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PROJECTOR OWNER'S MANUAL

Epson
Powerlite W49

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PowerLite E20/X49/W49/118/119W/982W/992F/1288 User's Guide

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PowerLite E20/X49/W49/118/119W/982W/992F/1288 User's Guide

Welcome to the PowerLite E20/X49/W49/118/119W/982W/992F/1288 *User's Guide*.

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

Note: The PowerLite 992F is shown in most illustrations in this manual, unless noted otherwise.

Note: Availability of products in this guide varies by country.

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

- PowerLite E20: Up to 3400 lumens of color brightness (color light output) and 3400 lumens of white brightness (white light output)
- PowerLite X49: Up to 3600 lumens of color brightness (color light output) and 3600 lumens of white brightness (white light output)
- PowerLite W49/118: Up to 3800 lumens of color brightness (color light output) and 3800 lumens of white brightness (white light output)
- PowerLite 119W/992F/1288: Up to 4000 lumens of color brightness (color light output) and 4000 lumens of white brightness (white light output)
- PowerLite 982W: Up to 4200 lumens of color brightness (color light output) and 4200 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.

- PowerLite E20/X49/118: Native resolution of 1024 × 768 pixels (XGA)
- PowerLite W49/119W/982W: Native resolution of 1280 × 800 pixels (WXGA)
- PowerLite 992F/1288: Native resolution of 1920 × 1080 pixels (Full HD)

Flexible connectivity

- Plug-and-play USB projection for instant setup

- Wireless network support for projection, monitoring, and control via remote (requires the optional wireless LAN module for PowerLite X49/W49/118/119W/982W; not available on PowerLite E20)
- Projection from iOS devices, Android devices, and Chromebooks with the free Epson iProjection app; visit epson.com/iprojection (U.S.), epson.ca/iprojection (Canada), or latin.epson.com/iprojection (Latin America) for more information (requires the optional wireless LAN module for PowerLite X49/W49/118/119W/982W; not available on PowerLite E20)
- PC Free photo slide shows via connected USB memory devices or Epson document camera (not available on PowerLite E20)
- Two HDMI ports for multiple high-definition AV devices
- Miracast screen mirroring for laptops and mobile devices (PowerLite 992F/1288)

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 (not available on PowerLite E20) and innovative horizontal keystone correction slider for flexible projector placement
- Epson's Instant Off and Direct Power On features for quick setup and shut down
- Built-in closed captioning decoder (composite NTSC input signal only)

Note: The PowerLite 992F is shown in most illustrations in this manual, unless noted otherwise.

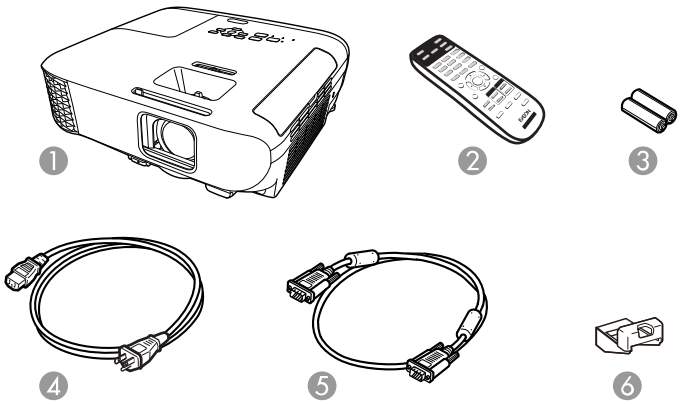
Product Box Contents
Additional Components
Additional Projector Software and Manuals
Optional Equipment and Replacement Parts
Warranty and Registration Information

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 boxes 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 Wireless LAN module cover (PowerLite X49/W49/118/119W/982W)

Note: Your projector may include an HDMI cable instead of a VGA computer cable. The wireless LAN module cover may be provided with the optional wireless LAN module instead of the projector.

Parent topic: Projector Features

Related concepts
Projector Connections

Additional Components

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

Note: To connect a Mac that does not include a compatible video output port, you need to obtain an adapter that allows you to connect to an input port on the projector. Contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter that allows you

to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer for compatible adapter options.

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

Signal or connection type	Additional component necessary
Component video	D-sub, 15-pin, component-to-VGA video cable or adapter Available for purchase from Epson or an authorized Epson reseller.
HDMI	Compatible HDMI cable Available for purchase from Epson or an authorized Epson reseller. **Note:** Older Mac computers (2009 and earlier) may not support HDMI audio.
USB	Compatible USB cable
Audio from certain ports	Commercially available audio cable compatible with your device

Parent topic: Projector Features

Additional Projector Software and Manuals

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

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

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

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

Parent topic: Projector Features

Optional Equipment and Replacement Parts

You can purchase screens, other optional accessories, and replacement parts from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766) in the U.S. or 800-807-7766 in

Canada, or visit latin.epson.com (Caribbean). Or you can purchase online at epsonstore.com (U.S. sales) or epsonstore.ca (Canadian sales).

Note: Availability of accessories varies by country.

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

Option or part	Part number
Genuine Epson replacement lamp (ELPLP97)	V13H010L97
Replacement air filter (ELPAF32) for PowerLite E20/X49/W49/118/119W	V13H134A32
Replacement air filter (ELPAF54) for PowerLite 982W/992F/1288	V13H134A54
Wireless LAN module (ELPAP11) for PowerLite X49/W49/118/119W/982W	V12H005A02
Universal projector mount (ELPMBPJG)	V12H808001
Soft carrying case (ELPKS70)	V12H001K70
Active speakers (ELPSP02)	V12H467020
Epson DC-07 USB document camera (ELPDC07)	V12H759020
Epson DC-13 document camera (ELPDC13)	V12H757020
Epson DC-21 document camera (ELPDC21)	V12H758020
HDMI audio video cable 3 feet (0.9 m) length	AV22300-03
HDMI audio video cable 6 feet (1.8 m) length	AV22300-06
1-Year Extended Exchange Service Plan	EPPEXPA1
2-Year Extended Exchange Service Plan	EPPEXPA2

Parent topic: Projector Features

Warranty and Registration Information

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

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

Parent topic: Projector Features

Notations Used in the Documentation

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

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

Parent topic: Introduction to Your Projector

Where to Go for Additional Information

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

- Built-in help system

  Press the **Home** button on the remote control or projector, select **Help**, and press **Enter** to get quick solutions to common problems.

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

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

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

Parent topic: Introduction to Your Projector

Related references

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

Projector Part Locations

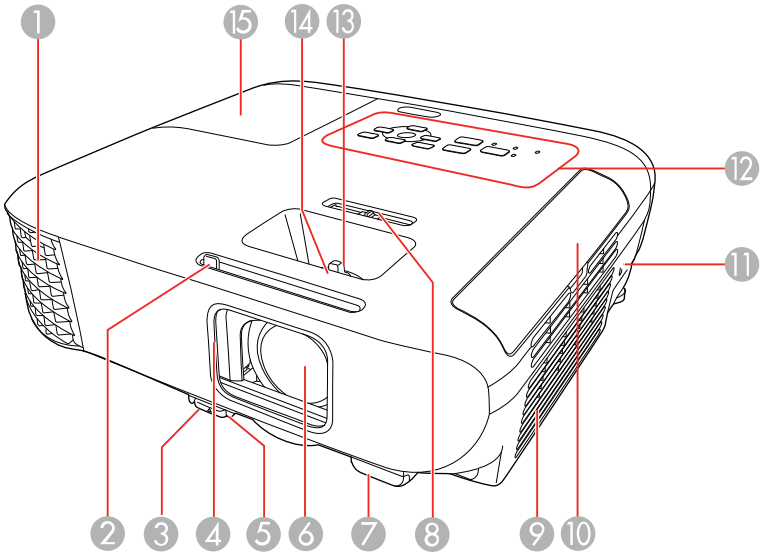
Check the projector part illustrations to learn about the parts on your projector.

Note: The PowerLite 992F is shown in most illustrations in this manual, unless noted otherwise.

Projector Parts - Front/Top
Projector Parts - Rear
Projector Parts - Base
Projector Parts - Control Panel

Projector Parts - Remote Control
Parent topic: Introduction to Your Projector

Projector Parts - Front/Top

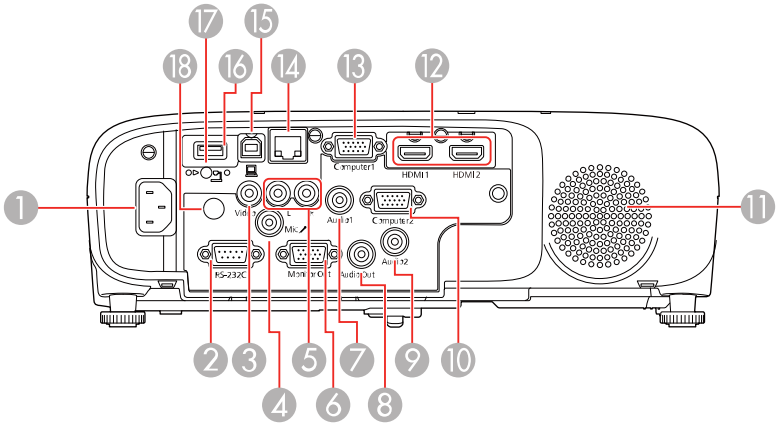


1 Exhaust vent
2 A/V Mute slide lever
3 Foot release lever
4 Lens cover
5 Front adjustable foot
6 Lens
7 Remote control receiver
8 Horizontal keystone slider
9 Air filter/intake vent
10 Air filter cover
11 Kensington security lock slot

12 Control panel
13 Zoom ring
14 Focus ring
15 Lamp cover

Parent topic: Projector Part Locations

Projector Parts - Rear

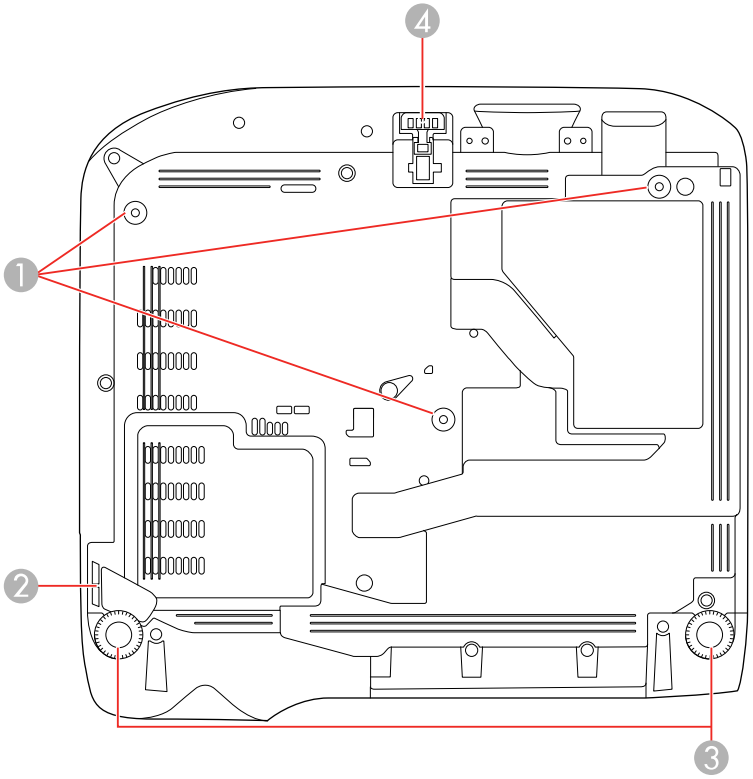


1 AC input
2 **RS-232C** port (not available on PowerLite 1288)
3 **Video** port
4 **Mic** port (not available on PowerLite E20/X49/W49/1288)
5 **L** and **R** audio ports
6 **Monitor Out** port (not available on PowerLite 1288)
7 **Audio1** port (not available on PowerLite 1288)
8 **Audio Out** port (not available on PowerLite 1288)
9 **Audio2** port (not available on PowerLite 1288)
10 **Computer2** port (not available on PowerLite 1288)

11 Speaker
12 **HDMI1** and **HDMI2** ports (HDMI2 not available on PowerLite E20/X49)
13 **Computer1** port
14 **LAN** (network) port (not available on PowerLite E20/1288)
15 USB-B port
16 USB-A port (not available on PowerLite E20)
17 Wireless LAN module cover screw (not available on PowerLite E20/1288)
18 Remote receiver

Parent topic: Projector Part Locations

Projector Parts - Base



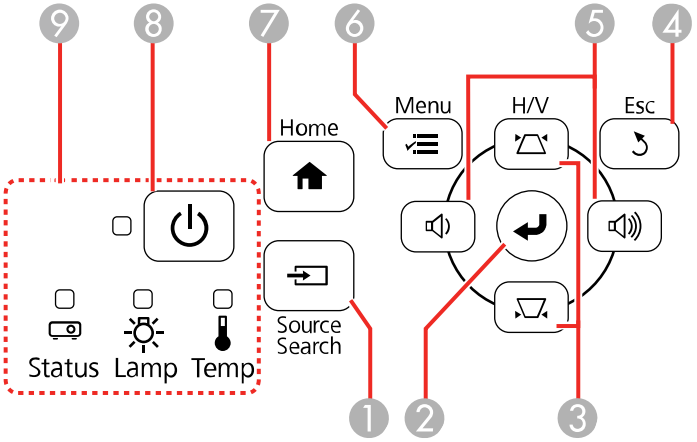
1 Ceiling mount holes (3)
2 Security cable attachment point
3 Rear feet
4 Front adjustable foot

Note: Use M4×9mm screws for mounting the projector.

