

**EX3240/EX5240/EX5250 Pro/  
EX7240 Pro/EX9200 Pro/VS240/  
VS340/VS345 User's Guide**

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# **EX3240/EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS240/VS340/VS345 User's Guide**

Welcome to the EX3240/EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS240/VS340/VS345 *User's Guide*.

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# Introduction to Your Projector

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

[Projector Features](#)

[Notations Used in the Documentation](#)

[Where to Go for Additional Information](#)

[Projector Part Locations](#)

## Projector Features

Your projector includes these special features:

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

- VS340: Up to 2800 lumens of color brightness (color light output) and 2800 lumens of white brightness (white light output)
- VS240/VS345: Up to 3000 lumens of color brightness (color light output) and 3000 lumens of white brightness (white light output)
- EX3240/EX5240/EX7240 Pro/EX9200 Pro: Up to 3200 lumens of color brightness (color light output) and 3200 lumens of white brightness (white light output)
- EX5250 Pro: Up to 3600 lumens of color brightness (color light output) and 3600 lumens of white brightness (white light output)

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

- EX3240/VS240: Native resolution of 800 × 600 pixels (SVGA)
- EX5240/EX5250 Pro/VS340: Native resolution of 1024 × 768 pixels (XGA)
- EX7240 Pro/VS345: Native resolution of 1280 × 800 pixels (WXGA)
- EX9200 Pro: Native resolution of 1920 × 1080 pixels (WUXGA)

### **Flexible connectivity**

- Plug-and-play 3-in-1 USB projection, audio, and mouse control for instant setup
- Built-in wireless LAN for projection, monitoring, and control via remote network computer (EX7240 Pro/EX9200 Pro)

- Wireless LAN module for projection, monitoring, and control via remote network computer (EX5250 Pro)
- PC Free photo slide shows via connected USB memory devices or Epson document camera
- Two HDMI ports for multiple high-definition AV devices, including MHL support (EX9200 Pro)
- HDMI/MHL port for computer or video device connection, including MHL-enabled devices (EX7240 Pro)
- HDMI port for computer or video device connection (EX3240 Pro/VS240/VS340/VS345)

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

- Epson's quick-connect on-screen QR code feature for easy wireless setup
- Low total cost of ownership with longer lamp life
- Automatic vertical keystone correction and innovative horizontal keystone correction slider for flexible projector placement
- 1.2× optical zoom ratio for improved zooming capability (EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345)
- Built-in closed captioning decoder
- Epson's Instant Off and Direct Power On features for quick setup and shut down

[Product Box Contents](#)

[Additional Components](#)

[Optional Equipment and Replacement Parts](#)

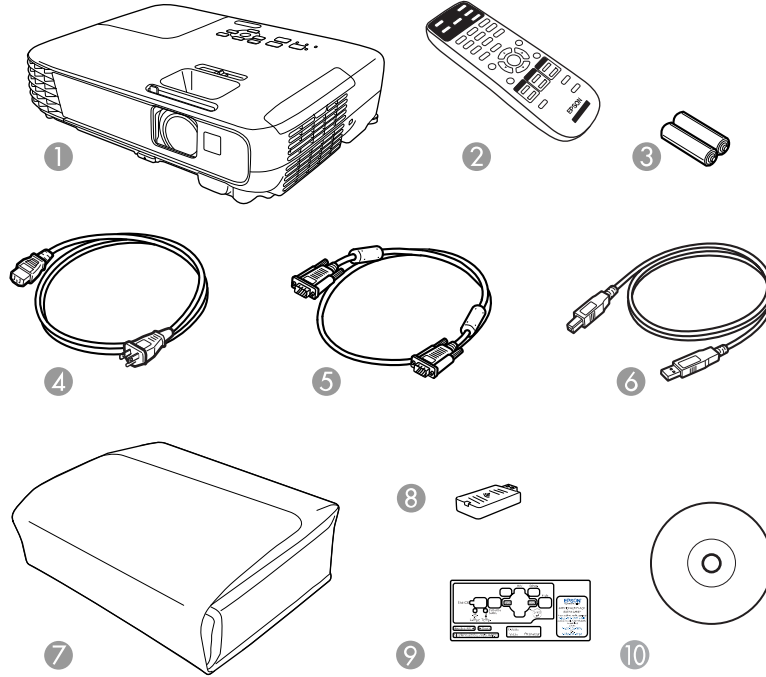
[Warranty and Registration Information](#)

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

## **Product Box Contents**

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

Make sure your projector box included all of these parts:



- 1 Projector
- 2 Remote control
- 3 Remote control batteries (two AA alkaline)
- 4 Power cord
- 5 VGA computer cable
- 6 USB cable (EX3240/EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro)
- 7 Carrying case (EX3240/EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro)
- 8 Wireless LAN module (EX5250 Pro)
- 9 French control panel stickers (included for Canada only)
- 10 Projector documentation CD

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

## Additional Components

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

- To receive a composite video signal, you need an RCA-style video or A/V cable. See your local computer or electronics dealer for purchase information.
- To receive an S-Video signal, you need an S-Video cable compatible with your device. See your local computer or electronics dealer for purchase information.
- To receive a component video signal, you need a D-sub, 15-pin, component-to-VGA video cable. You can purchase one from Epson or an authorized Epson reseller.
- To receive an HDMI signal, you need a compatible HDMI cable. You can purchase one from Epson or an authorized Epson reseller.

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

- To receive an HDMI signal via MHL, you need an MHL-compatible device, an MHL cable, or an HDMI cable and an MHL adapter compatible with your device (EX7240 Pro/EX9200 Pro). Devices with an integrated MHL connector may not require a cable. You can purchase an HDMI cable from Epson or an authorized Epson reseller.
- To project with audio from certain ports, you may need a commercially available audio cable compatible with your device. See your local computer or electronics dealer for purchase information.
- To connect a Mac that includes only a Mini DisplayPort, Thunderbolt port, or Mini-DVI port for video output to the projector's VGA video port, you need to obtain an adapter. Contact Apple for compatible adapter options.

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

### Related references

[Optional Equipment and Replacement Parts](#)

## Optional Equipment and Replacement Parts

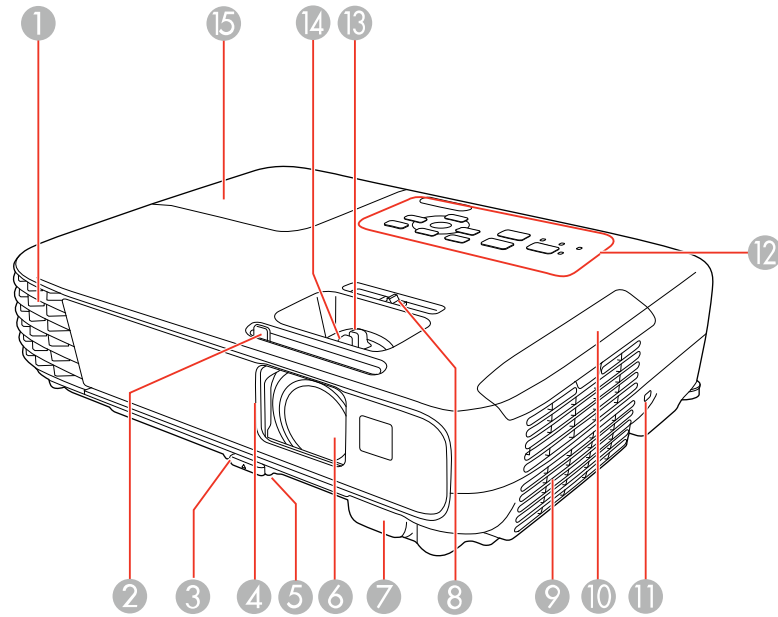
Epson offers the following optional accessories and replacement parts for your projector:

Option or part	Part number
Genuine Epson replacement lamp (ELPLP88)	V13H010L88
Replacement air filter (ELPAF32)	V13H134A32
Wireless LAN module (ELPAP10)	V12H731P02
Quick wireless connection USB key (ELPAP09)	V12H005M09
Epson DC-06 document camera	V12H321005
Epson DC-11 document camera	V12H377020
Epson DC-12 document camera	V12H594020
Epson DC-20 document camera	V12H500020
Universal projector ceiling mount	ELPMBPJF
Accolade Duet ultra portable projector screen	ELPSC80
ES1000 ultra portable tabletop projection screen	V12H002S4Y
ES3000 ultra portable projection screen	V12H002S3Y
Belkin PureAV HDMI audio video cable, 12 ft	AV22300-12
Remote control	1648806
1-Year Extended Exchange Service Plan	EPPEXPA1
2-Year Extended Exchange Service Plan	EPPEXPA2
1-Year Extended Depot Repair Service Plan	EPPFTPA1
2-Year Extended Depot Repair Service Plan	EPPFTPA2

Parent topic: [Projector Features](#)

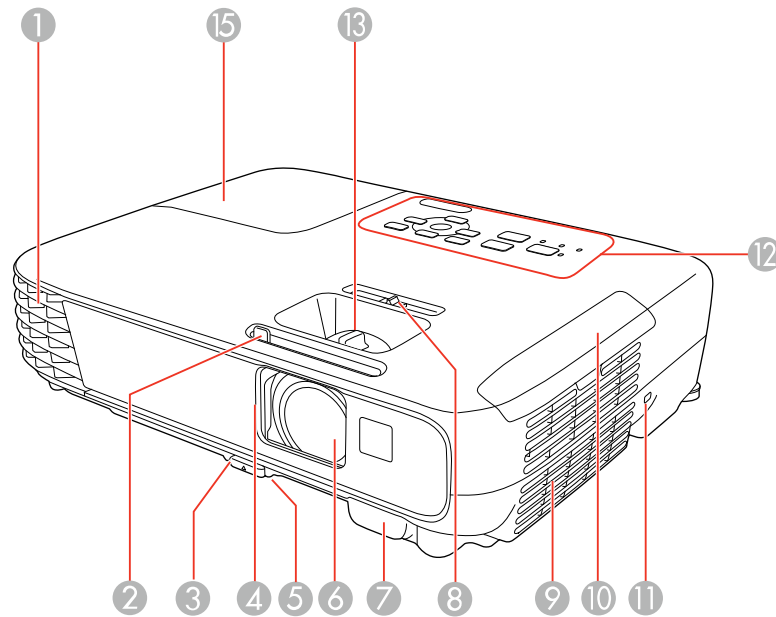
## Projector Parts - Front/Top

EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345





## EX3240/VS240



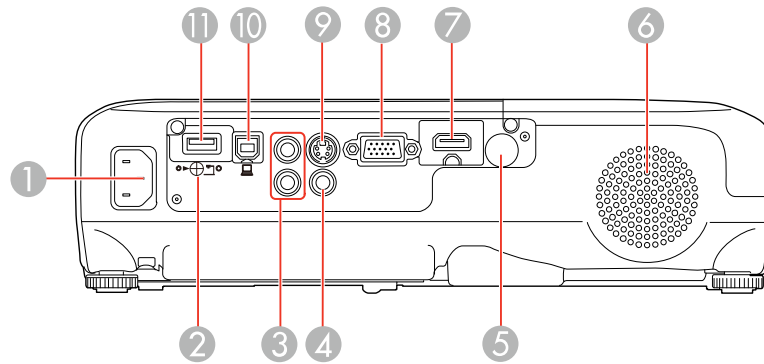
- 1 Exhaust vent
- 2 A/V Mute slide lever
- 3 Foot release lever
- 4 A/V Mute slide (lens cover)
- 5 Front adjustable foot
- 6 Lens
- 7 Remote receiver
- 8 Horizontal keystone slider
- 9 Air filter and intake vent
- 10 Air filter cover
- 11 Security lock slot
- 12 Control panel

- 13 Focus ring
- 14 Zoom ring (EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345)
- 15 Lamp cover

Parent topic: [Projector Part Locations](#)

## Projector Parts - Rear

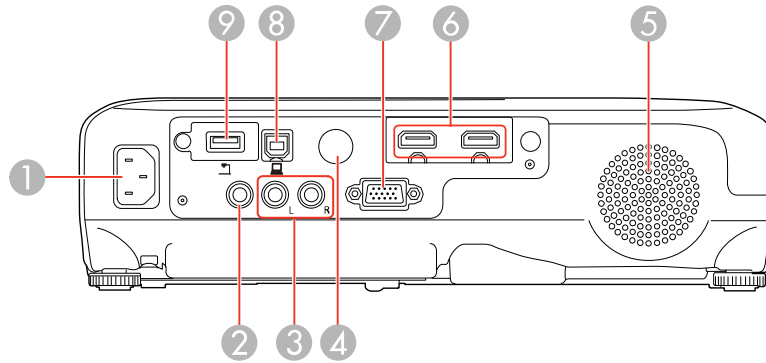
EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345



- 1 AC input port
- 2 Wireless LAN module cover screw (EX3240/EX5240/EX5250 Pro/VS240/VS340/VS345)
- 3 **Audio** ports
- 4 **Video** port
- 5 Remote receiver
- 6 Speaker
- 7 **HDMI** port (EX3240/EX5240/EX5250 Pro/VS240/VS340/VS345)  
**HDMI/MHL** port (EX7240 Pro)
- 8 **Computer** port
- 9 **S-Video** port
- 10 **USB-B** port

11 **USB-A/document camera/wireless LAN module port**

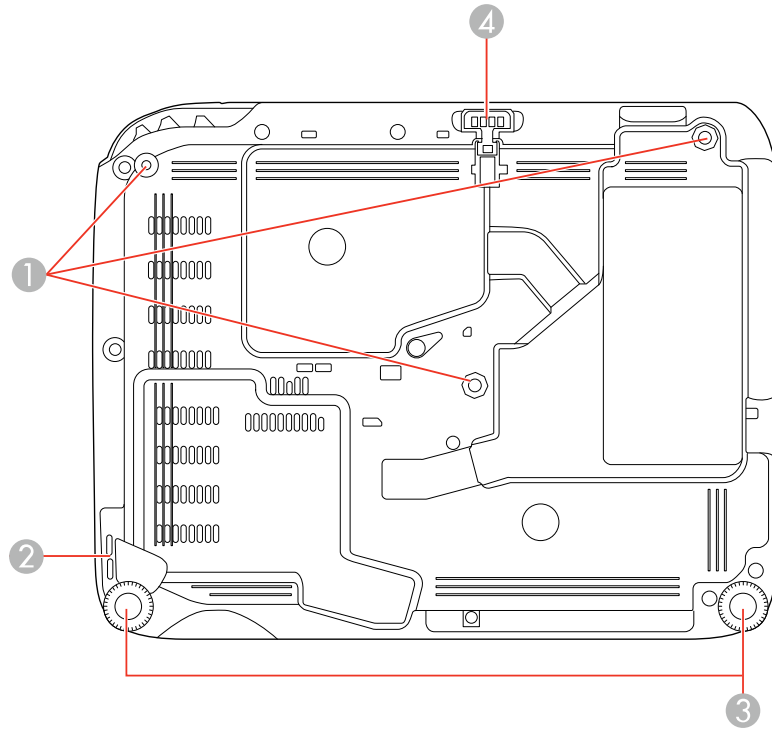
**EX9200 Pro**



- 1 AC input port
- 2 **Audio** ports
- 3 **Video** port
- 4 Remote receiver
- 5 Speaker
- 6 **HDMI1** and **HDMI2/MHL** ports
- 7 **Computer** port
- 8 **USB-B** port
- 9 **USB-A/document camera** port

Parent topic: [Projector Part Locations](#)

## Projector Parts - Base

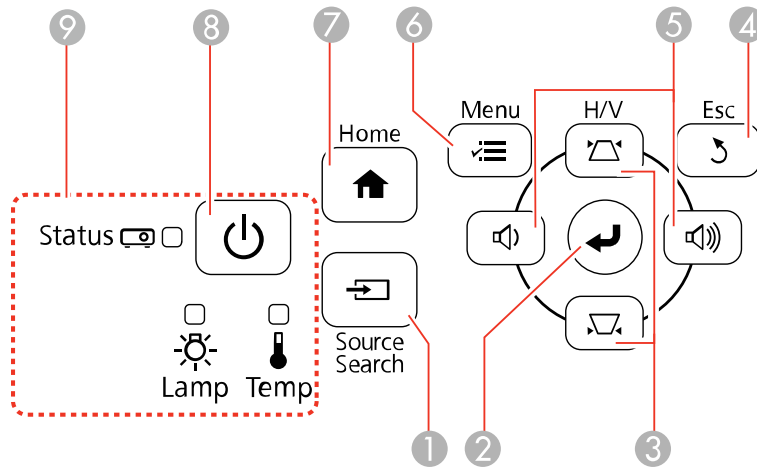


- 1 Mounting bracket holes (M4×9 mm)
- 2 Security cable attachment point
- 3 Rear adjustable feet
- 4 Front adjustable foot

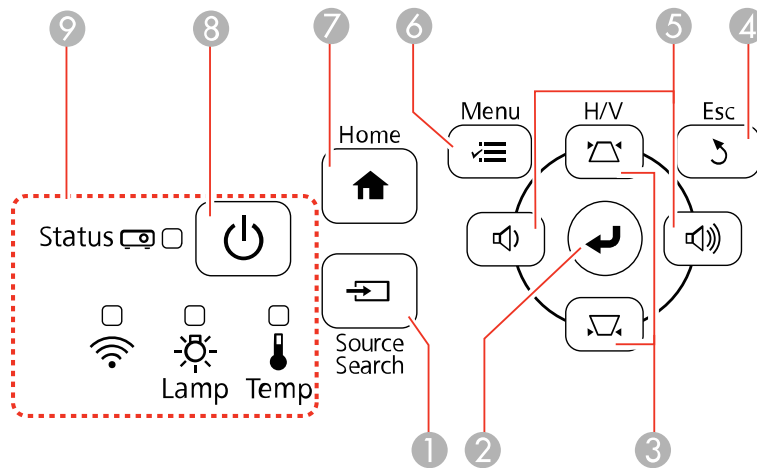
Parent topic: [Projector Part Locations](#)

# Projector Parts - Control Panel

EX5240/EX5250 Pro/VS340/VS345



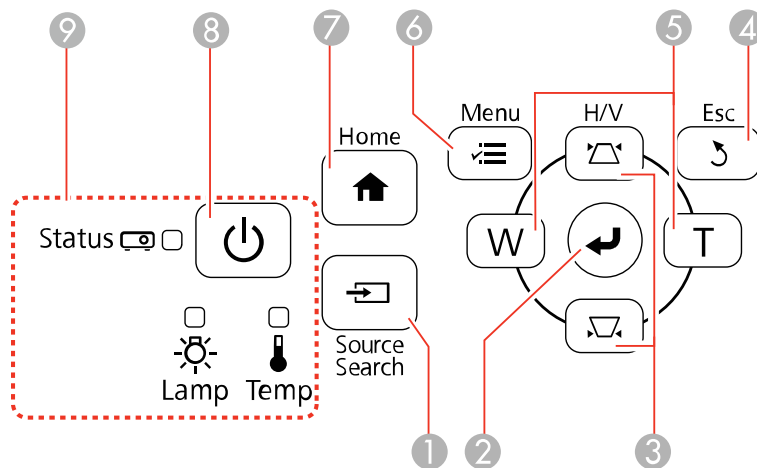
EX7240 Pro/EX9200 Pro



- 1 **Source Search** button (searches for connected sources)

- 2 **Enter** button (selects options)
- 3 Vertical keystone adjustment buttons (adjust screen shape) and arrow buttons
- 4 **Esc** button (cancels/exits functions)
- 5 Volume adjustment buttons (adjust speaker volume) and arrow buttons
- 6 **Menu** button (accesses projector menu system)
- 7 **Home** button (accesses source selection, projector help information, and other features)
- 8 Power button and light
- 9 Projector status lights

### EX3240/VS240



- 1 **Source Search** button (searches for connected sources)
- 2 **Enter** button (selects options)
- 3 Vertical keystone adjustment buttons (adjust screen shape) and arrow buttons
- 4 **Esc** button (cancels/exits functions)
- 5 **W** (Wide)/**T** (Tele) buttons (adjust projected image size), horizontal keystone adjustment buttons (adjust screen shape), and arrow buttons

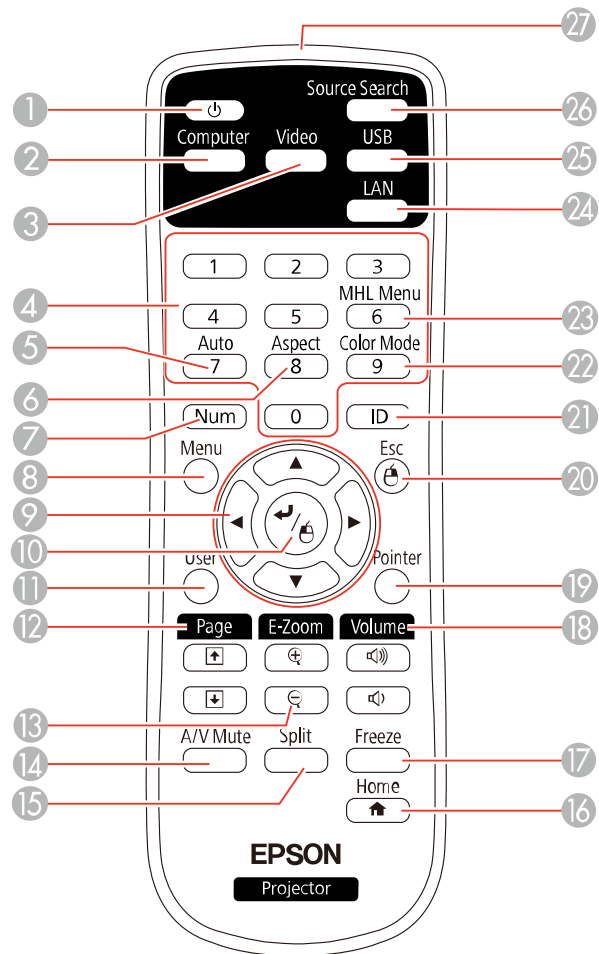
- 6 **Menu** button (accesses projector menu system)
- 7 **Home** button (accesses source selection, projector help information, and other features)
- 8 Power button and light
- 9 Projector status lights

**Parent topic:** [Projector Part Locations](#)

**Related references**

[Projector Light Status](#)

## Projector Parts - Remote Control



- 1 Power button
- 2 **Computer** button (cycles through connected computer sources)
- 3 **Video** button (cycles through connected video sources)
- 4 Numeric buttons (enter numbers)



- 5 **Auto** button (automatically adjusts position, tracking, and sync settings)
- 6 **Aspect** button (selects the image aspect ratio)
- 7 **Num** button (switches buttons to number function for entering numbers)
- 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 and projected document pages )
- 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 and 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 projector and remote control ID numbers)
- 22 **Color Mode** button (selects display modes)
- 23 **MHL Menu** button (displays settings or performs functions for the MHL device) (EX7240 Pro/EX9200 Pro)
- 24 **LAN** button (switches to available network sources)
- 25 **USB** button (cycles through connected USB sources)
- 26 **Source Search** button (searches for connected sources)
- 27 Infrared emitter

**Parent topic:** [Projector Part Locations](#)

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# Setting Up the Projector

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

[Projector Placement](#)

[Projector Connections](#)

[Installing Batteries in the Remote Control](#)

[Opening the Lens Cover](#)

## Projector Placement

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

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

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

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

[Projector Setup and Installation Options](#)

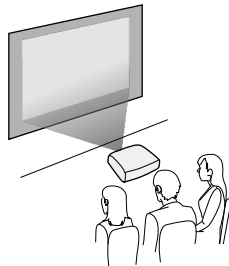
[Projection Distance](#)

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

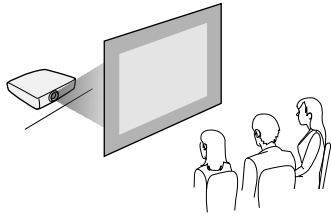
## Projector Setup and Installation Options

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

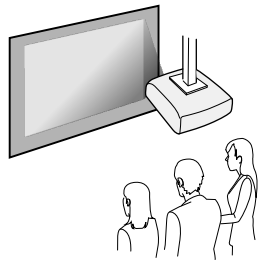
Front



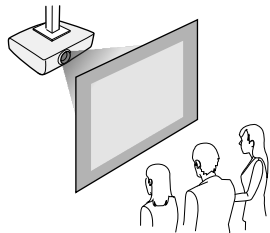
## Rear



## Front Ceiling



## Rear Ceiling



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

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

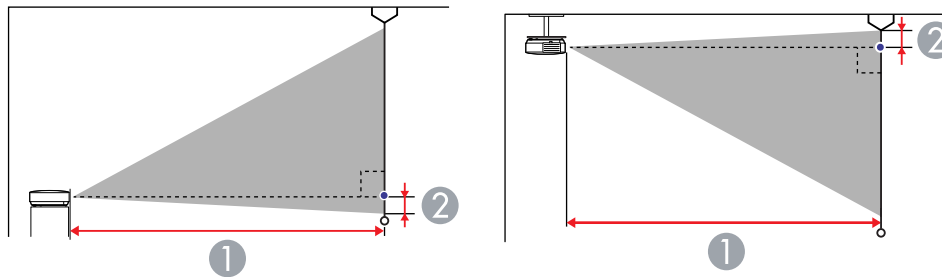
**Parent topic:** [Projector Placement](#)

## Related references

[Projector Setup Settings - Extended Menu](#)

## Projection Distance

The distance at which you place the projector from the screen determines the approximate size of the image. The image size increases the farther the projector is from the screen, but can vary depending on the zoom factor, aspect ratio, and other settings.



