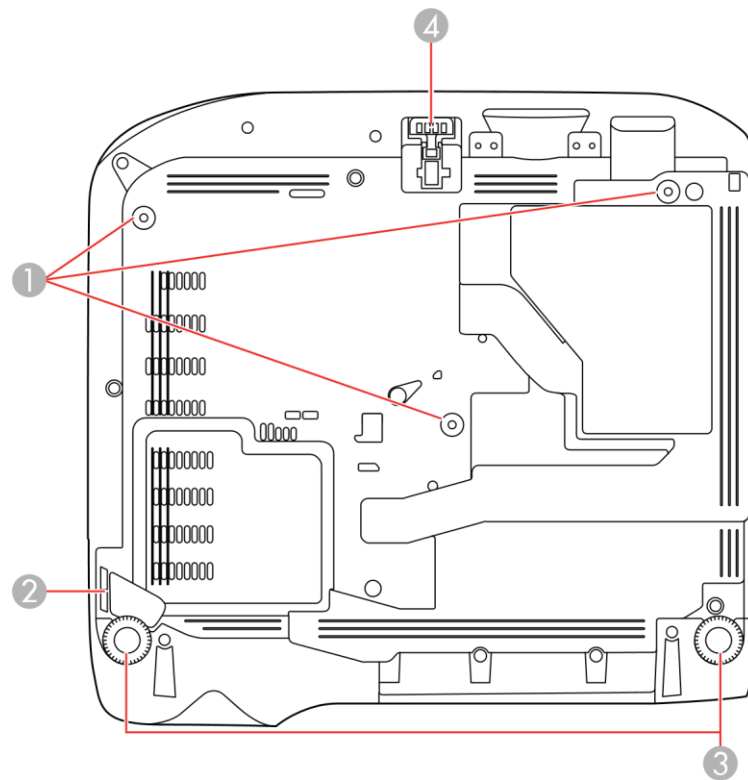
Projector Parts - Rear



- 1 AC input
- 2 **RS-232C** port
- 3 **Video** port
- 4 **Mic** port
- 5 **L and R** audio ports
- 6 **Monitor Out** port
- 7 **Audio1** port
- 8 **Audio Out** port
- 9 **Audio2** port
- 10 **Computer2** port
- 11 Speaker
- 12 **HDMI1** and **HDMI2/MHL** ports

- 13 **Computer1** port
- 14 Network (LAN) port
- 15 USB-B port
- 16 USB-A port
- 17 Wireless LAN module cover screw
- 18 Remote receiver

Projector Parts - Base

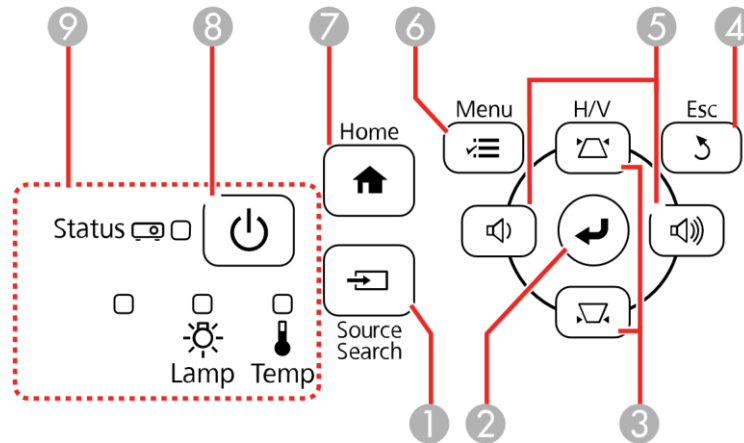


- 1 Ceiling mount holes (3)
- 2 Security cable attachment point
- 3 Rear feet

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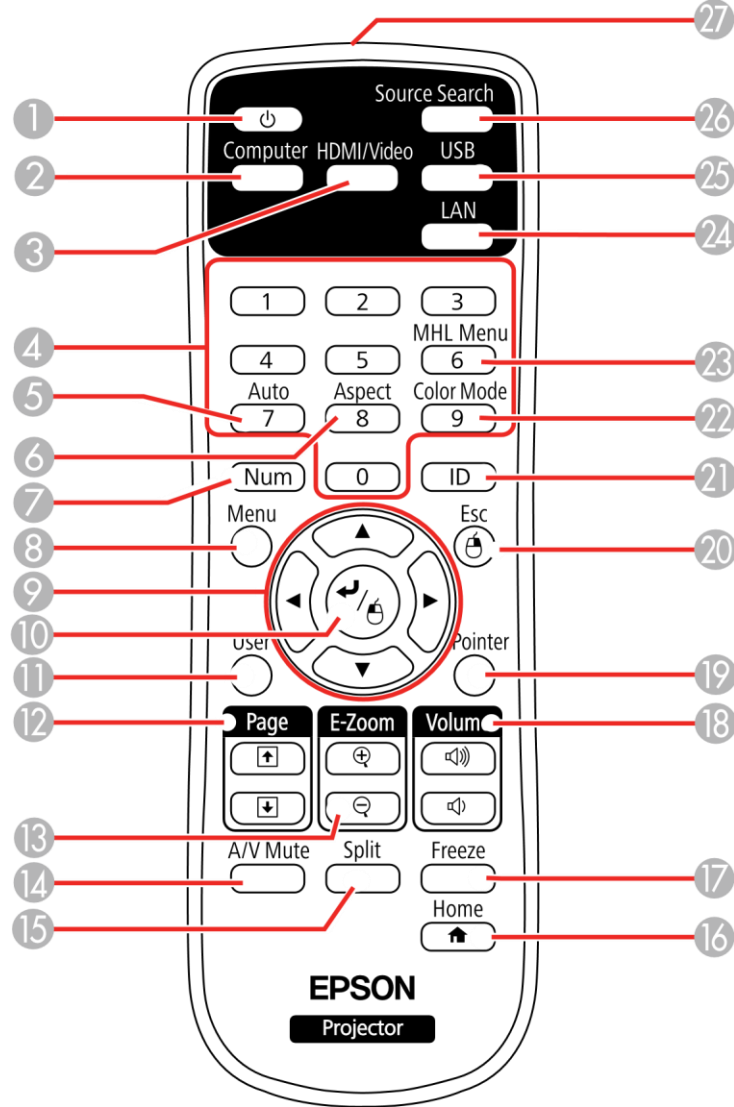
4 Front adjustable foot

Projector Parts - Control Panel



- 1 **Source Search** button (searches for connected video sources)
- 2 **Enter** button (selects options)
- 3 Vertical keystone adjustment buttons (displays the adjustment screen and adjusts screen shape) and arrow buttons
- 4 **Esc** button (cancels/exits functions)
- 5 Volume buttons (adjust speaker volume), horizontal keystone adjustment buttons, and arrow buttons
- 6 **Menu** button (accesses projector menu system)
- 7 **Home** button (displays Home screen)
- 8 Power button
- 9 Status lights