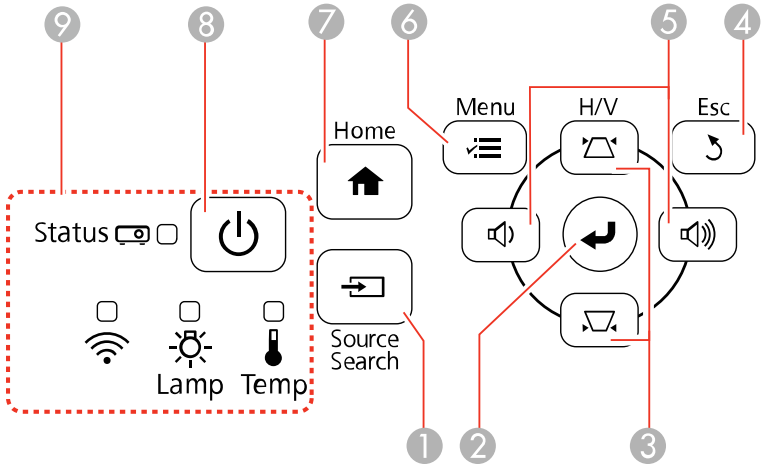
Parent topic: Projector Part Locations

Projector Parts - Control Panel

PowerLite E20



PowerLite X49/W49/118/119W/982W/992F/1288



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

2 **Enter** button (selects options)

3 Vertical keystone adjustment buttons (displays the adjustment screen and adjusts screen shape) and arrow buttons

4 **Esc** button (cancels/exits functions)

5 Volume buttons (adjust speaker volume), horizontal keystone adjustment buttons, and arrow buttons

6 **Menu** button (accesses projector menu system)

7 **Home** button (displays Home screen)

8 Power button

9 Status lights

Parent topic: Projector Part Locations

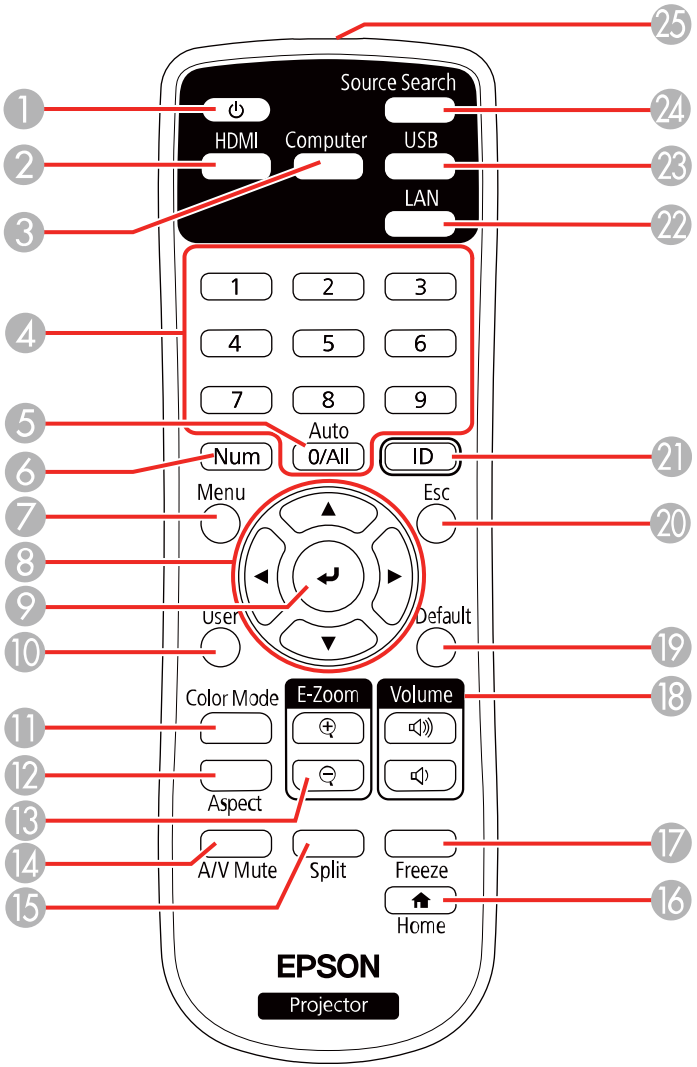
Related references

Projector Light Status

Related tasks

Using the Projector Help Displays

Projector Parts - Remote Control



1 Power button

2 **HDMI** button (cycles through connected HDMI sources)

3 **Computer** button (cycles through connected computer sources)

4 Numeric buttons (enter numbers when you hold down the **Num** button)

5 **Auto** button (automatically adjusts position, tracking, and sync settings when projecting from a computer using a VGA cable)

6 **Num** button (when held down, switches numeric buttons to number function)

7 **Menu** button (accesses projector menu system)

8 Arrow buttons (move through on-screen options)

9 Enter button (selects options)

10 **User** button (customizable for different functions)

11 **Color Mode** button (selects display modes)

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

13 **E-Zoom +/–** buttons (zoom into and out of the image)

14 **A/V Mute** button (turns off picture and sound)

15 **Split** button (splits the screen between two image sources)

16 **Home** button (accesses source selection, projector help information, and other features)

17 **Freeze** button (stops video action)

18 **Volume** up/down buttons (adjust speaker volume)

19 **Default** button (returns a selected setting to its default)

20 **Esc** button (cancels/exits functions and controls wireless mouse functions)

21 **ID** button (selects which projector you want to control)

22 **LAN** button (cycles through connected network sources)

23 **USB** button (cycles through connected USB sources)

24 **Source Search** button (searches for connected sources)

25 Remote control signal emitter (emits remote control signals)

Parent topic: Projector Part Locations

Setting Up the Projector

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

Projector Placement
Projector Connections
Installing Batteries in the Remote Control
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.
- Place the projector parallel to the screen.
- 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.

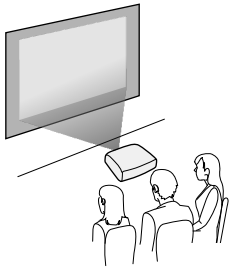
Projector Setup and Installation Options
Projection Distance

Parent topic: Setting Up the Projector

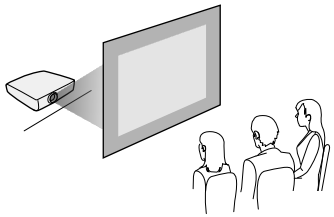
Projector Setup and Installation Options

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

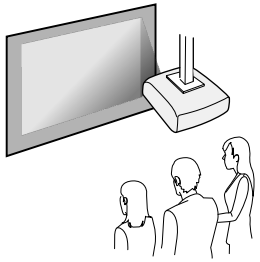
Front



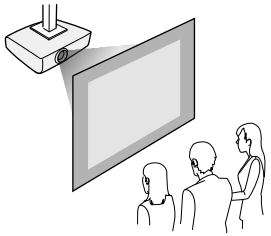
Rear



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

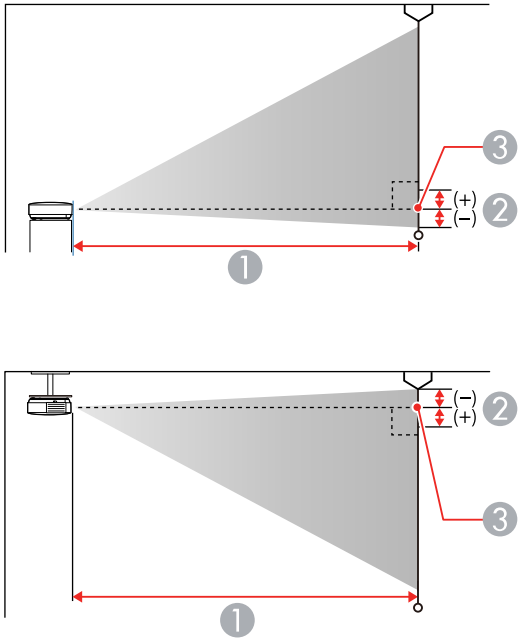
Related references

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.

Use the tables here to determine approximately how far to place the projector from the screen based on the size of the projected image. (Conversion figures may have been rounded up or down.) You can also use the Projection Distance Calculator here (U.S.), here (Canada), or here (Caribbean).



1 Projection distance

2 Distance from the center of the lens to the base of the image

3 Center of lens

PowerLite E20

4:3 Aspect Ratio Image or Screen		
Screen or image size	**Projection distance (1)** **Wide to Tele**	**Offset from lens center (2)** **Wide to Tele**
30 inches	34 to 46 inches (87 to 118 cm)	–2 inches (–5 cm)

4:3 Aspect Ratio Image or Screen		
Screen or image size	**Projection distance (1)** **Wide to Tele**	**Offset from lens center (2)** **Wide to Tele**
50 inches	57 to 78 inches (146 to 198 cm)	–3.2 inches (–8 cm)
60 inches	69 to 94 inches (176 to 238 cm)	–3.9 inches (–10 cm)
70 inches	81 to 109 inches (205 to 278 cm)	–4.7 inches (–12 cm)
80 inches	93 to 125 inches (235 to 318 cm)	–5.5 inches (–14 cm)
100 inches	116 to 157 inches (294 to 398 cm)	–6.7 inches (–17 cm)
150 inches	174 to 235 inches (442 to 598 cm)	–9.8 inches (–25 cm)
200 inches	232 to 314 inches (590 to 797 cm)	–13.4 inches (–34 cm)
300 inches	349 inches (886 cm)	–20.1 inches (–51 cm)
350 inches	407 inches (1034 cm)	–23.2 inches (–59 cm)

PowerLite X49/118

16:10 Aspect Ratio Image or Screen		
Screen or image size	**Projection distance (1)** **Wide to Tele**	**Offset from lens center (2)** **Wide to Tele**
30 inches	35 to 42 inches (89 to 107 cm)	–2 inches (–5 cm)
40 inches	47 to 56 inches (119 to 143 cm)	–2.8 inches (–7 cm)
50 inches	59 to 71 inches (150 to 180 cm)	–3.2 inches (–8 cm)
60 inches	71 to 85 inches (180 to 217 cm)	–3.9 inches (–10 cm)
80 inches	95 to 114 inches (241 to 290 cm)	–5.5 inches (–14 cm)
100 inches	119 to 143 inches (302 to 363 cm)	–6.7 inches (–17 cm)
150 inches	179 to 215 inches (454 to 546 cm)	–9.8 inches (–25 cm)
200 inches	239 to 287 inches (607 to 729 cm)	–13.4 inches (–34 cm)
250 inches	299 to 359 inches (759 to 912 cm)	–16.5 inches (–42 cm)
300 inches	359 to 431 inches (912 to 1095 cm)	–20.1 inches (–51 cm)

PowerLite W49/119W

16:10 Aspect Ratio Image or Screen		
Screen or image size	**Projection distance (1)** **Wide to Tele**	**Offset from lens center (2)** **Wide to Tele**
33 inches	36 to 43 inches (91 to 110 cm)	–1.6 inches (–4 cm)
35 inches	38 to 46 inches (97 to 117 cm)	–1.6 inches (–4 cm)
40 inches	44 to 53 inches (111 to 134 cm)	–2 inches (–5 cm)
50 inches	55 to 66 inches (139 to 168 cm)	–2.4 inches (–6 cm)
60 inches	66 to 80 inches (168 to 202 cm)	–2.8 inches (–7 cm)
80 inches	89 to 106 inches (225 to 270 cm)	–3.9 inches (–10 cm)
100 inches	111 to 133 inches (281 to 338 cm)	–4.7 inches (–12 cm)
150 inches	167 to 200 inches (424 to 509 cm)	–7.1 inches (–18 cm)
200 inches	223 to 268 inches (566 to 680 cm)	–9.4 inches (–24 cm)
320 inches	357 to 429 inches (907 to 1089 cm)	–15.4 inches (–39 cm)

PowerLite 982W

16:10 Aspect Ratio Image or Screen		
Screen or image size	**Projection distance (1)** **Wide to Tele**	**Offset from lens center (2)** **Wide to Tele**
29 inches	33 to 55 inches (85 to 140 cm)	–0.4 inches (–1 cm)
35 inches	41 to 67 inches (97 to 117 cm)	–0.4 inches (–1 cm)
40 inches	46 to 76 inches (118 to 193 cm)	–0.4 inches (–1 cm)
50 inches	59 to 96 inches (149 to 243 cm)	–0.8 inches (–2 cm)
60 inches	70 to 115 inches (179 to 292 cm)	–0.8 inches (–2 cm)
80 inches	94 to 154 inches (239 to 390 cm)	–1.2 inches (–3 cm)
100 inches	118 to 192 inches (300 to 438 cm)	–1.2 inches (–3 cm)
150 inches	178 to 289 inches (451 to 733 cm)	–2 inches (–5 cm)
200 inches	237 to 385 inches (603 to 979 cm)	–2.8 inches (–7 cm)
280 inches	333 to 540 inches (845 to 1371 cm)	–3.5 inches (–9 cm)

PowerLite 992F/1288

16:9 Aspect Ratio Image or Screen		
Screen or image size	**Projection distance (1)** **Wide to Tele**	**Offset from lens center (2)** **Wide to Tele**
30 inches	34 to 56 inches (87 to 142 cm)	0 inches (0 cm)
40 inches	46 to 75 inches (116 to 190 cm)	0 inches (0 cm)
50 inches	57 to 94 inches (146 to 238 cm)	0 inches (0 cm)
60 inches	69 to 113 inches (176 to 286 cm)	0 inches (0 cm)
80 inches	93 to 150 inches (235 to 382 cm)	0 inches (0 cm)
100 inches	116 to 188 inches (295 to 478 cm)	0 inches (0 cm)
150 inches	174 to 283 inches (443 to 719 cm)	0 inches (0 cm)
200 inches	233 to 378 inches (591 to 959 cm)	0.4 inches (1 cm)
250 inches	291 to 472 inches (740 to 1200 cm)	0.4 inches (1 cm)
300 inches	350 to 567 inches (888 to 1441 cm)	0.4 inches (1 cm)

Parent topic: Projector Placement

Projector Connections

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

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

Connecting to Computer Sources
Connecting to Video Sources
Connecting External Output Devices
Connecting to External USB Devices
Connecting to a Document Camera

Parent topic: Setting Up the Projector

Related references

Projector Setup Settings - Extended Menu
Additional Components

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 and Audio
Connecting to a Computer for HDMI Video and Audio

Parent topic: Projector Connections

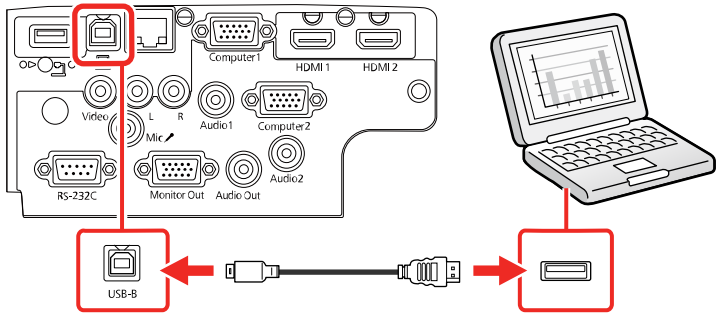
Connecting to a Computer for USB Video and Audio

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. Turn on your computer.

2. Connect the cable to your projector's **USB-B** port.



3. Connect the other end to any available USB port on your computer.
4. Do one of the following:
   - **Windows 10/Windows 8.x**: Click **EPSON_PJ_UD** when it appears on the desktop, then select **Run EMP_UDSE.EXE** in the dialog box that appears to install the Epson USB Display software.
   - **Windows 7/Windows Vista**: Select **Run EMP_UDSE.EXE** in the dialog box that appears to install the Epson USB Display software.
   - **Mac**: The USB Display setup folder appears on your screen. Select **USB Display Installer** and follow the on-screen instructions to install the Epson USB Display software.

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

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

Parent topic: Connecting to Computer Sources

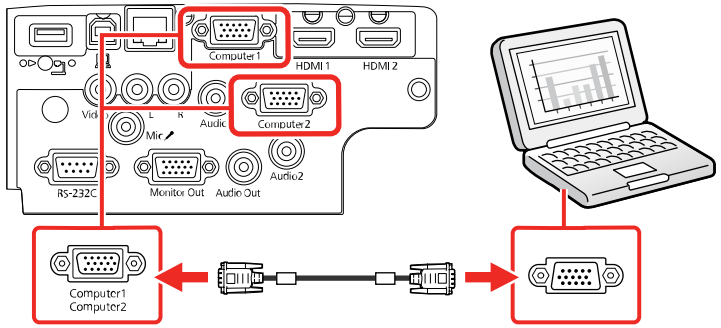
Connecting to a Computer for VGA Video and Audio

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

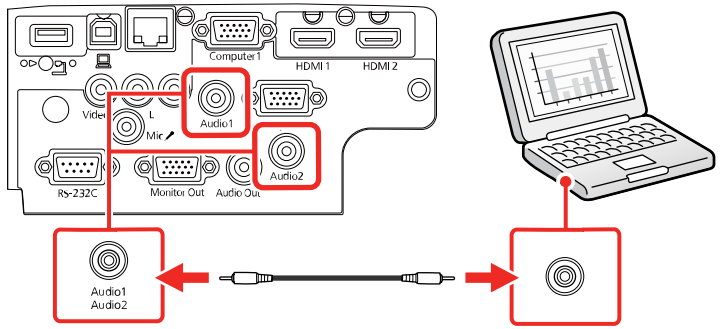
Note: To connect a Mac that includes only a Mini DisplayPort, Thunderbolt port, or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's VGA video port. Contact Apple for compatible adapter options.

1. If necessary, disconnect your computer's monitor cable.
2. Connect the VGA computer cable to your computer's monitor port.