### EX3240/VS240

4:3 Aspect Ratio Image or Screen		
Screen or image size	Projection distance (1) Wide to Tele	Offset from lens center (2)
50 inches (127 cm)	58 to 79 inches (147 to 200 cm)	-3.3 inches (-8 cm)
80 inches (203 cm)	93 to 126 inches (237 to 321 cm)	-5.2 inches (-13 cm)
100 inches (254 cm)	117 to 158 inches (297 to 401 cm)	-6.5 inches (-17 cm)

<b>4:3 Aspect Ratio Image or Screen</b>		
<b>Screen or image size</b>	<b>Projection distance (1) Wide to Tele</b>	<b>Offset from lens center (2)</b>
150 inches (381 cm)	176 to 237 inches (446 to 603 cm)	-9.8 inches (-25 cm)

#### **EX5240/VS340**

<b>4:3 Aspect Ratio Image or Screen</b>		
<b>Screen or image size</b>	<b>Projection distance (1) Wide to Tele</b>	<b>Offset from lens center (2)</b>
50 inches (127 cm)	59 to 71 inches (150 to 180 cm)	-3.3 inches (-8 cm)
80 inches (203 cm)	95 to 114 inches (241 to 290 cm)	-5.3 inches (-14 cm)
100 inches (254 cm)	119 to 143 inches (302 to 363 cm)	-6.7 inches (-17 cm)
150 inches (381 cm)	179 to 215 inches (454 to 546 cm)	-10 inches (-25 cm)

#### **EX5250 Pro**

<b>4:3 Aspect Ratio Image or Screen</b>		
<b>Screen or image size</b>	<b>Projection distance (1) Wide to Tele</b>	<b>Offset from lens center (2)</b>
50 inches (127 cm)	56 to 67 inches (142 to 171 cm)	-3.1 inches (-8 cm)
80 inches (203 cm)	90 to 108 inches (229 to 275 cm)	-5 inches (-13 cm)

<b>4:3 Aspect Ratio Image or Screen</b>		
<b>Screen or image size</b>	<b>Projection distance (1) Wide to Tele</b>	<b>Offset from lens center (2)</b>
100 inches (254 cm)	113 to 136 inches (287 to 345 cm)	-6.3 inches (-16 cm)
150 inches (381 cm)	170 to 204 inches (432 to 519 cm)	-9.4 inches (-24 cm)

#### **EX7240 Pro/VS345**

<b>16:10 Aspect Ratio Image or Screen</b>		
<b>Screen or image size</b>	<b>Projection distance (1) Wide to Tele</b>	<b>Offset from lens center (2)</b>
50 inches (127 cm)	55 to 66 inches (139 to 168 cm)	-2.4 inches (-6 cm)
80 inches (203 cm)	88 to 106 inches (225 to 270 cm)	-3.8 inches (-10 cm)
100 inches (254 cm)	111 to 133 inches (281 to 338 cm)	-4.7 inches (-12 cm)
150 inches (381 cm)	167 to 200 inches (424 to 509 cm)	-7.1 inches (-18 cm)

#### **EX9200 Pro**

<b>16:10 Aspect Ratio Image or Screen</b>		
<b>Screen or image size</b>	<b>Projection distance (1) Wide to Tele</b>	<b>Offset from lens center (2)</b>
50 inches (127 cm)	58 to 71 inches (148 to 180 cm)	-2.4 inches (-6 cm)

16:10 Aspect Ratio Image or Screen		
Screen or image size	Projection distance (1) Wide to Tele	Offset from lens center (2)
80 inches (203 cm)	94 to 114 inches (238 to 291 cm)	-3.9 inches (-10 cm)
100 inches (254 cm)	118 to 143 inches (299 to 364 cm)	-4.8 inches (-12 cm)
150 inches (381 cm)	177 to 216 inches (450 to 548 cm)	-7.1 inches (-18 cm)

Parent topic: [Projector Placement](#)

## Projector Connections

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

- Connect a computer that has a USB port, standard video output (monitor) port, or HDMI port.
- For video projection, connect devices such as DVD players, gaming consoles, streaming devices, digital cameras, smartphones, and tablets with compatible video output ports.

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

- For sound, you can connect audio input cables, if necessary.
- For slide shows without a video source or computer, you can connect USB devices (such as a flash drive or camera) or an optional Epson document camera.

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

[Connecting to Computer Sources](#)

[Connecting to Video Sources](#)

[Connecting to External USB Devices](#)

[Connecting to a Document Camera](#)

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

**Related references**

[Projector Setup Settings - Extended Menu](#)

## Connecting to Computer Sources

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

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

[Connecting to a Computer for VGA Video](#)

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

[Connecting to a Computer for USB Mouse Control](#)

[Connecting to a Computer for Sound](#)

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

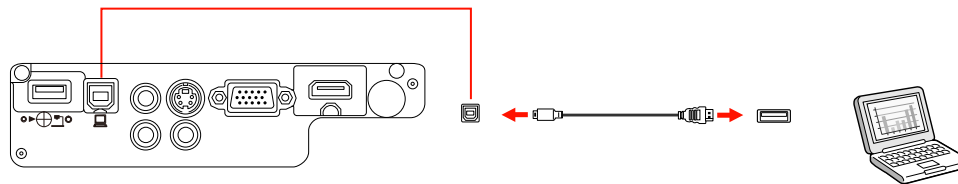
### Connecting to a Computer for USB Video and Audio

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.

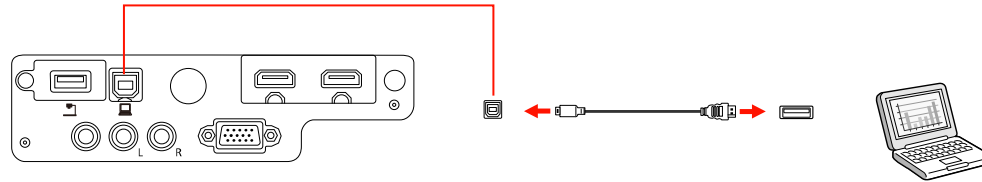
1. In the projector's Extended menu, set the **USB Type B** setting to **USB Display**.
2. Turn on your computer.
3. Connect the cable to your projector's **USB-B** port.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**





## EX9200 Pro



4. Connect the other end to any available USB port on your computer.
5. Do one of the following:
  - **Windows 10/8.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.
  - **Windows 7/Windows Vista:** Select **Run EMP\_UDSE.EXE** in the dialog box that appears to install the Epson USB Display software.
  - **Windows XP:** Wait as messages appear on your computer screen and the projector installs the Epson USB Display software on your computer.
  - **OS X:** 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.

**Note:** If you are using Windows XP and you see a message asking if you want to restart your computer, select **No**.

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

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

### Related references

[USB Display System Requirements](#)

### Related tasks

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

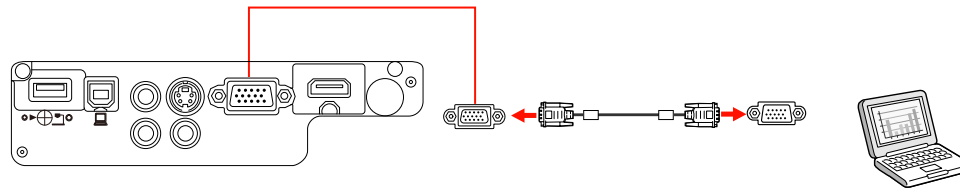
## Connecting to a Computer for VGA Video

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

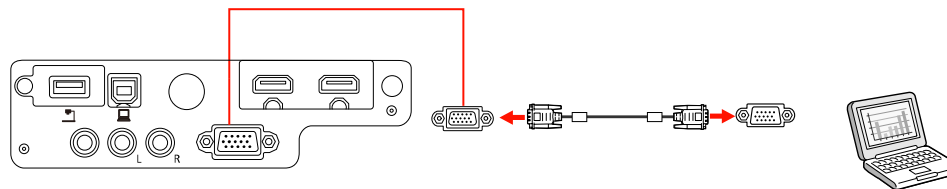
**Note:** To connect a Mac that includes only a Mini DisplayPort, Thunderbolt port, or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's VGA video port. Contact Apple for compatible adapter options.

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.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



4. Tighten the screws on the VGA connector.

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

**Related tasks**

[Connecting to a Computer for Sound](#)

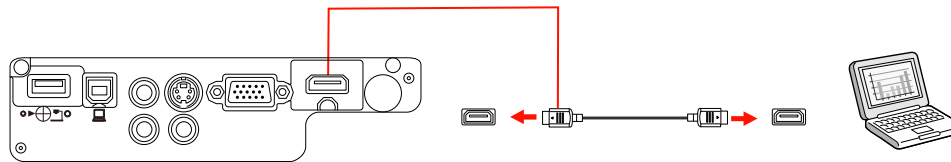
## Connecting to a Computer for HDMI Video and Audio

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

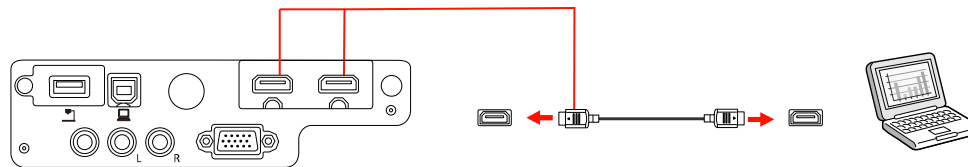
**Note:** To connect a Mac that includes only a Mini DisplayPort, Thunderbolt port, or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's **HDMI** port. Contact Apple for compatible adapter options. Older Mac computers (2009 and earlier) may not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

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

### EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345



### EX9200 Pro



**Note:** The projector converts the digital audio signal sent from your computer into a mono analog signal for the internal speaker.

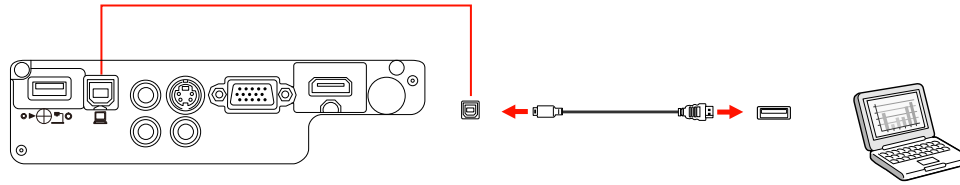
**Parent topic:** [Connecting to Computer Sources](#)

## Connecting to a Computer for USB Mouse Control

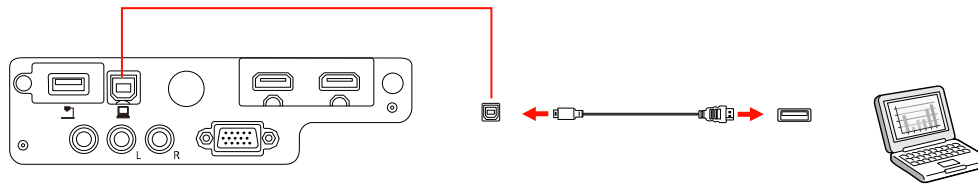
If you connected your computer to a **Computer**, **USB-B**, or **HDMI** port on the projector, you can set up the remote control to act as a wireless mouse. This lets you control projection at a distance from your computer. To do this, connect the projector to your computer using a USB cable, if it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

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

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



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.

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

**Related tasks**

[Using the Remote Control as a Wireless Mouse](#)

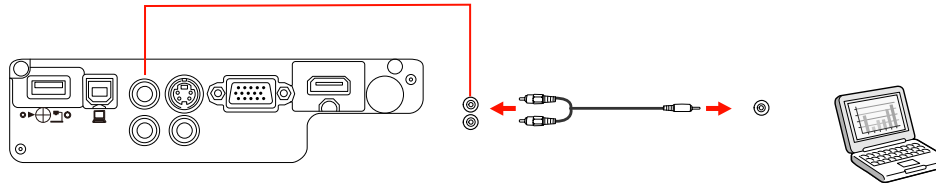
### **Connecting to a Computer for Sound**

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).

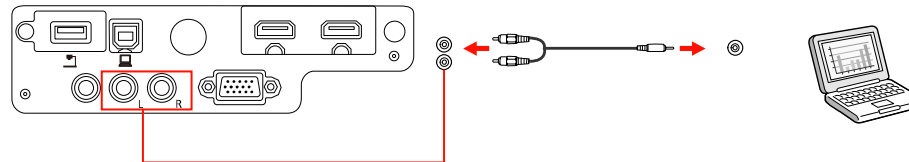
1. Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.

2. Connect the other end to the projector's **Audio** ports.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



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

## Connecting to Video Sources

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

[Connecting to an HDMI Video Source](#)

[Connecting to an MHL-Compatible Device](#)

[Connecting to a Component Video Source](#)

[Connecting to an S-Video Video Source](#)

[Connecting to a Composite Video Source](#)

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

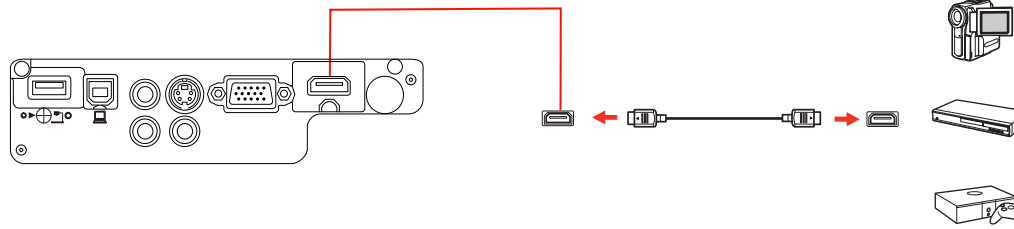
**Parent topic:** [Projector Connections](#)

## Connecting to an HDMI Video Source

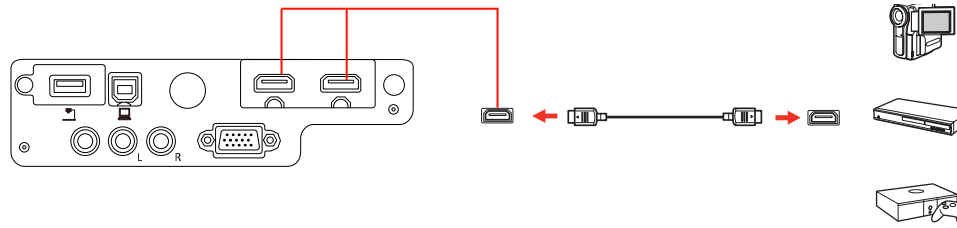
If your video source has an HDMI port, you can connect it to the projector using an optional HDMI cable. The HDMI connection provides the best image quality.

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

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**EX9200 Pro**



**Note:** The projector converts the digital audio signal sent from your video source into a mono analog signal for the internal speaker.

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

**Connecting to an MHL-Compatible Device**

If you have an MHL-compatible smartphone or tablet, you can connect it to the projector using either an MHL cable or an HDMI cable with a device-compatible MHL adapter. If you have a device with a built-in MHL connector, plug it directly into the **HDMI /MHL** port (EX7240 Pro/EX9200 Pro).

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

1. Connect the MHL cable or adapter to your device's Micro-USB port.
2. If you are using an MHL adapter, connect it to an MHL-compatible HDMI cable.

3. Connect the other end of the cable to the projector's **HDMI /MHL** port.

**Note:** The projector converts the digital audio signal sent from your video source into a mono analog signal for the internal speaker.

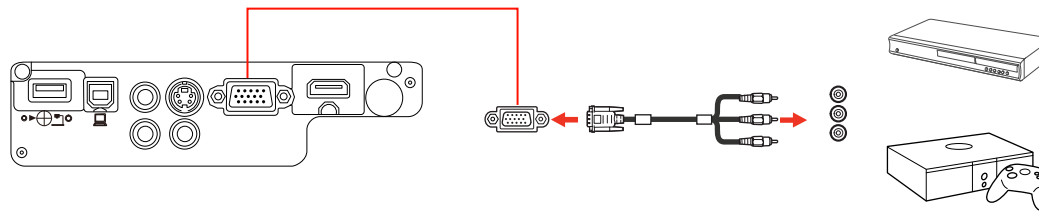
**Parent topic:** [Connecting to Video Sources](#)

### Connecting to a Component Video Source

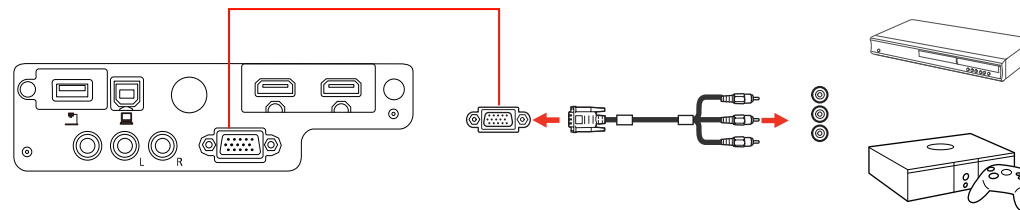
If your video source has component video ports, you can connect it to the projector using an optional component-to-VGA video cable. Depending on your component ports, you may need to use an adapter cable along with a component video cable.

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.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



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.

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

**Related references**

[Optional Equipment and Replacement Parts](#)

[Input Signal Settings - Signal Menu](#)

**Related tasks**

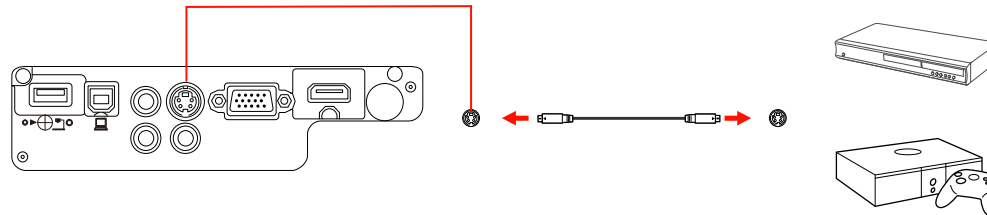
[Connecting to a Video Source for Sound](#)

**Connecting to an S-Video Video Source**

If your video source has an S-Video port, you can connect it to the projector using an optional S-Video cable.

1. Connect the S-Video cable to your video source's S-Video output port.
2. Connect the other end to the projector's **S-Video** port.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



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

**Related tasks**

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

**Connecting to a Composite Video Source**

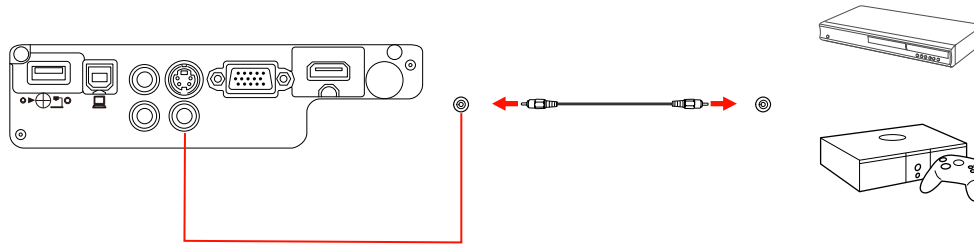
If your video source has a composite video port, you can connect it to the projector using an optional RCA-style video or A/V cable.

1. Connect the cable with the yellow connector to your video source's yellow video output port.

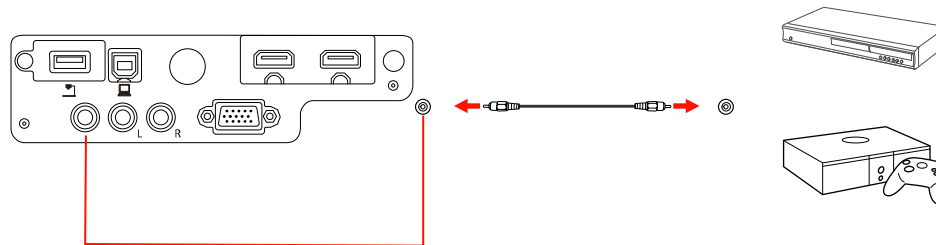


2. Connect the other end to the projector's **Video** port.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



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

**Related tasks**

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

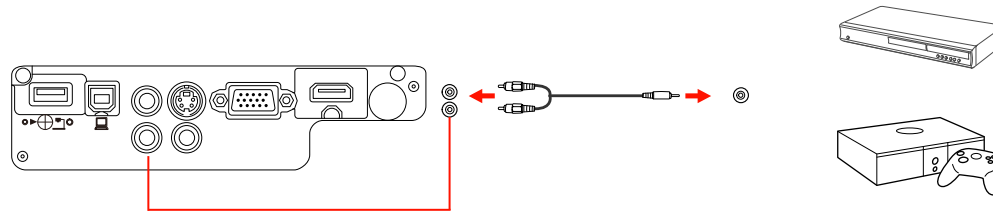
**Connecting to a Video Source for Sound**

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

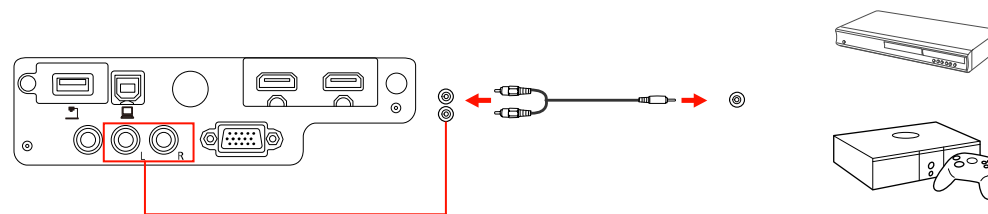
1. Connect the audio cable to your video source's audio-out ports.

2. Connect the other end of the cable to the projector's **Audio** port or ports.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



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

## Connecting to External USB Devices

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

[USB Device Projection](#)

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

[Selecting the Connected USB Source](#)

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

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

## USB Device Projection

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

- USB flash drive
- Digital camera or smartphone
- USB hard drive
- Multimedia storage viewer
- USB memory card reader

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

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

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

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

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

### Related topics

[Projecting a PC Free Presentation](#)

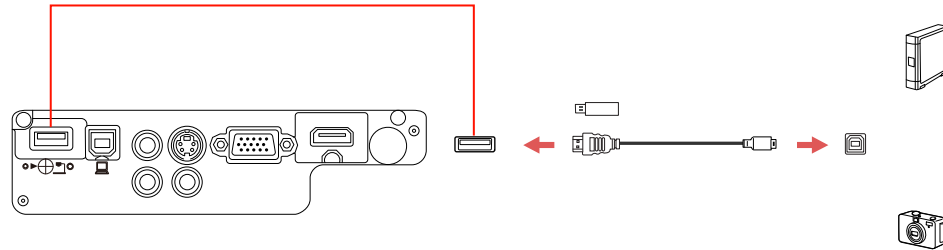
## Connecting a USB Device or Camera to the Projector

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

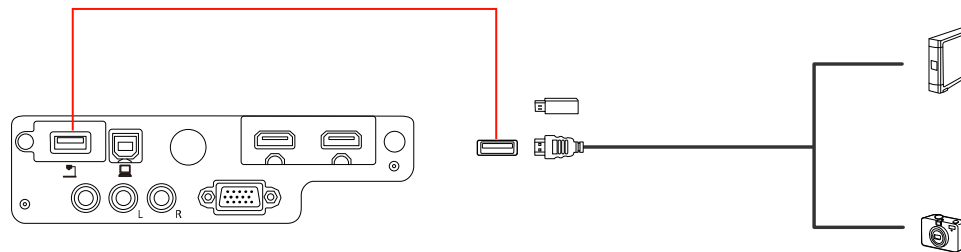
1. If your USB device came with a power adapter, plug the device into an electrical outlet.

2. Connect the USB cable (or USB flash drive or USB memory card reader) to the projector's **USB-A** port.

**EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345**



**EX9200 Pro**



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

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

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

**Related topics**

[Projecting a PC Free Presentation](#)

### 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.

3. Press the button again to cycle through other USB sources, if available.

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

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

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

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

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

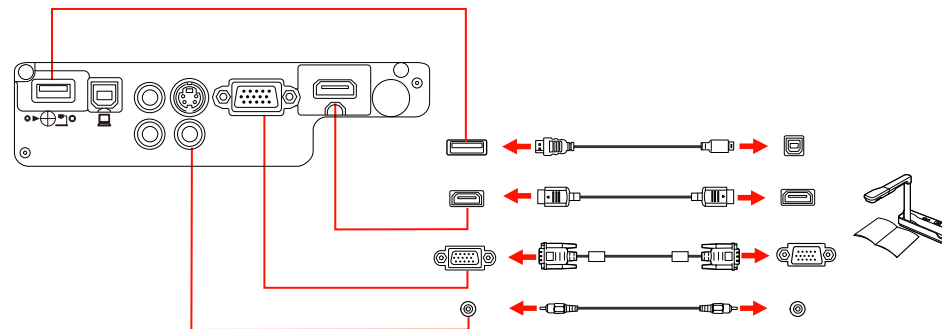
### Connecting to a Document Camera

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

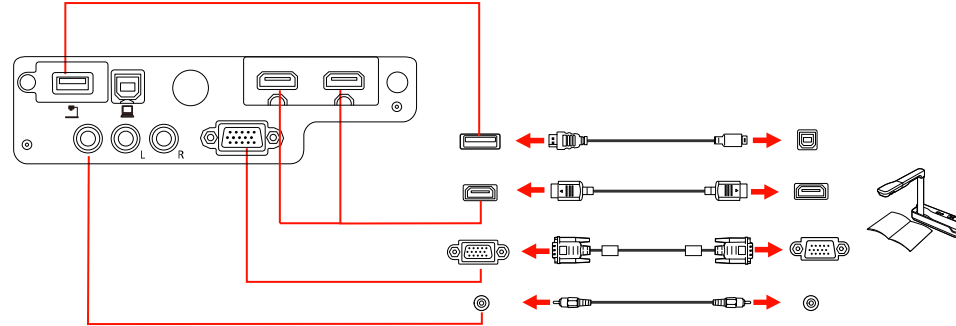
Depending on your Epson document camera model, do one of the following to connect the document camera to your projector:

- For the Epson DC-06 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-11 document camera, connect it to the projector's **Computer** or **Video** port and to the corresponding port on the document camera. See the document camera manual for details.
- For the Epson DC-12 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-20 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.

#### EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345



## EX9200 Pro



**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.

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

**Related references**

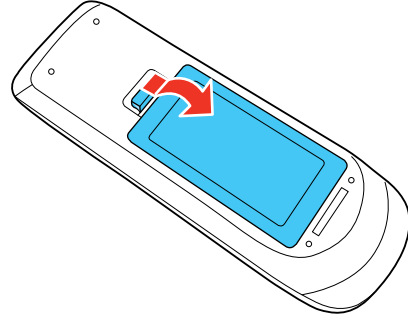
[Optional Equipment and Replacement Parts](#)

## Installing Batteries in the Remote Control

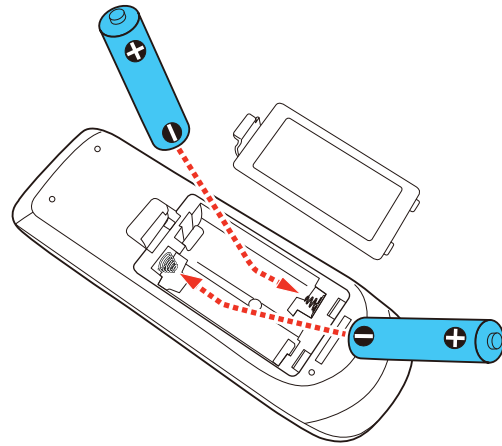
The remote control uses the two AA batteries that came with the projector.

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

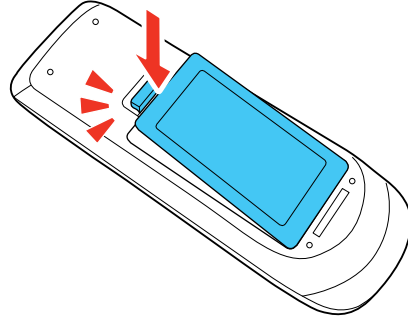
1. Remove the battery cover.