Projector Parts - Remote Control



1 Power button

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- 2 **Computer** button (cycles through connected computer sources)
- 3 **HDMI/Video** button (cycles through connected HDMI/video sources)
- 4 Numeric buttons (enter numbers when you hold down the **Num** button)
- 5 **Auto** button (automatically adjusts position, tracking, and sync settings when projecting from a computer using a VGA cable)
- 6 **Aspect** button (selects the image aspect ratio)
- 7 **Num** button (when held down, switches numeric buttons to number function)
- 8 **Menu** button (accesses projector menu system)
- 9 Arrow buttons (move through on-screen options and control wireless mouse functions)
- 10 Enter button (selects options and controls wireless mouse functions)
- 11 **User** button (customizable for different functions)
- 12 **Page up/down** buttons (control presentation slides)
- 13 **E-Zoom +/-** buttons (zoom into and out of the image)
- 14 **A/V Mute** button (turns off picture and sound)
- 15 **Split** button (splits the screen between two image sources)
- 16 **Home** button (accesses source selection, projector help information, and other features)
- 17 **Freeze** button (stops video action)
- 18 **Volume up/down** buttons (adjust speaker volume)
- 19 **Pointer** button (activates on-screen pointer)
- 20 **Esc** button (cancels/exits functions and controls wireless mouse functions)
- 21 **ID** button (selects which projector you want to control)
- 22 **Color Mode** button (selects display modes)
- 23 **MHL Menu** button (displays settings or performs functions for the MHL device)
- 24 **LAN** button (cycles through connected network sources)
- 25 **USB** button (cycles through connected USB sources)
- 26 **Source Search** button (searches for connected sources)
- 27 Remote control signal emitter (emits remote control signals)

Projector Connections

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

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

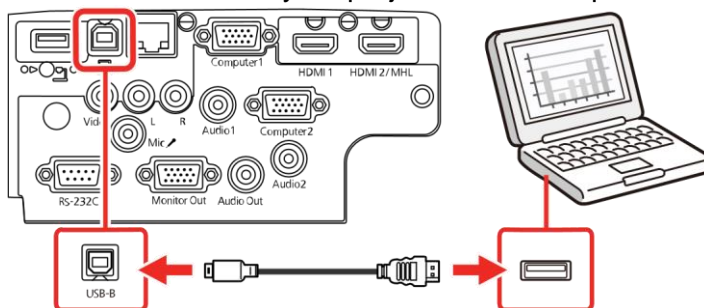
Connecting to Computer Sources

Connecting to a Computer for USB Video and Audio

If your computer meets the system requirements, you can send video and audio output to the projector through the computer's USB port (preferably USB 2.0). Connect the projector to your computer using a USB cable.

Note: An HDMI connection is recommended for projecting content requiring high bandwidth.

1. Turn on your computer.
2. Connect the cable to your projector's **USB-B** port.



3. Connect the other end to any available USB port on your computer.
4. Do one of the following:
 - **Windows 10/Windows 8.x:** Click **EPSON_PJ_UD** when it appears on the desktop, then select **Run EMP_UDSE.EXE** in the dialog box that appears to install the Epson USB Display software.

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- **Windows 7/Windows Vista:** Select **Run EMP_UDSE.EXE** in the dialog box that appears to install the Epson USB Display software.
- **Mac:** The USB Display setup folder appears on your screen. Select **USB Display Installer** and follow the on-screen instructions to install the Epson USB Display software.

Follow any on-screen instructions. You need to install this software only the first time you connect the projector to the computer.

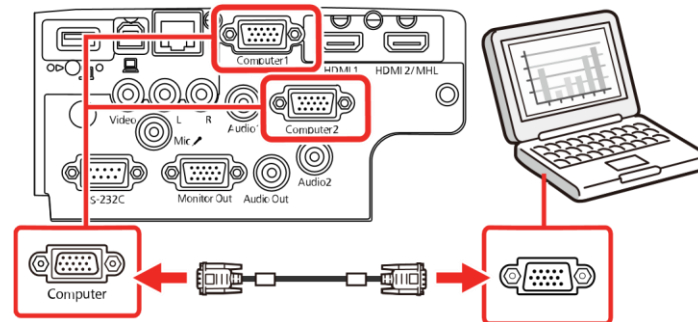
The projector displays the image from your computer's desktop and outputs sound, if your presentation contains audio.

Connecting to a Computer for VGA Video

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

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

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



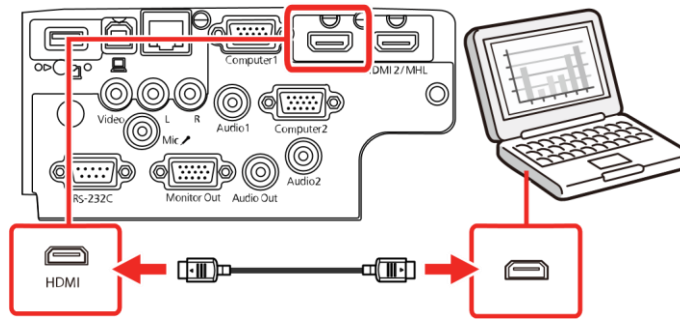
4. Tighten the screws on the VGA connector.

Connecting to a Computer for HDMI Video and Audio

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

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

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



Note: The projector converts the digital audio signal sent from your computer into a mono analog signal for the internal speaker or a stereo analog signal if you are connecting to external speakers. (Make sure the HDMI audio playback device on your computer's audio settings is set to **EPSON PJ.**)

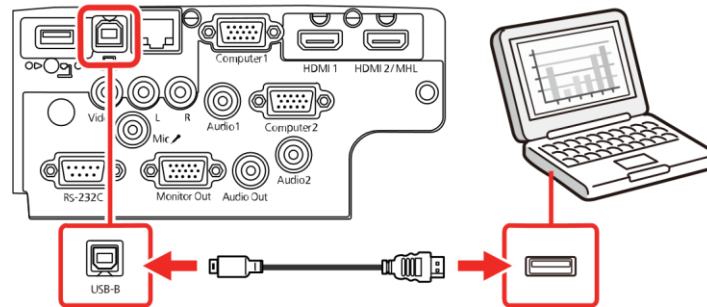
Note: If you have problems hearing audio through the HDMI connection, connect one end of an optional 3.5 mm stereo mini-jack audio cable to the projector's **Audio** port and the other end to your computer's audio out port. Then select the audio port you connected to as the **HDMI Audio Output** setting in the Extended menu.

Connecting to a Computer for USB Mouse Control

If you connected your computer to a **Computer**, **USB-B**, or **HDMI** port on the projector, you can set up the remote control to act as a wireless mouse. This lets you control projection at a distance from your computer. To do this, connect the projector to your computer using a USB cable, if it is not connected already.

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1. Connect a USB cable to your projector's **USB-B** port.

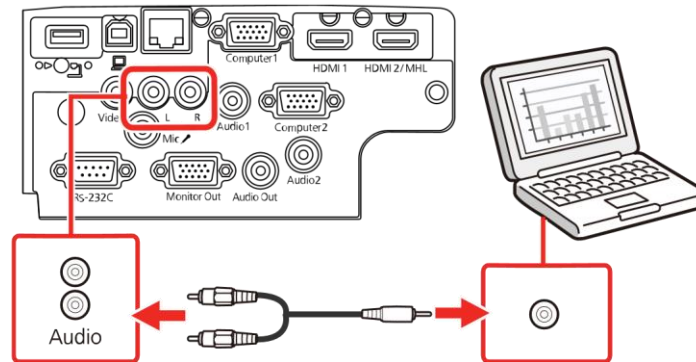


2. Connect the other end to any available USB port on your computer.
3. If necessary, configure your computer to work with an external USB mouse. See your computer documentation for details.

Connecting to a Computer for Sound

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

1. Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.
2. Connect the other end to the projector's **Audio** ports.



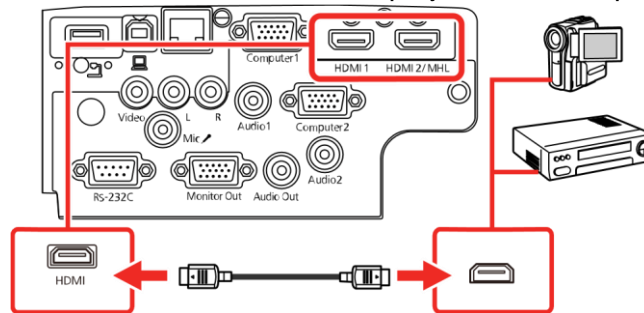
Connecting to Video Sources

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

Connecting to an HDMI Video Source

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

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



Note: The projector converts the digital audio signal sent from your video source into a mono analog signal for the internal speaker or a stereo analog signal if you are connecting to external speakers.