3. Connect the other end to a **Computer** port on the projector.



4. Tighten the screens on the VGA connector.
5. Connect an audio cable to your laptop's headphone or audio out jack, or your desktop's speaker or audio out port.
6. Connect the other end to the **Audio** port that corresponds to the **Computer** port you are using.



Parent topic: Connecting to Computer Sources

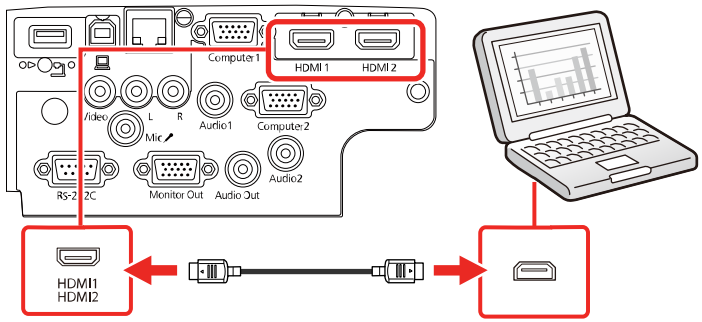
Connecting to a Computer for HDMI Video and Audio

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

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

Contact Apple for compatible adapter options. Older Mac computers (2009 and earlier) may not support audio through the **HDMI** port.

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



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

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

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 a Component Video Source
Connecting to a Composite Video Source
Connecting to a Video Source for Sound

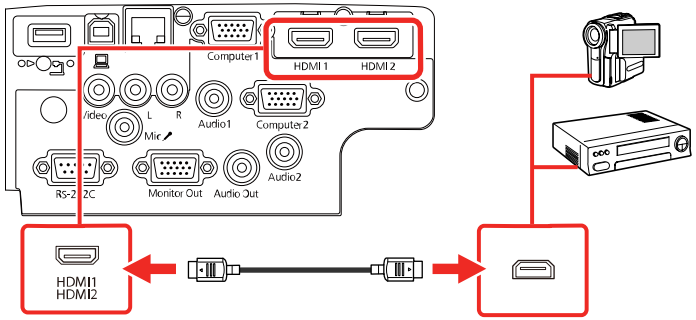
Parent topic: Projector Connections

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.

Note: Your projector may include an HDMI cable.

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



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

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

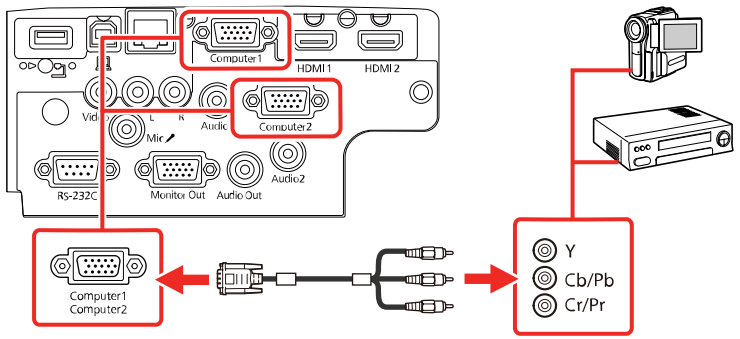
Parent topic: Connecting to Video Sources

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.



3. Tighten the screws on the VGA connector.

Parent topic: Connecting to Video Sources

Related references

Input Signal Settings - Signal Menu

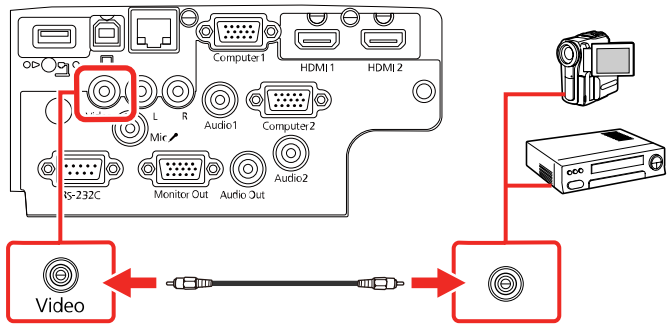
Related tasks

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.



Parent topic: Connecting to Video Sources

Related tasks

Connecting to a Video Source for Sound

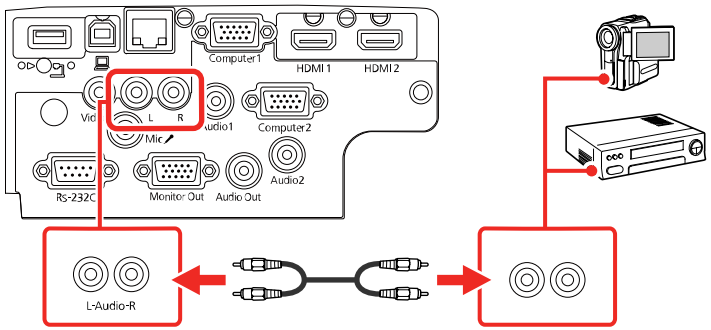
Connecting to a Video Source for Sound

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

Note: Make sure the audio cable is labeled "No Resistance."

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

1. Connect the audio cable to your video source's audio-out ports.
2. Connect the other end of the cable to the projector's **L** and **R** audio ports.



Parent topic: Connecting to Video Sources

Connecting External Output Devices

See these sections to connect the projector to external output devices.

Connecting to an External Computer Monitor
Connecting to External Speakers
Connecting a Microphone

Parent topic: Projector Connections

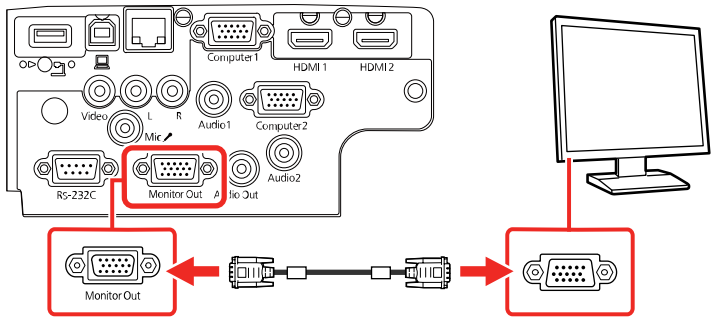
Connecting to an External Computer Monitor

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

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

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

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



Parent topic: Connecting External Output Devices

Related references

Projector Setup Settings - Extended Menu

Connecting to External Speakers

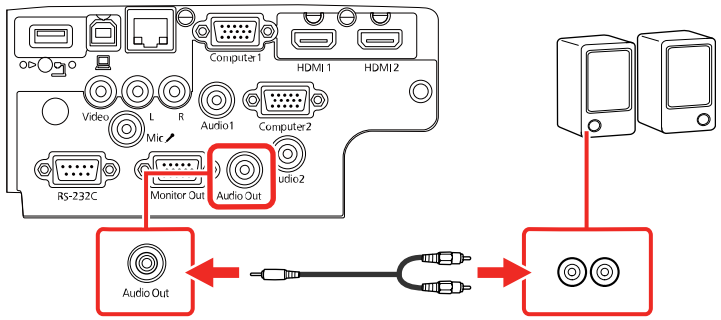
You can connect the projector to external self-powered speakers and control the volume using the projector's remote control (not available on PowerLite 1288).

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

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

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

1. Make sure your computer or video source is connected to the projector with both audio and video cables as necessary.
2. Locate the appropriate cable to connect your external speakers, such as a stereo mini-jack-to-pin-jack cable, or another type of cable or adapter.
3. Connect one end of the cable to your external speakers as necessary.
4. Connect the stereo mini-jack end of the cable to your projector's **Audio Out** port.



Parent topic: Connecting External Output Devices

Related references

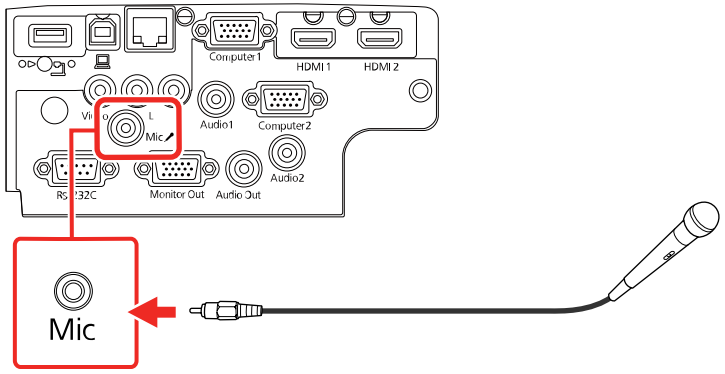
Projector Setup Settings - Extended Menu

Connecting a Microphone

You can connect a microphone to the projector's **Mic** port to provide audio support during presentations (PowerLite 118/119W/982W/992F).

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

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



2. Turn on the microphone, if necessary.
3. If you hear a crackling noise or the volume is too high or low, adjust the **Mic Input Level** setting in the Settings menu.

Parent topic: Connecting External Output Devices

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

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 FAT16 or FAT32
- Self-powered by their own AC power supplies (bus-powered hard drives are not recommended)
- Does not have multiple partitions

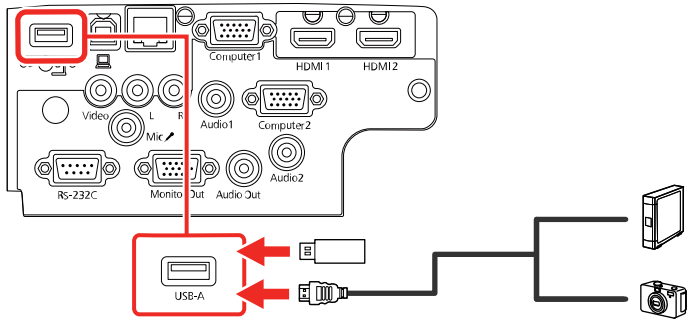
You can project slide shows from image files on a connected USB device.

Parent topic: Connecting to External USB Devices

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 (not available on PowerLite E20).

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



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

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

Parent topic: Connecting to External USB Devices

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.

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.

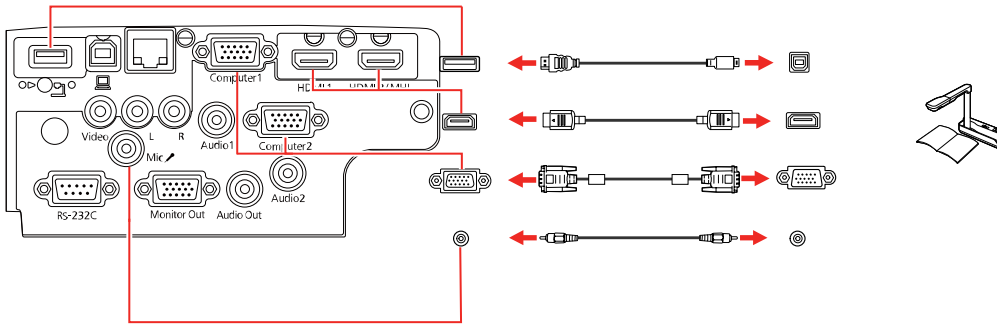
Parent topic: Connecting to External USB Devices

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



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

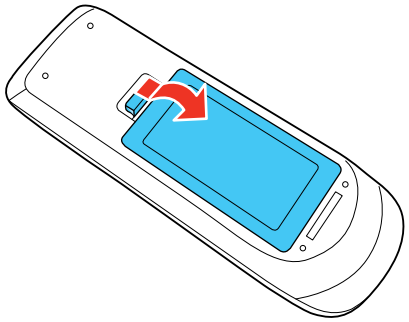
Parent topic: Projector Connections

Installing Batteries in the Remote Control

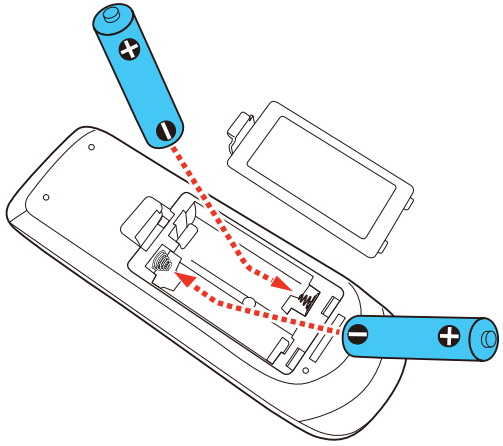
The remote control uses the two AA batteries that came with the projector.

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

1. Remove the battery cover.

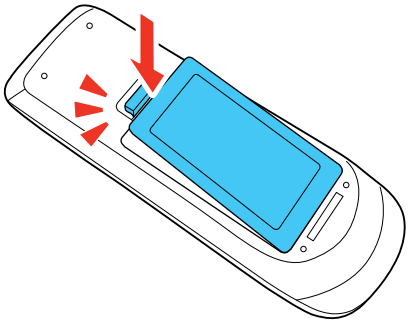


2. Insert the batteries with the **+** and **–** ends facing as shown.



Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

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

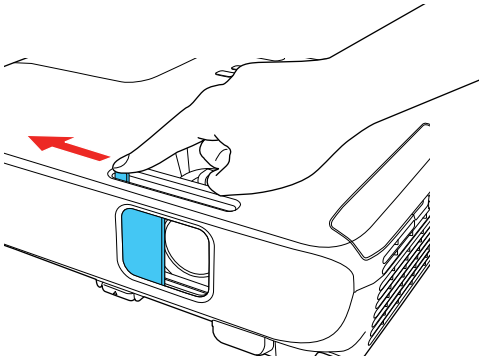


Warning: Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

Parent topic: Setting Up the Projector

Opening the Lens Cover

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



Parent topic: Setting Up the Projector

Using the Projector on a Network

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

Wired Network Projection
Wireless Network Projection
Setting Up Projector Network E-Mail Alerts
Setting Up Monitoring Using SNMP
Wireless Network Projection from a Mobile Device or Windows Computer (Screen Mirroring)
Controlling a Networked Projector Using a Web Browser
Using Crestron Connected
Registering a Digital Certificate on the Projector

Wired Network Projection

You can project through a wired network (not supported on PowerLite E20/1288). To do this, you connect the projector to your network with an Ethernet cable, and then set up your projector and computer for network projection.