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



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



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

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

**Related references**

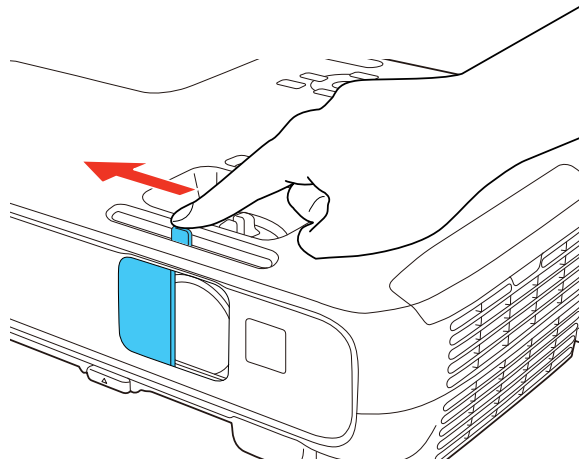
[Remote Control Specifications](#)

## Opening the Lens Cover

**Note:** Your product may look different from the illustrations in this guide, but the instructions are the same.



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



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

[Wireless Network Security Guidelines](#)  
[Installing the Wireless LAN Module](#)  
[Using Quick Wireless Connection \(Windows Only\)](#)  
[Selecting Wireless Network Settings Manually](#)  
[Selecting Wireless Network Settings in Windows](#)  
[Selecting Wireless Network Settings in OS X](#)  
[Setting Up Wireless Network Security](#)

**Parent topic:** [Using the Projector on a Network](#)

**Related references**

[Product Box Contents](#)

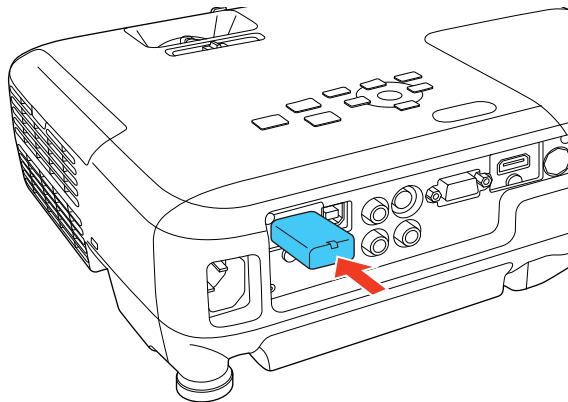
[Optional Equipment and Replacement Parts](#)

## Connecting Directly to a Laptop or Computer

You can connect directly to your projector from a single laptop or computer with a quick wireless connection.

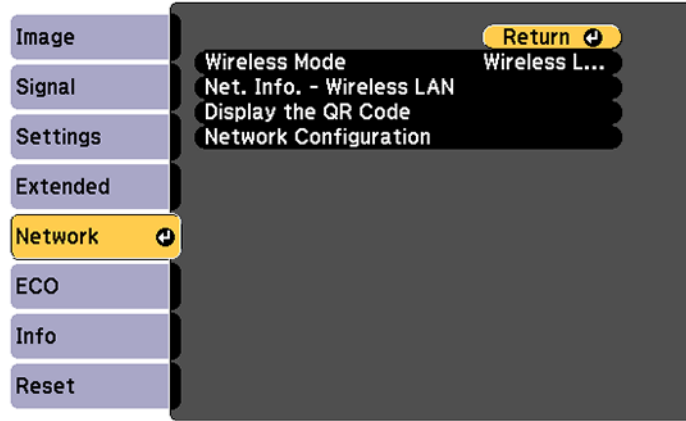
**Note:** Depending on your projector model, you may need to purchase the optional wireless LAN module.

1. Download and install the EasyMP Network Projection software on your computer or laptop.
2. Connect the wireless LAN module to the **USB-A** (flat) port on your projector, if necessary.

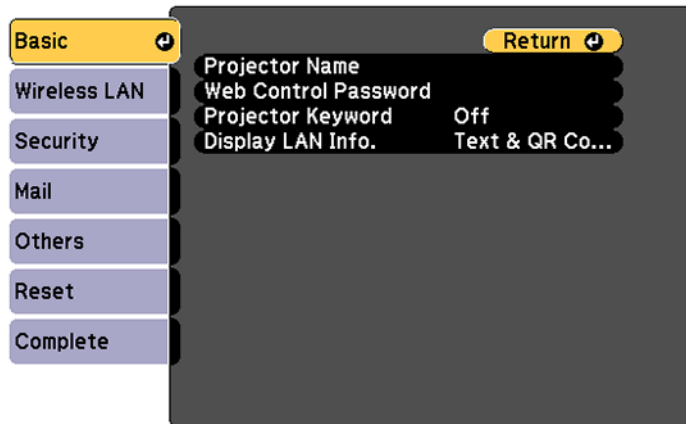


3. Press the **Menu** button on the projector or the remote control.

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



5. Select **Network Configuration** and press **Enter**.
6. Select the **Basic** menu and press **Enter**.

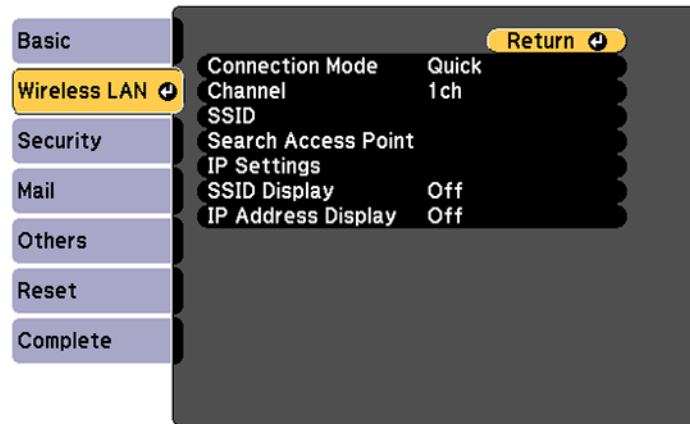


7. Select **Projector Name** and press **Enter**.

8. Enter a name you can easily identify and select **Finish**.

**Note:** You will select the Projector Name when you want to connect to your projector.

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



10. Select **Connection Mode** and press **Enter**.
11. Select **Quick** and press **Enter**, then press **Enter** again.
12. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
13. In the list of wireless networks on your laptop or computer, select your projector's name.

**Note:** This is the Projector Name you entered in the projector's **Basic** menu.

14. Start the EasyMP Network Projection software on your laptop or computer.
  15. Select **Quick Connection Mode** and click **OK**.
  16. Select your projector and click **Connect**.
- Your laptop or computer and projector are now connected over a wireless network.

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

### Related tasks

[Installing the Wireless LAN Module](#)

[Selecting Wireless Network Settings Manually](#)

[Selecting Wireless Network Settings in Windows](#)

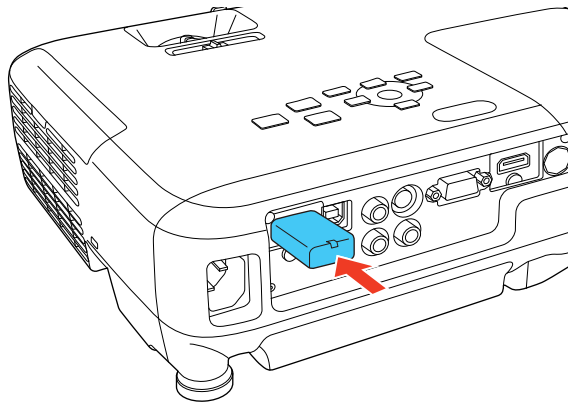
[Selecting Wireless Network Settings in OS X](#)

## 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.

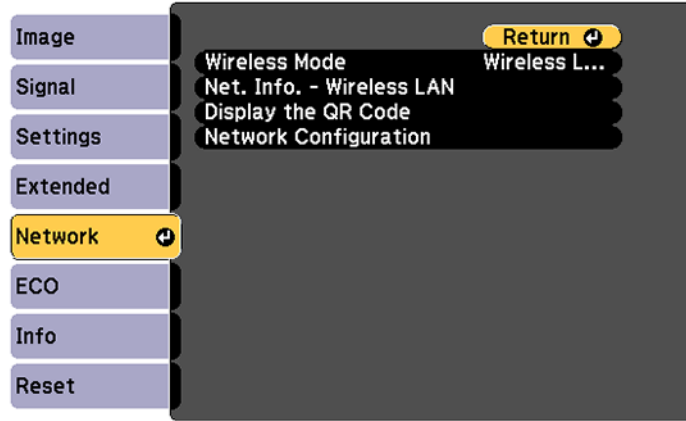
**Note:** Depending on your projector model, you may need to purchase the optional wireless LAN module.

1. Download the latest version of Epson iProjection from the App Store or Google Play and install it on your smartphone or tablet.
2. Connect the wireless LAN module to the **USB-A** (flat) port on your projector, if necessary.

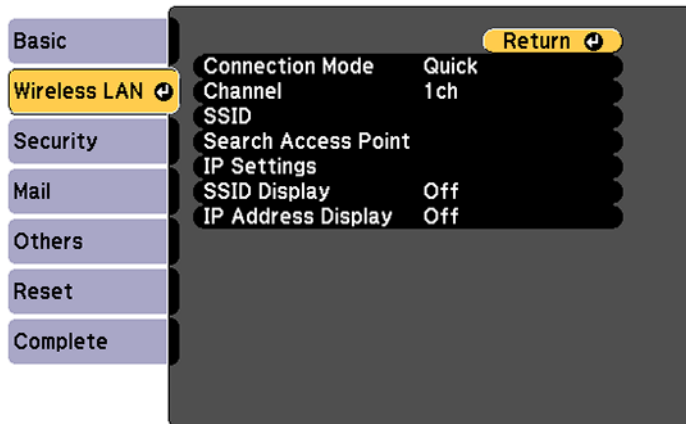


3. Press the **Menu** button on the projector or the remote control.

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

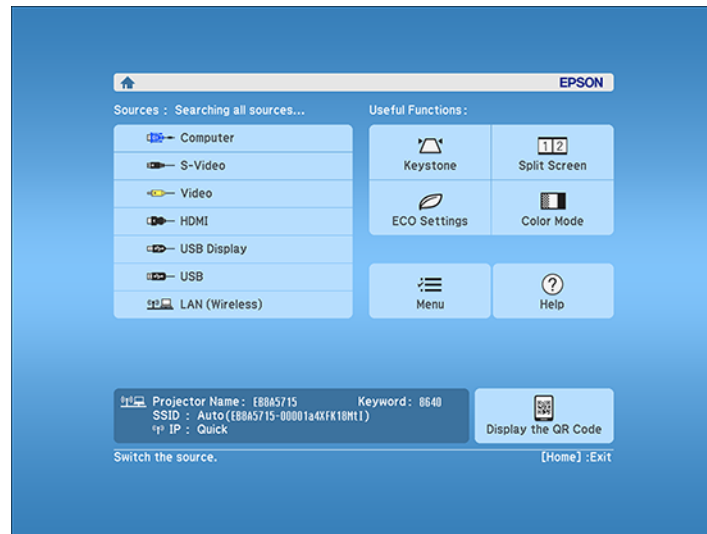


5. Select **Network Configuration** and press **Enter**.
6. Select the **Wireless LAN** menu and press **Enter**.



7. Select **Connection Mode** and press **Enter**.
8. Select **Quick** and press **Enter**, then press **Enter** again.

- When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
- Press the **Home** button on the projector or the remote control.



- Select **Display the QR Code** and press **Enter**.  
Your projector displays a QR code on the projection surface.
- Open Epson iProjection on your smartphone or tablet.
- Use the QR code reader feature to read the QR code and connect your device to the projector.

## Wireless Network Security Guidelines

A wireless network allows the exchange of information using radio signals, so you can easily connect to the network if you are within range of the radio signals. However, within a certain range, the signals can reach unintended recipients.

Security experts recommend password protected wireless networks. Check with your network administrator for guidance on setting up wireless security for your network.

If wireless security countermeasures are not implemented, problems such as the following may occur:

- Communicated data could be intercepted by a third party who is receiving wireless transmissions without authorization, and who could obtain personal information from these transmissions such as IDs, passwords, credit card numbers, or the contents of personal e-mail messages.
- Unauthorized access to a network by a third party could result in access to an individual or intra-company network without permission, allowing them to do any of the following:
  - Retrieve personal data or other secret information (information leakage)
  - Pose as another user and send inappropriate data (impersonation)
  - Overwrite the contents of intercepted data and resend it (falsification)
  - Introduce a computer virus which could cause data loss or system crashes (damage)

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

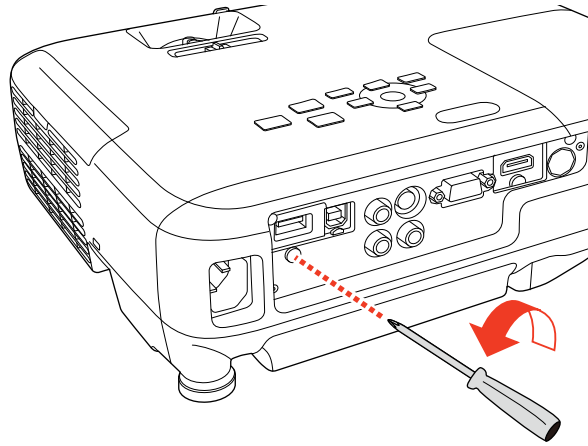
## Installing the Wireless LAN Module

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.

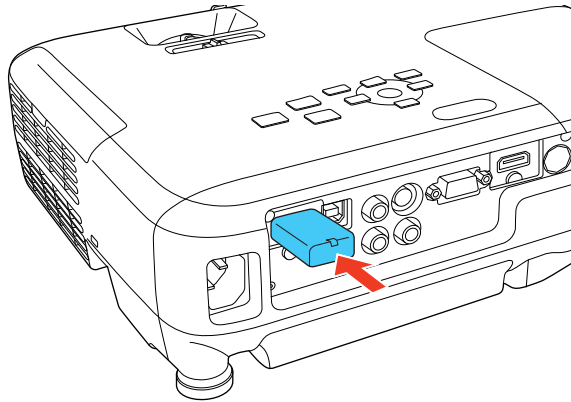
**Note:** Your product may look different from the illustrations in this guide, but the instructions are the same.



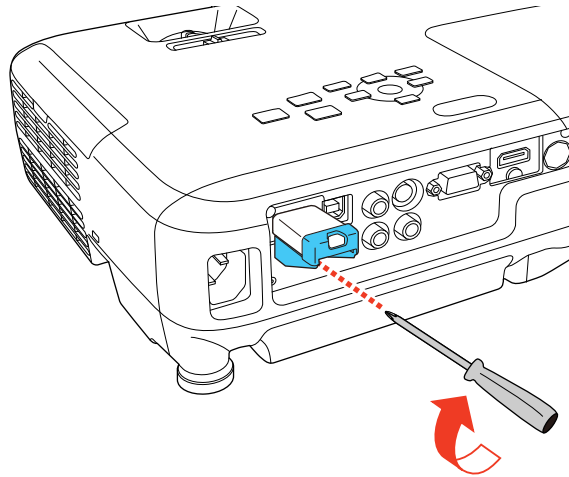
1. Remove the wireless LAN module cover screw.



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.



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.

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

**Related references**

[Optional Equipment and Replacement Parts](#)

## Using Quick Wireless Connection (Windows Only)

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

**Note:** The Quick Wireless Connection USB key is not included with your projector and is optional.

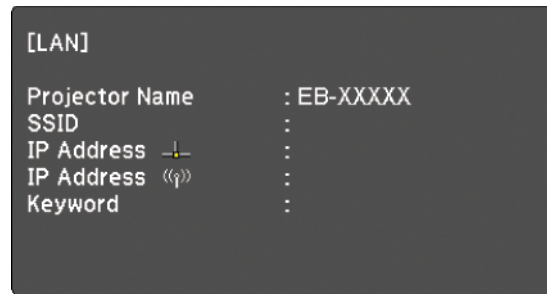
**Note:** Make sure the wireless LAN module is installed, if applicable. The wireless LAN module is not included with all models.

**Note:** Your product may look different from the illustrations in this guide, but the instructions are the same.

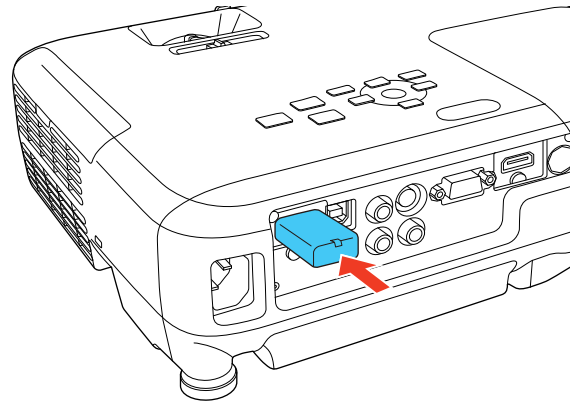
1. Turn on the projector.

2. Press the **LAN** button on the remote control.

You see a screen like this:



3. Verify that an SSID and IP address are displayed, then remove the wireless LAN module from the projector if necessary.
4. Insert the Quick Wireless Connection USB key into the same port used for the wireless LAN module.



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. Connect the USB key to a USB port on your computer or laptop.

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

8. Follow the on-screen instructions to install the Quick Wireless Connection driver.

**Note:** If you see a Windows Firewall message, click **Yes** to disable the firewall for this application.

After a few minutes, your computer image is displayed by the projector. If it does not appear, press the **LAN** 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 may need to restart your computer to reactivate your wireless LAN connection.

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

**Related references**

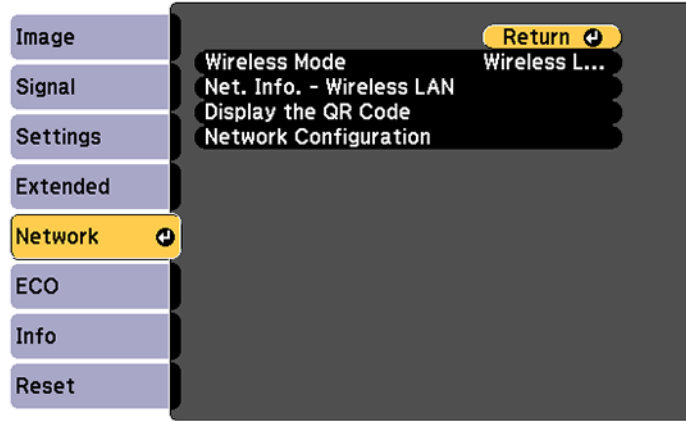
[Optional Equipment and Replacement Parts](#)

## Selecting Wireless Network Settings Manually

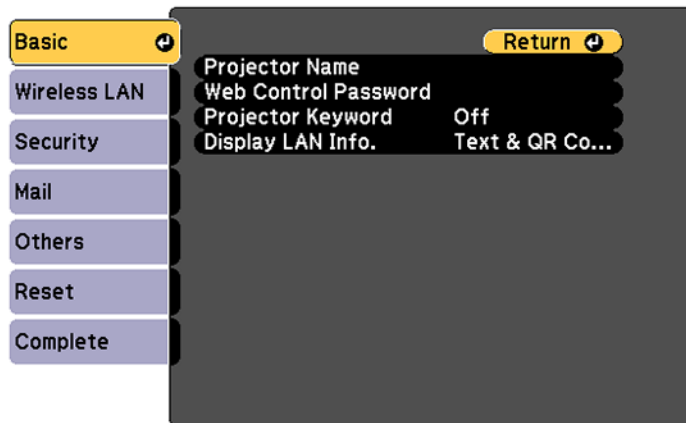
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

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

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



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

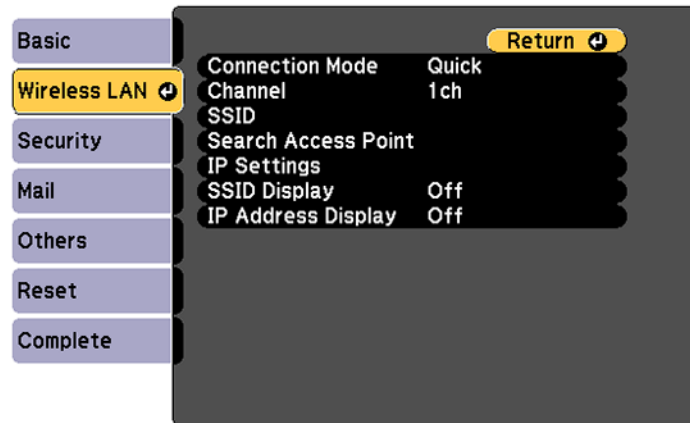


7. Select the following basic options as necessary:

- **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
- **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**.)
- **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 EasyMP Network Projection software or an iOS or Android device using iProjection.
- **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.

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



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](#)

Parent topic: [Wireless Network Projection](#)

**Wireless LAN Menu Settings**

Setting	Options	Description
<b>Connection Mode</b>	<b>Quick</b> <b>Advanced</b>	Selects the type of wireless connection: <b>Quick:</b> lets you quickly connect to one computer or use the optional Quick Wireless Connection USB key to connect <b>Advanced:</b> lets you connect to multiple computers via a wireless network access point
<b>Channel</b>	<b>1ch</b> <b>6ch</b> <b>11ch</b>	In <b>Quick</b> connection mode, selects the frequency band (channel) used by the wireless LAN
<b>SSID</b>	Up 32 alphanumeric characters	Sets the SSID (network name) of the wireless LAN system the projector is connecting to
<b>Search Access Point</b>	—	Lets you search for available wireless network access points in <b>Advanced</b> connection mode
<b>IP Settings</b>	<b>DHCP</b> <b>IP Address</b> <b>Subnet Mask</b> <b>Gateway Address</b>	In <b>Advanced</b> connection mode, select DHCP if your network assigns addresses automatically, or manually enter the network's <b>IP Address</b> , <b>Subnet Mask</b> , and <b>Gateway Address</b>
<b>SSID Display</b>	<b>On</b> <b>Off</b>	Selects whether to display the SSID on the network standby screen

Setting	Options	Description
IP Address Display	On Off	Selects whether to display the IP address on the network standby 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 in OS X

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

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

Parent topic: [Wireless Network Projection](#)

## Setting Up Wireless Network Security

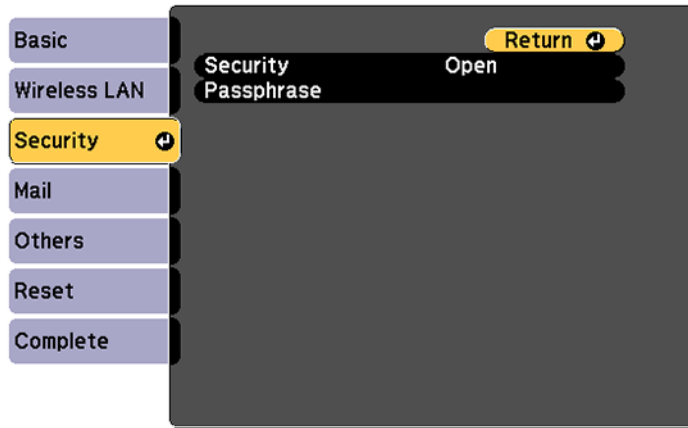
You can set up security for your projector to use on the wireless network. Set up one of the following security options to match the settings used on your network:

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



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

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



5. Select the security settings for your network.

**Note:** TKIP and AES encryption are supported. WPA authentication via an authentication server is not supported.

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

[Wireless Security Menu Settings](#)

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

**Related tasks**

[Selecting Wireless Network Settings Manually](#)

## Wireless Security Menu Settings

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

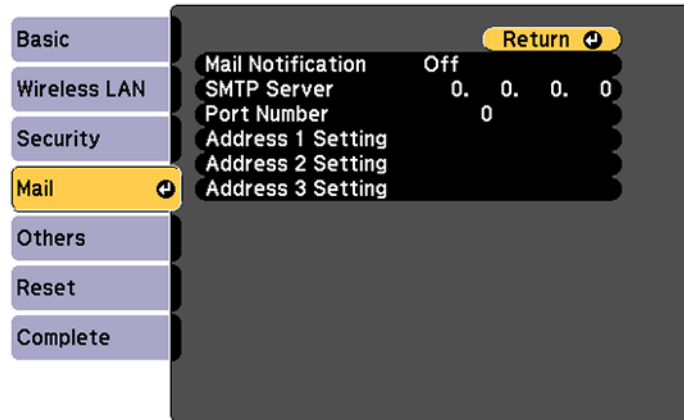
Setting	Options	Description
<b>Security</b>	<b>WPA2-PSK</b> and <b>WPA</b> types available	Selects the type of security used on the wireless network
<b>Passphrase</b>	Various keys from 8 to 32 characters	Selects the pre-shared key used on the network; passphrases are case-sensitive

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

## Setting Up Projector Network E-Mail Alerts

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

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



5. Turn on **Mail Notification**.

6. Enter the IP address for the **SMTP Server** option.

**Note:** To enter the IP address using the numeric keys on the remote control, press and hold the **Num** button. Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).

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

**Note:** Your e-mail address can be up to 32 alphanumeric characters long.

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

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

[Network Projector E-mail Alert Messages](#)

**Parent topic:** [Using the Projector on a Network](#)

## Network Projector E-mail Alert Messages

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

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

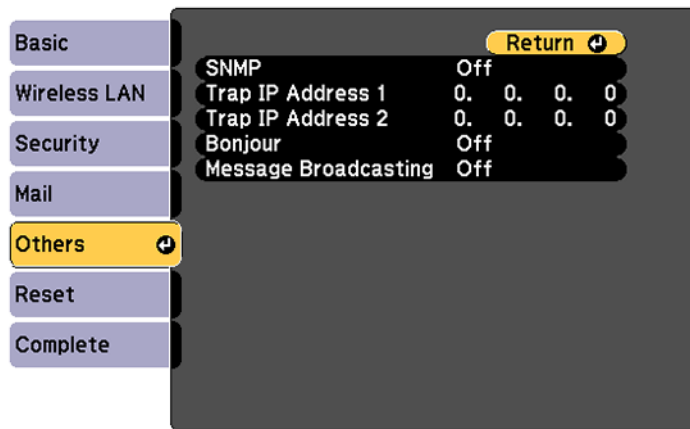
**Note:** If a critical problem causes a projector to shut down, you may not receive an e-mail alert.

**Parent topic:** [Setting Up Projector Network E-Mail Alerts](#)

## Setting Up Monitoring Using SNMP

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

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



5. Enter up to two IP addresses to receive SNMP notifications, using 0 to 255 for each address field.

**Note:** To enter the IP address using the numeric keys on the remote control, press and hold the **Num** button. Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).

6. If you are connecting to a network using Bonjour, turn on the **Bonjour** setting.
7. If you want this projector to receive broadcasted messages over the network, turn on the **Message Broadcasting** setting. Administrators can broadcast messages over the network using the Message Broadcasting plug-in for EasyMP Monitor (Windows only).
8. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Parent topic: [Using the Projector on a Network](#)

## Controlling a Networked Projector Using a Web Browser

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

**Note:** The web setup and control features support Microsoft Internet Explorer 8.0 or later, and Safari on networks that do not use a proxy server for connection. You cannot select all of the projector menu settings or control all projector functions using a web browser.

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

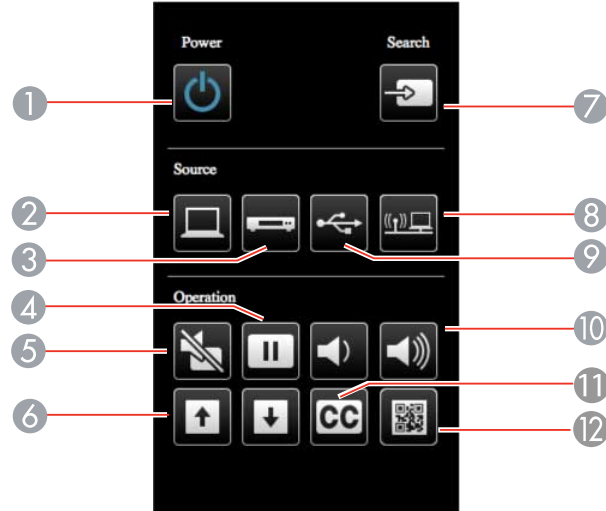
1. Make sure the projector is turned on.
2. Start your web browser on a computer or device connected to the network.
3. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

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

You see the Web Control screen.

4. To select projector menu settings, select the name of the menu and follow the on-screen instructions.
5. To control projection remotely, select the **Web Remote** option from the **Projector Control** menu. (Enter a password as necessary.)