Note: If you have problems hearing audio through the HDMI connection, you can use the **Audio** port instead to play sound. Connect one end of an optional 3.5 mm stereo mini-jack audio cable to the projector's **Audio** port and the other end to your computer's audio out port. Then select **Audio** as the **HDMI Audio Output** setting in the Extended menu.

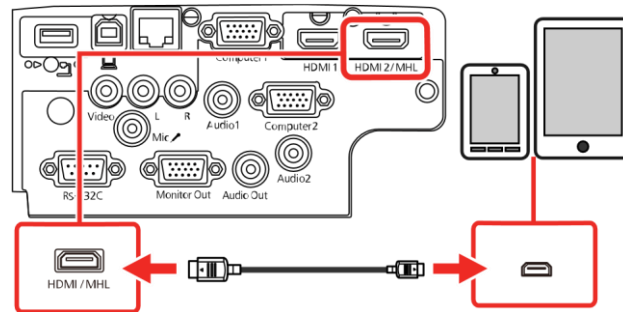
Connecting to an MHL-Compatible Device

If you have an MHL-compatible smartphone or tablet, you can connect it to the projector using either an MHL cable or an HDMI cable with a device-compatible MHL adapter. If you have a device with a built-in MHL connector, plug it directly into the **HDMI2/MHL** port.

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

1. Connect the MHL cable or adapter to your device's Micro-USB port.
2. If you are using an MHL adapter, connect it to an MHL-compatible HDMI cable.
3. other end of the cable to the projector's **HDMI2/MHL** port.

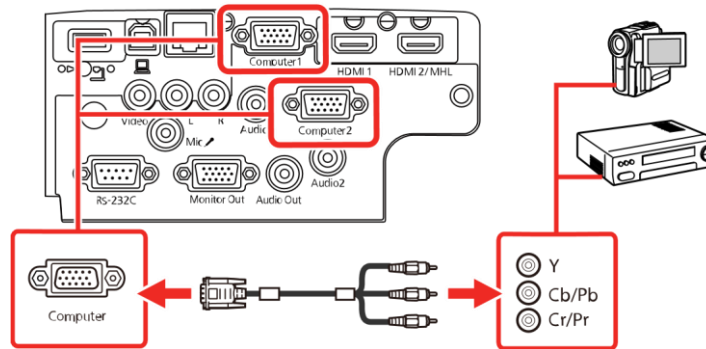


Note: The projector converts the digital audio signal sent from your video source into a mono analog signal for the internal speaker or a stereo analog signal if you are connecting to external speakers.

Connecting to a Component Video Source

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

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



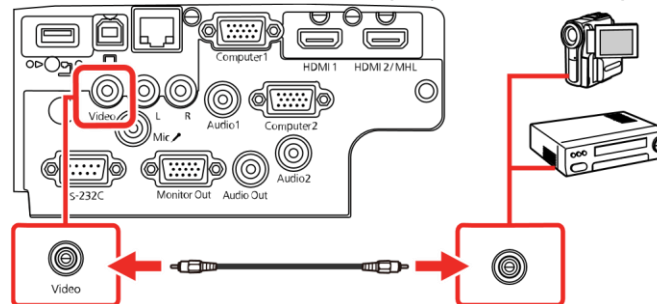
3. Tighten the screws on the VGA connector.

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

Connecting to a Composite Video Source

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

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



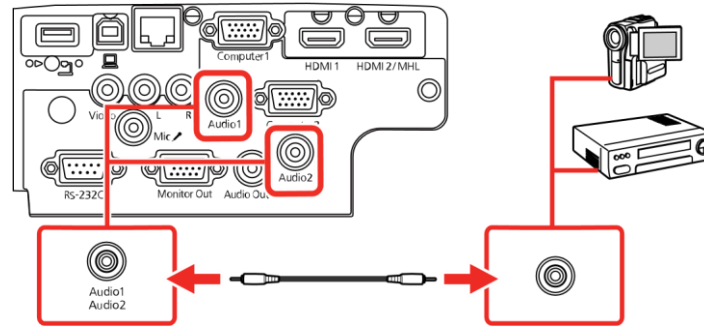
Connecting to a Video Source for Sound

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

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

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



Connecting External Output Devices

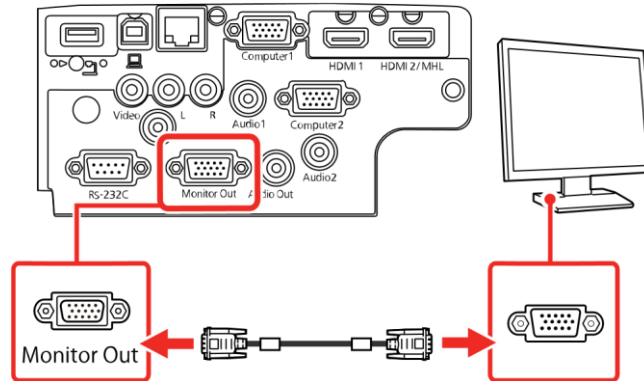
Connecting to an External Computer Monitor

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

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

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

1. Make sure your computer is connected to the projector's **Computer** port. If there are two computer ports, make sure you use the **Computer1** port.
2. external monitor's cable to your projector's **Monitor Out** port.
- 3.



Connecting to External Speakers

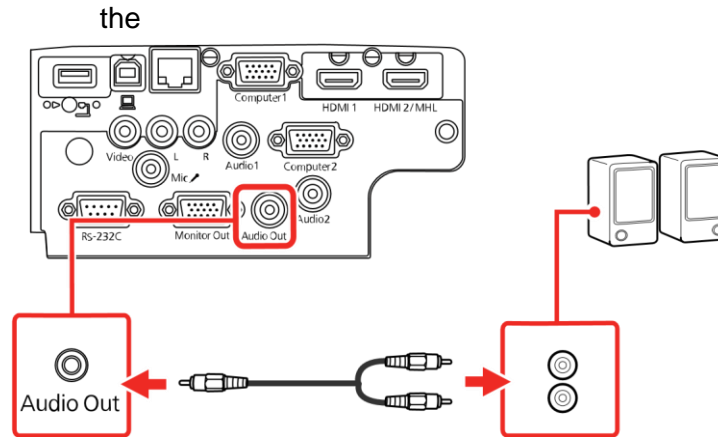
To enhance the sound from your presentation, you can connect the projector to external self-powered speakers. You can control the volume using the projector's remote control.

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

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

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

1. Make sure your computer or video source is connected to the projector with both audio and video cables as necessary.
2. Locate the appropriate cable to connect your external speakers, such as a stereo mini-jack-to-pinjack 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.

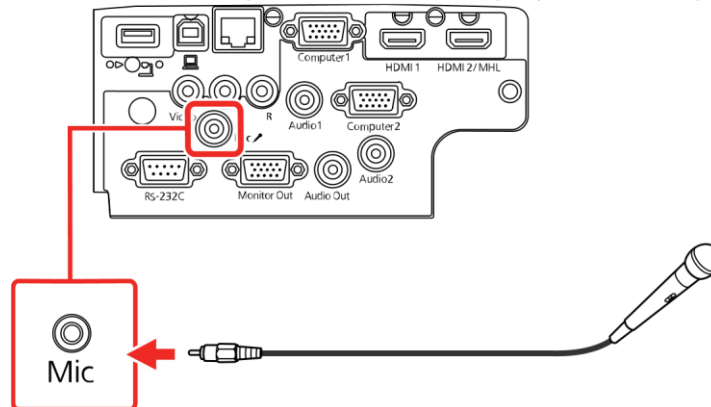


Connecting a Microphone

You can connect a microphone to the projector's **Mic** port to provide audio support during presentations.