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

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

Connecting to a Wired Network
Selecting Wired Network Settings

Parent topic: Using the Projector on a Network

Related references

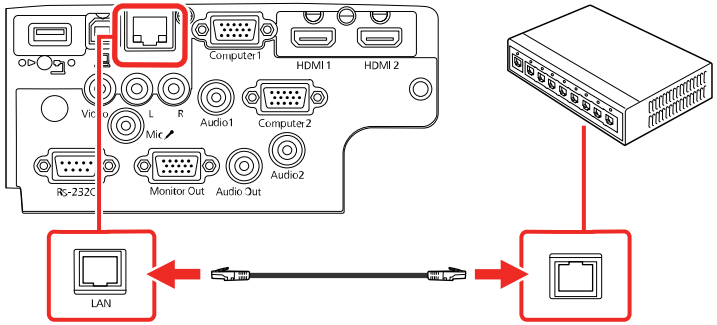
Additional Projector Software and Manuals

Connecting to a Wired Network

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

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

2. Connect the other end of the cable to the projector's **LAN** port.



Parent topic: Wired Network Projection

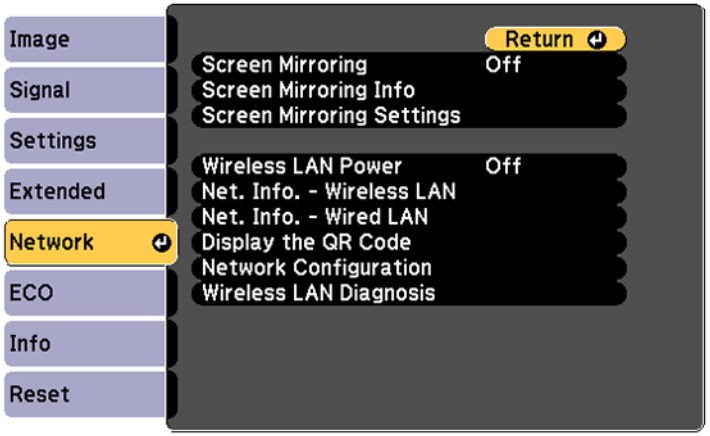
Selecting Wired Network Settings

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

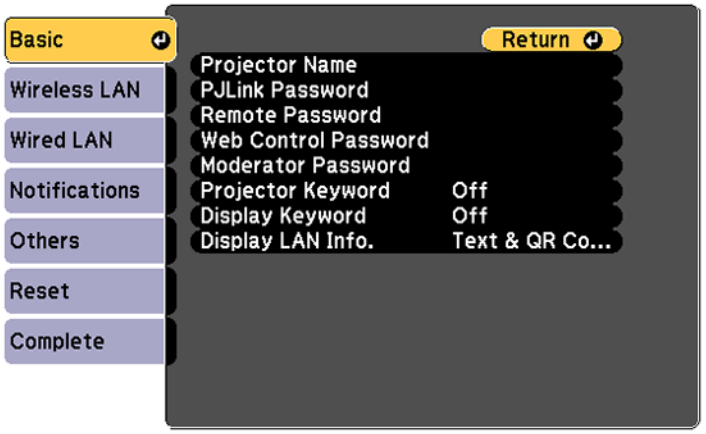
Note: Make sure you already connected the projector to your wired network using the **LAN** port.

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

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



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

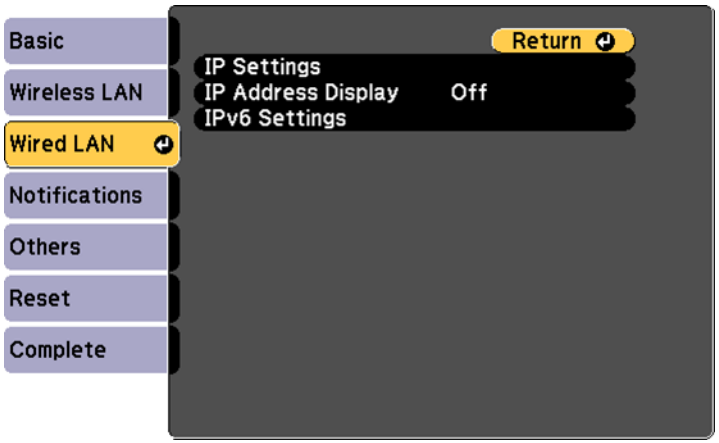


6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.

- **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
- **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen in Epson Web Control. (Default user name is **EPSONREMOTE**; default password is **guest**.)
- **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web. (Default user name is **EPSONWEB**; default password is **admin**.)
- **Moderator Password** lets you enter a password up to 4 numbers long for accessing the projector as a moderator with the Epson iProjection (Windows/Mac) software or the Epson iProjection app. (No default password.)
- **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. You must enter a displayed, randomized keyword from a computer using the Epson iProjection (Windows/Mac) software to access the projector.
- **Display Keyword** lets you select whether or not to display a projector keyword on the projected image when using the Epson iProjection (Windows/Mac) software to access the projector.
- **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices using the Epson iProjection app.

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

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



8. If necessary, select **IP Settings** and press **Enter**.
9. Select your IP Settings as necessary:
   - If your network assigns addresses automatically, turn on the **DHCP** setting.
   - If you must set addresses manually, turn off **DHCP** and enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address** as needed.

   Note: To highlight the numbers you want from the displayed keyboard, press the arrow buttons on the remote control. To select a highlighted number, press **Enter**. Or, press and hold the **Num** button on the remote control while entering the desired numbers.

10. To prevent display of the IP address on the standby screen, turn off **IP Address Display**.
11. To connect the projector to the network using IPv6, select **On** as the **IPv6 Settings** option. Then select the **Auto Configuration** and **Use Temporary Address** settings as necessary.
12. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Parent topic: Wired Network Projection

Wireless Network Projection

You can project over a wireless network (not supported on PowerLite E20). To do this, you must set up your projector and computer for wireless projection.

Note: The Epson 802.11b/g/n wireless LAN module is optional for PowerLite X49/W49/118/119W/982W. The wireless module is built-in for PowerLite 992F/1288.

There are two ways to connect to your projector wirelessly:

- Creating a Quick Wireless Connection USB Key (Windows only) using the Epson iProjection software
- Configuring the connection manually using the projector's Network menus

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

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

Installing the Wireless LAN Module
Using a QR Code to Connect a Mobile Device
Using Quick Wireless Connection (Windows)
Selecting Wireless Network Settings Manually
Selecting Wireless Network Settings in Windows
Selecting Wireless Network Settings on Mac
Setting Up Wireless Network Security

Parent topic: Using the Projector on a Network

Related references

Additional Projector Software and Manuals
Optional Equipment and Replacement Parts

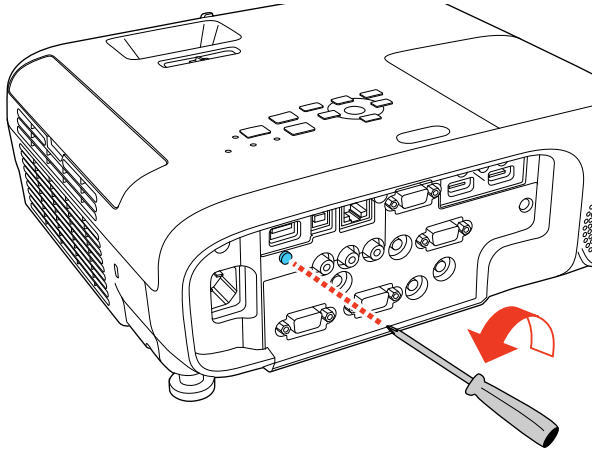
Installing the Wireless LAN Module

To use the projector over a wireless network, install the Epson 802.11b/g/n wireless LAN module in the projector (PowerLite X49/W49/118/119W/982W). Do not install any other type of wireless module.

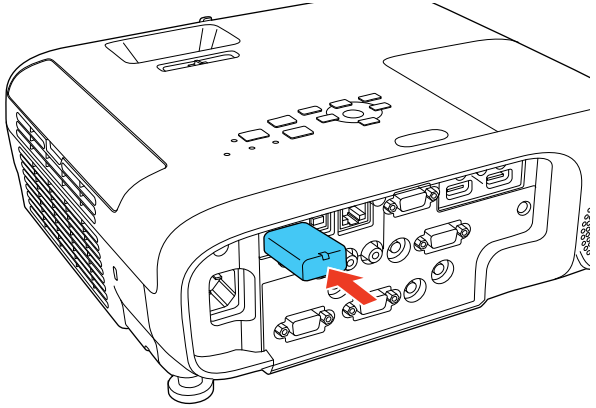
Note: The wireless LAN module is not included with your projector and is optional.

Note: You do not need the wireless LAN module for the PowerLite 992F/1288 since the wireless functionality is built-in.

1. Remove the wireless LAN module cover screw.

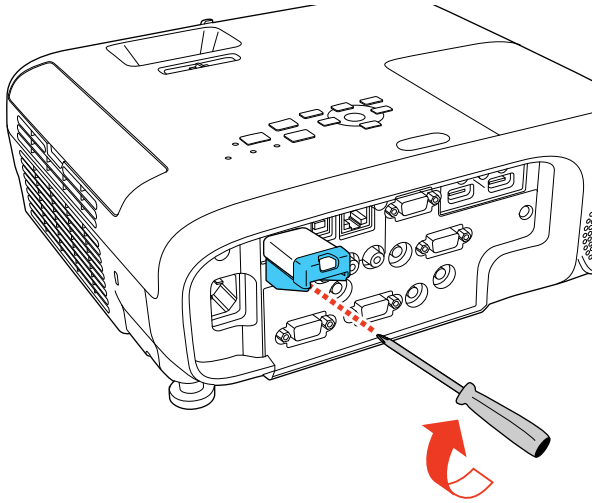


2. Insert the wireless LAN module into the **USB-A** port.



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

   Note: The wireless LAN module cover may be provided with the optional wireless LAN module instead of the projector.



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.

Caution: Never remove the wireless LAN module while its indicator is blue or flashing, or while you are projecting wirelessly. This could damage the module or lose data.

Parent topic: Wireless Network Projection

Related references

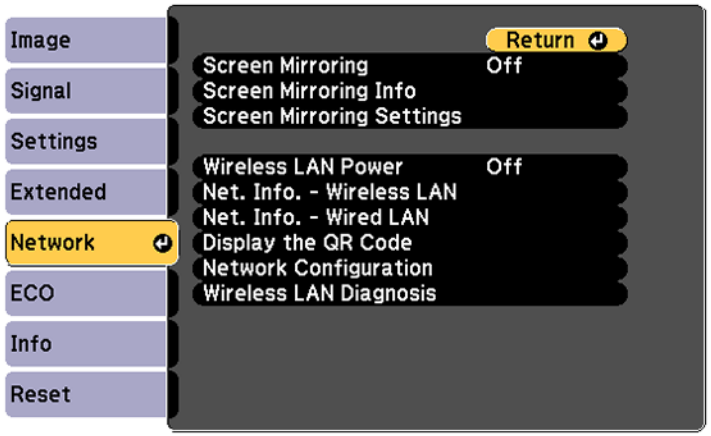
Optional Equipment and Replacement Parts

Using a QR Code to Connect a Mobile Device

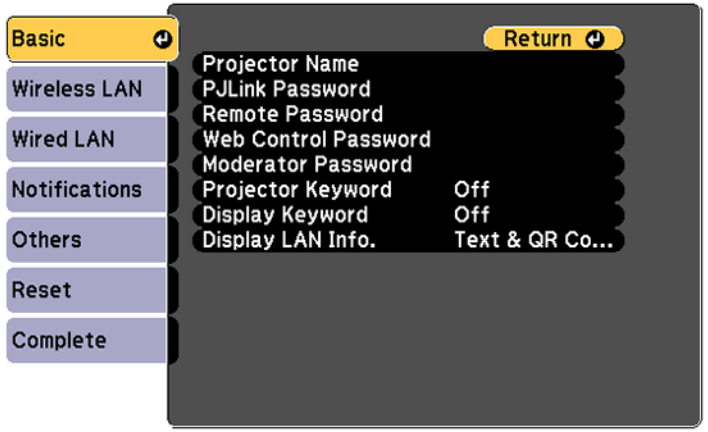
After you select the wireless network settings for your projector, you can display a QR code on the screen and use it to connect a mobile device using the Epson iProjection app.

Note: Make sure you have installed the latest version of Epson iProjection on your device. Visit epson.com/iprojection (U.S.), epson.ca/iprojection (Canada), or latin.epson.com/iprojection (Caribbean) for more information.

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



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



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

   Your projector displays the QR code on the projection surface.

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

8. Start Epson iProjection on your mobile device.
9. Use the QR code reader feature to read the QR code and connect your device to the projector. Visit epson.com/iprojection (U.S.), epson.ca/iprojection (Canada), or latin.epson.com/iprojection (Caribbean) for instructions.

Parent topic: Wireless Network Projection

Using Quick Wireless Connection (Windows)

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

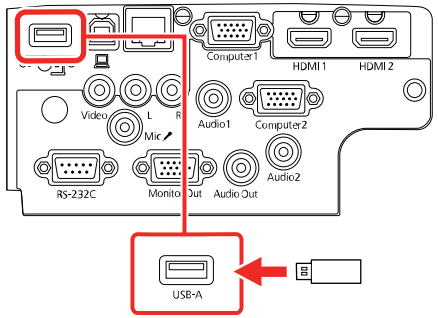
Note: A USB flash drive is not included with your projector.

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

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

2. Turn on the projector.
3. Remove the wireless LAN module from the **USB-A** port (PowerLite X49/W49/118/119W/982W).

4. Insert the USB key into the projector's **USB-A** port.



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

5. Remove the USB key.
6. Reinsert the wireless LAN module into the projector (PowerLite X49/W49/118/119W/982W).
7. Insert the USB key into a USB port on your computer.

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

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

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

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

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

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

Parent topic: Wireless Network Projection

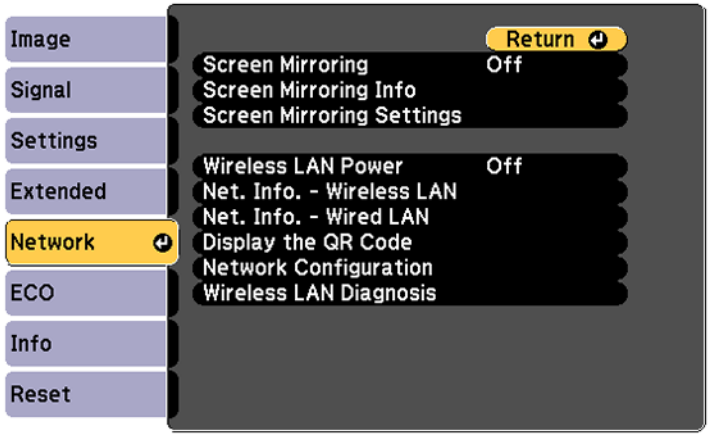
Related references

Additional Projector Software and Manuals

Selecting Wireless Network Settings Manually

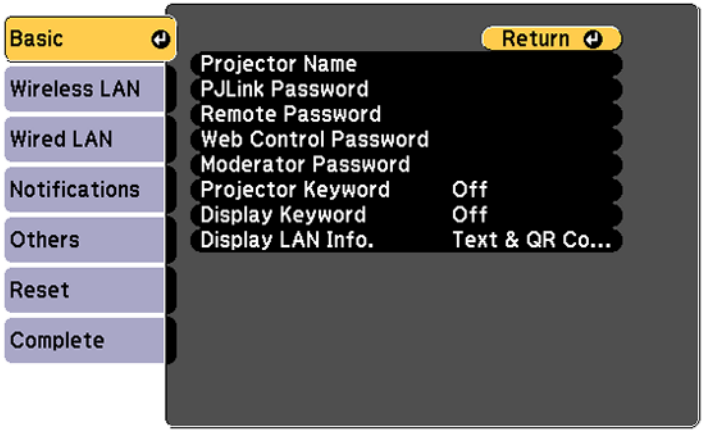
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

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



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

6. Select the **Basic** menu and press ↵ **Enter**.

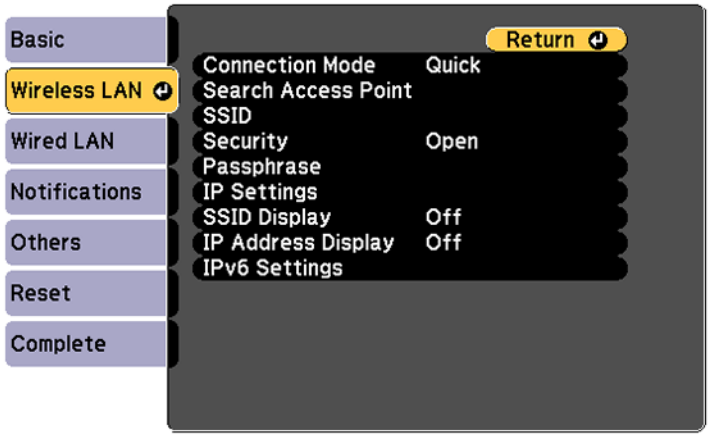


7. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
   - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
   - **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen in the Epson Web Control. (Default user name is **EPSONREMOTE**; default password is **guest**.)
   - **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web. (Default user name is **EPSONWEB**; default password is **admin**.)
   - **Moderator Password** lets you enter a password up to 4 numbers long for accessing the projector as a moderator with the Epson iProjection (Windows/Mac) software or the Epson iProjection app.
   - **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. The projector displays a random keyword that you must enter from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.
   - **Display Keyword** lets you display a keyword on the projected image when accessing the projector from a computer using the Epson iProjection (Windows/Mac) software or an iOS or Android device using the Epson iProjection app.