You see a screen like this:



- 1 Power button control
- 2 Selects the **Computer** port source
- 3 Selects **Video**, **S-Video**, and **HDMI/MHL** port sources
- 4 **Freeze** button control
- 5 **A/V Mute** button control
- 6 **Page Up** and **Page Down** button controls
- 7 Searches for sources
- 8 Selects the network source
- 9 Selects the USB Display or USB device source
- 10 **Volume** button controls
- 11 Closed Caption control
- 12 Displays a QR code for connecting with iOS or Android devices using the Epson iProjection app

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

**Parent topic:** [Using the Projector on a Network](#)

**Related references**

[Projector Setup Settings - ECO Menu](#)

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# Using Basic Projector Features

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

[Turning On the Projector](#)

[Turning Off the Projector](#)

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

[Adjusting the Image Height](#)

[Image Shape](#)

[Resizing the Image](#)

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

[Remote Control Operation](#)

[Selecting an Image Source](#)

[Projection Modes](#)

[Image Aspect Ratio](#)

[Color Mode](#)

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

[Projecting a PC Free Presentation](#)

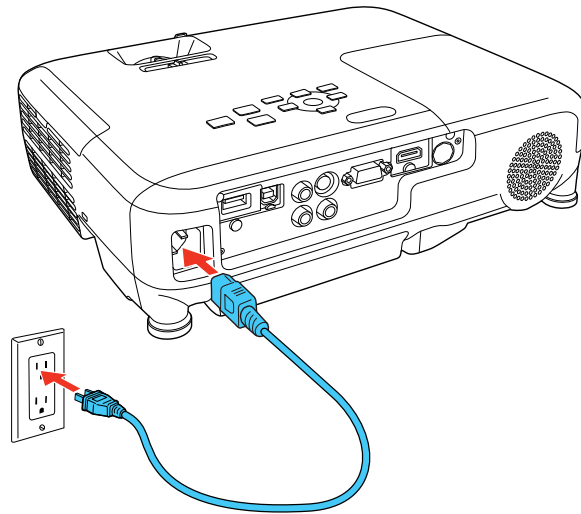
## Turning On the Projector

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

**Note:** Your product may look different from the illustrations in this guide, but the instructions are the same.



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 Status light stops flashing and turns blue.

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

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

- Verify the lens cover is open all the way.
- Turn on the connected computer or video device.
- Insert a DVD or other video media and press the play button, if necessary.
- Press the **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.

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

**Related references**

[Projector Setup Settings - Extended Menu](#)

**Related tasks**

[Selecting an Image Source](#)

## 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.

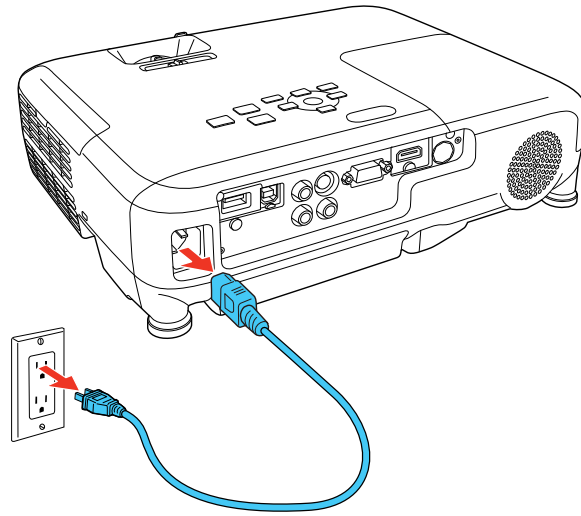


2. Press the power button again. (To leave it on, press any other button.)  
The projector beeps twice, the lamp turns off, and the Status light turns off.

**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).

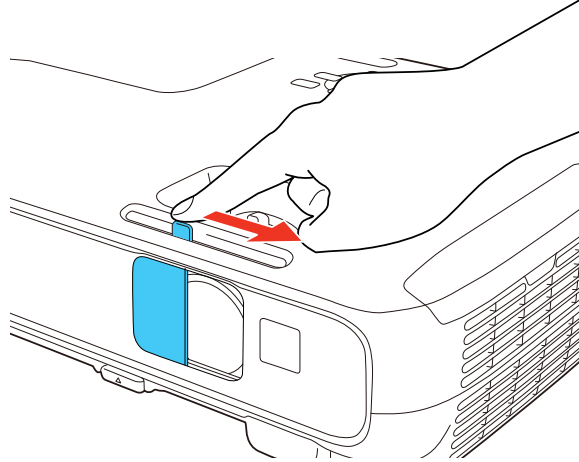
**Caution:** Do not turn the projector on immediately after turning it off. Turning the projector on and off frequently may shorten the life of the lamp.

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



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

4. Close the projector's lens cover.



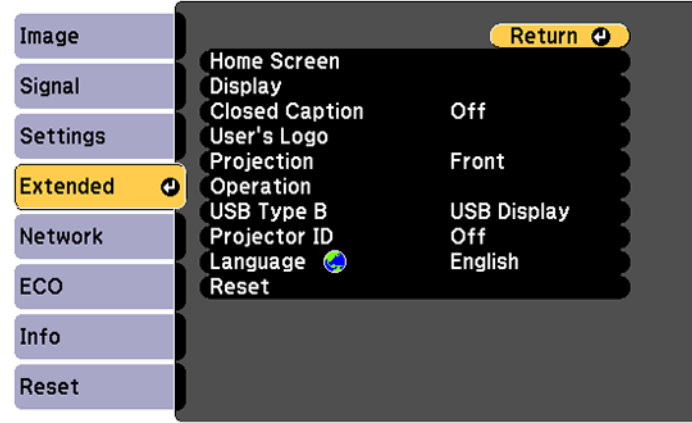
Parent topic: [Using Basic Projector Features](#)

## Selecting the Language for the Projector Menus

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

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

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



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

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

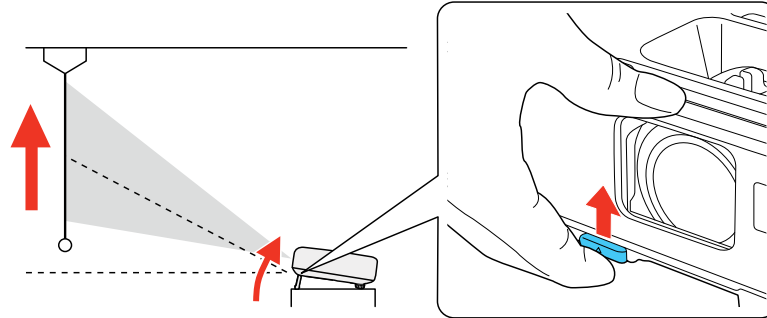
## Adjusting the Image Height

If you are projecting from a table or other flat surface, and the image is too high or low, you can adjust the image height using the projector's adjustable feet.

**Note:** Your product may look different from the illustrations in this guide, but the instructions are the same.

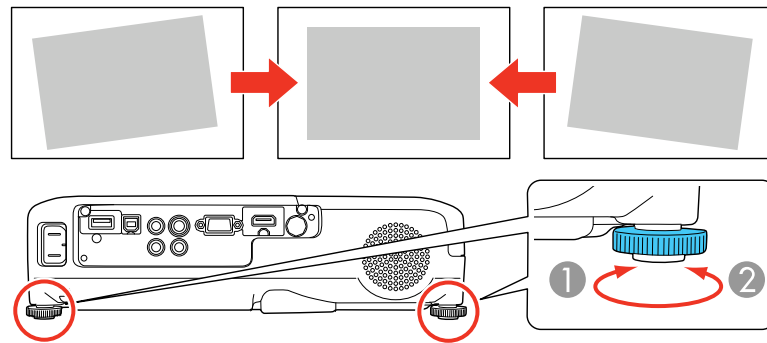
1. Turn on the projector and display an image.

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



The foot extends from the projector.

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



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

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

**Related concepts**

[Image Shape](#)

## Image Shape

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

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

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

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

[Correcting Image Shape with Quick Corner](#)

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

### Correcting Image Shape with the Horizontal Keystone Slider

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

**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 horizontal keystone slider on the projector to correct the image shape.

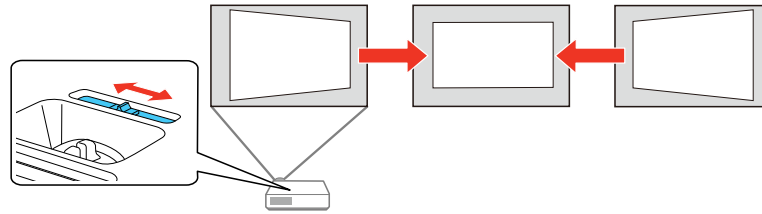
**Note:** Your product may look different from the illustrations in this guide, but the instructions are the same.

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. Adjust the slider until the image is evenly rectangular.



After correction, your image is slightly smaller.

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

**Related references**

[Projector Feature Settings - Settings Menu](#)

## Correcting Image Shape with the Keystone Buttons

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

**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 keystone correction buttons on the projector to correct the image shape.

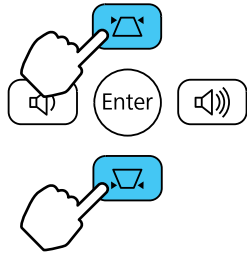
1. Turn on the projector and display an image.

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

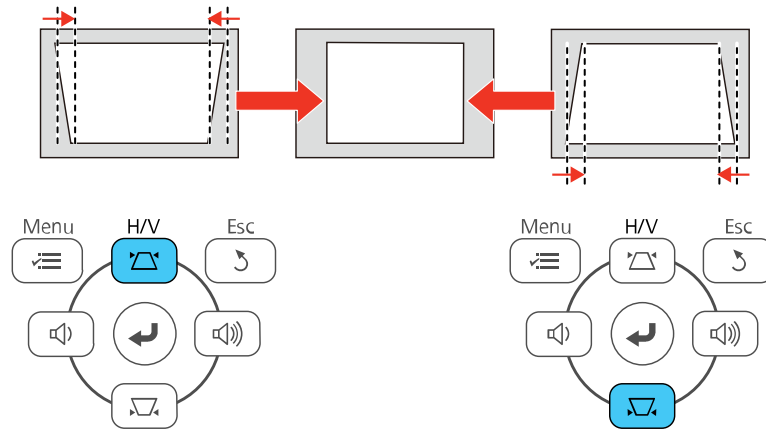
**Note:** You can also display the pattern by pressing the **User** button on the remote control (if the test pattern is assigned to this button).



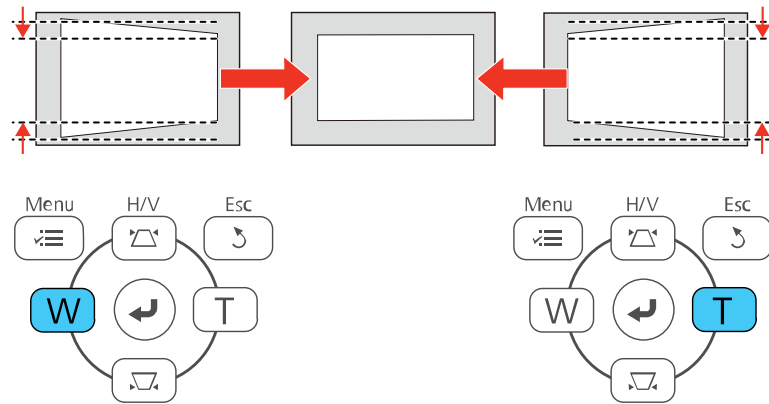
2. Press one of these keystone buttons on the control panel to display the Keystone adjustment screen.



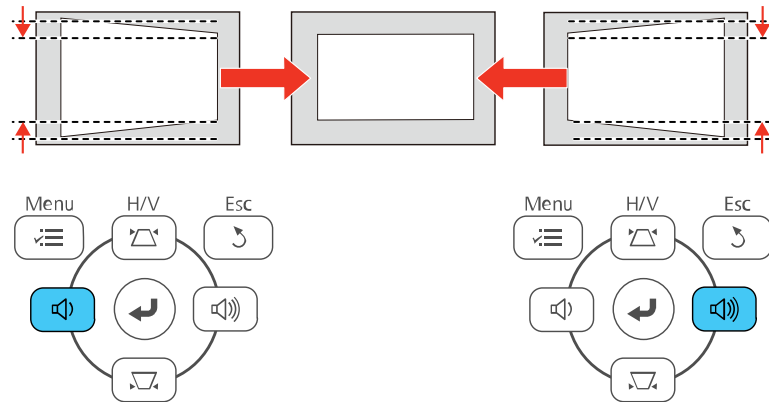
3. Press a keystone button on the projector's control panel to adjust the image shape.



### EX3240/VS240



### EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345



After correction, your image is slightly smaller.

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

Parent topic: [Image Shape](#)

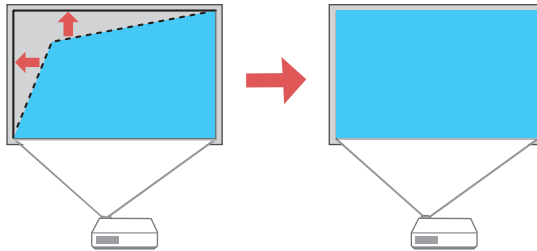
## Related references

[Projector Feature Settings - Settings Menu](#)

## 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.



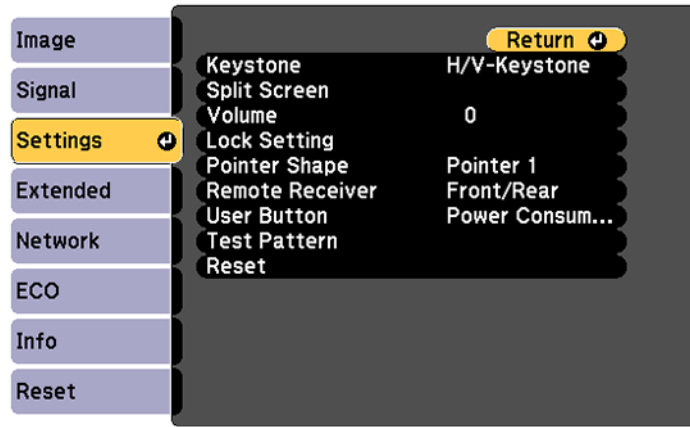
1. Turn on the projector and display an image.

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

**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. Press the **Menu** button.

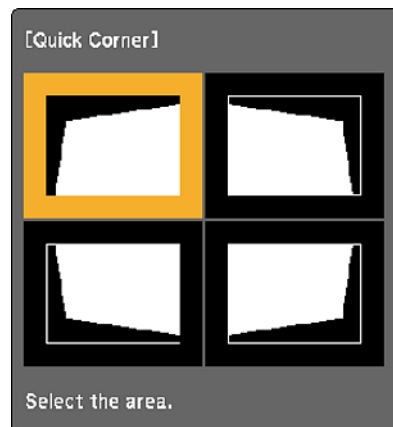
3. Select the **Settings** menu and press **Enter**.



4. Select the **Keystone** setting and press **Enter**.
5. Select the **Quick Corner** setting and press **Enter**. Then press **Enter** again.

**Note:** When the Keystone option is set to **Quick Corner**, the horizontal keystone slider is disabled.

You see the Quick Corner adjustment screen:



6. Use the arrow buttons on the projector or the 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.
8. When you are finished, press **Esc**.

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

**Related references**

[Projector Feature Settings - Settings Menu](#)

## Resizing the Image

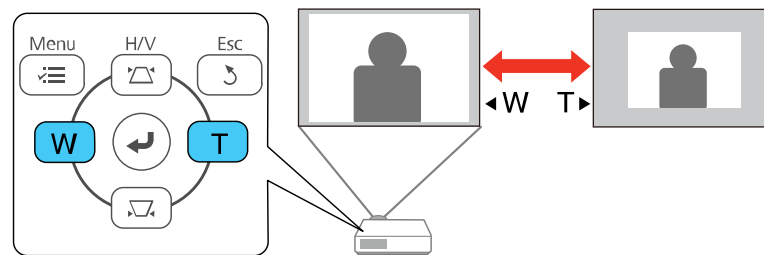
You can resize the image using the projector's zoom ring or the **Wide** and **Tele** buttons, depending on the projector model.

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

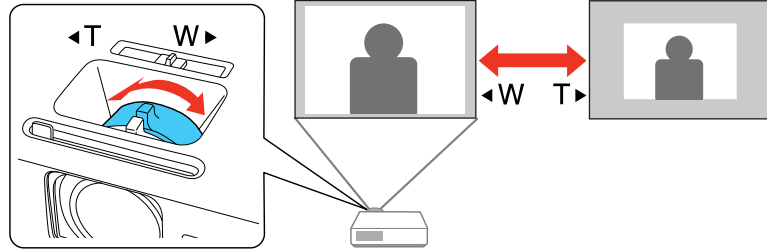
**Note:** You can also display the pattern by pressing the **User** button on the remote control (if the test pattern is assigned to this button).

- If the projector includes a zoom ring, rotate it to enlarge or reduce the image size.
- If the projector includes **Wide** and **Tele** buttons, press the **Wide** button on the projector's control panel to enlarge the image size. Press the **Tele** button to reduce the image size.

### EX3240/VS240



EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345



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

## Focusing the Image Using the Focus Ring

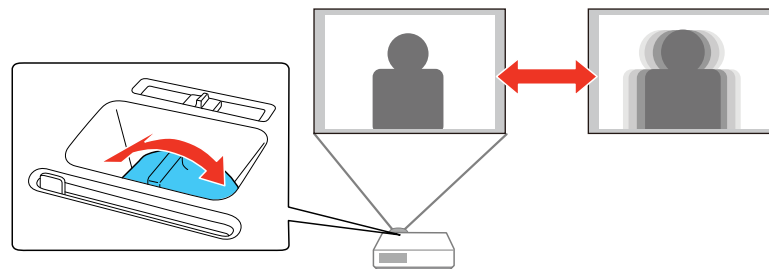
1. Turn on the projector and display an image.

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

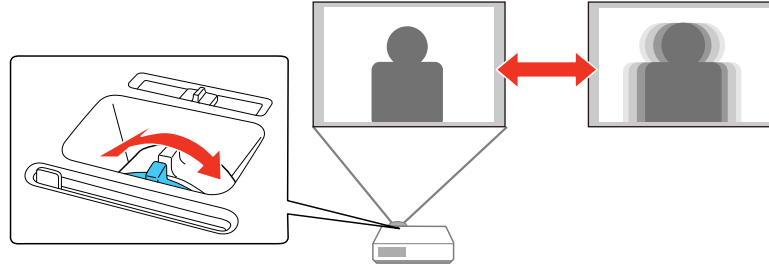
**Note:** You can also display the pattern by pressing the **User** button on the remote control (if the test pattern is assigned to this button).

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

**EX3240/VS240**



## EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345



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

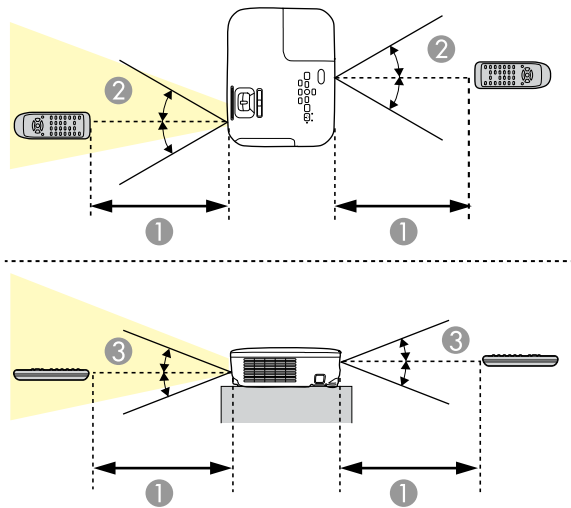
**Related references**

[Projector Feature Settings - Settings Menu](#)

## Remote Control Operation

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

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



- 1 19.7 feet (6 m)
- 2  $\pm 30^\circ$
- 3  $\pm 15^\circ$

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

[Using the Remote Control as a Wireless Mouse](#)

[Using the Remote Control as a Pointer](#)

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

**Related tasks**

[Replacing the Remote Control Batteries](#)

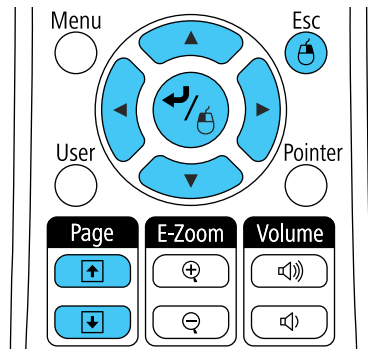
## Using the Remote Control as a Wireless Mouse




You can use the projector's remote control as a wireless mouse so you can control projection at a distance from the computer.

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.

**Parent topic:** [Remote Control Operation](#)

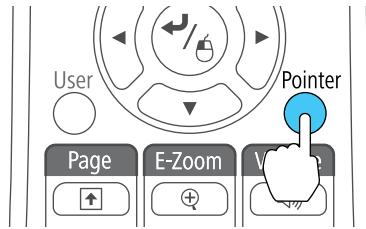
#### **Related tasks**

[Connecting to a Computer for USB Mouse Control](#)

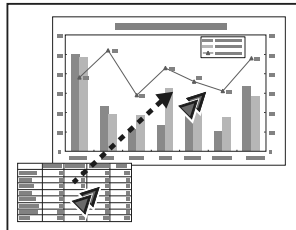
## **Using the Remote Control as a Pointer**

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 **Esc** to clear the pointer from the screen.

**Parent topic:** [Remote Control Operation](#)

**Related references**

[Projector Feature Settings - Settings Menu](#)

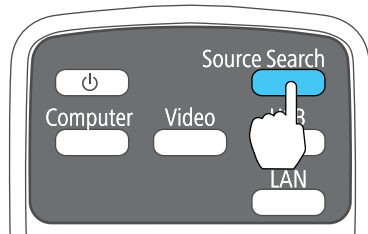
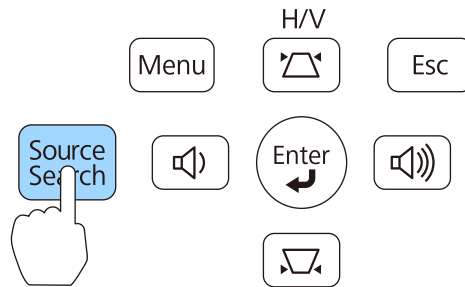
## Selecting an Image Source

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

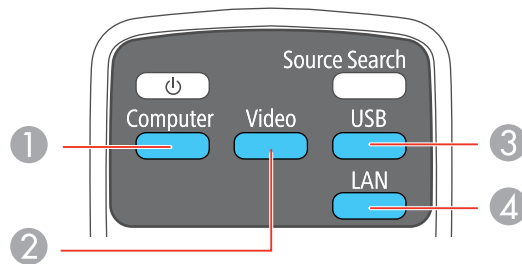
1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press its play button, if necessary.

3. Do one of the following:

- Press the **Source Search** button on the projector or remote control until you see the image from the source you want.



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



1 Computer port sources

- 2 Video, HDMI, and MHL sources (EX7240 Pro/EX9200 Pro)
- 3 USB port sources (computer display and external devices)
- 4 Network source

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

## Projection Modes

Depending on how you positioned the projector, you may need to change the projection mode so your images project correctly.

- **Front** (default setting) lets you project from a table in front of the screen.
- **Front/Ceiling** flips the image over top-to-bottom to project upside-down from a ceiling or wall mount.
- **Rear** flips the image horizontally to project from behind a translucent screen.
- **Rear/Ceiling** flips the image over top-to-bottom and horizontally to project from the ceiling and behind a translucent screen.

[Changing the Projection Mode Using the Remote Control](#)

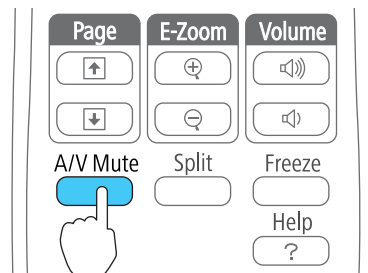
[Changing the Projection Mode Using the Menus](#)

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

## Changing the Projection Mode Using the Remote Control

You can change the projection mode to flip the image over top-to-bottom.

1. Turn on the projector and display an image.
2. Hold down the **A/V Mute** button on the remote control for five seconds.



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

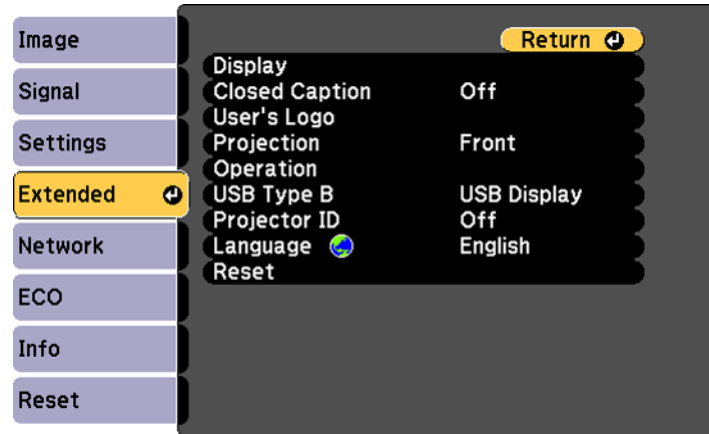
3. To change projection back to the original mode, hold down the **A/V Mute** button for five seconds again.

Parent topic: [Projection Modes](#)

## Changing the Projection Mode Using the Menus

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

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



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

Parent topic: [Projection Modes](#)

## Image Aspect Ratio

The projector can display images in different width-to-height ratios called aspect ratios. Normally the input signal from your video source determines the image's aspect ratio. However, for certain images you can change the aspect ratio to fit your screen by pressing a button on the remote control.

If you always want to use a particular aspect ratio for a certain video input source, you can select it using the projector's menus.

[Changing the Image Aspect Ratio](#)

[Available Image Aspect Ratios](#)

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

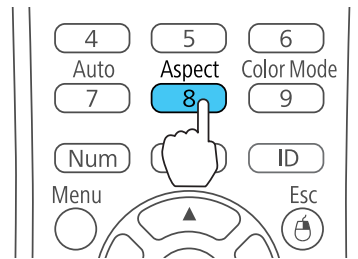
**Related references**

[Input Signal Settings - Signal Menu](#)

## Changing the Image Aspect Ratio

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

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



The shape and size of the displayed image changes, and the name of the aspect ratio appears briefly on the screen.

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

**Parent topic:** [Image Aspect Ratio](#)

## Available Image Aspect Ratios

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

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

### EX3240/EX5240/EX5250 Pro/VS240/VS340

Aspect ratio setting	Description
<b>Auto</b>	Automatically sets the aspect ratio according to the input signal.
<b>Normal</b>	Displays images using the full projection area and maintains the aspect ratio of the image.
<b>4:3</b>	Displays images using the full projection area at 4:3 aspect ratio.
<b>16:9</b>	Converts the aspect ratio of the image to 16:9.

### EX7240 Pro/EX9200 Pro/VS345

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

**Note:** The **Auto** aspect ratio setting is available only for HDMI image sources. For HD HDMI image sources, the aspect ratio is set by the source and cannot be changed.

**Parent topic:** [Image Aspect Ratio](#)

## Color Mode

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

If you always want to use a particular color mode for a certain video input source, you can select it using the projector menus.