Note: If you want to output audio from the microphone when the projector is off, select **Always On** as the **A/V Output** setting in the Extended menu.

1. Connect the microphone cable to the projector's **Mic** port.



2. Turn on the microphone, if necessary.

Connecting to External USB Devices

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

USB Device Projection

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

- USB flash drive

- Digital camera or smartphone
- USB hard drive
- Multimedia storage viewer

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

Note: USB hard drives must meet these requirements:

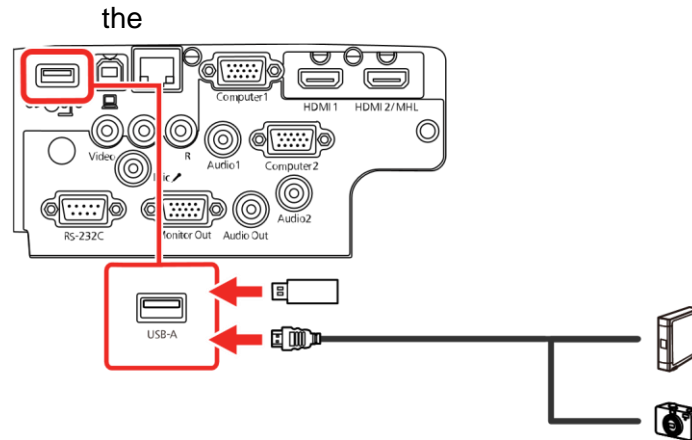
- USB Mass Storage Class-compliant (not all USB Mass Storage Class devices are supported)
- Formatted in FAT or FAT32
- Self-powered by their own AC power supplies (bus-powered hard drives are not recommended)
- Does not have multiple partitions

You can project slide shows from image files on a connected USB device.

Connecting a USB Device or Camera to the Projector

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

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



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

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

Selecting the Connected USB Source

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

1. Make sure the connected USB source is turned on, if necessary.
2. Press the **USB** button on the remote control.

Disconnecting a USB Device or Camera From the Projector

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

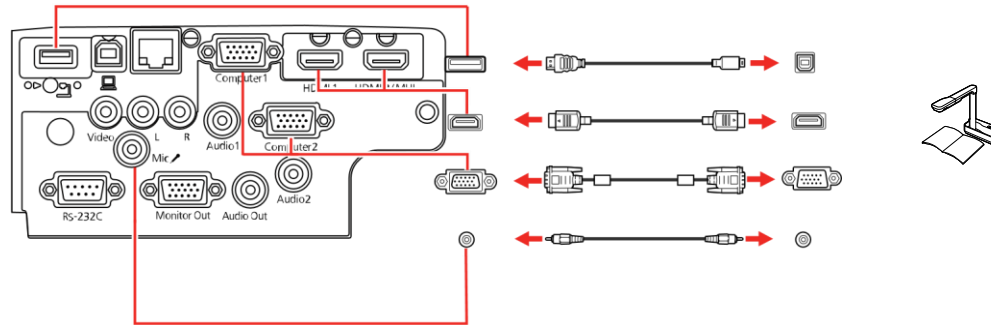
1. If the device has a power button, turn off and unplug the device.
2. Disconnect the USB device or camera from the projector.

Connecting to a Document Camera

You can connect a document camera to your projector to project images viewed by the camera.

Depending on your Epson document camera model, do one of the following to connect the document camera to your projector:

- For the Epson DC-07 document camera, locate the USB cable that came with the camera and connect it to the projector's **USB-A** port and to the document camera's USB Type B port.
- For the Epson DC-13 document camera, connect it to the projector's **HDMI**, **Computer**, or **Video** port and to the corresponding port on the document camera. See the document camera manual for details.
- For the Epson DC-21 document camera, connect it to the projector's **HDMI**, **Computer**, or **Video** port and to the corresponding port on the document camera. See the document camera manual for details.

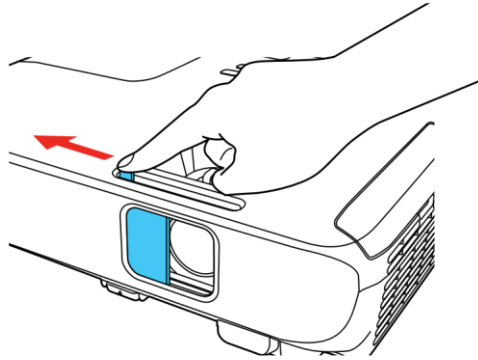


Note: For additional features supported by software, connect your document camera to your computer instead of the projector. See the document camera manual for details.

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Opening the Lens Cover

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



Wireless Network Projection

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

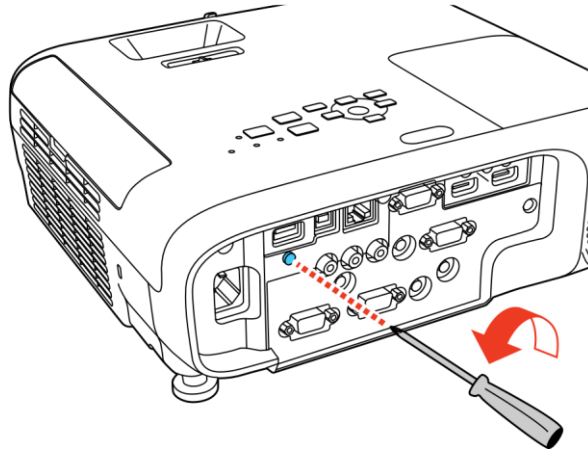
Note: If your projector is connected via a LAN cable to a network that includes a wireless access point, you can connect to the projector wirelessly through the access point using the Epson network software.

Installing the Wireless LAN Module

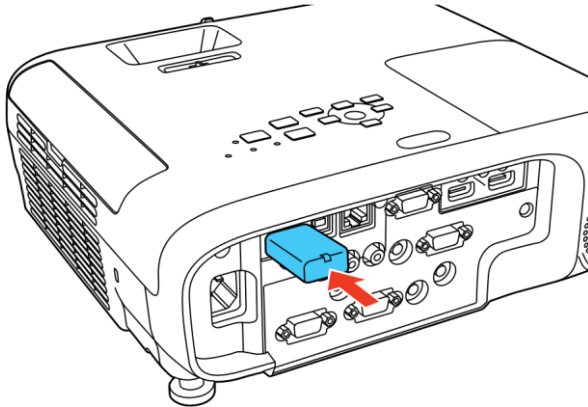
To use the projector over a wireless network, install the Epson 802.11b/g/n wireless LAN module in the projector. Do not install any other type of wireless module.

Note: The wireless LAN module is not included with your projector and is optional.