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

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

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



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
Connection Mode	**Quick** **Advanced**	Selects the type of wireless connection **Quick**: lets you directly connect to multiple devices and computers using the projector's wireless network; requires the optional wireless LAN module **Advanced**: lets you connect to multiple smartphones, tablets, or computers via a wireless network access point
Search Access Point	**To Search View**	Search for available wireless network access points in **Advanced** connection mode
SSID	Up 32 alphanumeric characters	Sets the SSID (network name) of the wireless LAN system the projector is connecting to
Security	**Open** **WPA3-PSK** **WPA2/WPA3-PSK** **WPA3-EAP** **WPA2/WPA3-EAP**	Selects the type of wireless security used in the wireless network (some options are only available when the **Connection Mode** setting is set to **Advanced**) **Note:** EAP and PEAP security are only available on PowerLite 992F/1288.
Passphrase	Between 8 to 63 alphanumeric characters	Enter a paraphrase for the wireless network

Setting	Options	Description
EAP Method	**EAP Type** **User name** **Password** **Client Certificate** **Verify Server Cert.** **CA Certificate** **RADIUS Serv. Name**	Sets the EAP for WPA2-EAP and WPA/WPA2-EAP security **Note:** EAP and PEAP security are only available on PowerLite 992F/1288.
Channel	Various channels available	In **Quick** connection mode, selects the frequency band (channel) used by the wireless LAN
IP Settings	**DHCP** **IP Address** **Subnet Mask** **Gateway Address**	Turns on DHCP if your network assigns addresses automatically; set to **Off** to manually enter the network's **IP Address**, **Subnet Mask**, and **Gateway Address**
SSID Display	**On** **Off**	Selects whether to display the SSID on the network standby screen and the Home screen
IP Address Display	**On** **Off**	Selects whether to display the IP address on the network standby screen and the Home screen
IPv6 Settings	**IPv6** **Auto Configuration** **Use Temporary Address**	Selects the IPv6 settings when you connect the projector to the network using IPv6

Parent topic: Selecting Wireless Network Settings Manually

Selecting Wireless Network Settings in Windows

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

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

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings on Mac

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

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

Parent topic: Wireless Network Projection

Setting Up Wireless Network Security

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

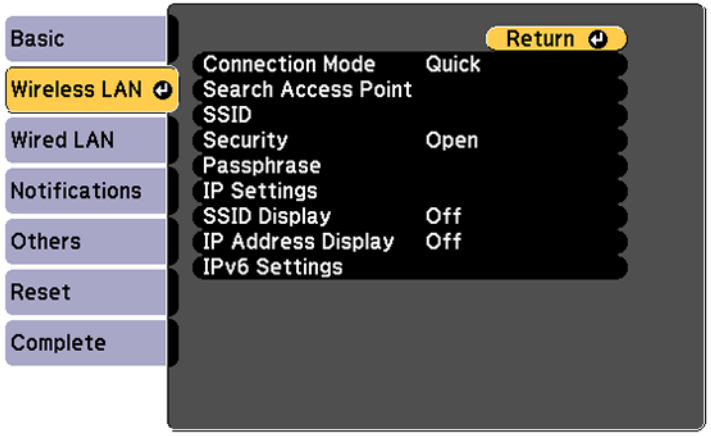
- WPA2-PSK security (Quick connection mode)
- WPA3-PSK security (Advanced connection mode)
- WPA2/WPA3-PSK security (Advanced connection mode)
- WPA3-EAP security (Advanced connection mode)
- WPA2/WPA3-EAP security (Advanced connection mode)

Note: EAP and PEAP security are only available on PowerLite 992F/1288.

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 **Wireless LAN** menu and press **Enter**.



5. Select the **Security** setting and press **Enter**.
6. Select the security settings for your network.

   Note: If you select an EAP security method, select **EAP Method** on the **Wireless LAN** menu and change the settings as necessary.

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

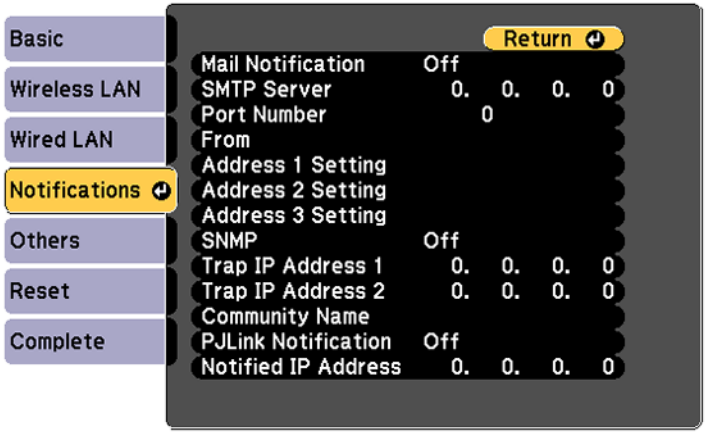
Parent topic: Wireless Network Projection

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 **Notifications** menu and press ↵ **Enter**.



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

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

7. Select a number for the SMTP server **Port Number** setting, from 1 to 65535 (default is 25).
8. Enter the sender's email address as the **From** setting.
9. Choose an **Address Setting** field, enter the e-mail address, and select or deselect the alerts you want to receive there. Your e-mail address can be up to 32 alphanumeric characters long. Repeat for up to three addresses.
10. 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:

- The email address entered as the **From** setting
- **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.

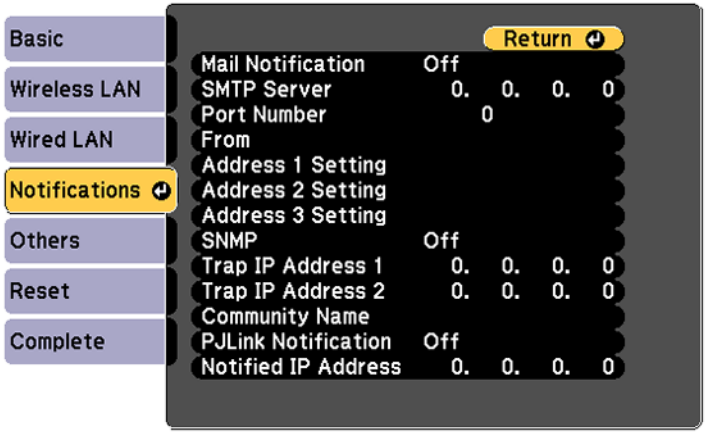
Parent topic: Setting Up Projector Network E-Mail Alerts

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 **Notifications** menu and press ↵ **Enter**.



5. Turn on the **SNMP** setting.
6. 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).

7. Enter a community name. You can enter up to 32 single-byte alphanumeric characters.
8. If you want this projector to receive broadcasted messages over the network, select the **Others** menu and turn on the **Message Broadcasting** setting. Administrators can broadcast messages over the network using Epson Projector Management (Windows only).
9. 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

Wireless Network Projection from a Mobile Device or Windows Computer (Screen Mirroring)

You can send images to your projector from mobile devices such as laptops, smartphones, and tablets using Miracast technology or from a Windows computer (PowerLite 992F/1288). If your device supports Miracast, you do not need to install any additional software.

Screen Mirroring Restrictions

Selecting Screen Mirroring Settings

Connecting for Screen Mirroring with Miracast

Connecting for Screen Mirroring with a Windows 8.x/Windows 10 Computer

Parent topic: Using the Projector on a Network

Screen Mirroring Restrictions

Note the following when using Screen Mirroring features (PowerLite 992F/1288):

- You cannot project an interlaced image.
- You cannot play audio with more than 3 channels.
- You cannot project images with a resolution above 1920 × 1080 and a frame rate above 30 fps.
- You cannot project 3D video.
- You cannot use extended Miracast features on Windows 8.1.
- You may not be able to view contents with copyright protection using a Miracast connection.
- Do not change the projector's Screen Mirroring settings during Screen Mirroring projection. Doing so may cause the projector to disconnect and delay reconnection.
- Do not turn off the electrical supply to the projector during Screen Mirroring projection.

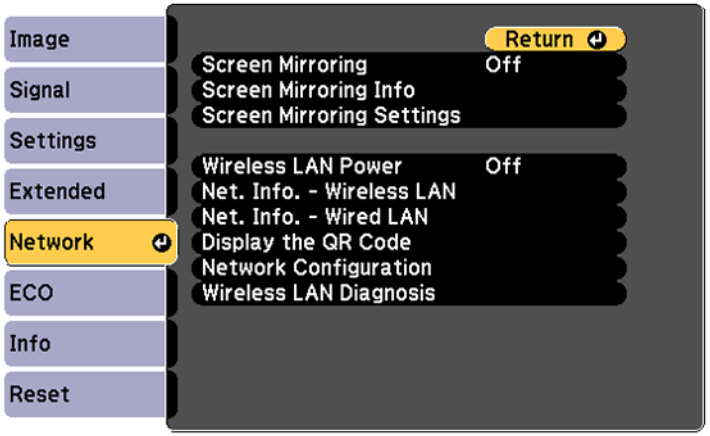
Parent topic: Wireless Network Projection from a Mobile Device or Windows Computer (Screen Mirroring)

Selecting Screen Mirroring Settings

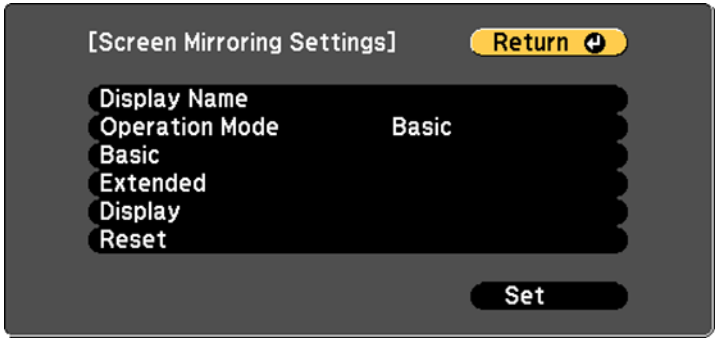
You can select Screen Mirroring settings for your projector and then project images from your mobile device or computer (PowerLite 992F/1288).

1. Press the **Menu** button.

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



3. Set the **Screen Mirroring** setting to **On**.
4. Select **Screen Mirroring Settings** and press ↵ **Enter**.
5. Select the **Screen Mirroring Settings** options as necessary.



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

   You see the Display Name you created on the Home screen.

Parent topic: Wireless Network Projection from a Mobile Device or Windows Computer (Screen Mirroring)

Connecting for Screen Mirroring with Miracast

If your mobile device supports Miracast, you can connect it to the projector wirelessly and project images and sound (PowerLite 992F/1288).

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

   You see the Screen Mirroring standby screen.
3. On your mobile device, use the Miracast function to search for the projector.

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

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

   The projector displays the image from your mobile device.

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

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

Parent topic: Wireless Network Projection from a Mobile Device or Windows Computer (Screen Mirroring)

Related tasks

Selecting Screen Mirroring Settings

Connecting for Screen Mirroring with a Windows 8.x/Windows 10 Computer

You can set up your computer to wirelessly project images and play sound using Screen Mirroring (PowerLite 992F/1288).

1. Select the Screen Mirroring settings on your projector as necessary.

2. Press the **LAN** button on the remote control to switch to the Screen Mirroring source.

   You see the Screen Mirroring standby screen.

3. Do one of the following:
   - **Windows 10**: Open **Action Center** and select **Connect**.
   - **Windows 8.x**: Select **Devices** > **Project** > **Add a wireless display**.
4. Select your projector's Display Name from the list.
5. If you see the PIN entry screen on your computer, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image.

   The projector displays the image from your computer or mobile device.

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

Parent topic: Wireless Network Projection from a Mobile Device or Windows Computer (Screen Mirroring)

Related tasks

Selecting Screen Mirroring Settings

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 11.0 or later, Microsoft Edge, Google Chrome, 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.

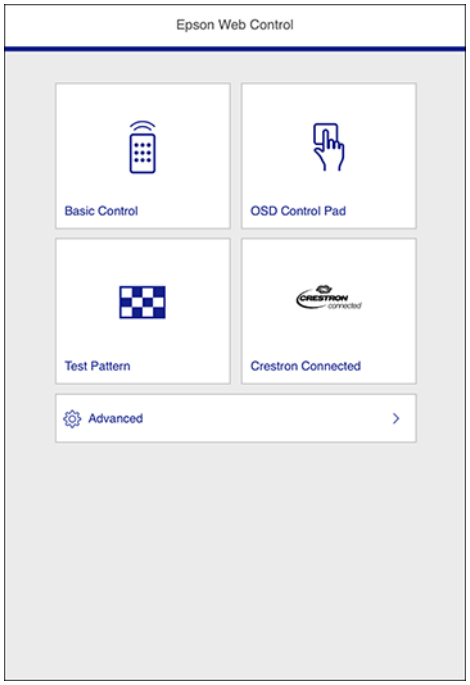
Note: If you set Standby Mode to **Communication On** in the ECO menu, you can use a web browser to select settings and control projection even if the projector is in standby mode.

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.



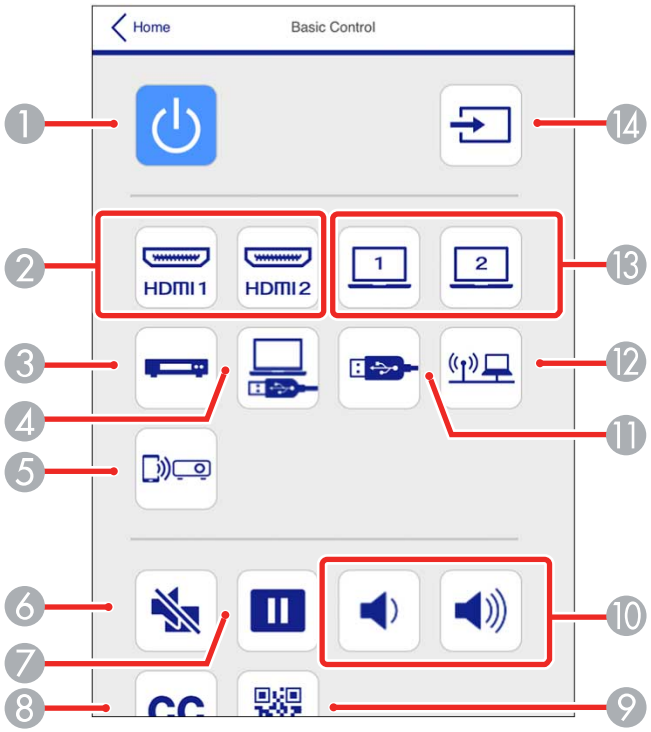
4. To select projector menu settings, select **Advanced** to display a list of options.

   Note: You may need to log in to access some of the options on 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**.)

5. To control projection remotely, select the **Basic Control** option from the Web Control screen.

   Note: If you see a log in window, enter your user name and password. (The default user name is **EPSONREMOTE** and the default password is **guest**.)