[Changing the Color Mode](#)

[Available Color Modes](#)

[Turning On Auto Iris](#)

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

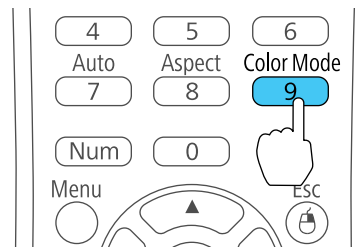
**Related references**

[Image Quality Settings - Image Menu](#)

## Changing the Color Mode

You can change the projector's Color Mode using the remote control to optimize the image for your viewing environment.

1. Turn on the projector and switch to the image source you want to use.
2. If you are projecting from a DVD player or other video source, insert a disc or other video media and press the play button, if necessary.
3. Press the **Color Mode** button on the remote control to change the Color Mode.



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

4. To cycle through all the available Color Modes for your input signal, press the **Color Mode** button repeatedly.

**Parent topic:** [Color Mode](#)



## Available Color Modes

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

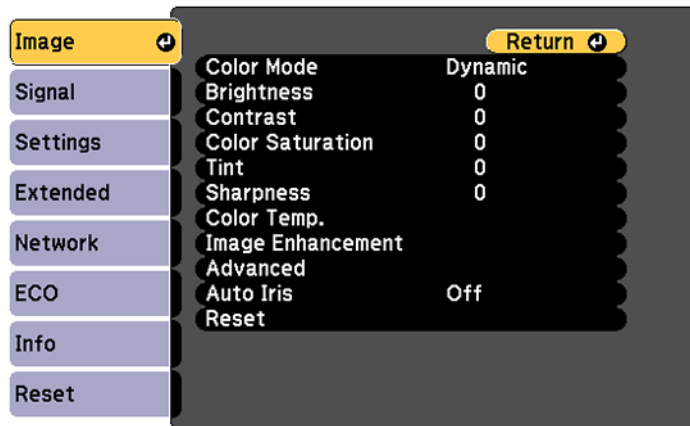
Color Mode	Description
Presentation	Best for color presentations in a bright room
Dynamic	Best for video games in a bright room
Cinema	Best for movies projected in a dark room
sRGB	Best for standard sRGB computer displays
Blackboard	Best for presentations onto a green chalkboard (adjusts the colors accordingly)

Parent topic: [Color Mode](#)

## Turning On Auto Iris

In certain color modes, you can turn on the Auto Iris setting to automatically optimize the image based on the brightness of the content you project.

1. Turn on the projector and switch to the image source you want to use.
2. Press the **Menu** button.
3. Select the **Image** menu and press **Enter**.



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

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

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

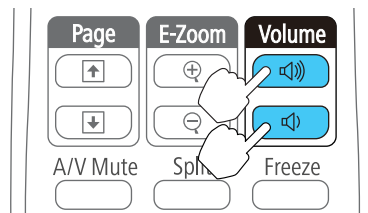
**Parent topic:** [Color Mode](#)

## Controlling the Volume with the Volume Buttons

You can use the **Volume** buttons on the remote control to adjust the volume as you project a presentation with audio. You can also use the volume buttons on the projector's control panel (EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345).

The volume buttons control the projector's internal speaker system. You must adjust the volume separately for each connected input source.

1. Turn on the projector and start a presentation that includes audio.
2. Press the **Volume** buttons as necessary to lower or raise the volume.



A volume gauge appears on the screen.

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

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

### Related references

[Projector Parts - Remote Control](#)

[Projector Feature Settings - Settings Menu](#)

## Projecting a PC Free Presentation

You can use your projector's PC Free feature whenever you connect a USB device that contains compatible image or movie files. This lets you quickly and easily display and control them using the projector's remote control. You can also display a slide show of the images.

[Supported PC Free File Types](#)

[Starting a PC Free Slide Show](#)

[Starting a PC Free Movie Presentation](#)

[PC Free Display Options](#)

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

### **Related concepts**

[USB Device Projection](#)

### **Related tasks**

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

## Supported PC Free File Types

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

**Note:** For best results, place your files on media that is formatted in FAT16/32. If you have trouble projecting from media formatted for non-Windows file systems, try formatting the media for Windows instead. You may not be able to use the security features on certain USB storage devices with PC Free features.

File contents	File type (extension)	Details
Image	.jpg	Make sure the file is not: <ul style="list-style-type: none"> <li>• CMYK format</li> <li>• Progressive format</li> <li>• Highly compressed</li> <li>• Above 8192 × 8192 resolution</li> </ul>
	.bmp	Make sure the file resolution is not above 1280 × 800
	.gif	Make sure the file is not: <ul style="list-style-type: none"> <li>• Above 1280 × 800 resolution</li> <li>• Animated</li> </ul>
	.png	Make sure the file resolution is not above 1280 × 800
Movie	.avi	Make sure the file is not: <ul style="list-style-type: none"> <li>• Saved with an audio codec other than linear PCM or ADPCM</li> <li>• Above 1280 × 720 resolution</li> <li>• Larger than 2GB</li> </ul>

Parent topic: [Projecting a PC Free Presentation](#)

## Starting a PC Free Slide Show

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

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

1. Press the **USB** button on the projector remote control.

The PC Free screen appears.



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

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

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

**Parent topic:** [Projecting a PC Free Presentation](#)

**Related references**

[PC Free Display Options](#)

**Related tasks**

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

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

## Starting a PC Free Movie Presentation

After connecting a USB device or digital camera to the projector, you can switch to the USB input source and start your movie.

**Note:** You can change the PC Free operation options by highlighting **Option** at the bottom of the screen and pressing **Enter**.

1. Press the **USB** button on the projector remote control.

The PC Free screen appears.



2. Do the following as necessary to locate your files:
  - If you need to display files inside a subfolder on your device, press the arrow buttons to highlight the folder and press the **Enter** button.
  - To move back up a folder level on your device, highlight **Back to Top** and press **Enter**.
  - To view additional files in a folder, highlight **Next page** or **Previous page** and press **Enter**. (You can also press the **Page** up or down buttons on the remote control.)
3. To play back a movie, press the arrow buttons to highlight the file and press **Enter**.

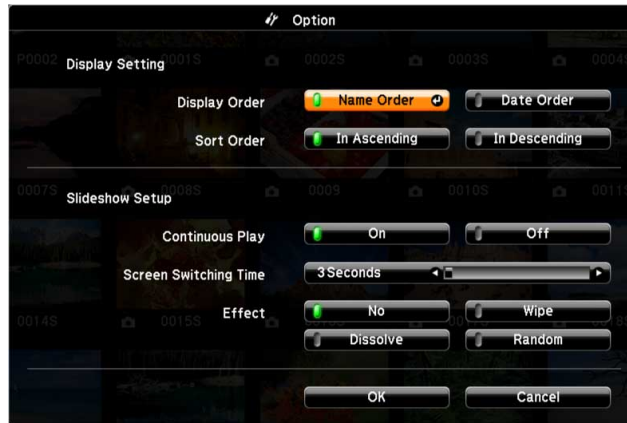
**Note:** If any file names are longer than 8 characters or include unsupported symbols, the file names may be shortened or changed only in the screen display. If you want to play back all the movies in a folder in sequence, select the **Slideshow** option at the bottom of the screen.

4. To stop movie playback, press the **Esc** button, highlight **Exit**, and press **Enter**.

**Parent topic:** [Projecting a PC Free Presentation](#)

## PC Free Display Options

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



Setting	Options	Description
<b>Display Order</b>	<b>Name Order</b>	Displays files in name order
	<b>Date Order</b>	Displays files in date order
<b>Sort Order</b>	<b>In Ascending</b>	Sorts files in first-to-last order
	<b>In Descending</b>	Sorts files in last-to-first order
<b>Continuous Play</b>	<b>On</b>	Displays a slide show continuously
	<b>Off</b>	Displays a slide show one time through
<b>Screen Switching Time</b>	<b>No</b>	Does not display the next file automatically
	1 Second to 60 Seconds	Displays files for the selected time and switches to the next file automatically; high resolution images may switch at a slightly slower rate



<b>Setting</b>	<b>Options</b>	<b>Description</b>
<b>Effect</b>	<b>Wipe</b>	Transitions between images with a wipe effect
	<b>Dissolve</b>	Transitions between images with a dissolve effect
	<b>Random</b>	Transitions between images using a random variety of effects

**Parent topic:** [Projecting a PC Free Presentation](#)

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# Adjusting Projector Features

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

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

[Stopping Video Action Temporarily](#)

[Zooming Into and Out of Images](#)

[Projector Security Features](#)

[Projector Identification System for Multiple Projector Control](#)

[Projecting Two Images Simultaneously](#)

[Copying Menu Settings Between Projectors](#)

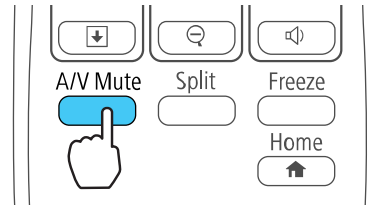
## Shutting Off the Picture and Sound Temporarily

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.

If you want to display an image such as a company logo or picture when the presentation is stopped, you can set up this feature using the projector's menus.

**Note:** If the picture and sound are off for more than 30 minutes, the power automatically turns off. You can adjust this setting using the projector's menu system.

1. Press the **A/V Mute** button on the remote control to temporarily stop projection and mute any sound.



2. To turn the picture and sound back on, press **A/V Mute** again.

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

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

**Related references**

[Projector Setup Settings - ECO Menu](#)

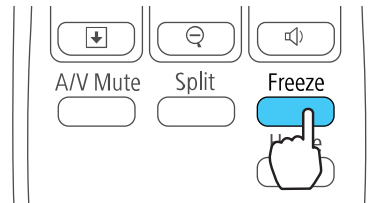
**Related tasks**

[Saving a User's Logo Image to Display](#)

## Stopping Video Action Temporarily

You can temporarily stop the action in a video or computer presentation and keep the current image on the screen. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

1. Press the **Freeze** button on the remote control to stop the video action.



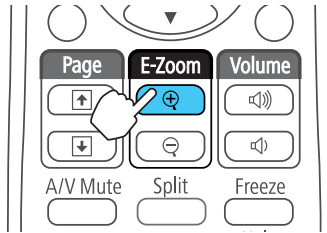
2. To restart the video action in progress, press **Freeze** again.

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

## Zooming Into and Out of Images

You can draw attention to parts of a presentation by zooming into a portion of the image and enlarging it on the screen.

1. Press the **E-Zoom +** button on the remote control.



You see a crosshair on the screen indicating the center of the zoom area.

2. Use the following buttons on the remote control to adjust the zoomed image:
  - Use the arrow buttons to position the crosshair in the image area you want to zoom into.
  - Press the **E-Zoom +** button repeatedly to zoom into the image area, enlarging it as necessary. Press and hold the **E-Zoom +** button to zoom in more quickly.
  - To pan around the zoomed image area, use the arrow buttons.
  - To zoom out of the image, press the **E-Zoom –** button as necessary.
  - To return to the original image size, press **Esc**.

Parent topic: [Adjusting Projector Features](#)

## Projector Security Features

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

- Password security to prevent the projector from being turned on, and prevent changes to the startup screen and other settings.
- Button lock security to block operation of the projector using the buttons on the control panel.
- Security cabling to physically cable the projector in place.

[Password Security Types](#)

[Locking the Projector's Buttons](#)

[Installing a Security Cable](#)

Parent topic: [Adjusting Projector Features](#)

## Password Security Types

You can set up these types of password security using one shared password:

- **Power On Protection** password prevents anyone from using the projector without first entering a password.
- **User's Logo Protection** password prevents anyone from changing the custom screen the projector can display when it turns on or when you use the A/V Mute feature. The presence of the custom screen discourages theft by identifying the projector's owner.
- **Network Protection** password prevents anyone from changing the network settings in the projector menus.

[Setting a Password](#)

[Selecting Password Security Types](#)

[Entering a Password to Use the Projector](#)

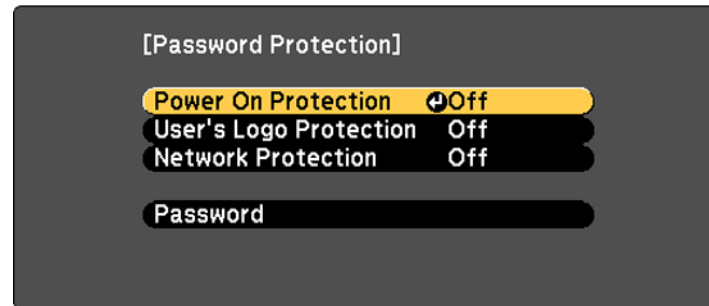
[Saving a User's Logo Image to Display](#)

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

### Setting a Password

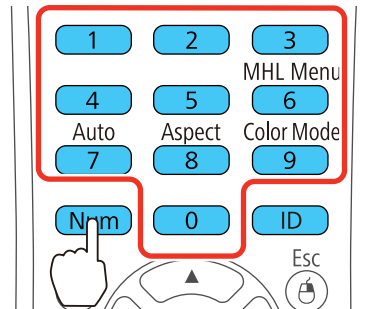
To use password security, you must set a password.

1. Hold down the **Freeze** button on the remote control for about five seconds or until you see this menu.



2. Press the down arrow to select **Password** and press **Enter**.  
You see the prompt "Change the password?".
3. Select **Yes** and press **Enter**.

4. Press and hold down the **Num** button on the remote control and use the numeric buttons to set a four-digit password.



The password displays as \*\*\*\* as you enter it. Then you see the confirmation prompt.

5. Enter the password again.  
You see the message "Password accepted."
6. Press **Esc** to return to the menu.
7. Make a note of the password and keep it in a safe place in case you forget it.

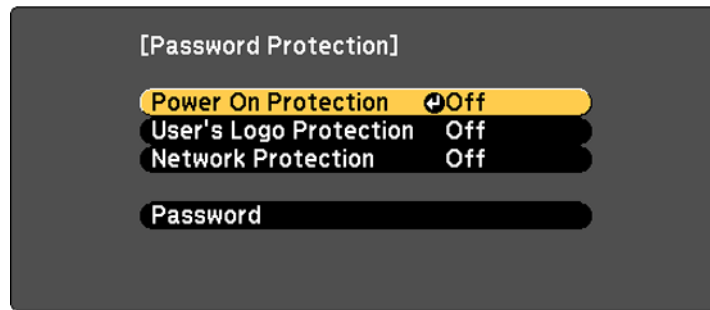
**Parent topic:** [Password Security Types](#)

#### **Related tasks**

[Selecting Password Security Types](#)

### **Selecting Password Security Types**

After setting a password, you see this menu, allowing you to select the password security types you want to use.



If you do not see this menu, hold down the **Freeze** button on the remote control for about five seconds or until the menu appears.

1. To prevent unauthorized use of the projector, select **Power On Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
2. To prevent changes to the User's Logo screen or related display settings, select **User's Logo Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
3. To prevent changes to network settings, select **Network Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.

**Note:** Be sure to keep the remote control in a safe place; if you lose it, you will not be able to enter the password required to use the projector.

**Parent topic:** [Password Security Types](#)

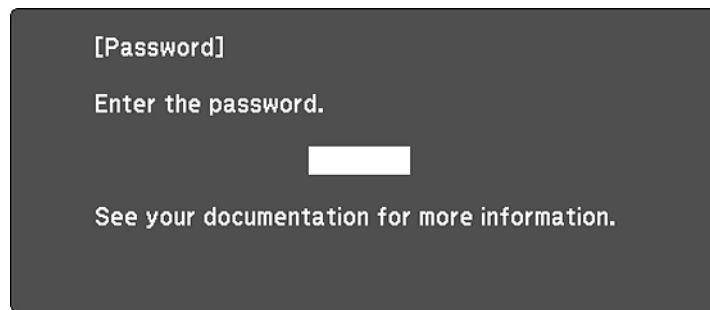
#### **Related tasks**

[Setting a Password](#)

### **Entering a Password to Use the Projector**

If a password is set up and a **Power On Protection** password is enabled, you see a prompt to enter a password whenever you turn on the projector.

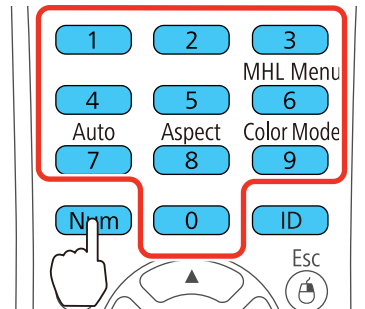
**Note:** This prompt will only appear when the projector is turned on after being unplugged.



[0-9] :Enter

You must enter the correct password to use the projector.

1. Press and hold down the **Num** button on the remote control while you enter the password using the numeric buttons.



The password screen closes.

2. If the password is incorrect, the following may happen:
  - You see a "wrong password" message and a prompt to try again. Enter the correct password to proceed.
  - If you enter an incorrect password several times in succession, the projector displays a request code and a message to contact Epson Support. Do not attempt to enter the password again. When you contact Epson Support, provide the displayed request code and proof of ownership for assistance in unlocking the projector.

**Parent topic:** [Password Security Types](#)

#### **Related references**

[Where to Get Help](#)

### **Saving a User's Logo Image to Display**

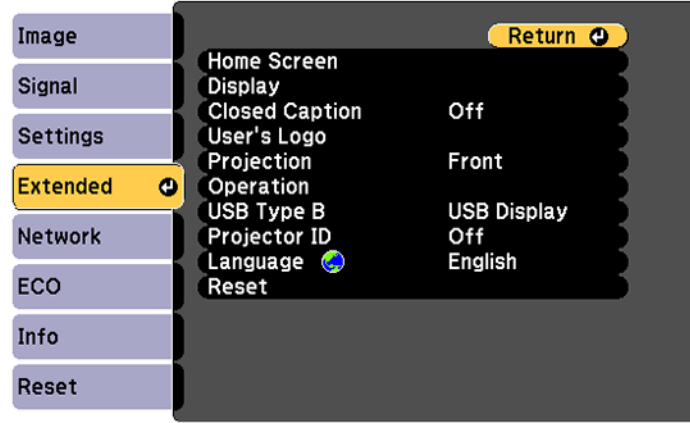
You can transfer an image to the projector and then display it whenever the projector turns on. You can also display the image when the projector is not receiving an input signal or when you temporarily stop projection (using the A/V Mute feature). This transferred image is called the User's Logo screen.

The image you select as the User's Logo can be a photo, graphic, or company logo, which is useful in identifying the projector's owner to help deter theft. You can prevent changes to the User's Logo by setting up password protection for it.

1. Display the image you want to project as the User's Logo.

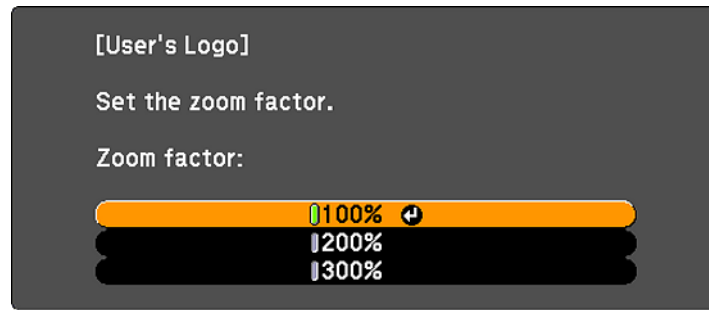


2. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



3. Select the **User's Logo** setting and press **Enter**.  
You see a prompt asking if you want to use the displayed image as a user's logo.
4. Select **Yes** and press **Enter**.  
You see a selection box overlaying your image.
5. Use the arrow buttons on the remote control to surround the image area you want to use as the User's Logo and press **Enter**.  
You see a prompt asking if you want to select this image area.
6. Select **Yes** and press **Enter**. (If you want to change the selected area, select **No**, press **Enter**, and repeat the last step.)

You see the User's Logo zoom factor menu.



7. Select a zoom percentage and press **Enter**.  
You see a prompt asking if you want to save the image as the User's Logo.
8. Select **Yes** and press **Enter**.  
You see a completion message.
9. Press **Esc** to exit the message screen.
10. Select the **Extended** menu and press **Enter**.
11. Select **Display** and press **Enter**.
12. Select when you want to display the User's Logo screen:
  - To display it whenever there is no input signal, select **Display Background** and set it to **Logo**.
  - To display it whenever you turn the projector on, select **Startup Screen** and set it to **On**.
  - To display it whenever you press the **A/V Mute** button, select **A/V Mute** and set it to **Logo**.

To prevent anyone from changing the User's Logo settings without first entering a password, set a password and enable User's Logo security.

**Parent topic:** [Password Security Types](#)

#### **Related tasks**

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

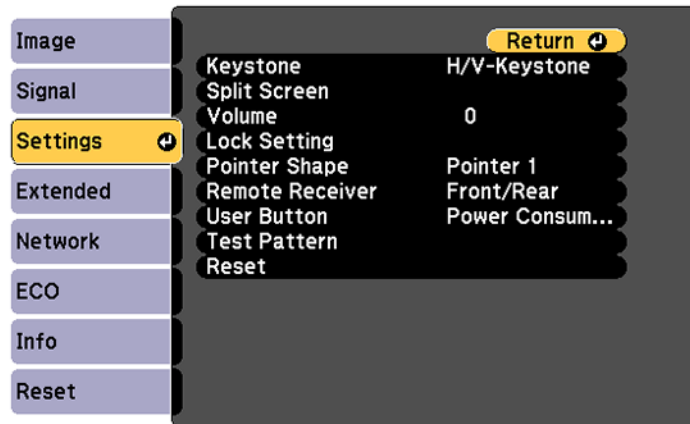
[Setting a Password](#)

[Selecting Password Security Types](#)

## Locking the Projector's Buttons

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

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



3. Select the **Control Panel Lock** setting and press **Enter**.
4. Select one of these lock types and press **Enter**:
  - To lock all of the projector's buttons, select **Full Lock**.
  - To lock all buttons except the power button, select **Partial Lock**.

You see a confirmation prompt.

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

[Unlocking the Projector's Buttons](#)

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

## Unlocking the Projector's Buttons

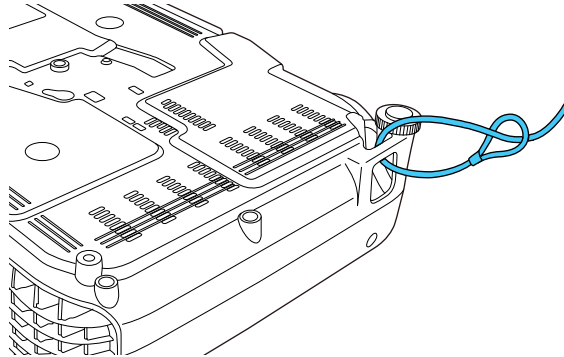
If the projector's buttons have been locked, hold the **Enter** button on the projector's control panel for seven seconds to unlock them.

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

## Installing a Security Cable

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

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



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

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

### Related references

[Projector Parts - Front/Top](#)

[Optional Equipment and Replacement Parts](#)

## Projector Identification System for Multiple Projector Control

You can operate multiple projectors using one remote control for more elaborate presentations. To do this, you assign an identification number to each projector and to the remote control. Then you can operate all the projectors at once or individually.

You can also match the colors displayed by any projectors you plan to use near each other.

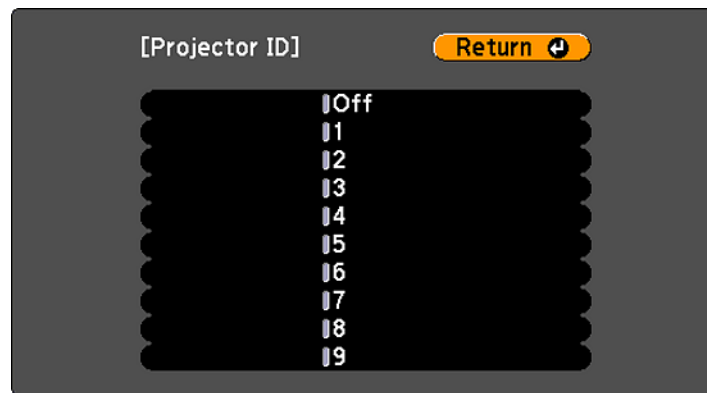
**Caution:** Leave at least 2 feet (60 cm) of space between the projectors to prevent them from overheating.

- [Setting the Projector ID](#)
- [Setting the Remote Control ID](#)
- [Matching Multiple-Projector Display Quality](#)
- Parent topic:** [Adjusting Projector Features](#)

## Setting the Projector ID

If you want to control multiple projectors from a remote control, give each projector a unique ID.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select **Projector ID** and press **Enter**.



4. Use the arrow buttons on the remote control to select the identification number you want to use for the projector. Then press **Enter**.

Repeat these steps for all the other projectors you want to operate from one remote control.

**Parent topic:** [Projector Identification System for Multiple Projector Control](#)

## Setting the Remote Control ID

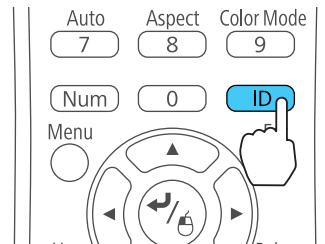
The remote control's ID is set to zero by default so it can operate any compatible projector. If you want to set the remote control to operate only a particular projector, you need to set the remote control's ID to match the projector's ID.

1. Turn on the projector you want the remote control to operate with exclusively.

2. Make sure you know the projector's ID number as set in the Extended menu **Projector ID** setting.

**Note:** If you have forgotten the projector's ID, aim the remote at the projector and press the ID button. The projector's ID will display on the screen temporarily.

3. Aim the remote control at that projector.
4. Hold down the **ID** button on the remote control while you press the numeric button that matches the projector's ID. Then release the buttons.



5. Press the **ID** button on the remote control to check if the ID-setting process worked. You see a message displayed by the projector.
  - If the remote control is listed as **On**, the remote control ID is set to operate only the listed projector.
  - If the remote control is listed as **Off**, the remote control ID is not set properly. Repeat the steps above to set the ID to match the projector you want to control.

**Note:** You must set the remote control ID to match the projector ID each time you turn on the projector you have set it to control.

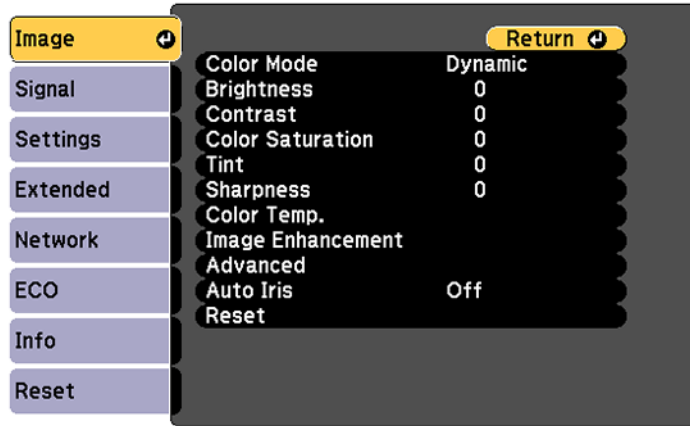
**Parent topic:** [Projector Identification System for Multiple Projector Control](#)

## Matching Multiple-Projector Display Quality

You can match the display quality of multiple projectors that will project next to each other.

1. Turn on all the projectors on which you want to match the display quality.
2. Set ID numbers on each projector.
3. Set the remote control ID to match the first projector.