1. Remove the wireless LAN module cover screw.

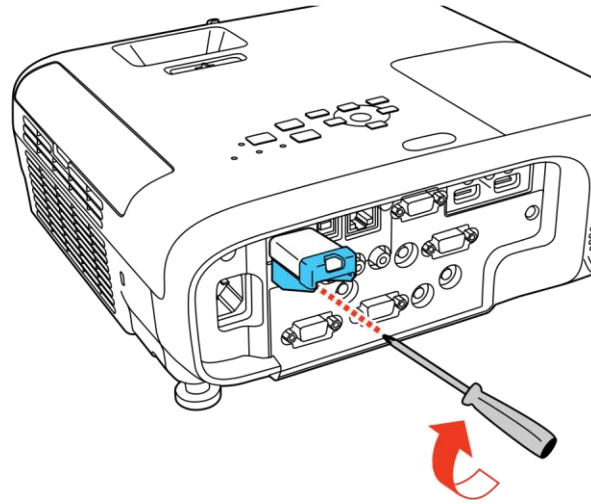


2. Insert the wireless LAN module into the **USB-A** port.



3. Attach the wireless LAN module cover and secure it using the screw you removed.

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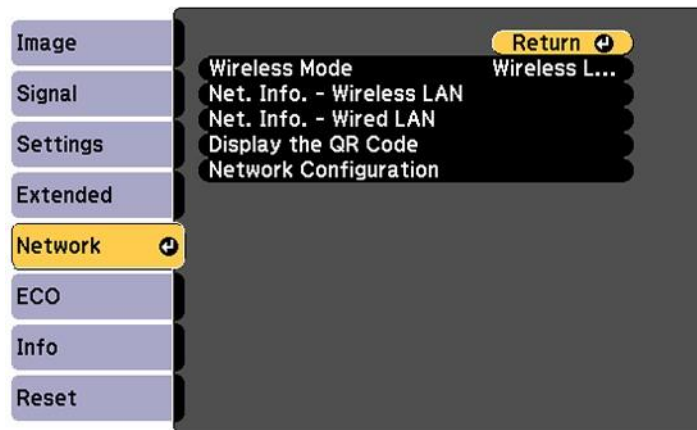


The light on the wireless LAN module turns on when the module is installed and operating. The light flashes when the module is communicating over the network.

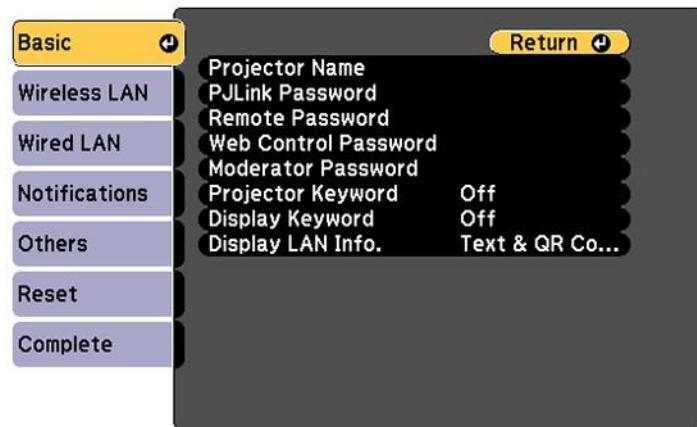
Using a QR Code to Connect a Mobile Device

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

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



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



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

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- Select **Display the QR Code** in the projector's Network menu.

Your projector displays the QR code on the projection surface.

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

8. Start Epson iProjection on your mobile device.
9. Use the QR code reader feature to read the QR code and connect your device to the projector Using Quick Wireless Connection (Windows)

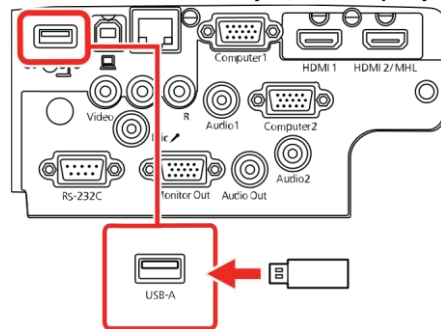
You can create a Quick Wireless Connection USB Key to quickly connect the projector to a Windows computer wirelessly. Then you can project your presentation and remove the key when you are done.

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

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

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

2. Turn on the projector.
3. Remove the wireless LAN module from the **USB-A** port.
4. Insert USB key into the projector's **USB-A** port.



You see a projected message that the network information update is complete.

5. Remove the USB key.
6. Reinsert the wireless LAN module into the projector.
7. Insert the USB key into a USB port on your computer.

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

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

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

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

9. Run your presentation as necessary.
10. When you finish projecting wirelessly, select the **Safely Remove Hardware** option in the Windows taskbar, then remove the USB key from your computer.

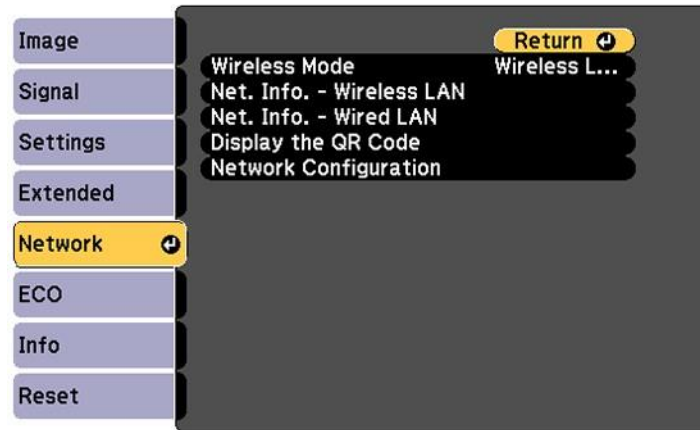
Note: You can share the USB key with other computers without disconnecting your computer. You may need to restart your computer to reactivate your wireless LAN connection.

Selecting Wireless Network Settings Manually

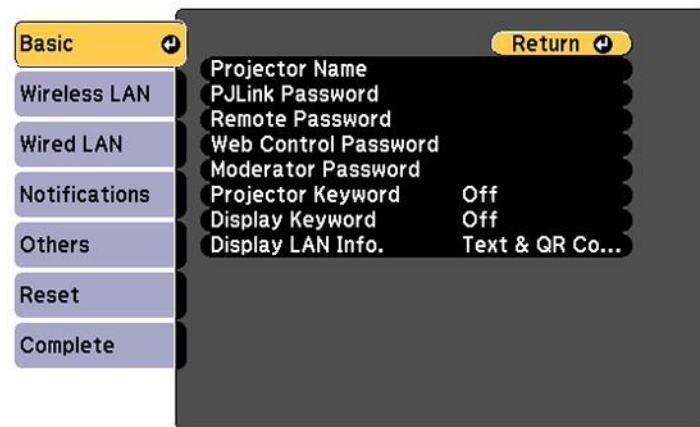
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

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

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



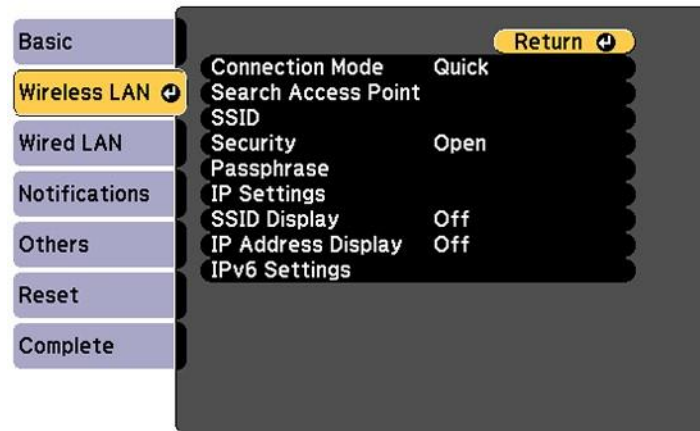
7. Select the following basic options as necessary:
 - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.

- **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 the Epson Web Control. (Default user name is **EPSONREMOTE**; default password is **guest**.)
- **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web. (Default user name is **EPSONWEB**; default password is **admin**.)
- **Moderator Password** lets you enter a password up to 4 numbers long for accessing the projector as a moderator with the Epson iProjection (Windows/Mac) software or the Epson iProjection app.
- **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. The projector displays a random keyword that you must enter from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.
- **Display Keyword** lets you display a keyword on the projected image when accessing the projector from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.
- **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices with the Epson iProjection app.