   You see a screen like this:



1 Power button control
2 Select an **HDMI** port source
3 Selects a **Video** port source
4 Selects the USB Display source
5 Selects the Screen Mirroring source (PowerLite 992F/1288)
6 **A/V Mute** button control

7 **Freeze** button control
8 Closed Captioning control
9 Displays a QR code
10 **Volume** button controls
11 Selects the USB device source
12 Selects the network source
13 Selects a **Computer** port source
14 Searches for connected sources

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
Solutions When You Cannot Access the Projector Through the Web

Using Crestron Connected

If you are using the Crestron Connected network monitoring and control system, you can set up your projector for use on the system. Crestron Connected lets you control and monitor your projector using a web browser.

Note: You cannot use the Message Broadcasting feature in the Epson Projector Management software when you use Crestron Connected.

For additional information on Crestron Connected, contact Crestron.

Setting Up Crestron Connected
Controlling a Networked Projector Using Crestron Connected

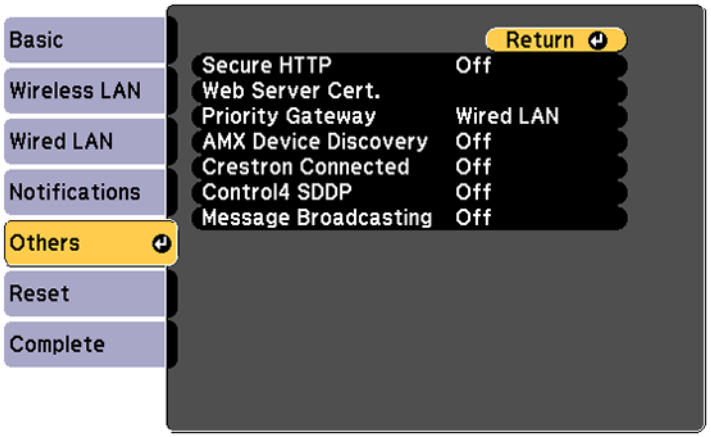
Parent topic: Using the Projector on a Network

Setting Up Crestron Connected

To set up your projector for monitoring and control using a Crestron Connected system, make sure your computer and projector are connected to the network.

Note: If you want to use the Crestron Connected system when the projector is turned off, you need to adjust the **Standby Mode** settings in the Extended menu.

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. Set the **Crestron Connected** setting to **On** to allow the projector to be detected.

   Note: Enabling Crestron Connected disables the Message Broadcasting feature in the Epson Projector Management software.

6. Turn off the projector, then turn it on again to enable the setting.

Parent topic: Using Crestron Connected

Related tasks

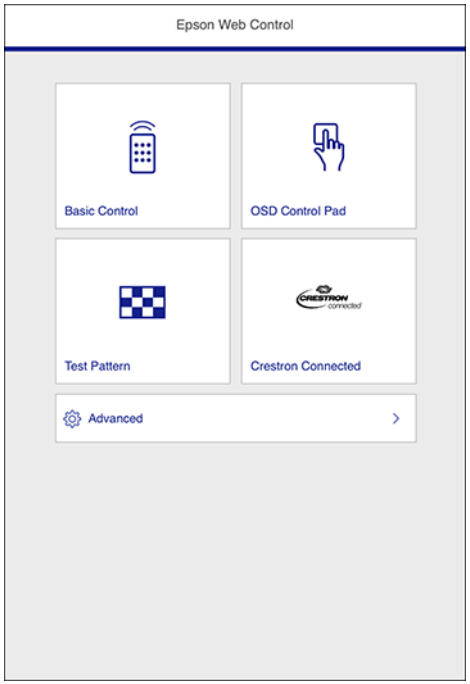
Selecting Wireless Network Settings Manually

Controlling a Networked Projector Using Crestron Connected

Once you have set up your projector to use Crestron Connected, you can control and monitor projection using a compatible web browser.

1. Start your web browser on a computer connected to the network.
2. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

   You see the Epson Web Control screen:



   Note: You may need to log in to access some of the options on the Web Control screen. If you see a log in window, enter your user name and password.

3. Select **Crestron Connected**.

You see a screen like this:



4. Select the input source that you want to control in the Sources List box. You can scroll through available sources using the up and down arrows in the box.
5. To control projection remotely, click the on-screen buttons that correspond to the projector's remote control buttons. You can scroll through button options at the bottom of the screen.

   Note: These on-screen buttons do not directly correspond to the projector's remote control buttons:

   - **OK** acts as the **Enter** button
   - **Menu** displays the projector's menu

6. To view information about the projector, click the **Info** tab.
7. To change projector, Crestron, and password settings, click the **Tools** tab, select settings on the displayed screen, and click **Send**.
8. When you finish selecting settings, click **Exit** to exit the program.

Parent topic: Using Crestron Connected

Registering a Digital Certificate on the Projector

Follow the instructions here if you need to install a digital certificate on the projector to provide security for your presentation files.

Note: You can register a digital certificate over a network or from a connected USB device. However, be sure to register just once from either a USB device or network, or the certificate may not install correctly.

Importing a Web Server Certificate Using the Projector Menus
Registering Digital Certificates from a Web Browser
Digital Certificate Types

Parent topic: Using the Projector on a Network

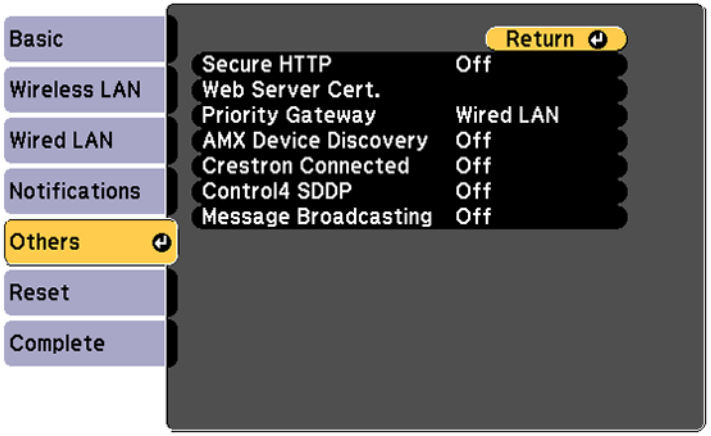
Importing a Web Server Certificate Using the Projector Menus

You can create your web server certificate and import it using the projector menus and a USB flash drive.

Note: You can also register digital certificates from your web browser. Make sure to only register once, or the certificate may not install correctly.

1. Make sure your digital certificate file is compatible with projector registration and saved in the root directory of the USB flash drive.
2. Press the **Menu** button on the remote control.
3. Select the **Network** menu and press ↵ **Enter**.
4. Select the **Network Configuration** setting and press ↵ **Enter**.

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



6. Select **On** as the **Secure HTTP** setting.
7. Select the **Web Server Cert.** setting and press **Enter**.
8. Select **Register** and press **Enter**.
9. Remove the screw securing the wireless LAN module port cover, then remove the port cover.
10. Insert a USB flash drive into the projector's **USB-A** port. If the wireless LAN module is installed, remove it before inserting the USB flash drive.
11. Press **Enter** to display the certificate list.
12. Select the certificate you want to import from the displayed list.

    A message is displayed prompting you to enter the password for the certificate.
13. Enter the password and press **Enter**.

    The certificate is imported and a completion message appears.
14. Remove the USB flash drive, then re-insert the wireless LAN module and secure the port cover.

Parent topic: Registering a Digital Certificate on the Projector

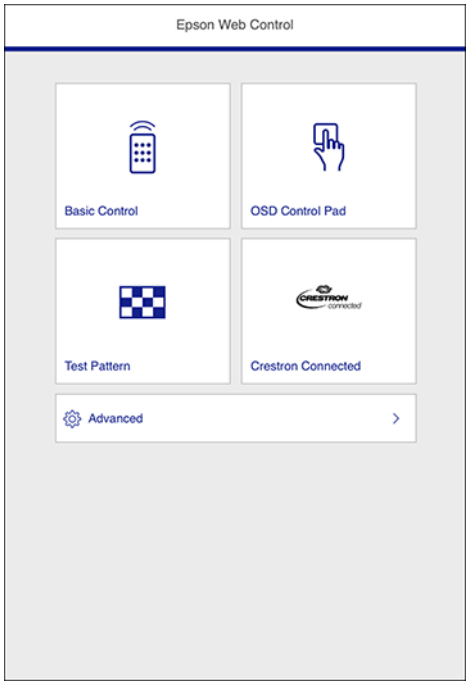
Registering Digital Certificates from a Web Browser

You can register the digital certificates on the projector for wireless LAN authentication.

1. Make sure your digital certificate file is compatible with projector registration.

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

   You see the Web Control screen:



5. Select **Advanced**.

   Note: You may need to log in to access some of the options on 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**.)

6. Under **Network**, select **Certificate**.
7. Click the **Choose File** button, select the certificate file, and click **Open**.
8. Enter a password in the **Password** box and click **Send**.

9. When you finish registering the certificate, click **Apply** to finalize your changes and complete the registration.

Parent topic: Registering a Digital Certificate on the Projector

Digital Certificate Types

You can register these types of digital certificates.

Note: EAP and PEAP security are only available on PowerLite 992F/1288.

Client Certificate (PEAP-TLS/EAP-TLS)

Specification	Description
Format	PKCS#12
Extension	PFX, P12
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Password	Up to 32 alphanumeric characters; required

CA Certificate (PEAP/PEAP-TLS/EAP-TLS/EAP-FAST)

Specification	Description
Format	X509v3
Extension	DER/CER/PEM
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Encoding	BASE64/Binary

Web Server Certificate (Secure HTTP)

Specification	Description
Format	PKCS#12
Extension	PFX, P12
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Common name	Network host name
Organization	Optional
Password	Up to 32 alphanumeric characters; required

Parent topic: Registering a Digital Certificate on the Projector

Using Basic Projector Features

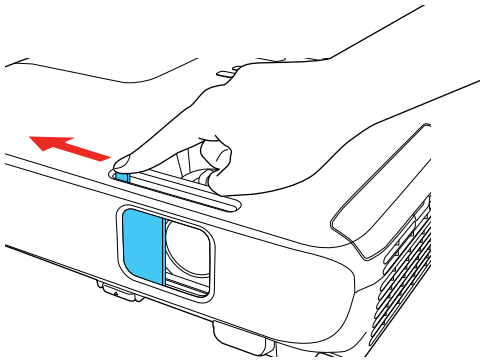
Follow the instructions in these sections to use your projector's basic features.

Turning On the Projector
Turning Off the Projector
Setting the Date and Time
Selecting the Language for the Projector Menus
Adjusting the Image Height
Image Shape
Resizing the Image with the Zoom Ring
Focusing the Image Using the Focus Ring
Remote Control Operation
Selecting an Image Source
Projection Modes
Image Aspect Ratio
Color Mode
Controlling the Volume with the Volume Buttons
Projecting a PC Free Presentation

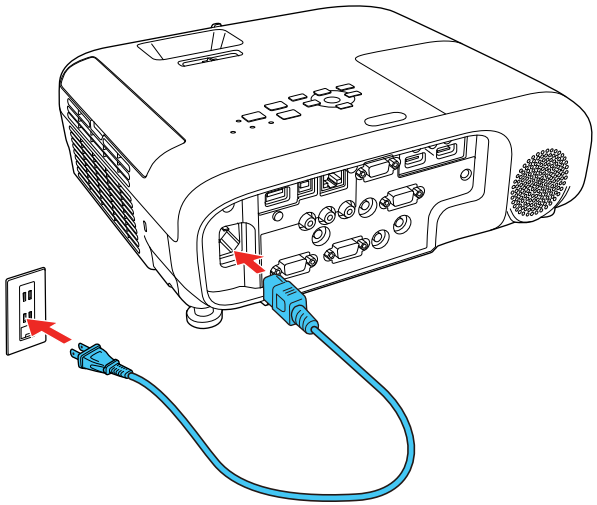
Turning On the Projector

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

1. Open the projector's lens cover.



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



3. Plug the power cord into an electrical outlet.

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

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

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

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

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

   Caution: Turning the power on and off frequently may shorten the lamp's operating life.

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

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

- Change the screen output from the computer when using a laptop.
- Press the **Source Search** button on the projector or remote control to detect the video source.
- Press the button for the video source on the remote control.
- If the Home screen is displayed, select the source you want to project.

Using the Home Screen

Parent topic: Using Basic Projector Features

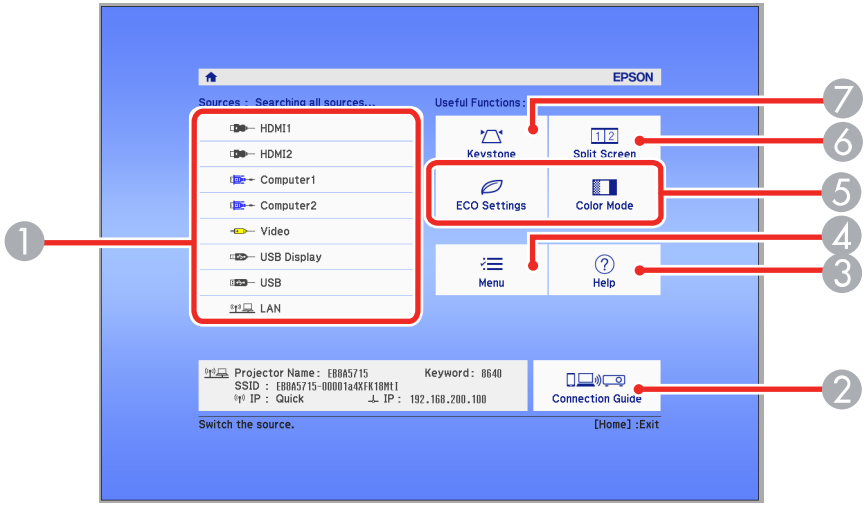
Related tasks

Selecting an Image Source

Using the Home Screen

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

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



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

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

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

Parent topic: Turning On the Projector

Related references

Projector Setup Settings - Extended Menu

Turning Off the Projector

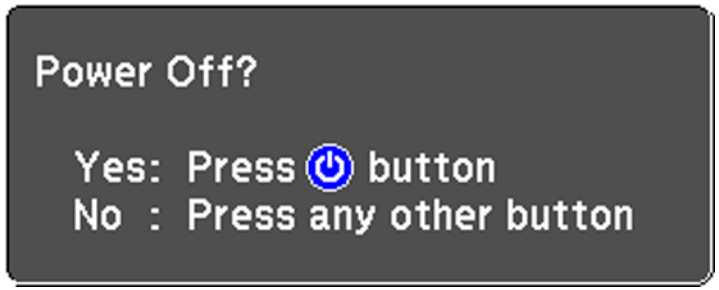
Before turning off the projector, shut down any computer connected to it so you can see the computer display during shutdown.

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

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

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

The projector displays a shutdown confirmation screen.



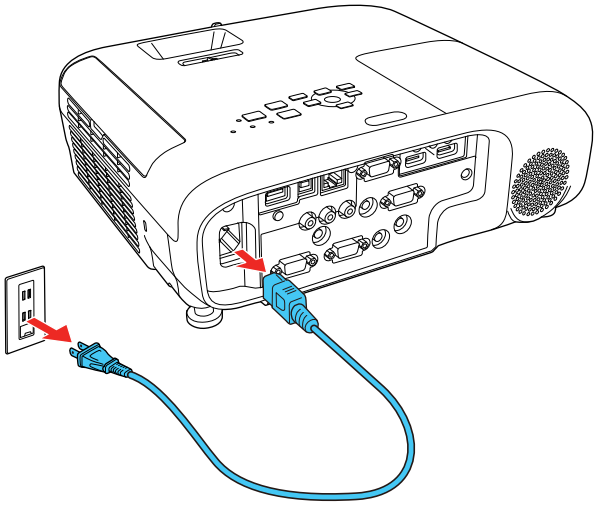
2. Press the power button again. (To leave it on, press any other button.)