4. Press the **Menu** button, select the **Image** menu, and press **Enter**.



5. Select settings as necessary.
6. Set the remote control ID to match the next projector, then select Image menu adjustments as necessary to match the projectors' displays.

**Note:** The brightness and tint may not match exactly even after adjustments. If brightness and tint differences become more noticeable over time, repeat the adjustments.

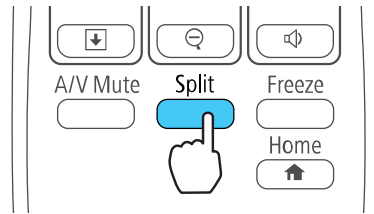
**Parent topic:** [Projector Identification System for Multiple Projector Control](#)

## Projecting Two Images Simultaneously

You can use the split screen feature to simultaneously project two images from different image sources next to each other. You can control the split screen feature using the remote control or the projector menus.

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

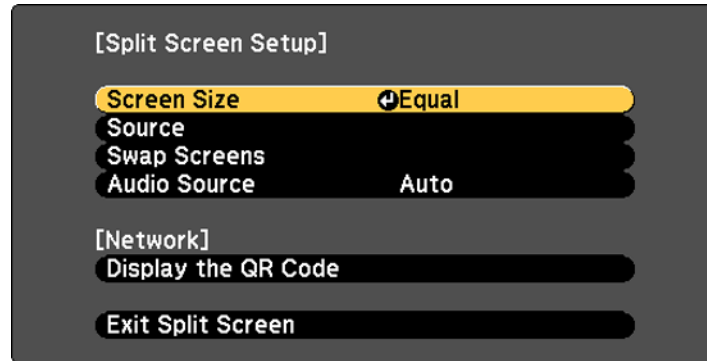
1. Press the **Split** button on the remote control.



The currently selected input source moves to the left side of the screen.

2. Press the **Menu** button.

You see this screen:



3. To select an input source for the other image, select the **Source** setting, press **Enter**, select the input source, select **Execute**, and press **Enter**. (You can also change image sources, if necessary.)
4. To switch the images, select the **Swap Screens** setting and press **Enter**.
5. To change the image sizes, select the **Screen Size** setting, press **Enter**, select a sizing option, press **Enter**, and press **Menu** to exit.

**Note:** Depending on the video input signals, the images may not appear at the same size even if you choose the **Equal** setting.



6. To choose the audio you want to hear, select the **Audio Source** setting, press **Enter**, select an audio option, press **Enter**, and press **Menu** to exit.

**Note:** Select **Auto** to hear audio from the largest screen or the left screen.

7. To exit the split screen feature, press the **Split** or **Esc** button.

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

## Copying Menu Settings Between Projectors

After you select menu settings for your projector, you can transfer them to another projector of the same model.

**Note:** Any saved User's Logo setting on the projector will transfer to the other projector.

**Caution:** If the copy process fails due to a power failure, communication error, or for any other reason, Epson will not be responsible for any repair costs incurred.

The following settings will not transfer between projectors:

- Info menu items
- Network menu settings other than those in the Mail and Others menus

[Saving Settings to a USB Flash Drive](#)

[Transferring Settings From a USB Flash Drive](#)

[Saving Settings to a Computer](#)

[Transferring Settings From a Computer](#)

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

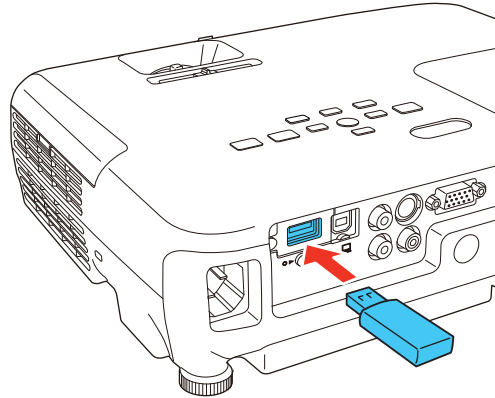
## Saving Settings to a USB Flash Drive

You can save the projector settings you want to transfer to a USB flash drive.

**Note:** Use an empty flash drive. If the drive contains other files, the transfer may not complete correctly.

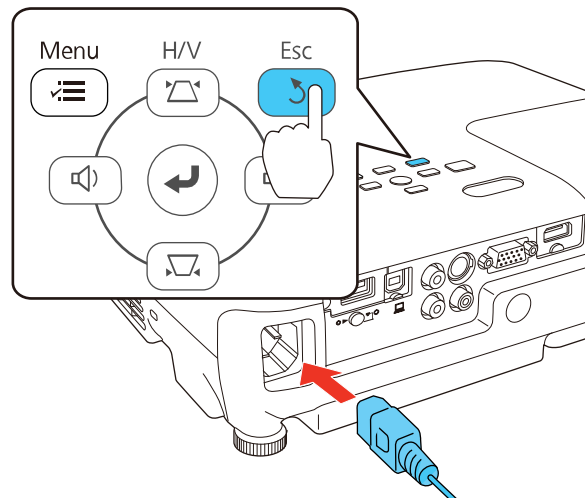
1. Turn off the projector and unplug the power cord from the projector's power inlet.

2. Insert the flash drive into the **USB-A** port.



**Note:** Connect the flash drive directly to the projector. Do not use a hub.

3. Press and hold the **Esc** button on the control panel or remote control as you connect the power cord to the projector's power inlet.



4. When the power, Status, Lamp, and Temp lights turn on, release the **Esc** button.

The lights flash to indicate that settings are transferring to the flash drive. When the lights stop flashing, the power light turns blue and the projector enters standby mode.

**Caution:** Do not unplug the power cord or remove the flash drive while the lights are flashing. This could damage the projector.

5. Once the projector enters standby mode, remove the flash drive.

**Parent topic:** [Copying Menu Settings Between Projectors](#)

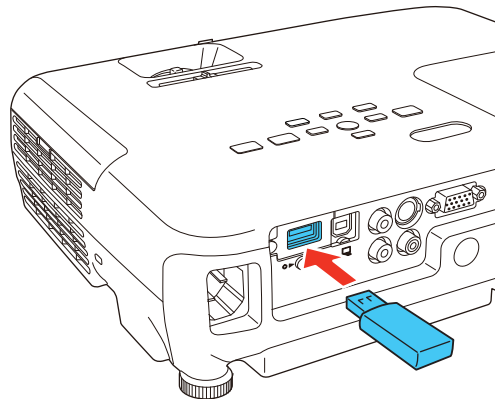
## Transferring Settings From a USB Flash Drive

After saving projector settings to a USB flash drive, you can transfer them to another projector of the same model.

**Note:** Make sure the USB flash drive contains only a single settings transfer from another projector of the same model. The settings are contained in a file called **pjconfdata.bin**. If the drive contains other files, the transfer may not complete correctly.

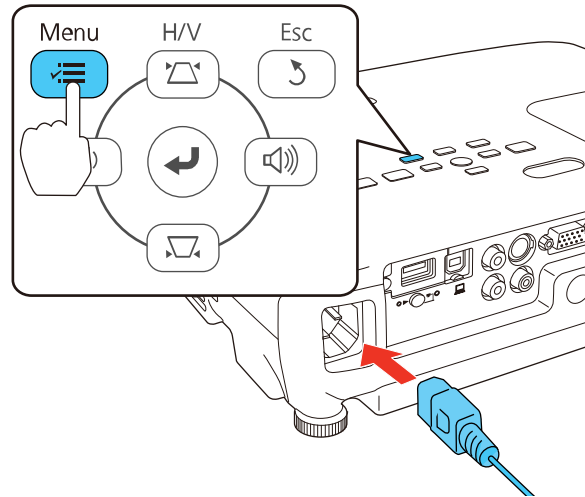
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

1. Turn off the projector and unplug the power cord from the projector's power inlet.
2. Insert the flash drive into the **USB-A** port.



**Note:** Connect the flash drive directly to the projector. Do not use a hub.

3. Press and hold the **Menu** button on the control panel or remote control as you connect the power cord to the projector's power inlet.



4. When the power, Lamp, and Temp lights turn on, release the **Menu** button.  
The lights flash to indicate that settings are transferring to the projector. When the lights stop flashing, the power light turns blue and the projector enters standby mode.

**Caution:** Do not unplug the power cord or remove the flash drive while the lights are flashing. This could damage the projector.

5. Once the projector enters standby mode, remove the flash drive.

**Parent topic:** [Copying Menu Settings Between Projectors](#)

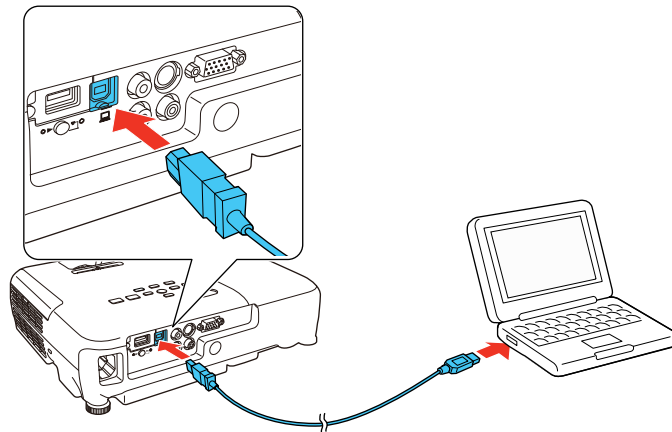
## Saving Settings to a Computer

You can save the projector settings you want to transfer to a computer.

Your computer must be running one of the following operating systems:

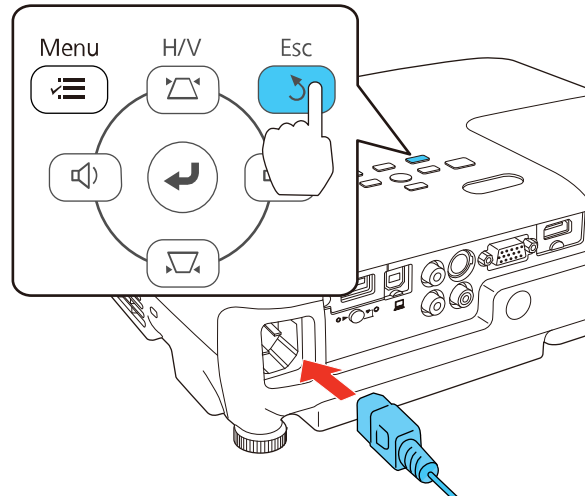
- Windows Vista
- Windows 7
- Windows 8.x

- Windows 10
  - OS X 10.5.8
  - OS X 10.6.x
  - OS X 10.7.x
  - OS X 10.8.x
  - OS X 10.9.x
  - OS X 10.10.x
1. Turn off the projector and unplug the power cord from the projector's power inlet.
  2. Connect a USB cable to your projector's **USB-B** port.



3. Connect the other end to any available USB port on your computer.

4. Press and hold the **Esc** button on the control panel or remote control as you connect the power cord to the projector's power inlet.



5. When the power, Status, Lamp, and Temp lights turn on, release the **Esc** button.  
The projector shows up as a removable disk on your computer.
6. Open the removable disk and copy the **pjconfdata.bin** file to your computer.
7. Once the file has copied, do one of the following:
  - **Windows:** Open the **My Computer**, **Computer**, or **Windows Explorer** utility. Right-click the name of your projector (listed as a removable disk) and select **Eject**.
  - **OS X:** Drag the removable disk icon for your projector from the desktop into the trash.The projector enters standby mode.

Parent topic: [Copying Menu Settings Between Projectors](#)

## Transferring Settings From a Computer

After saving projector settings to a computer, you can transfer them to another projector of the same model.

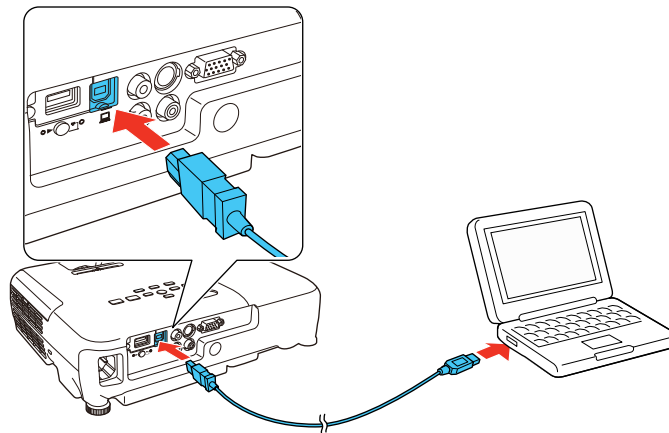
Your computer must be running one of the following operating systems:

- Windows Vista

- Windows 7
- Windows 8.x
- Windows 10
- OS X 10.5.8
- OS X 10.6.x
- OS X 10.7.x
- OS X 10.8.x
- OS X 10.9.x
- OS X 10.10.x

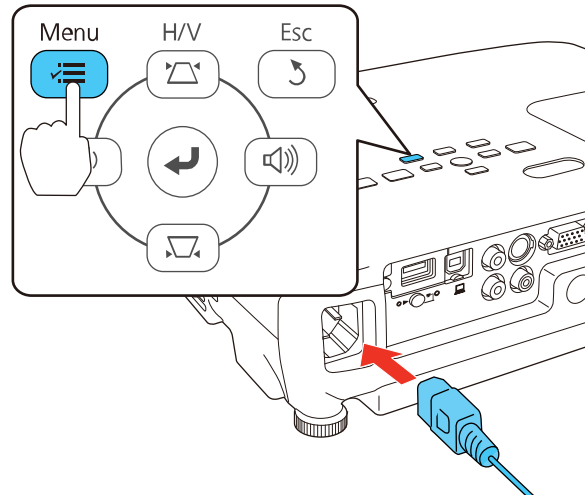
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

1. Turn off the projector and unplug the power cord from the projector's power inlet.
2. Connect a USB cable to your projector's **USB-B** port.



3. Connect the other end to any available USB port on your computer.

4. Press and hold the **Menu** button on the control panel or remote control as you connect the power cord to the projector's power inlet.



5. When the power, Status, Lamp, and Temp lights turn on, release the **Menu** button.  
The projector shows up as a removable disk on your computer.
6. Copy the **pjconfdata.bin** file from your computer to the removable disk.

**Note:** Do not copy any other files to the removable disk.

7. Once the file has copied, do one of the following:
  - **Windows:** Open the **My Computer**, **Computer**, or **Windows Explorer** utility. Right-click the name of your projector (listed as a removable disk) and select **Eject**.
  - **OS X:** Drag the removable disk icon for your projector from the desktop into the trash.

The power, Status, Lamp, and Temp lights start flashing to indicate that the projector's settings are being updated. When the lights stop flashing, the power light turns blue and the projector enters standby mode.

**Caution:** Do not unplug the power cord while the lights are flashing. This could damage the projector.



**Parent topic:** [Copying Menu Settings Between Projectors](#)

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# Adjusting the Menu Settings

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

[Using the Projector's Menus](#)

[Image Quality Settings - Image Menu](#)

[Input Signal Settings - Signal Menu](#)

[Projector Feature Settings - Settings Menu](#)

[Projector Setup Settings - Extended Menu](#)

[Projector Network Settings - Network Menu](#)

[Projector Setup Settings - ECO Menu](#)

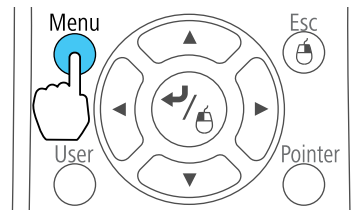
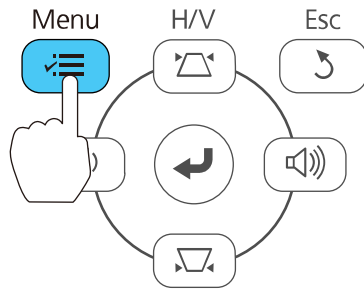
[Projector Information Display - Info Menu](#)

[Projector Reset Options - Reset Menu](#)

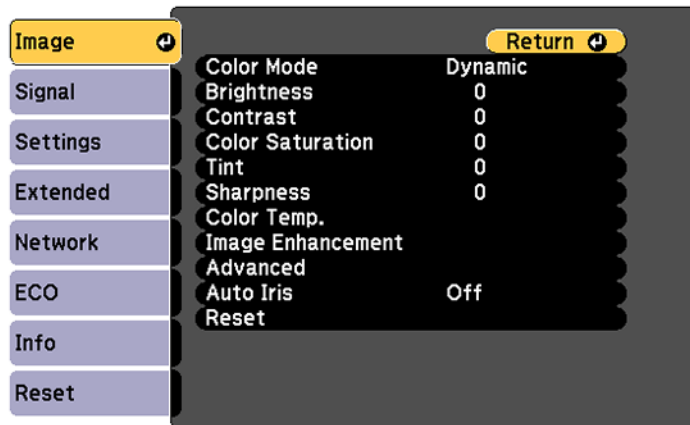
## Using the Projector's Menus

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

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



You see the menu screen displaying the Image menu settings.



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

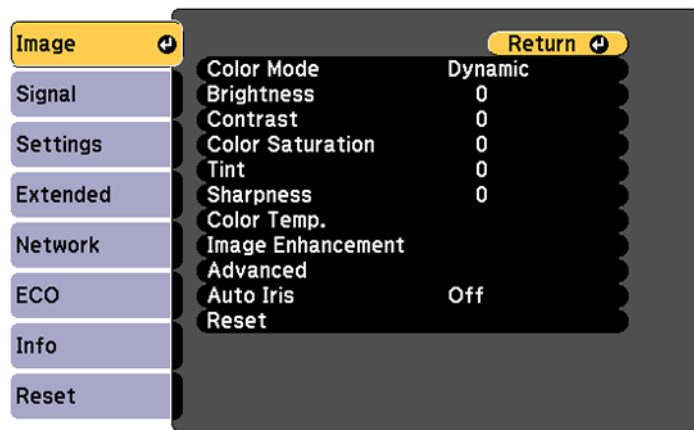
**Note:** The available settings depend on the current input source.

3. To change settings in the displayed menu, press **Enter**.
4. Press the up or down arrow button to move through the settings.
5. Change the settings using the buttons listed on the bottom of the menu screens.
6. To return all the menu settings to their default values, select **Reset**.
7. When you finish changing settings on a menu, press **Esc**.
8. Press **Menu** or **Esc** to exit the menus.

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

## Image Quality Settings - Image Menu

Settings on the Image menu let you adjust the quality of your image for the input source you are currently using. The available settings depend on the currently selected input source.



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

Setting	Options	Description
<b>Color Mode</b>	See the list of available Color Modes	Adjusts the vividness of image colors for various image types and environments
<b>Brightness</b>	Varying levels available	Lightens or darkens the overall image
<b>Contrast</b>	Varying levels available	Adjusts the difference between light and dark areas of the image
<b>Color Saturation</b>	Varying levels available	Adjusts the intensity of the image colors
<b>Tint</b>	Varying levels available	Adjusts the balance of green to magenta tones in the image
<b>Sharpness</b>	Varying levels available	Adjusts the sharpness or softness of image details
<b>Color Temp.</b> (color temperature)	<b>Color Temp.</b> <b>Customized</b>	Sets the overall color tone; high values tint the image blue and low values tint the image red  <b>Color Temp.:</b> Sets the color tone in a range of 3200 to 10000 °K (Kelvin) for the <b>sRGB</b> Color Mode or 0 to 10 for all other Color Modes  <b>Customized:</b> Adjusts the intensity of individual hues in the image
<b>Image Enhancement</b>	<b>Noise Reduction</b>	Reduces flickering in analog images in 3 levels

Setting	Options	Description
<b>Advanced</b>	<b>Deinterlacing</b>	Sets whether to convert interlaced to progressive signals for certain video image types <b>Off:</b> for fast-moving video images <b>Video:</b> for most video images <b>Film/Auto:</b> for movies, computer graphics, and animation
<b>Auto Iris</b>	<b>Off</b> <b>Normal</b> <b>High Speed</b>	Adjusts the projected luminance based on the image brightness when the <b>Dynamic</b> or <b>Cinema</b> Color Modes are selected; <b>High Speed</b> sets faster luminance correction for fast-moving images

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

**Note:** The **Noise Reduction** setting is not available if you have done the following:

- Set the **Deinterlacing** option to **Off**
- Selected a digital RGB or an interlaced (480i/576i/1080i) input signal

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

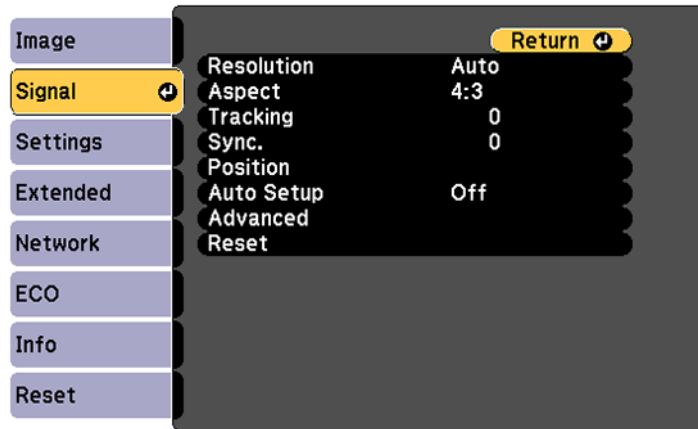
**Related references**

[Available Color Modes](#)

[Projector Setup Settings - ECO Menu](#)

## 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.



**Note:** You can restore the default settings of the **Position**, **Tracking**, and **Sync** settings by pressing the **Auto** button on the remote control.

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

Setting	Options	Description
<b>Resolution</b>	<b>Auto</b> <b>Wide</b> <b>Normal</b>	Sets the input signal resolution if not detected automatically using the <b>Auto</b> option
<b>Aspect</b>	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio) for the selected input source
<b>Tracking</b>	Varying levels available	Adjusts signal to eliminate vertical stripes in computer images

Setting	Options	Description
Sync.	Varying levels available	Adjusts signal to eliminate fuzziness or flickering in computer images
Position	Up, down, left, right	Adjusts the image location on the screen
Auto Setup	On Off	Automatically optimizes computer image quality (when On)
Overscan	Auto Off 4% 8%	Changes the projected image ratio to make the edges visible by a selectable percentage or automatically

#### Advanced settings

Setting	Options	Description
HDMI Video Range	Auto Normal Expanded	<p>Sets the video range to match the setting of the device connected to the HDMI input port</p> <p><b>Auto:</b> detects the video range automatically</p> <p><b>Normal:</b> normally for images from a device other than a computer; can also be selected if the black areas of the image are too bright</p> <p><b>Expanded:</b> normally for images from a computer; can also be selected if the image is too dark</p>
Video Signal	Auto Various video standards	<p>Specifies the signal type from the input sources connected to the video ports</p> <p><b>Auto:</b> detects signals automatically</p>



Setting	Options	Description
<b>Input Signal</b>	<b>Auto</b> <b>RGB</b> <b>Component</b>	Specifies the signal type from input sources connected to computer ports  <b>Auto:</b> detects signals automatically <b>RGB:</b> corrects color for computer/RGB video inputs <b>Component:</b> corrects color for component video inputs

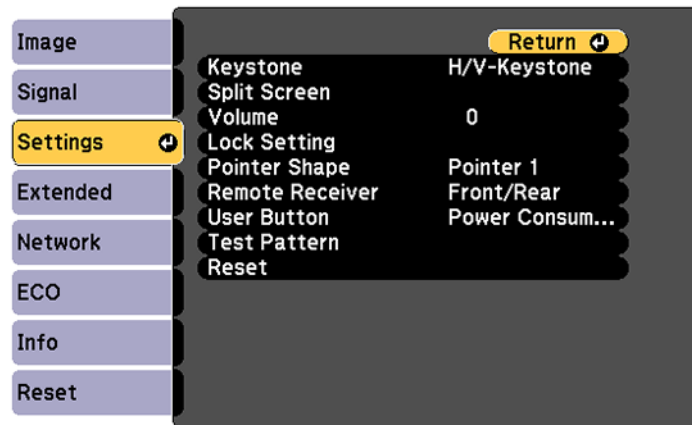
Parent topic: [Adjusting the Menu Settings](#)

Related references

[Available Image Aspect Ratios](#)

## Projector Feature Settings - Settings Menu

Options on the Settings menu let you customize various projector features. The available settings depend on the currently selected input source.