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

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

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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.

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

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 smartphones, tablets, or computers via a wireless network access point
Search Access Point	To Search View	Search for available wireless network access points in Advanced connection mode
SSID	Up 32 alphanumeric characters	Sets the SSID (network name) of the wireless LAN system the projector is connecting to
Security	Open WPA2-PSK WPA/WPA2-PSK	Selects the type of wireless security used in the wireless network (some options are only available when the Connection Mode setting is set to Advanced)
Passphrase	Between 8 to 63 alphanumeric characters	Enter a paraphrase for the wireless network

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

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**.

Selecting Wireless Network Settings on Mac

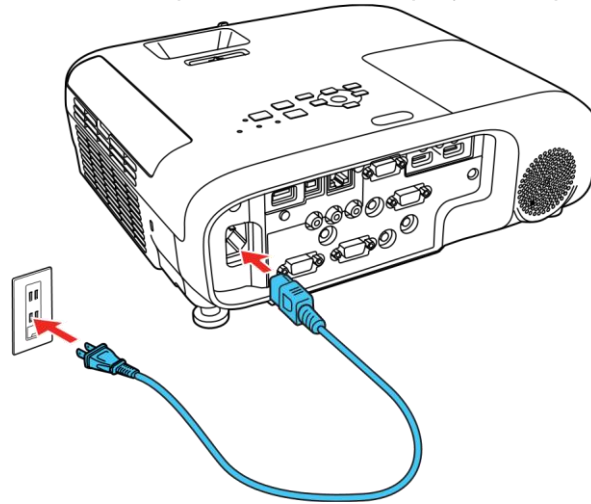
Before connecting to the projector, select the correct wireless network on your Mac.

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.

Turning On the Projector

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

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



2. Plug the power cord into an electrical outlet.

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

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

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

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

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

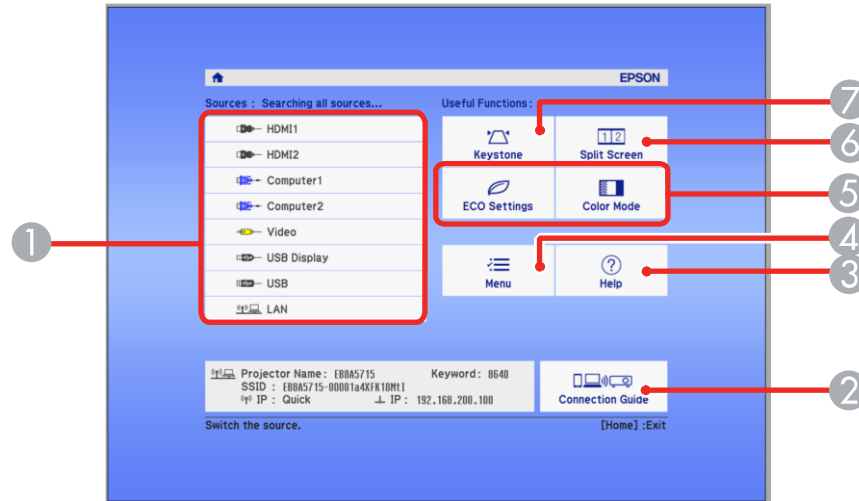
If you do not see a projected image right away, try the following:

- Verify the lens cover is open all the way.
- Turn on the connected computer or video device.
- Insert a DVD or other video media and press the play button, if necessary.
- Change the screen output from the computer when using a laptop.
- Press the **Source Search** button on the projector or remote control to detect the video source.
- Press the button for the video source on the remote control.
- If the Home screen is displayed, select the source you want to project.

Using the Home Screen

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

1. To display the Home screen, do one of the following:
 - Press the **Home** button on the remote control.
 - Turn on the projector with the **Home Screen Auto Disp** setting enabled.
 - Turn on the projector when no signal is received from the selected input source.
2. Press the arrow buttons on the remote control or control panel to navigate the screen, and press **Enter** to select an option.



- 1 Select the video source you want to project
- 2 Display the Connection Guide
- 3 Display the Help screen
- 4 Display the projector's menus
- 5 Select customizable menu options
- 6 Select to project two images from different image sources simultaneously
- 7 Correct the image shape

Note: Your Home screen may look different from the illustration shown here. You can select the customizable menu options using the **Custom Function 1** and **Custom Function 2** settings in the Extended menu.

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

Turning Off the Projector

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

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

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

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

The projector displays a shutdown confirmation screen.

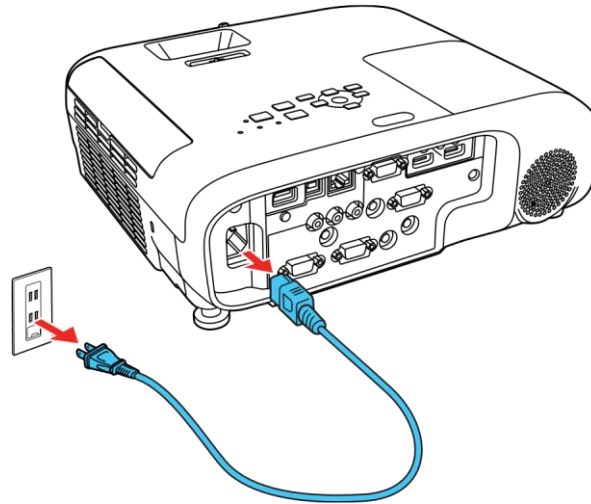


2. Press the power button again. (To leave it on, press any other button.)

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

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

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



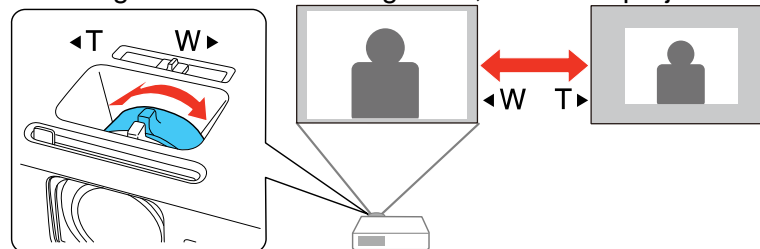
Caution: To avoid damaging the projector or lamp, never unplug the power cord when the Status light is on or flashing.

Resizing the Image with the Zoom Ring

1. Turn on the projector and display an image.

Note: You can also display the pattern by pressing the **User** button on the remote control (if the test pattern is assigned to this button).

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



Focusing the Image Using the Focus Ring

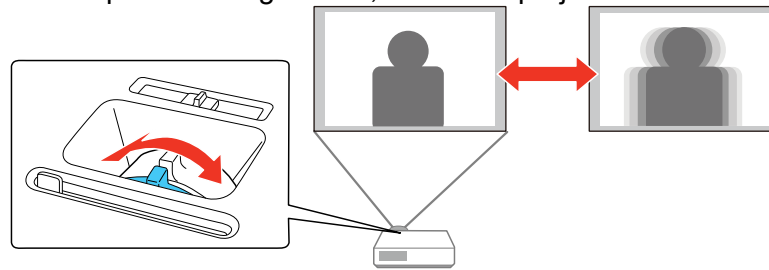
You can correct the focus using the focus ring.

1. Turn on the projector and display an image.

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

Note: You can also display the pattern by pressing the **User** button on the remote control (if the test pattern is assigned to this button).