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

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

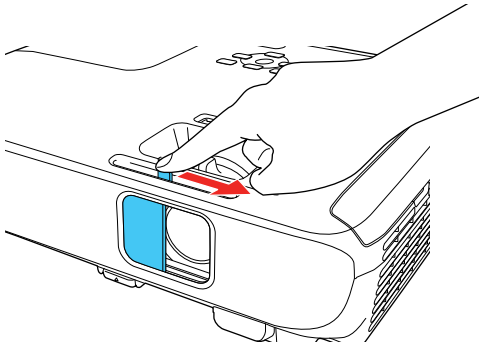
   Caution: Do not turn the projector on immediately after turning it off. Turning the projector on and off frequently may shorten the life of the lamp.

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

Related references

Projector Light Status

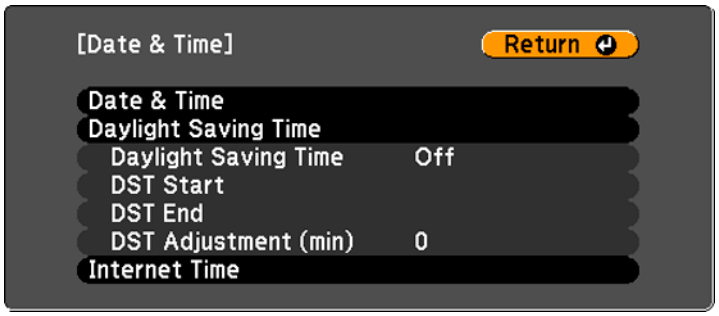
Setting the Date and Time

You can set the date and time for the projector (PowerLite 992F/1288).

Note: If the **Schedule Protection** setting in the Password Protection screen is enabled, you cannot change the date and time settings.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Operation** setting and press **Enter**.
4. Select the **Date & Time** setting and press **Enter**.

You see a screen like this:



5. Select your date and time settings. Then select **Set** and press **Enter** to confirm your changes.
6. When you are finished, press the **Menu** button to exit.

Date and Time Settings

Parent topic: Using Basic Projector Features

Date and Time Settings

Settings	Options	Description
Date & Time	**Date** **Time** **Time Difference (UTC)**	Adjusts the projector's date and time settings **Date** and **Time**: sets the date and time **Time Difference (UTC)**: sets the time difference from Coordinated Universal Time

Settings	Options	Description
Daylight Saving Time	**Daylight Saving Time** **DST Start** **DST End** **DST Adjustment (min)**	Adjusts the daylight saving time settings **Daylight Saving Time**: enables or disables daylight saving time **DST Start** and **DST End**: sets the date and time to start or end daylight saving time **DST Adjustment (min)**: sets the difference between standard and daylight saving time
Internet Time	**Internet Time** **Internet Time Server**	Automatically adjusts the time through an Internet connection **Internet Time**: turn on this setting to update the date and time automatically through an Internet time server **Internet Time Server**: sets the IP address for the Internet time server

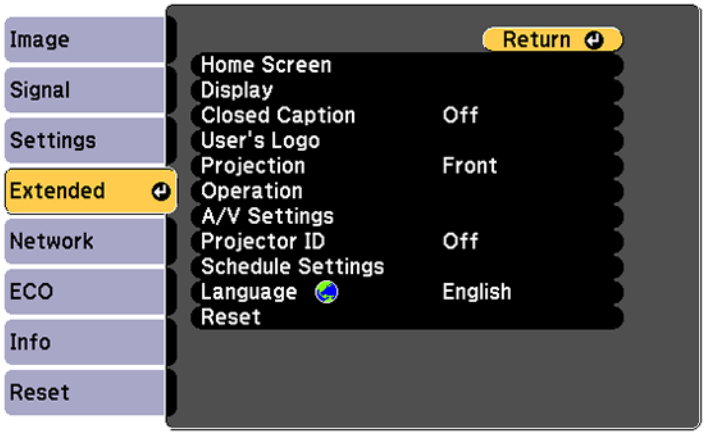
Parent topic: Setting the Date and Time

Selecting the Language for the Projector Menus

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

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

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



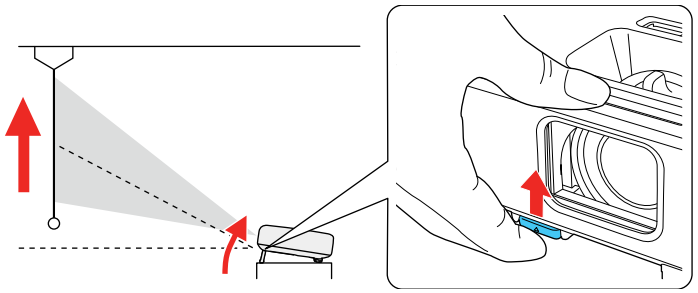
4. Select the **Language** setting and press **Enter**.
5. Select the language you want to use and press **Enter**.
6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

Adjusting the Image Height

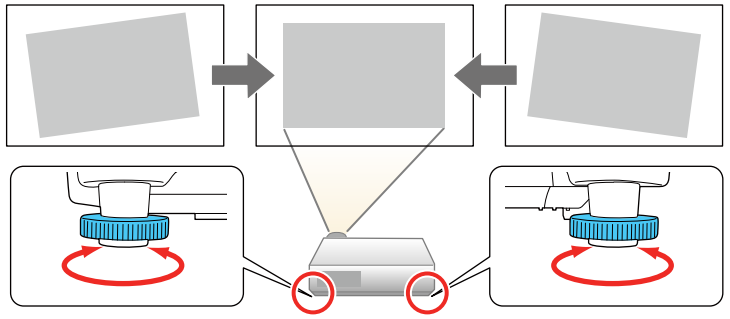
If you are projecting from a table or other flat surface, and the image is too high or low, you can adjust the image height using the projector's adjustable feet.

1. Turn on the projector and display an image.
2. To adjust the front foot, pull up on the foot release lever and lift the front of the projector.



The foot extends from the projector.

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



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

Parent topic: Using Basic Projector Features

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

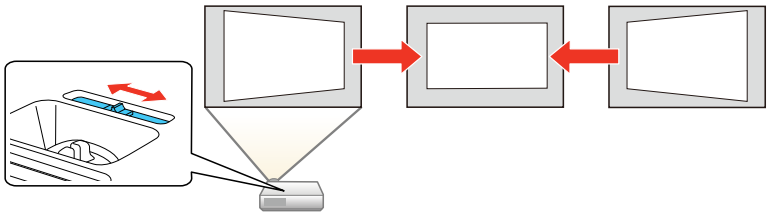
You can use the projector's horizontal keystone slider to correct the shape of an image that is unevenly rectangular horizontally, such as when the projector is placed to the side of the projection area.

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.

1. Turn on the projector and display an image.

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

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



   After correction, your image is slightly smaller.

Parent topic: Image Shape

Correcting Image Shape with the Keystone Buttons

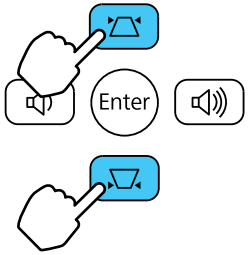
You can use the projector's keystone correction buttons to correct the shape of an image that is unevenly rectangular on the sides.

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.

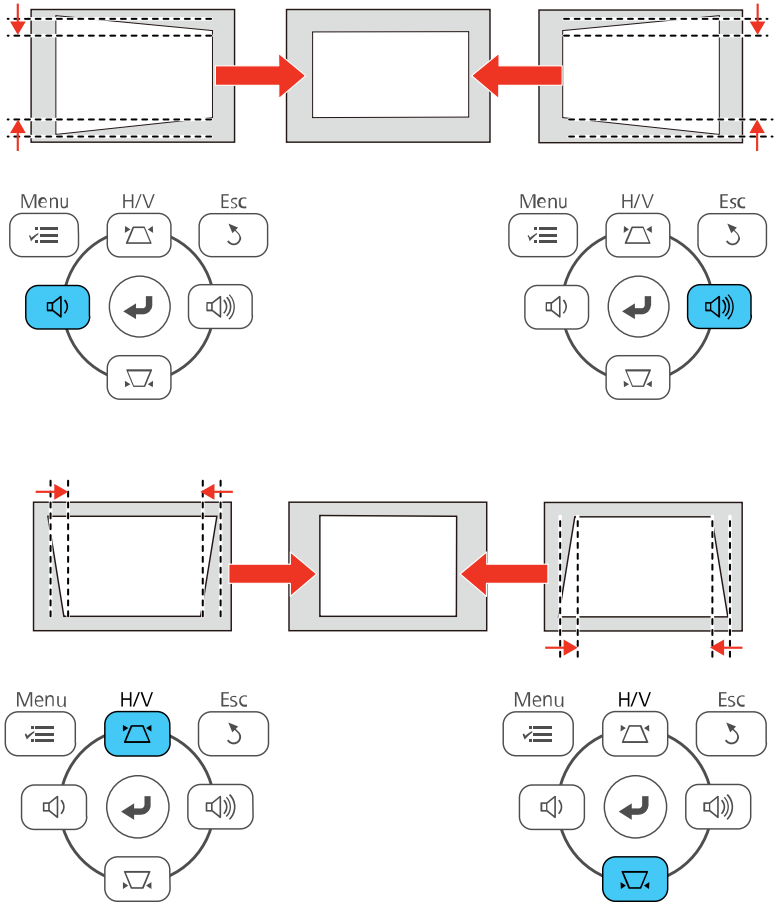
1. Turn on the projector and display an image.

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

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



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



After correction, your image is slightly smaller.

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

Parent topic: Image Shape

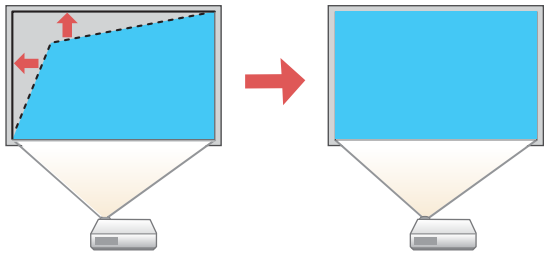
Related references

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.

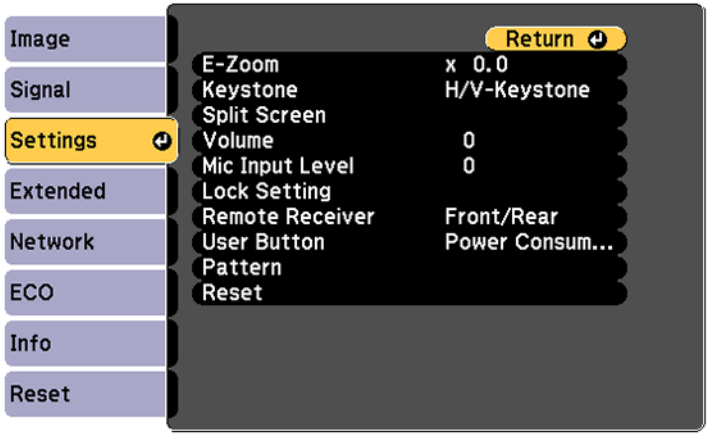


1. Turn on the projector and display an image.

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

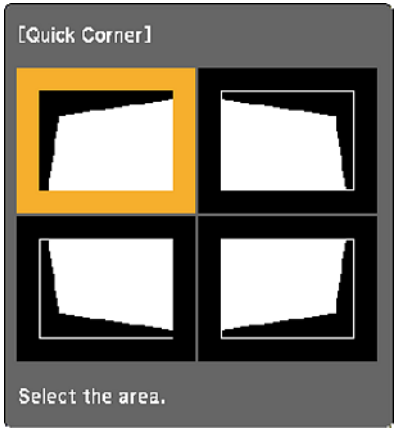
2. Press the **Menu** button.

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.

   You see the Quick Corner adjustment screen:



6. Use the arrow buttons on the projector or remote control to select the corner of the image you want to adjust. Then press ↵ **Enter**.
7. Press the arrow buttons to adjust the image shape as necessary.
8. When you are finished, press **Esc**.

Parent topic: Image Shape

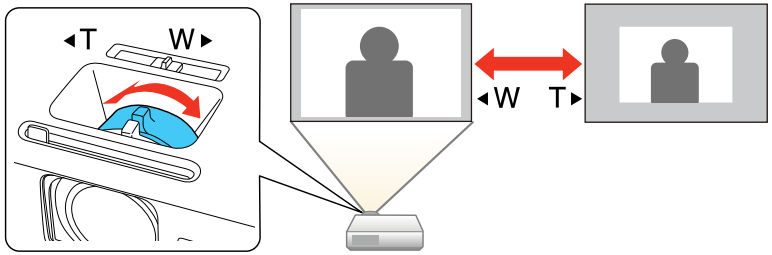
Resizing the Image with the Zoom Ring

You can resize the image using the projector's zoom ring.

1. Turn on the projector and display an image.

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

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



Parent topic: Using Basic Projector Features

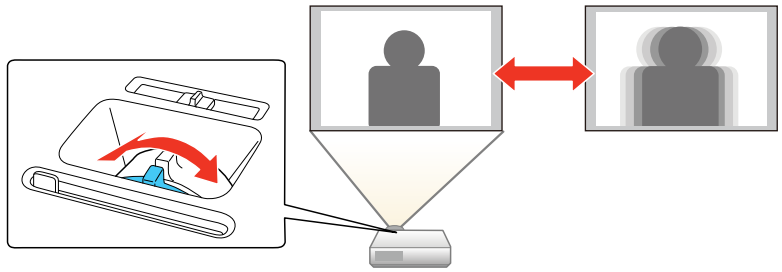
Focusing the Image Using the Focus Ring

You can correct the focus using the focus ring.

1. Turn on the projector and display an image.

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

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



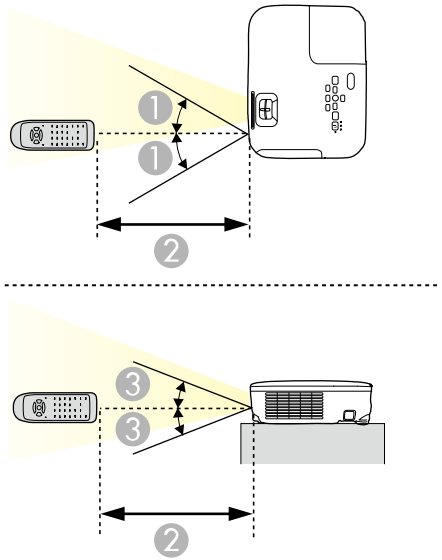
Parent topic: Using Basic Projector Features

Remote Control Operation

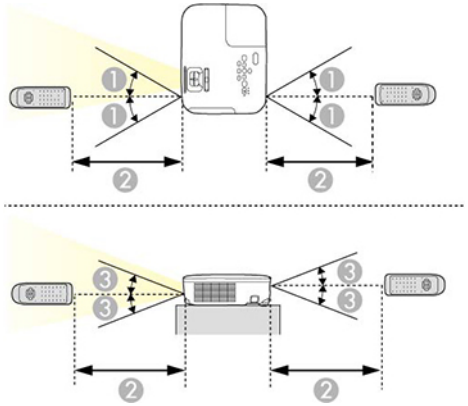
The remote control lets you control the projector from almost anywhere in the room. You can point it at the screen, or the front or back of the projector.