Setting	Options	Description
<b>Keystone</b>	<b>H/V Keystone</b> <b>Quick Corner</b>	Adjusts image shape to rectangular (horizontally and vertically)  <b>H/V Keystone:</b> lets you manually correct horizontal and vertical sides, or turn automatic correction or the horizontal keystone slider on or off  <b>Quick Corner:</b> select to correct image shape and alignment using an on-screen display
<b>Split Screen</b>	<b>Screen Size</b> <b>Source</b> <b>Swap Screens</b> <b>Audio Source</b> <b>Display the QR Code</b>	Divides the viewing area horizontally and displays two images side-by-side (press <b>Esc</b> to cancel split screen display)
<b>Zoom</b> (EX3240/VS240)	Varying levels available	Adjusts the size of the projected image
<b>Volume</b>	Varying levels available	Adjusts the volume of the projector's speaker system
<b>Lock Setting</b>	<b>Control Panel Lock</b>	Controls projector button locking to secure the projector  <b>Full Lock:</b> locks all buttons  <b>Partial Lock:</b> locks all buttons except the power button  <b>Off:</b> no buttons locked
<b>Pointer Shape</b>	Three shapes available	Changes the shape of the remote control pointer feature

Setting	Options	Description
Remote Receiver	Front/Rear Front Rear Off	Limits reception of remote control signals by the selected receiver; <b>Off</b> turns off all receivers
User Button	Power Consumption Info Deinterlacing Closed Caption Test Pattern Resolution Display the QR Code	Assigns a menu option to the <b>User</b> button on the remote control for one-touch access
Test Pattern	—	Displays a test pattern to assist in focusing and zooming the image and correcting image shape (press <b>Esc</b> to cancel pattern display)

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

**Related tasks**

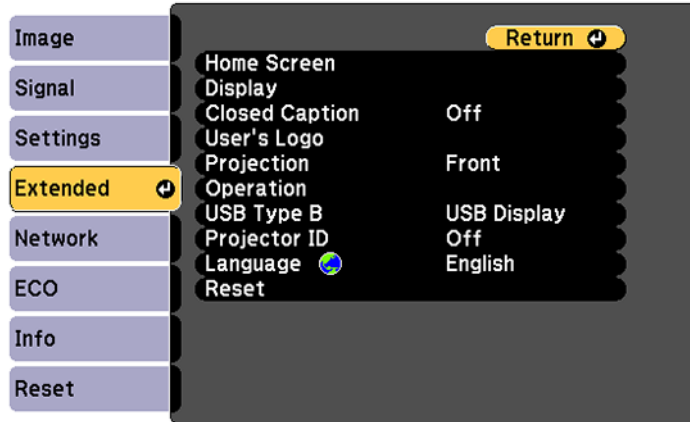
[Correcting Image Shape with the Horizontal Keystone Slider](#)

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

[Correcting Image Shape with Quick Corner](#)

## 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	Select various options for the projector's Home screen  <b>Home Screen Auto Disp.:</b> controls whether the Home Screen displays automatically when the projector is turned on  <b>Custom Function 1/Custom Function 2:</b> lets you customize the options displayed on the Home Screen and save your settings as a preset

Setting	Options	Description
<b>Display</b>	<b>Messages</b> <b>Display Background</b> <b>Startup Screen</b> <b>A/V Mute</b>	Selects various display options <b>Messages:</b> controls whether messages are displayed on the screen <b>Display Background:</b> selects the screen color or logo to display when no signal is received <b>Startup Screen:</b> controls whether a special screen appears when the projector starts up <b>A/V Mute:</b> selects the screen color or logo to display when A/V Mute is turned on
<b>Closed Caption</b>	<b>Off</b> <b>CC1</b> <b>CC2</b>	Controls use of closed captions and selects the closed caption type (closed captions are only visible for NTSC signals connected through the <b>S-Video</b> or <b>Video</b> ports)
<b>User's Logo</b>	—	Creates a screen that the projector displays to identify itself and enhance security
<b>Projection</b>	<b>Front</b> <b>Front/Ceiling</b> <b>Rear</b> <b>Rear/Ceiling</b>	Selects the way the projector faces the screen so the image is oriented correctly

Setting	Options	Description
<b>Operation</b>	<b>Direct Power On</b> <b>High Altitude Mode</b> <b>Auto Source Search</b> <b>Auto Power On</b>	Selects various operation options <b>Direct Power On:</b> turns on the projector when you plug it in <b>High Altitude Mode:</b> regulates the projector's operating temperature at altitudes above 4921 feet (1500 m) <b>Auto Source Search:</b> automatically detects the image signal being input when the projector is turned on <b>Auto Power On:</b> automatically turns on the projector when it receives an image signal (available only when <b>Standby Mode</b> is set to <b>Communication On</b> )
<b>USB Type B</b>	<b>USB Display</b> <b>Link 21L</b>	Selects the use of the projector's USB Type B port <b>USB Display:</b> select when you connect a computer to the projector's USB Type B port to display images <b>Link 21L:</b> allows a remote Windows computer to operate the projector over a USB connection using the Link 21L Utility
<b>Projector ID</b>	<b>Off</b> <b>1 through 9</b>	Assigns an ID for the projector when you use multiple projectors
<b>Language</b>	Various languages available	Selects the language for projector menu and message displays (not changed by <b>Reset</b> option)

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

**Related references**

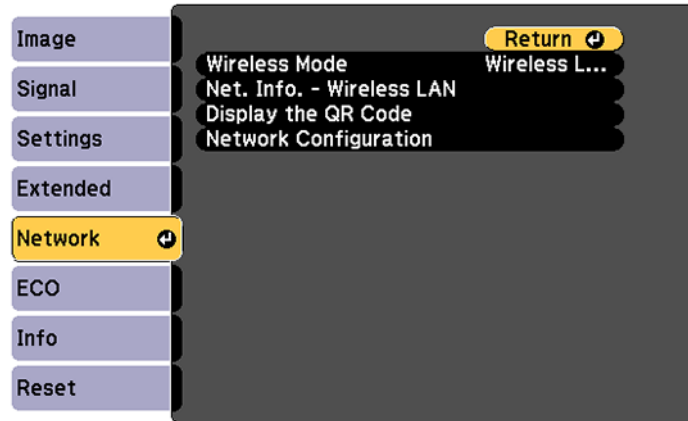
[Projector Setup Settings - ECO Menu](#)

**Related tasks**

[Saving a User's Logo Image to Display](#)

## 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.



Setting	Options	Description
<b>Wireless Mode</b>	<b>Wireless LAN On</b> <b>Off</b>	Turns on wireless LAN support
<b>Net. Info - Wireless LAN</b>	<b>Connection mode</b> <b>Wireless LAN Sys.</b> <b>Antenna level</b> <b>Projector Name</b> <b>SSID</b> <b>DHCP</b> <b>IP Address</b> <b>Subnet Mask</b> <b>Gateway Address</b> <b>MAC Address</b> <b>Region Code</b>	Displays wireless network status and details

Setting	Options	Description
Display the QR Code	—	Displays a QR code for connecting with iOS or Android devices using the Epson iProjection app
Network Configuration	Accesses additional network menus	Configures your network settings

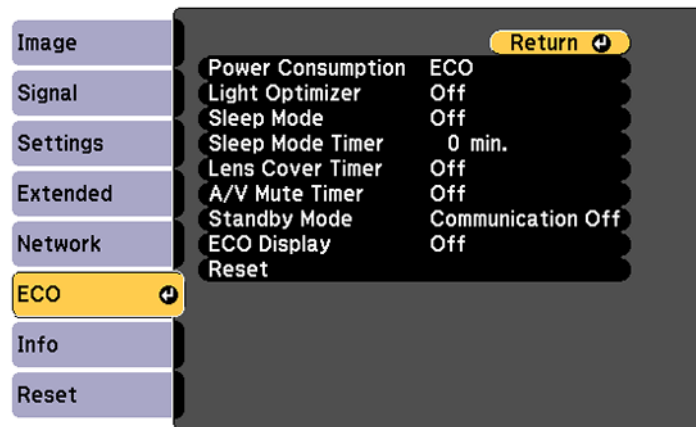
Parent topic: [Adjusting the Menu Settings](#)

#### Related tasks

[Selecting Wireless Network Settings Manually](#)

## Projector Setup Settings - ECO Menu

Settings on the ECO menu let you customize projector functions to save power. When you select a power-saving setting, a leaf icon appears next to the menu item.





Setting	Options	Description
<b>Power Consumption</b>	<b>Normal</b> <b>ECO</b>	Selects the brightness mode of the projector lamp  <b>Normal:</b> sets maximum lamp brightness  <b>ECO:</b> reduces lamp brightness and fan noise, and saves power and lamp life
<b>Light Optimizer</b>	<b>On</b> <b>Off</b>	When <b>Power Consumption</b> is set to <b>Normal</b> , the lamp brightness is adjusted based on the projected image; you can set this option for each color mode
<b>Sleep Mode</b>	<b>On</b> <b>Off</b>	Automatically places the projector in standby mode after an interval of inactivity
<b>Sleep Mode Timer</b>	1 to 30 minutes	Sets the interval for Sleep Mode
<b>Lens Cover Timer</b>	<b>On</b> <b>Off</b>	Automatically turns off the projector after 30 minutes if the lens cover is closed
<b>A/V Mute Timer</b>	<b>On</b> <b>Off</b>	Automatically turns off the projector after 30 minutes if <b>A/V Mute</b> is enabled
<b>Standby Mode</b>	<b>Communication On</b> <b>Communication Off</b>	<b>Communication On</b> indicates that the projector can be monitored over a network when the projector is in standby mode
<b>ECO Display</b>	<b>On</b> <b>Off</b>	Displays a leaf icon in the bottom left corner of the projected screen to indicate the power-saving status when the lamp brightness changes

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

### Related references

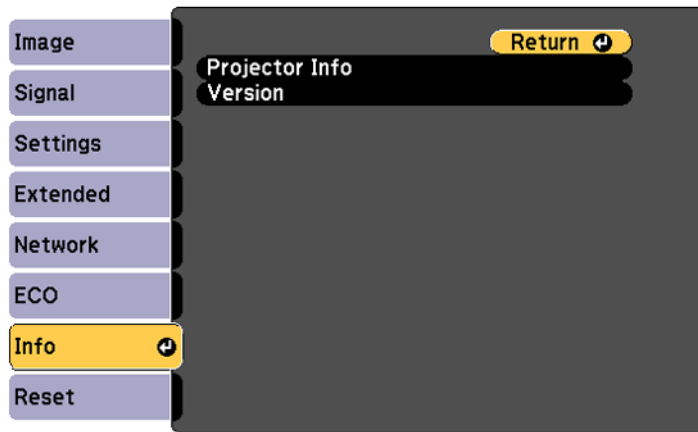
[Projector Setup Settings - Extended Menu](#)

### Related tasks

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

## Projector Information Display - Info Menu

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



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

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

Information item	Description
Lamp Hours	Displays the number of hours ( <b>H</b> ) the lamp has been used in <b>Normal</b> and <b>ECO</b> Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon

Information item	Description
<b>Source</b>	Displays the name of the port to which the current input source is connected
<b>Input Signal</b>	Displays the input signal setting of the current input source
<b>Resolution</b>	Displays the resolution of the current input source
<b>Video Signal</b>	Displays the video signal format of the current input source
<b>Refresh Rate</b>	Displays the refresh rate of the current input source
<b>Sync Info</b>	Displays information that may be needed by a service technician
<b>Status</b>	Displays information about projector problems that may be needed by a service technician
<b>Serial Number</b>	Displays the projector's serial number
<b>Event ID</b>	Displays the Event ID number corresponding to a specific projector problem; see the list of Event ID codes

[Event ID Code List](#)

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

**Related references**

[Optional Equipment and Replacement Parts](#)

[Projector Lamp Specifications](#)

## 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 EasyMP Network Projection program did not start. Turn the projector off and then on again.
0435	

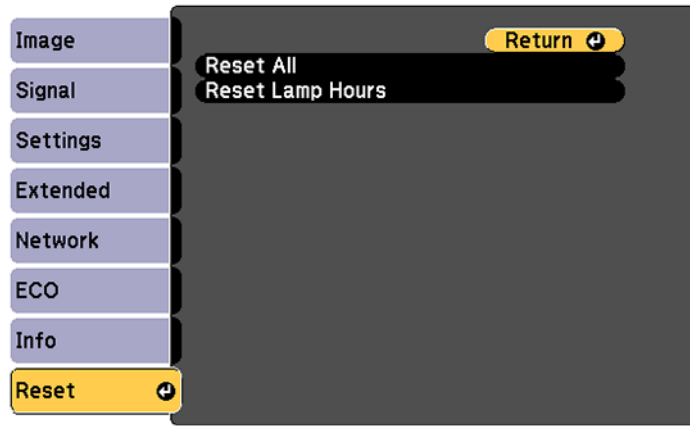
Event ID code	Cause and solution
0434	Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0481	
0482	
0485	
0433	Cannot display the transferred images. Restart the EasyMP Network Projection program.
0484	Communication with computer was disconnected. Restart the EasyMP Network Projection program.
0483	The EasyMP Network Projection program quit unexpectedly. Check the network communication status, then turn the projector off and then on again.
04FE	
0479	A projector system error has occurred. Turn the projector off and then on again.
04FF	
0891	Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID.
0892	The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.
0893	The TKIP/AES encryption type does not match. Make sure the wireless network security settings are correct.
0894	Communication with unauthorized access point was disconnected. Contact your network administrator.
0898	Failed to acquire DHCP address. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the <b>DHCP</b> setting in the Network menus.
0899	A communication error has occurred. Try restarting the EasyMP Network Projection program and restarting your projector. If that does not solve the problem, contact Epson for help.

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

## Projector Reset Options - Reset Menu

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

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



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

- Input Signal
- User's Logo
- Language
- Network menu items
- Lamp Hours
- Password

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

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# Maintaining and Transporting the Projector

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

[Projector Maintenance](#)

[Transporting the Projector](#)

## Projector Maintenance

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

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

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

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

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

[Cleaning the Lens](#)

[Cleaning the Projector Case](#)

[Air Filter and Vent Maintenance](#)

[Projector Lamp Maintenance](#)

[Replacing the Remote Control Batteries](#)

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

### Related references

[Optional Equipment and Replacement Parts](#)

[Where to Get Help](#)

## Cleaning the Lens

Clean the projector's lens periodically, or whenever you notice dust or smudges on the surface.

- To remove dust or smudges, gently wipe the lens with lens-cleaning paper.

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

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

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

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

## Cleaning the Projector Case

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

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

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

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

## Air Filter and Vent Maintenance

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

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

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

[Cleaning the Air Filter and Vents](#)

[Replacing the Air Filter](#)

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

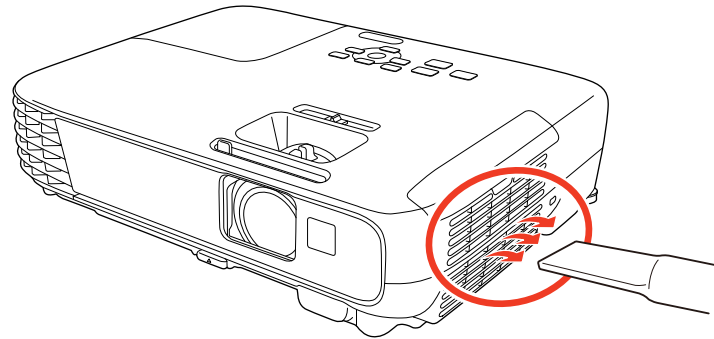
## Related references

[Projector Light Status](#)

### Cleaning the Air Filter and Vents

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

1. Turn off the projector and unplug the power cord.
2. Gently remove the dust using a small vacuum designed for computers or a very soft brush (such as a paintbrush).



**Note:** You can remove the air filter so you can clean both sides of it. Do not rinse the air filter in water, or use any detergent or solvent to clean it.

**Caution:** Do not use canned air. The gases may leave a flammable residue or push dust and debris into the projector's optics or other sensitive areas.

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

**Parent topic:** [Air Filter and Vent Maintenance](#)

## Related tasks

[Replacing the Air Filter](#)

### Replacing the Air Filter

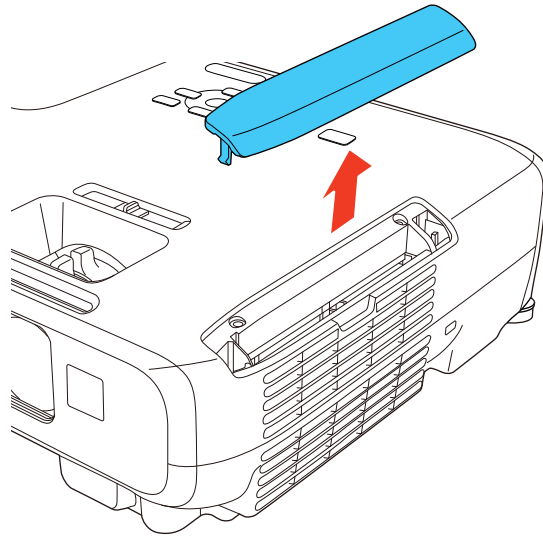
You need to replace the air filter in the following situations:

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

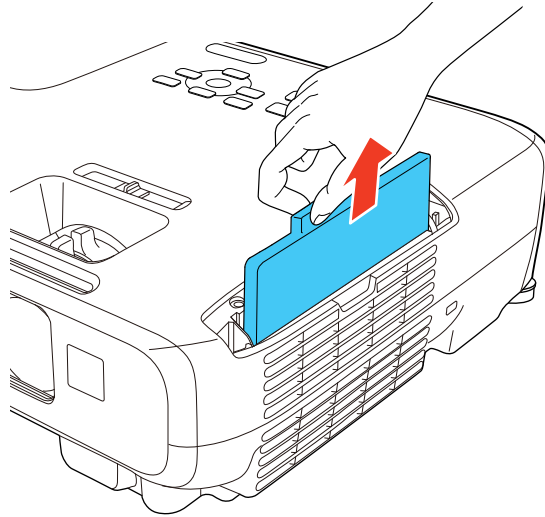


You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

1. Turn off the projector and unplug the power cord.
2. Carefully open the air filter cover.

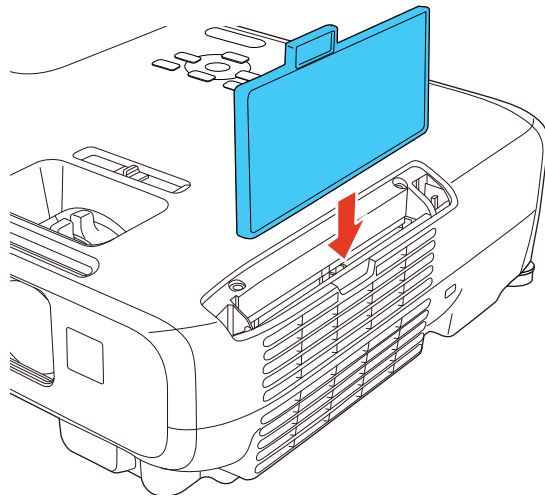


3. Pull the air filter out of the projector.



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

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



5. Close the air filter cover.

**Parent topic:** [Air Filter and Vent Maintenance](#)

**Related references**

[Optional Equipment and Replacement Parts](#)

## Projector Lamp Maintenance

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

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

- The projected image gets darker or starts to deteriorate
- A message appears when you turn on the projector telling you to replace the lamp
- The projector's lamp light is flashing orange and its power light is flashing blue

[Replacing the Lamp](#)

[Resetting the Lamp Timer](#)

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

**Related references**

[Projector Information Display - Info Menu](#)

[Projector Lamp Specifications](#)

[Projector Light Status](#)

### Replacing the Lamp

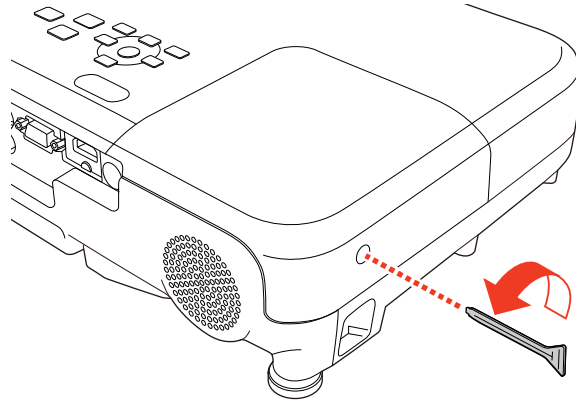
Before you replace the lamp, let the projector cool down for at least one hour so the lamp will not be hot.

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

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

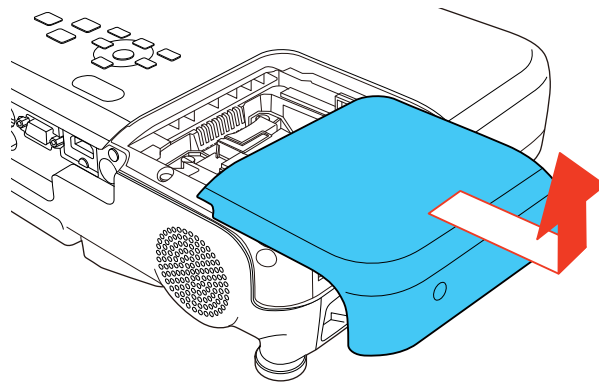
1. Turn off the projector and unplug the power cord.
2. Allow the projector lamp to cool down for at least one hour.

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

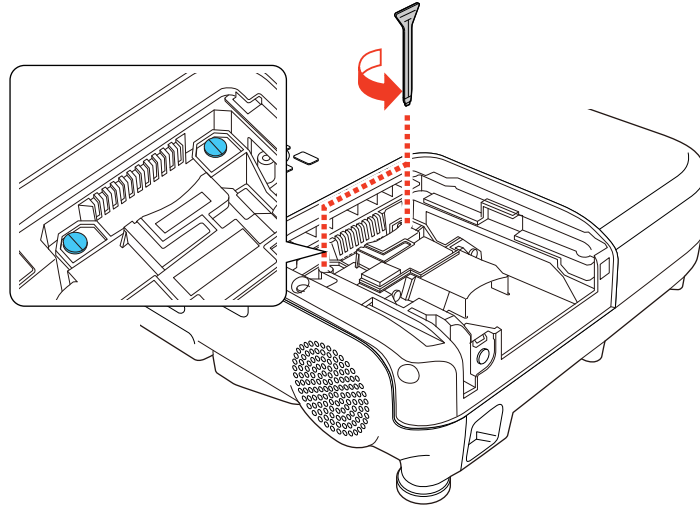


**Warning:** If the lamp is broken, glass fragments may be loose inside the lamp chamber. Be careful removing any broken glass to avoid injury. If the projector is installed on the ceiling, stand to the side of the lamp cover and not underneath it; pieces of glass could fall into your eyes or mouth when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

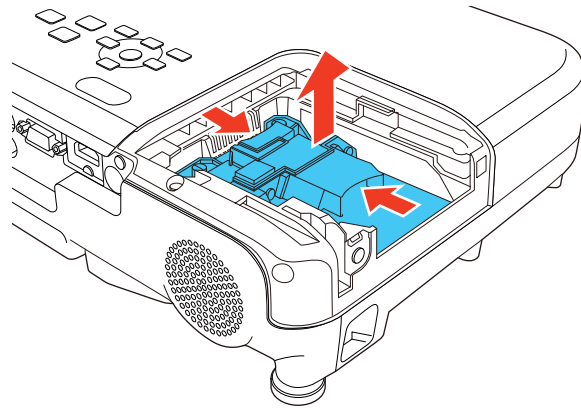
4. Slide the lamp cover out and lift it off.



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

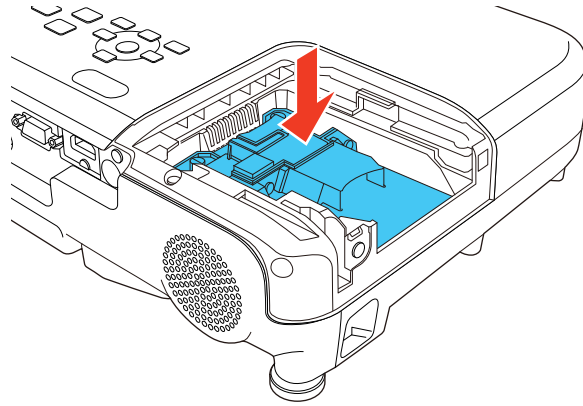


6. Grasp the raised section of the lamp and gently pull the lamp out of the projector.



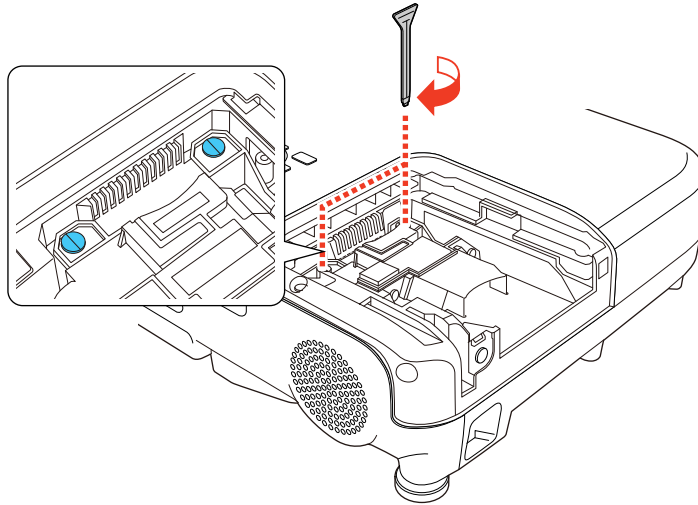
**Note:** (Hg) The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

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



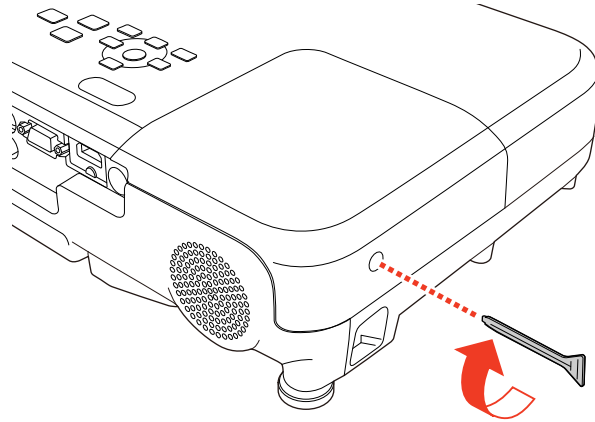
**Caution:** Do not touch any glass on the lamp assembly to avoid premature lamp failure.

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



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

9. Replace the lamp cover and tighten the screw to secure it.



**Note:** Be sure the lamp cover is securely installed or the lamp will not come on.

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

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

**Related tasks**

[Resetting the Lamp Timer](#)

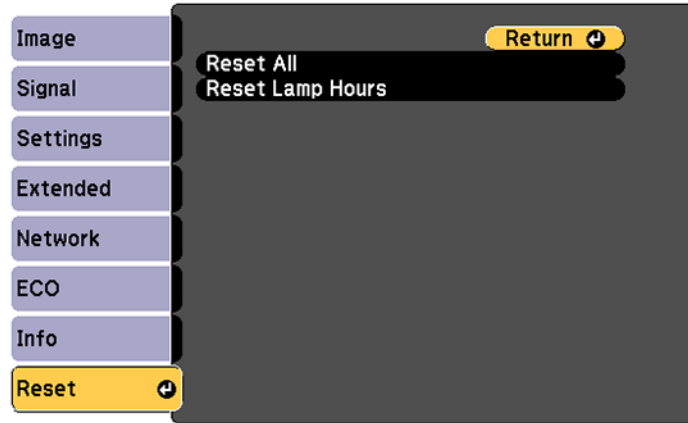
**Resetting the Lamp Timer**

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

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

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

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



4. Select **Reset Lamp Hours** and press **Enter**.  
You see a prompt asking if you want to reset the lamp hours.
5. Select **Yes** and press **Enter**.
6. Press **Menu** or **Esc** to exit the menus.

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

#### **Related tasks**

[Replacing the Lamp](#)

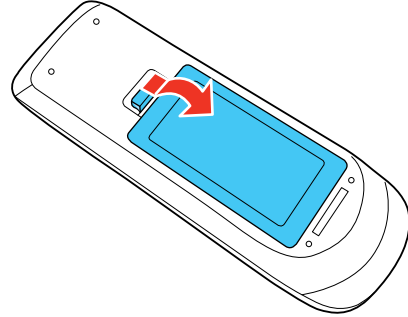
## **Replacing the Remote Control Batteries**

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

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



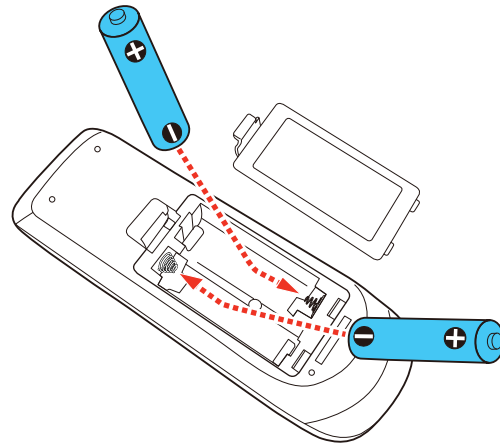
1. Remove the battery cover as shown.



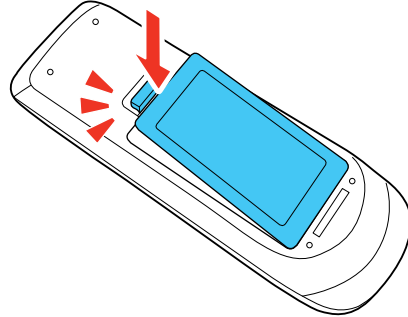
2. Remove the old batteries.