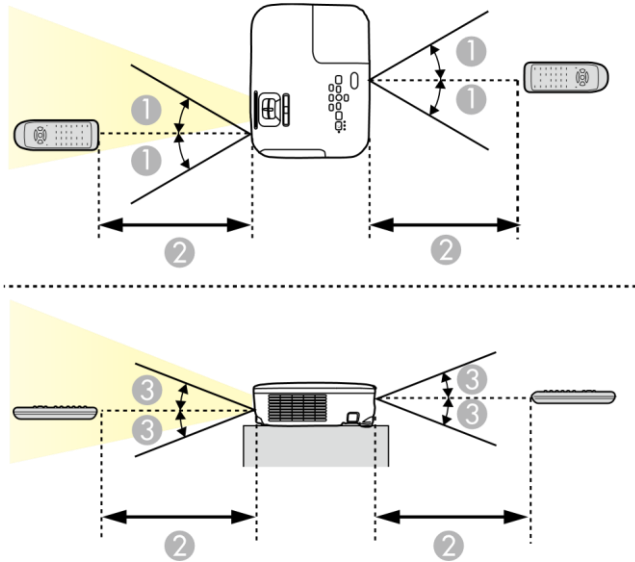
2. To sharpen the image focus, rotate the projector's focus ring.



Remote Control Operation

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

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



- 1 30°
- 2 19.7 feet (6 m)
- 3 15°

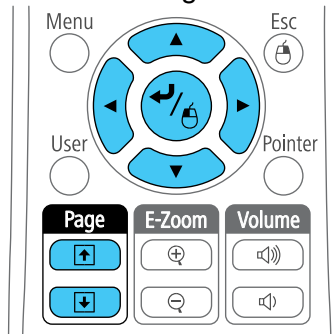
Note: Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you will not use the remote control for a long time, remove the batteries.




Using the Remote Control as a Wireless Mouse

You can use the projector's remote control as a wireless mouse so you can control projection at a distance from the computer. The computer must be running Windows Vista or later, OS X 10.7 or later, macOS 10.12.x, or macOS 10.13.x.

1. Connect the projector to a computer using the projector's **USB-B**, **Computer**, or **HDMI** port to display video.

2. If you connected your computer to a port other than the projector's **USB-B** port, also connect a USB cable to the projector's **USB-B** port and to a USB port on your computer (for wireless mouse support).
3. Start your presentation.
4. Use the following buttons on the remote control to control your presentation:
 - To move through slides or pages, press the up or down **Page** buttons.

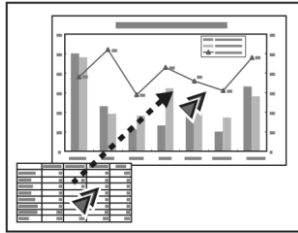


- To move the cursor on the screen, use the arrow buttons.
- To left-click, press the  button once (press it twice to double-click).
- To right-click, press the **Esc** button.
- To drag-and-drop, hold the  button as you move the cursor with the arrow buttons, then release  at the destination.

Using the Remote Control as a Pointer

You can use the projector's remote control as a pointer to help you call out important information on the screen. The default pointer shape is an arrow, but you can select an alternative shape using the Settings menu.

1. Press the **Pointer** button on the remote control.
2. Use the arrow buttons on the remote control to move the pointer on the screen.



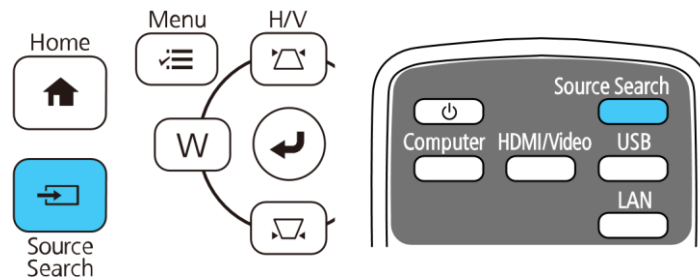
3. Press the **Esc** or **Pointer** button to clear the pointer from the screen.

Selecting an Image Source

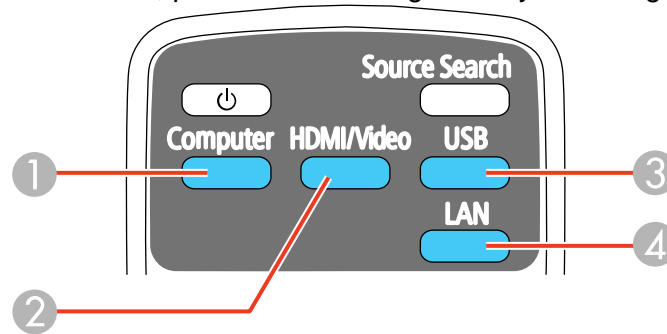
If you connected multiple image sources to the projector, such as a computer and DVD player, you may want to switch from one image source to the other.

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

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



- Press the button for the source you want on the remote control. If there is more than one port for that source, press the button again to cycle through the sources.



- 1 Computer port sources
 - 2 Video, HDMI, and MHL sources
 - 3 USB port sources (computer display and external devices)
 - 4 Network source (LAN)
- Press the **Home** button on the remote control and select your image source.



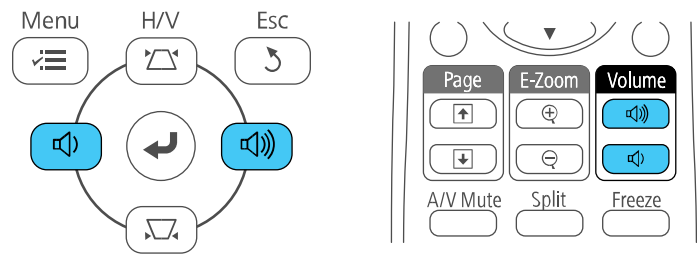
Note: Your Home screen may look different from the illustration shown here.

Controlling the Volume with the Volume Buttons

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

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

1. Turn on the projector and start a presentation that includes audio.
2. To lower or raise the volume, press the **Volume** buttons on the remote control or control panel.



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

Solving Problems

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

Projection Problem Tips

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

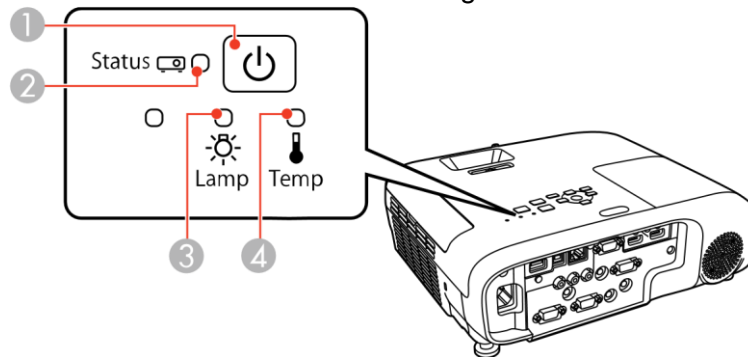
If this does not solve the problem, check the following:

- The lights on the projector may indicate what the problem is.
- The Help option on the Home screen can display information about common problems, if the projector is operating.
- The solutions in this manual can help you solve many problems.

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

Projector Light Status

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



- 1 Power light
- 2 Status light
- 3 Lamp light
- 4 Temp (temperature) light

Projector status

Power light	Status light	Lamp light	Temp light	Status and solution
Blue	Blue	Off	Off	Normal operation
Blue	Flashing blue	Off	Off	Warming up or cooling down
Blue	Off	Off	Off	Standby or sleep mode
Flashing blue	Off	Off	Off	Preparing for network monitoring

Power light	Status light	Lamp light	Temp light	Status and solution
Flashing blue	Light status varies	Light status varies	Flashing orange	Projector is too hot <ul style="list-style-type: none"> • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • Make sure the environmental temperature is not too hot

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

Flashing blue	Light status varies	Flashing orange	Light status varies	Replace the lamp soon to avoid damage; do not continue using the projector
Off	Flashing blue	Off	Flashing orange	A fan or sensor has a problem; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Flashing orange	Off	Internal projector error; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Flashing orange	Flashing orange	Auto iris error; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Orange	Orange	Power error; turn the projector off, unplug it, and contact Epson for help

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

Using the Projector Help Displays

You can display information to help you solve common problems using the projector's Help system.

1. Turn on the projector.
2. Press the **Home** button on the projector or the remote control.
3. Press the arrow buttons to select **Help**.
4. Press **Enter**.
You see the Help menu.
5. Press the up and down arrow buttons to highlight the problem you want to solve.
6. Press **Enter** to view the solutions.
7. When you are finished, do one of the following:

- To select another problem to solve, press **Esc**.
- To exit the help system, press **Home**.

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

If no image appears, try the following solutions:

- Make sure the lens cover is open all the way.
- Press the **AV Mute** button on the remote control to see if the image was temporarily turned off.
- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- Press the projector's power button to wake it from standby or sleep mode. Also see if your connected computer is in sleep mode or displaying a blank screen saver.
- Press the **Menu** button. If the projector menu is able to display, there may be a problem with the connected video source, cable connection, or port.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the **Brightness** setting or select the **Normal** Power Consumption setting.
- Check the **Display** setting to make sure **Messages** is set to **On**.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked. Unlock the buttons.
- If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

- The projector may not be able to project copyrighted videos that you play back on a computer. For details, see the manual supplied with your computer.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Solutions When Image is Incorrect Using the USB Display Function

If no image appears or if the image appears incorrectly using the USB Display function, try the following solutions:

- Press the **USB** button on the remote control.
- Make sure the USB Display software has installed correctly. Install it manually if necessary.
- On a Mac, select the **USB Display** icon in the Dock or from the **Applications** folder.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.
- If the mouse cursor flickers, select **Make the movement of the mouse pointer smooth** in the Epson USB Display Settings program on your computer.
- Turn off the **Transfer layered window** setting in the Epson USB Display Settings program on your computer.
- If you are projecting using the 1080p video format and change the computer resolution during projection, the video quality and performance may decline.
- Make sure you are using the most recent version of the USB Display software. You can download the latest version from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector.

Solutions When "No Signal" Message Appears

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

- Press the **Source Search** button and wait a few seconds for an image to appear.

Press **Home** button on the remote control 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.

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**.

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.

Solutions When "Not Supported" Message Appears

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

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

Solutions When Only a Partial Image Appears

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

- Press the **Auto** button on the remote control to optimize the image signal.
- Make sure the **Resolution** setting in the Signal menu is set correctly for the input signal.
- Try adjusting the image position using the **Position** menu setting.
- Press the **Aspect** button on the remote control to select a different image aspect ratio.
- If you zoomed into or out of the image using the **E-Zoom** buttons, press the **Esc** button until the projector returns to a full display.

Check cables connecting the computer or video source to the projector. Try connecting different cables.

- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)
- Make sure you selected the correct **Projection** setting.

Solutions When the Image is Not Rectangular

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

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

Solutions When the Image Contains Noise or Static

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

- Check the cables connecting your computer or video source to the projector. They should be:
 - Separated from the power cord to prevent interference
 - Securely connected at both ends
 - Not connected to an extension cable
 - No longer than 9.8 feet (3 m) for VGA/computer cables or 24 feet (7.3 m) for HDMI cables
- Check the settings on the projector's Signal menu to make sure they match the video source. If available for your video source, adjust the **Deinterlacing** and **Noise Reduction** settings.
- If available for your video source, select **Auto** as the Resolution setting in the Signal menu.

- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If the problem remains, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
- If you are using the USB Display function, turn off the **Transfer layered window** setting in the Epson USB Display Settings program on your computer.
- Try a different cable.

Solutions When the Image is Fuzzy or Blurry

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

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

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

- Position the projector close enough to the screen.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Turn on automatic keystone adjustment in the projector's menus.

Adjust **Sharpness** setting to improve image quality.

- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If any bands or overall blurriness remain, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you are projecting from a computer, try using a lower resolution or try to match the projector's native resolution.

Solutions When the Image Brightness or Colors are Incorrect

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

- Press the **Color Mode** button on the remote control to try different color modes for the image and environment.
- Check your video source settings.
- Adjust the available settings on the Image menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, **Color Temp.**, and/or **Color Saturation**.
- Make sure you selected the correct **Input Signal** or **Video Signal** setting on the Signal menu, if available for your image source.
- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.
- Position the projector close enough to the screen.
- If the image has been progressively darkening, you may need to replace the projector lamp soon.

Solutions to Sound Problems

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

- Adjust the projector's volume settings.
- Press the **A/V Mute** button on the remote control to resume video and audio if they were temporarily stopped.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Try disconnecting and reconnecting the audio cable.
- Check the audio cable connections between the projector and your video source • If you do not hear sound from an HDMI source, set the connected device to PCM output.
- Make sure any connected audio cables are labeled "No Resistance".
- If you are using the USB Display function, turn on the **Output audio from the projector** setting in the Epson USB Display Settings program on your computer.

- If you are using a Mac and you do not hear sound from an HDMI source, make sure your Mac supports audio through the HDMI port. If not, you need to connect an audio cable.
- If the volume for the computer is set to the minimum while the projector's volume is set to maximum, the noise may be mixed. Turn up the computer's volume and decrease the projector's volume.
- 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.

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

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

- Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- The projector's buttons may be locked for security. Unlock the buttons or use the remote control to turn on the projector.
- If the projector's lamp shuts off unexpectedly, it may have entered standby mode after a period of inactivity. Press the power button to wake the projector and adjust the **Sleep Mode Timer** setting to change the sleep interval.

- If the power button on the remote control does not turn on the projector, check its batteries and make sure the **Remote Receiver** setting is turned on in the projector's menu, if available.
- The power cord may be defective. Try another power cord. If that doesn't work, disconnect the cord and contact Epson.

Solutions to Problems with the Remote Control

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

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

Solutions to Password Problems

If you cannot enter or remember a password, try the following solutions:

- You may have turned on password protection without first setting a password. Try entering **0000** using the remote control.

- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson. Do not attempt to enter the password again. Provide the request code and proof of ownership for assistance in unlocking the projector.

If you set a Epson Web Control password and forgot the user ID or password, try entering the following:

- User ID: **EPSONWEB**
- Default password: **admin**
- If you set a Remote password (in Epson Web Control) and forgot the user ID or password, try entering the following:
- User ID: **EPSONREMOTE**
- Default password: **guest**
- If you lose the remote control, you cannot enter a password. Order a new one from Epson.

Solving Network Problems

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

Solutions When Wireless Authentication Fails

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

- Make sure the **Wireless Mode** setting is set to **Wireless Lan On**.
- Check the Security settings and passphrase in the Network Configuration menu.
- Check the Event ID number displayed in the Info menu and check the link below to identify the problem.

Solutions When You Cannot Access the Projector Through the Web

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

Note: You cannot change the user ID.

- You may need to log in to access some options on the Web Control screen. If you see a log in window, enter **EPSONWEB** as the user ID and enter the password set in the projector's Network menu as the password. The default password is **admin**.
- To display the Web Remote screen, enter **EPSONREMOTE** as the user ID and enter the password set in the projector's Network menu as the password. The default password is **guest**.
- Make sure you have access to the network the projector is on.

Note: The user ID and password are case sensitive.

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.