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

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



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



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

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

**Related references**

[Remote Control Operation](#)

## Transporting the Projector

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

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

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

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

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# Solving Problems

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

[Projection Problem Tips](#)

[Projector Light Status](#)

[Using the Projector Help Displays](#)

[Solving Image or Sound Problems](#)

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

[Solving Network Problems](#)

[Where to Get Help](#)

## Projection Problem Tips

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

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

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

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

### Related references

[Projector Light Status](#)

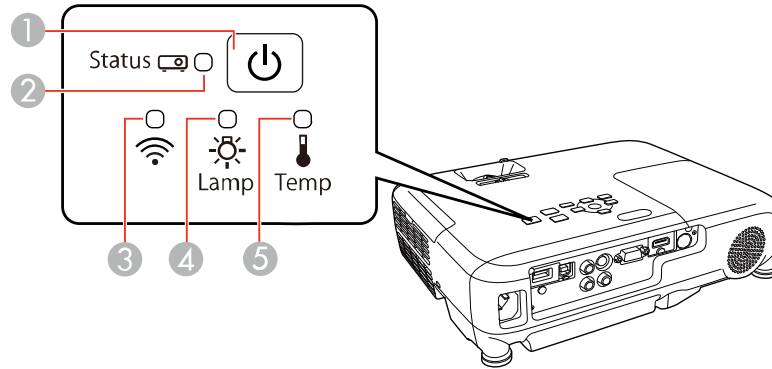
[Where to Get Help](#)

### Related tasks

[Using the Projector Help Displays](#)

## Projector Light Status

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



- 1 Power light
- 2 Status light
- 3 Wireless LAN light (EX9200 Pro)
- 4 Lamp light
- 5 Temp (temperature) light

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

Power light	Status light	Lamp light	Temp light	Status and solution
Flashing blue	Light status varies	Light status varies	Flashing orange	<p>Projector is too hot.</p> <ul style="list-style-type: none"> <li>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.</li> <li>• Clean or replace the air filter.</li> <li>• Make sure the environmental temperature is not too hot.</li> </ul>
Off	Flashing blue	Off	Orange	<p>Projector has overheated and turned off. Leave it turned off to cool down. Once the Temp and Status lights turn off and the power light turns blue (after about five minutes), try the suggestions below:</p> <ul style="list-style-type: none"> <li>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.</li> <li>• Clean or replace the air filter.</li> <li>• If operating the projector at high altitude, turn on <b>High Altitude Mode</b>.</li> <li>• If the problem persists, unplug the projector and contact Epson for help.</li> </ul>

Power light	Status light	Lamp light	Temp light	Status and solution
Off	Flashing blue	Orange	Off	Lamp has a problem. <ul style="list-style-type: none"> <li>• Check to see if the lamp is burned out, broken, or installed incorrectly. Reseat or replace the lamp as necessary.</li> <li>• Clean or replace the air filter.</li> <li>• If operating the projector at high altitude, turn on <b>High Altitude Mode</b>.</li> <li>• If the problem persists, unplug the projector and contact Epson for help.</li> </ul>
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.
Light status varies	Light status varies	Flashing orange rapidly	Flashing orange rapidly	When transferring settings between projectors, the settings file may be corrupt or the USB flash drive or USB cable may not be properly connected. Remove the flash drive or cable, unplug the power cord, and try again.

Power light	Status light	Lamp light	Temp light	Status and solution
Flashing blue rapidly	Flashing blue rapidly	Flashing orange rapidly	Flashing orange rapidly	When transferring settings between projectors, writing may have failed and a projector error may have occurred. Turn the projector off, unplug it, and contact Epson for help.

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

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

**Related references**

[Projector Setup Settings - Extended Menu](#)

[Where to Get Help](#)

[Projector Environmental Specifications](#)

**Related tasks**

[Cleaning the Air Filter and Vents](#)

[Replacing the Air Filter](#)

[Replacing the Lamp](#)

## 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. Use the arrow buttons to select **Help**.
4. Press **Enter**.  
You see the Help menu.
5. Use 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**.

**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 Image is Incorrect Using the USB Display Function](#)

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

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

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

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

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

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

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

[Solutions to Sound Problems](#)

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

### Solutions When No Image Appears

If no image appears, try the following solutions:

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



- If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

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

**Related references**

[Image Quality Settings - Image Menu](#)

[Input Signal Settings - Signal Menu](#)

[Projector Feature Settings - Settings Menu](#)

[Projector Setup Settings - Extended Menu](#)

[Projector Setup Settings - ECO Menu](#)

**Related tasks**

[Opening the Lens Cover](#)

[Unlocking the Projector's Buttons](#)

## **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.
- Make sure the **USB Type B** setting in the Extended menu is set to **USB Display**, if available.
- With OS X, 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 (feature not available with Windows 2000).
- Turn off the **Transfer layered window** setting in the Epson USB Display Settings program on your computer.

### Related references

[Projector Setup Settings - Extended Menu](#)

### Related tasks

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

## Solutions When "No Signal" Message Appears

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

- Press the **Source Search** button and wait a few seconds for an image to appear.
- Turn on the connected computer or video source, and press its play button to begin your presentation, if necessary.
- Check the connection from the projector to your video sources.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
- If necessary, turn the projector and the connected computer or video source off and then on again.

[Displaying From a PC Laptop](#)

[Displaying From a Mac Laptop](#)

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

### Related concepts

[Projector Connections](#)

## Displaying From a PC Laptop

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

1. Hold down the laptop's **Fn** key and press the key labelled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear.
2. To display on both the laptop's monitor and the projector, try pressing the same keys again.
3. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)
4. If necessary, check your video card settings and set the multiple display option to **Mirror** or **Duplicate**.

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

## Displaying From a Mac Laptop

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

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

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

## Solutions When "Not Supported" Message Appears

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

- Make sure the 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.

**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:

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

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

### **Related references**

[Input Signal Settings - Signal Menu](#)  
[Supported Video Display Formats](#)

## **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.

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

### **Related references**

[Projector Feature Settings - Settings Menu](#)

### **Related tasks**

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

## **Solutions When the Image Contains Noise or Static**

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

- Check the cables connecting your computer or video source to the projector. They should be:
  - Separated from the power cord to prevent interference
  - Securely connected at both ends
  - Not connected to an extension cable
  - No longer than 10 feet (3 m) for VGA/computer cables or 24 feet (7.3 m) for HDMI cables
- Check the settings on the projector's Signal menu to make sure they match the video source. If available for your video source, adjust the **Progressive** and **Noise Reduction** settings.
- 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 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.
- 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.

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

#### **Related references**

[Image Quality Settings - Image Menu](#)

[Input Signal Settings - Signal Menu](#)

[Supported Video Display Formats](#)

## **Solutions When the Image is Fuzzy or Blurry**

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

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

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

- Position the projector close enough to the screen.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Turn on automatic keystone adjustment in the projector's menus.
- Adjust the **Sharpness** setting to improve image quality.
- If 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.

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

### Related references

[Projection Distance](#)

[Image Quality Settings - Image Menu](#)

[Input Signal Settings - Signal Menu](#)

[Projector Feature Settings - Settings Menu](#)

[General Projector Specifications](#)

### Related tasks

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

[Cleaning the Lens](#)

## Solutions When the Image Brightness or Colors are Incorrect

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

- Press the **Color Mode** button on the remote control to try different color modes for the image and environment.
- Check your video source settings.
- Adjust the available settings on the Image menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, **Color Adjustment**, 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.
- If you are using the **ECO** Power Consumption setting, try selecting **Normal** in the projector's menus.

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

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

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

### Related concepts

[Projector Lamp Maintenance](#)

### Related references

[Projection Distance](#)

[Available Color Modes](#)  
[Image Quality Settings - Image Menu](#)  
[Input Signal Settings - Signal Menu](#)  
[Projector Setup Settings - ECO Menu](#)

## Solutions to Sound Problems

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

- Adjust the projector's volume settings.
- Press the **A/V Mute** button on the remote control to resume video and audio if they were temporarily stopped.
- Press the **Source Search** button to switch to the correct input source, if necessary.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Check the audio cable connections between the projector and your video source.
- If you do not hear sound from an HDMI source, set the connected device to PCM output.
- Make sure any connected audio cables are labeled "No Resistance".
- If you are using 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 you turn the projector on immediately after turning it off, the cooling fans may run at high speed momentarily and cause an unexpected noise. This is normal.

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

### Related concepts

[Projector Connections](#)

### Related tasks

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

## Solving Projector or Remote Control Operation Problems

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

[Solutions to Projector Power or Shut-Off Problems](#)

[Solutions to Problems with the Remote Control](#)

[Solutions to Password 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.
- 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 projector's lamp shuts off, the Status light is flashing blue, and the Temp light is orange, the projector has overheated and shut off. Check the solutions for this light status.
- If the power button on the remote control does not turn on the projector, check its batteries and make sure the **Remote Receiver** setting is turned on in the projector's menu, if available.
- The power cord may be defective. Try another power cord. If that doesn't work, disconnect the cord and contact Epson.

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

### **Related references**

[Projector Feature Settings - Settings Menu](#)

[Projector Light Status](#)

[Where to Get Help](#)

### **Related tasks**

[Unlocking the Projector's Buttons](#)

[Replacing the Remote Control Batteries](#)

## **Solutions to Problems with the Remote Control**

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

- Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.
- Make sure you are operating the remote control within the reception angle and range of the projector.



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

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

**Related references**

[Remote Control Operation](#)

[Optional Equipment and Replacement Parts](#)

**Related tasks**

[Replacing the Remote Control Batteries](#)

## Solutions to Password Problems

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

- You may have turned on password protection without first setting a password. Try entering **0000** using the remote control.
- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson. 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 Web Control password and forgot the user ID or password, try entering the following:
  - User ID: **EPSONWEB**
  - Default password: **admin**
- If you lose the remote control, you cannot enter a password. Order a new one from Epson.

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

**Related references**

[Optional Equipment and Replacement Parts](#)

[Where to Get Help](#)

**Related tasks**

[Controlling a Networked Projector Using a Web Browser](#)

## Solving Network Problems

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

[Solutions When You Cannot Access the Projector Through the Web](#)

[Solutions When Network Alert E-Mails are Not Received](#)

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

## Solutions When You Cannot Access the Projector Through the Web

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

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

**Note:** The user ID and password are case sensitive.

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

**Related tasks**

[Controlling a Networked Projector Using a Web Browser](#)

## Solutions When Network Alert E-Mails are Not Received

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

- Make sure the projector is turned on and connected to the network correctly. (If an error shut down the projector, it cannot send an e-mail.)
- Make sure you set up the projector e-mail alert settings correctly on the projector's network Mail menu or in the network software.
- Set the **Standby Mode** setting to **Communication On** so the network software can monitor the projector in standby mode.

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

**Related references**

[Projector Setup Settings - ECO Menu](#)

**Related tasks**

[Setting Up Projector Network E-Mail Alerts](#)

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# Technical Specifications

These sections list the technical specifications of your projector.

[General Projector Specifications](#)

[Projector Lamp Specifications](#)

[Remote Control Specifications](#)

[Projector Dimension Specifications](#)

[Projector Electrical Specifications](#)

[Projector Environmental Specifications](#)

[Projector Safety and Approvals Specifications](#)

[Supported Video Display Formats](#)

[USB Display System Requirements](#)

## General Projector Specifications

**Type of display**

Poly-silicon TFT active matrix

**Resolution**

**EX3240/VS240:**

800 × 600 pixels (SVGA)

**EX5240/EX5250 Pro/VS340:**

1024 × 768 pixels (XGA)

**EX7240 Pro/VS345:**

1280 × 800 pixels (WXGA)

**EX9200 Pro:**

1920 × 1200 pixels (WUXGA)

**Lens**

**EX5240/EX7240 Pro/VS340/VS345:**

F=1.58 to 1.72

Focal length: 16.9 to 20.28 mm

**EX3240/VS240:**

F=1.44

Focal length: 16.7 mm

**EX9200 Pro:**

F=1.50 to 1.71

Focal length: 20.42 to 24.50 mm

**EX5250 Pro:**

F=1.6 to 1.74

Focal length: 18.4 to 22.08 mm

**Color reproduction**

Up to 1 billion colors

**Brightness**

**VS340:**

Normal Power Consumption mode:

White light output 2800 lumens (ISO 21118 standard)

Color light output 2800 lumens

ECO Power Consumption mode:

White light output 1960 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.

**VS240/VS345:**

Normal Power Consumption mode:

White light output 3000 lumens (ISO 21118 standard)

Color light output 3000 lumens

ECO Power Consumption mode:

White light output 2100 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.

**EX3240/EX5240/EX7240 Pro/EX9200 Pro:**

Normal Power Consumption mode:

White light output 3200 lumens (ISO 21118 standard)

Color light output 3200 lumens

ECO Power Consumption mode:

White light output 2240 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.

**EX5250 Pro:**

Normal Power Consumption mode:

White light output 3600 lumens (ISO 21118 standard)

Color light output 3600 lumens

ECO Power Consumption mode:

White light output 2520 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**

13000:1 with Dynamic color mode, Normal Power Consumption mode, Wide Zoom mode, and Light Optimizer turned on

**Image size**

(in native aspect ratio)

**EX5240/EX5250 Pro/EX9200 Pro/VS340:**

30 inches (0.76 m) to 300 inches (7.62 m)

**EX7240 Pro/VS345:**

33 inches (0.84 m) to 320 inches (8.13 m)

**EX3240/VS240:**

23 inches (0.58 m) to 350 inches (8.9 m)

**Projection distance**

(in native aspect ratio)

**EX5240/EX7240 Pro/VS340/VS345:**

35.4 inches (0.9 m) to 425.2 inches (10.8 m)

**EX3240/VS240:**

34.6 inches (0.88 m) to 411.0 inches (10.44 m)

**EX9200 Pro:**

34.3 inches (0.87 m) to 432.3 inches (10.98 m)

**EX5250 Pro:**

33.1 inches (0.84 m) to 410.2 inches (10.42 m)

**Projection methods**

Front, rear, ceiling-mounted

<b>Optical aspect ratio</b> (width-to-height)	<b>EX3240/EX5240/EX5250 Pro/VS240/VS340:</b> 4:3 <b>EX7240 Pro/EX9200 Pro/VS345:</b> 16:10
<b>Focus adjustment</b>	Manual
<b>Zoom adjustment</b>	<b>EX3240/VS240:</b> No optical zoom <b>EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345:</b> Manual optical zoom
<b>Zoom ratio</b> (Tele-to-Wide)	<b>EX3240/VS240:</b> 1.0 to 1.35 (digital) <b>EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345:</b> 1.0 to 1.2
<b>Internal sound system</b>	1 W monaural
<b>Noise level</b>	37 dB (Normal Power Consumption mode) 29 dB (ECO Power Consumption mode)
<b>Keystone correction angle</b>	12° (Auto Keystone)
<b>USB Type B port compatibility</b>	USB 1.1 and 2.0 compliant for USB display, external mouse or keyboard control, or firmware update
<b>USB Type A port compatibility</b>	<b>EX3240/EX5240/EX5250 Pro/EX9200 Pro/VS240/VS340/VS345:</b> One USB 1.1 and 2.0 compliant port for USB device or Epson document camera input, wireless LAN, or firmware update <b>EX7240 Pro:</b> One USB 1.1 and 2.0 compliant port for USB device or Epson document camera input, or firmware update

Parent topic: [Technical Specifications](#)



## Projector Lamp Specifications

Type	UHE (Ultra High Efficiency)
Power consumption	200 W
Lamp life	Normal Power Consumption mode: Up to about 5000 hours ECO Power Consumption mode: Up to about 10000 hours

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

Parent topic: [Technical Specifications](#)

## Remote Control Specifications

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

Parent topic: [Technical Specifications](#)

## Projector Dimension Specifications

Height (excluding feet)	3.0 inches (77 mm)
Width	11.7 inches (297 mm)
Depth	<b>EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345:</b> 9.2 inches (234 mm) <b>EX9200 Pro:</b> 9.6 inches (244 mm)

<b>Weight</b>	<b>EX3240/EX5240/EX5250 Pro/EX7240 Pro/VS240/VS340/VS345:</b> 5.3 lb (2.4 kg)
	<b>EX9200 Pro:</b> 5.7 lb (2.6 kg)

Parent topic: [Technical Specifications](#)

## Projector Electrical Specifications

<b>Rated frequency</b>	50/60 Hz
<b>Power supply</b>	100 to 240 VAC $\pm$ 10% 2.9 to 1.3 A
<b>Power consumption</b> (100 to 120 V)	Operating: Normal Power Consumption mode: 291 W ECO Power Consumption mode: 214 W Networked standby: 2.3 W Energy saving: 0.2 W
<b>Power consumption</b> (220 to 240 V)	Operating: Normal Power Consumption mode: 277 W ECO Power Consumption mode: 207 W Networked standby: 2.4 W Energy saving: 0.26 W

Parent topic: [Technical Specifications](#)

## Projector Environmental Specifications

<b>Temperature</b>	Operating: Up to 7500 ft (2286 m): 41 to 95 °F (5 to 35 °C) 7500 ft (2286 m) to 9843 ft (3000 m): 41 to 86 °F (5 to 30 °C) Storage: 14 to 140 °F (–10 to 60 °C)
<b>Humidity</b> (relative, non-condensing)	Operating: 20 to 80% Storage: 10 to 90%
<b>Operating altitude</b>	Up to 4921 feet (1500 m) 4921 feet (1500 m) to 9843 feet (3000 m) with High Altitude Mode enabled

Parent topic: [Technical Specifications](#)

## Projector Safety and Approvals Specifications

<b>United States</b>	FCC Part 15 Class B (DoC) UL60950-1 2nd edition (cTUVus Mark)
<b>Canada</b>	ICES-003 Class B CSA C22.2 No. 60950-1

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.

**EX3240/VS240**

Display format	Refresh rate (in Hz)	Resolution (in pixels)
<b>Computer signals (analog RGB)</b>		
VGA	60/72/75/85	640 × 480
SVGA	60/72/75/85	800 × 600
XGA	60/70/75/85	1024 × 768
WXGA	60	1280 × 768
	60	1366 × 768
	60/75	1280 × 800
WXGA+	60	1440 × 900
SXGA	70/75	1152 × 864
	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
<b>Composite video</b>		
TV (NTSC)	60	720 × 480
TV (SECAM)	50	720 × 576
TV (PAL)	50/60	720 × 576
<b>Component video</b>		
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
SDTV (480p)	60	720 × 480
SDTV (576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
<b>HDMI input signals</b>		
VGA	60	640 × 480
SVGA	60	800 × 600

Display format	Refresh rate (in Hz)	Resolution (in pixels)
XGA	60	1024 × 768
WXGA	60	1280 × 800
	60	1366 × 768
WXGA+	60	1440 × 900
SXGA	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30/50/60	1920 × 1080

**EX5240/EX5250 Pro/EX7240 Pro/EX9200 Pro/VS340/VS345**

Display format	Refresh rate (in Hz)	Resolution (in pixels)
<b>Computer signals (analog RGB)</b>		
VGA	60/72/75/85	640 × 480
SVGA	60/72/75/85	800 × 600
XGA	60/70/75/85	1024 × 768
WXGA	60	1280 × 768
	60	1366 × 768
	60/75/85	1280 × 800
WXGA+	60/75/85	1440 × 900
WXGA++	60	1600 × 900

Display format	Refresh rate (in Hz)	Resolution (in pixels)
SXGA	70/75/85	1152 × 864
	60/75/85	1280 × 1024
	60/75/85	1280 × 960
SXGA+	60/75	1400 × 1050
WSXGA <sup>1</sup>	60	1680 × 1050
UXGA	60	1600 × 1200
WUXGA <sup>2</sup>	60	1920 × 1200
<b>Composite video</b>		
TV (NTSC)	60	720 × 480
TV (SECAM)	50	720 × 576
TV (PAL)	50/60	720 × 576
<b>Component video</b>		
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
SDTV (480p)	60	720 × 480
SDTV (576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
<b>HDMI input signals</b>		
VGA	60	640 × 480
SVGA	60	800 × 600
XGA	60	1024 × 768
WXGA	60	1280 × 800
	60	1366 × 768
WXGA+	60	1440 × 900
WXGA++	60	1600 × 900

Display format	Refresh rate (in Hz)	Resolution (in pixels)
SXGA	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
UXGA	60	1600 × 1200
WSXGA <sup>3</sup>	60	1680 × 1050
WUXGA <sup>2</sup>	60	1920 × 1200
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30/50/60	1920 × 1080
<b>MHL input signals (EX7240 Pro/EX9200 Pro)</b>		
VGA	60	640 × 480
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30	1920 × 1080

<sup>1</sup> **Wide** resolution only for EX7240 Pro/EX9200 Pro/VS345

<sup>2</sup> EX9200 Pro only

<sup>3</sup> EX7240 Pro/EX9200 Pro only

Parent topic: [Technical Specifications](#)

## USB Display System Requirements

Your computer system must meet the system requirements here to use the projector's USB Display software.

<b>Requirement</b>	<b>Windows</b>	<b>Mac</b>
Operating system	Windows XP Professional, Home Edition, and Tablet PC Edition (32-bit); except for Service Pack 1	OS X 10.5.8 (32-bit); OS X 10.6.x, 10.7.x, 10.8.x, 10.9.x, or 10.10.x (32- and 64-bit)
	Windows Vista Ultimate, Enterprise, Business, Home Premium, and Home Basic (32-bit)	
	Windows 7 Ultimate, Enterprise, Professional, and Home Premium (32- and 64-bit); Home Basic and Starter (32-bit)	
	Windows 8.x, Windows 8 Enterprise and Pro (32- and 64-bit)	
	Windows 10 Home, Pro, and Enterprise (32- and 64-bit)	
USB version	USB 1.1 and above (USB 2.0 recommended)	
CPU	Mobile Pentium III 1.2 GHz or faster (1.6 GHz or faster recommended)	Power PC G4 1 GHz or faster (Core Duo 1.83 GHz or faster recommended)
Memory	256MB or more (512MB or more recommended)	512MB or more
Hard disk space	20MB or more	
Display	Resolution between 640 × 480 and 1920 × 1200, 16-bit color or greater	Resolution between 640 × 480 and 1920 × 1200, 16-bit color or greater

**Parent topic:** [Technical Specifications](#)



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## Notices

Check these sections for important notices about your projector.

[Recycling](#)

[Important Safety Information](#)

[Important Safety Instructions](#)

[List of Safety Symbols \(corresponding to IEC60950-1 A2\)](#)

[FCC Compliance Statement](#)

[Open Source Software License](#)

[Trademarks](#)

[Copyright Notice](#)

## Recycling

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

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

## Important Safety Information

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

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

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

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

## Important Safety Instructions

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

- Do not look into the lens when the projector is on. The bright light can damage your eyes. Avoid standing in front of the projector so the bright light does not shine into your eyes.
- Do not place the projector on an unstable cart, stand, or table.
- Do not operate the projector on its side, or while tilted to one side. Do not tilt the projector more than 30° forward or back.
- If the projector is mounted on a ceiling or wall, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- When installing or adjusting a ceiling or wall mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the projector case to crack and the projector to fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector.
- Do not use the projector near water, sources of heat, high-voltage electrical wires, or sources of magnetic fields.
- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into a dusty outlet. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Do not overload wall outlets, extension cords, or power strips. Failure to comply with these precautions could result in fire or electric shock.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the projector from the wall outlet and allow to cool before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners, any sprays containing flammable gas, or solvents such as alcohol, paint thinner, or benzene.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers. Do not cover the projector with a blanket, curtain, or tablecloth. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the projector.
- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.

- Never allow objects of any kind to enter any openings in the projector. Do not leave objects, especially flammable objects, near the projector. Never spill liquid of any kind into the projector.
- If you are using two or more projectors side-by-side, leave at least 2 feet (60 cm) of space between the projectors to allow for proper ventilation.
- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector. Do not use canned air, or the gases may leave a residue.
- Do not store the projector outdoors for an extended length of time.
- Except as specifically explained in this manual, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Never open any covers on the projector except as specifically explained in this manual. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: if it does not operate normally when you follow the operating instructions, or exhibits a distinct change in performance; if smoke, strange odors, or strange noises come from the projector; if the power cord or plug is damaged or frayed; if liquid or foreign objects get inside the projector, or if it has been exposed to rain or water; if it has been dropped or the housing has been damaged.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Unplug the projector when it will not be used for extended periods.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Do not use or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.
- Do not use the projector where flammable or explosive gases may be present.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range of 41 to 95 °F (5 to 35 °C) at an altitude of 7500 feet (2286 m) or less, or 41 to 86 °F (5 to 30 °C) at a higher altitude. Doing so may cause an unstable display and could lead to projector damage. Do not use or store the projector where it may be exposed to sudden changes in temperature.

- Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress. Do not bring your face close to the projector while it is in use.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- Never try to remove the lamp immediately after use because it will be extremely hot. Before removing the lamp, turn off the power and wait at least an hour to allow the lamp to cool completely.
- Do not disassemble the lamp or subject it to impacts.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not block the lens during projection using a book or any object other than the lens cover. This could damage the projector or cause a fire.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.
- If the lamp breaks, ventilate the room to prevent gases contained in the lamp from being inhaled or coming in contact with your eyes or mouth. If you do inhale gases or gases come in contact with your eyes or mouth, seek medical advice immediately.
- If the projector is mounted overhead and the lamp breaks, be careful to prevent pieces of glass from falling into your eyes or mouth when you open the lamp cover. If pieces of glass do get into your eyes or mouth, seek medical advice immediately.
- Always lower the volume before turning off the projector. Turning on the projector with the volume too high can damage your ears.

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

[Restriction of Use](#)

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

## Restriction of Use






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








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


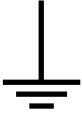


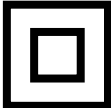


Parent topic: [Important Safety Instructions](#)





## List of Safety Symbols (corresponding to IEC60950-1 A2)

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

No.	Symbol	Approved Standards	Description
1		IEC60417 No.5007	"ON" (power) To indicate connection to the mains.
2		IEC60417 No.5008	"OFF" (power) To indicate disconnection from the mains.
3		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.
4		ISO7000 No.0434B, IEC3864-B3.1	Caution To identify general caution when using the product.
5		IEC60417 No.5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.

No.	Symbol	Approved Standards	Description
6		IEC60417 No.6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
7		IEC60417 No.5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
8		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.
9		—	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.
10		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.
11		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.
12		—	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.

No.	Symbol	Approved Standards	Description
13		IEC60417 No.5019	<p>Protective earth</p> <p>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.</p>
14		IEC60417 No.5017	<p>Earth</p> <p>To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required.</p>
15		IEC60417 No.5032	<p>Alternating current</p> <p>To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.</p>
16		IEC60417 No.5031	<p>Direct current</p> <p>To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.</p>
17		IEC60417 No.5172	<p>Class II equipment</p> <p>To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.</p>
18		ISO 3864	<p>General prohibition</p> <p>To identify actions or operations that are prohibited.</p>
19		ISO 3864	<p>Contact prohibition</p> <p>To indicate injury that could occur due to touching a specific part of the equipment.</p>

No.	Symbol	Approved Standards	Description
20		—	Never look into the optical lens while the projector is on.
21		—	To indicate that the marked item don't place anything on projector.
22		ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.
23		ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.

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.



## **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](#)

## **Open Source Software License**

### **GNU GPL**

This projector product includes the open source software programs which apply the GNU General Public License Version 2 or later version ("GPL Programs").

We provide the source code of the GPL Programs until five (5) years after the discontinuation of same model of this projector product.

If you desire to receive the source code of the GPL Programs, contact Epson.

These GPL Programs are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

The list of GPL Programs is as follows and the names of author are described in the source code of the GPL Programs

The list of GPL Programs

- busybox-1.21.0
- iptables-1.4.20
- linux-3.4.49
- patches
- udhcp 0.9.8
- wireless\_tools 29
- dbus-1.6.18