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

PowerLite E20



PowerLite X49/W49/118/119W/982W/992F/1288



1	30°
2	19.7 feet (6 m)
3	15°

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

Parent topic: Using Basic Projector Features

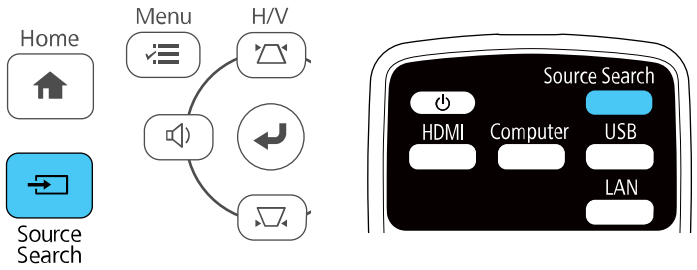
Selecting an Image Source

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

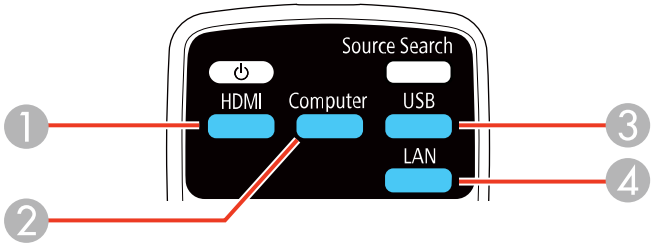
Note: If you turned on the **Auto Source Search** setting in the Extended menu, the projector automatically switches to another detected image source if the signal to the current image source is lost.

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

3. Do one of the following:
   - Press the **Source Search** button on the projector or the **Search** button on the remote control until you see the image from the source you want.

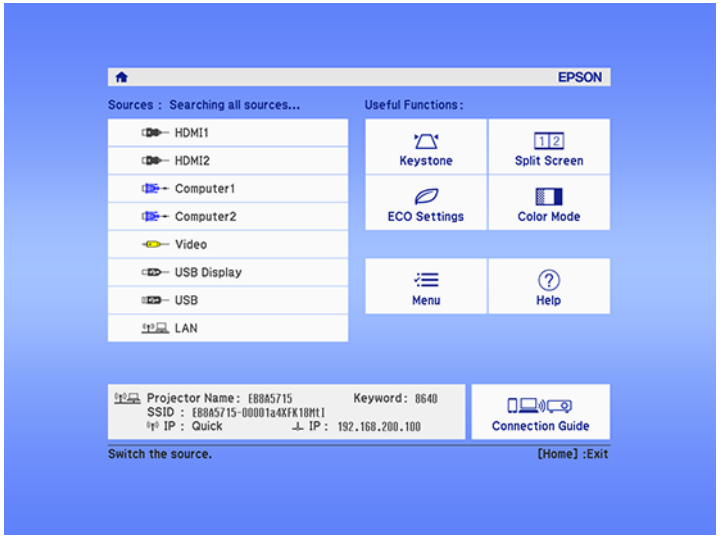


   - Press the button for the source you want on the remote control.



1 HDMI port sources
2 Computer port source
3 USB port sources (computer display and external devices)
4 Network (LAN) port source

- Press the **Home** button on the remote control and select your image 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.

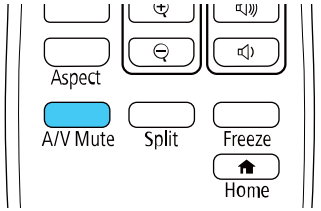
Changing the Projection Mode Using the Remote Control
Changing the Projection Mode Using the Menus

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 5 to 10 seconds.



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

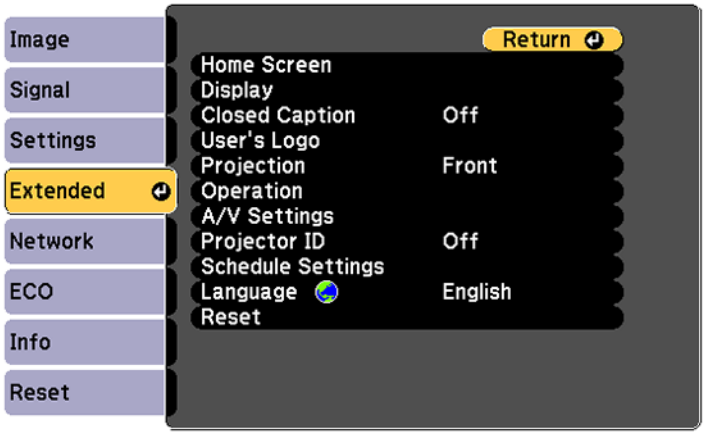
3. To change projection back to the original mode, hold down the **A/V Mute** button for 5 to 10 seconds again.

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.

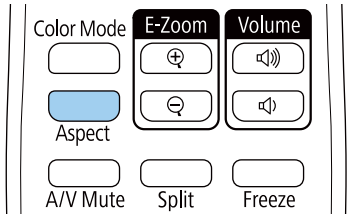
Changing the Image Aspect Ratio
Available Image Aspect Ratios

Parent topic: Using Basic Projector Features

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.

Note: If you are projecting from a computer and parts of the image are cut off, set the **Resolution** setting to **Wide** or **Normal** in the Signal menu.

Parent topic: Image Aspect Ratio

Related references

Input Signal Settings - Signal Menu

Available Image Aspect Ratios

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

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

PowerLite W49/119W/982W/992F/1288

Aspect ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal and the **Resolution** setting.
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
16:9 (PowerLite W49/119W/982W)	Converts the aspect ratio of the image to 16:9.
Full	Displays images using the full width of the projection area, but does not maintain the aspect ratio.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image.
Native	Displays images as is (aspect ratio and resolution are maintained).

PowerLite E20/X49/118

Aspect ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal and the **Resolution** setting.

Aspect ratio setting	Description
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
4:3	Displays images using the full projection area at 4:3 aspect ratio.
16:9	Converts the aspect ratio of the image to 16:9.

Note: The **Auto** aspect ratio setting is available only for HDMI image sources.

Parent topic: Image Aspect Ratio

Color Mode

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

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

Changing the Color Mode
Available Color Modes
Turning On Auto Iris

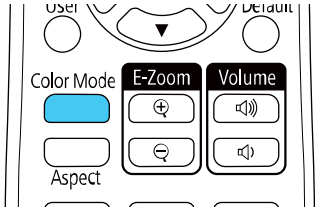
Parent topic: Using Basic Projector Features

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)

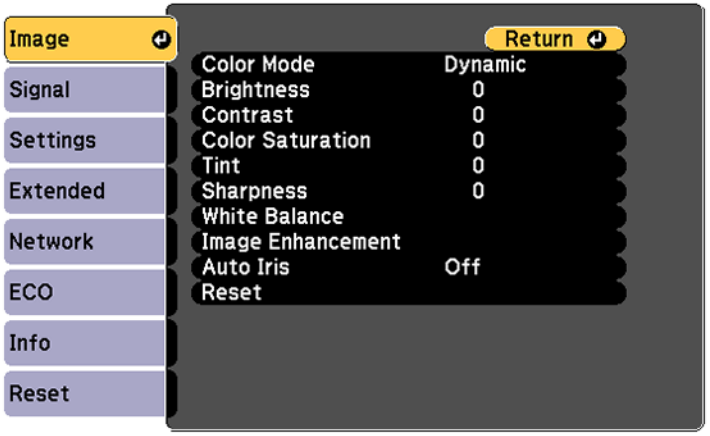
Parent topic: Color Mode

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:
   - **Normal** for standard brightness adjustment.
   - **High Speed** to adjust brightness as soon as the scene changes.

   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

Related references

Projector Setup Settings - Extended Menu

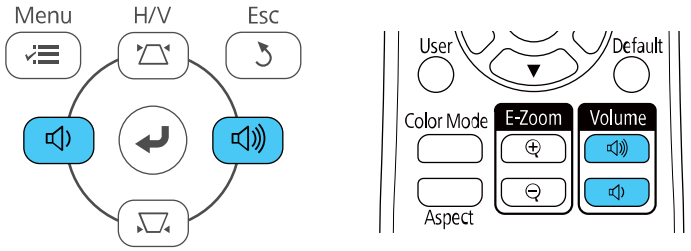
Controlling the Volume with the Volume Buttons

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

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

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

2. To lower or raise the volume, press the **Volume** buttons on the remote control or control panel.



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

Projecting a PC Free Presentation

You can use your projector's PC Free feature whenever you connect a USB device that contains compatible files. This lets you quickly and easily display the contents of the files and control their display using the projector's remote control.

PC Free Precautions
Supported PC Free File Types
Starting a PC Free Slideshow
Starting a PC Free Movie Presentation
PC Free Display Options

Parent topic: Using Basic Projector Features

PC Free Precautions

Note the following precautions when using PC Free features:

- You cannot use a USB key for quick wireless connection for PC Free features.
- Do not disconnect the USB device while it is being accessed; otherwise, PC Free may not operate correctly.
- You may not be able to use the security features on certain USB devices with PC Free features.

- When connecting a USB device that includes an AC adapter, connect the AC adapter to an electrical outlet when you use the USB device with your projector.
- Some commercially available USB card readers may not be compatible with your projector.
- The projector can recognize up to five cards inserted into a connected card reader at a time.
- You cannot correct keystone distortion while projecting in PC Free, so correct the image shape before you begin your presentation.
- You can use the following features while projecting in PC Free:
  - Freeze
  - A/V Mute
  - E-Zoom

Parent topic: Projecting a PC Free Presentation

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. When connecting a USB-compatible hard drive, connect the AC adapter supplied with the drive. PC Free may not work with USB device security features.

File type and extension	Details
Image (.jpg)	Make sure the file is not: • CMYK format • Progressive format • Highly compressed • Above 8192 × 8192 resolution
Image (.bmp)	Make sure the file resolution is not above 1280 × 800

File type and extension	Details
Image (.gif)	Make sure the file is not: • Above 1280 × 800 resolution • Animated • Interlaced
Image (.png)	Make sure the file resolution is not: • Above 1280 × 800* • Interlaced *PowerLite 992F/1288 can project a file with a maximum resolution of 1920 × 1080
Motion JPEG movie (.avi)	Supports only AVI 1.0 Make sure the file is not: • Saved with an audio codec other than PCM or ADPCM • Above 1280 × 720 resolution • Larger than 2GB

Parent topic: Projecting a PC Free Presentation

Starting a PC Free Slideshow

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

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

1. Press the **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 **Enter**.
   - 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**.
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

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 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 **Enter**.
   - 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**.
3. To play back a movie, press the arrow buttons to highlight the file and press **Enter**.

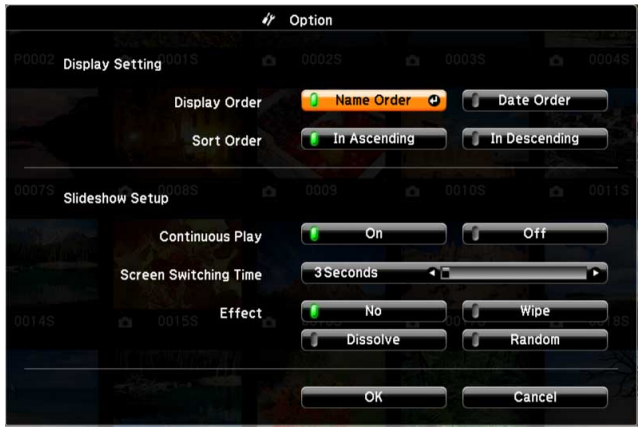
   Note: If any file names are longer than 8 characters or include unsupported symbols, the file names may be shortened or changed only in the screen display. If you want to play back all the movies in a folder in sequence, select the **Slideshow** option at the bottom of the screen.

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
Display Order	**Name Order**	Displays files in name order
	Date Order	Displays files in date order

Setting	Options	Description
Sort Order	**In Ascending**	Sorts files in first-to-last order
	In Descending	Sorts files in last-to-first order
Continuous Play	**On**	Displays a slideshow continuously
	Off	Displays a slideshow one time through
Screen Switching Time	**No**	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
Effect	**No**	No effect
	Wipe	Transitions between images with a wipe effect
	Dissolve	Transitions between images with a dissolve effect
	Random	Transitions between images using a random variety of effects

Parent topic: Projecting a PC Free Presentation

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
Scheduling Projector Events
Copying Menu Settings Between Projectors

Shutting Off the Picture and Sound Temporarily

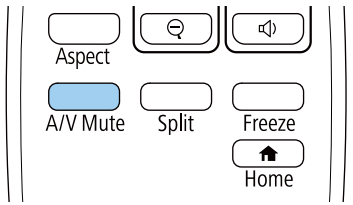
You can temporarily turn off the projected picture and sound if you want to redirect your audience's attention during a presentation. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

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 turn this setting on and off using the projector's ECO menu.

Note: The lamp is still lit while using A/V Mute and the lamp hours will continue to accumulate.

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 the **A/V Mute** button 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

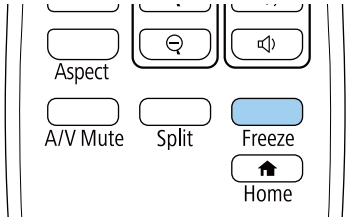
Related tasks

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.

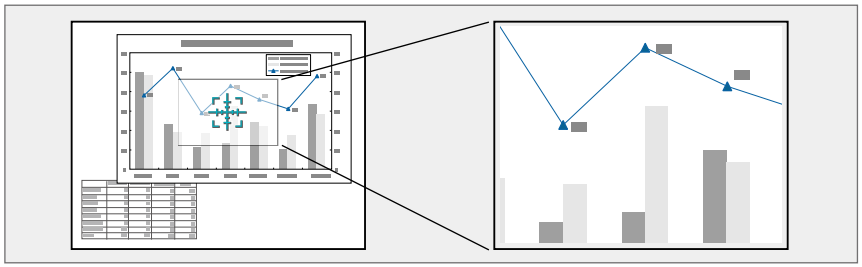


2. To restart the video action in progress, press **Freeze** again.

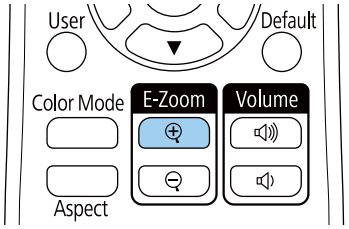
Parent topic: Adjusting Projector Features

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.



   The center of the projected image is enlarged.

2. Use the following buttons on the remote control to adjust the zoomed image:
   - Use the arrow buttons to position 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 the **Default** button.

Parent topic: Adjusting Projector Features

Projector Security Features

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

- 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.
- **Schedule Protection** password prevents anyone from changing the projector's time or schedule settings (PowerLite 992F/1288).
- **Screen Mirroring Protec.** password prevents anyone from changing the projector's Screen Mirroring settings (PowerLite 992F/1288).

Setting a Password
Selecting Password Security Types
Entering a Password to Use the Projector
Saving a User's Logo Image to Display

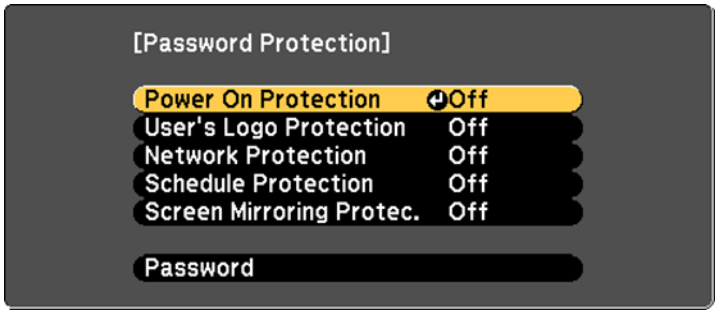
Parent topic: Projector Security Features

Setting a Password

To use password security, you must set a password.

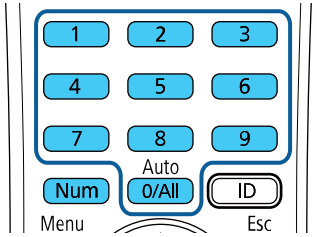
Note: The default password is set to **0000**.

1. Hold down the **Freeze** button on the remote control for about 5 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.

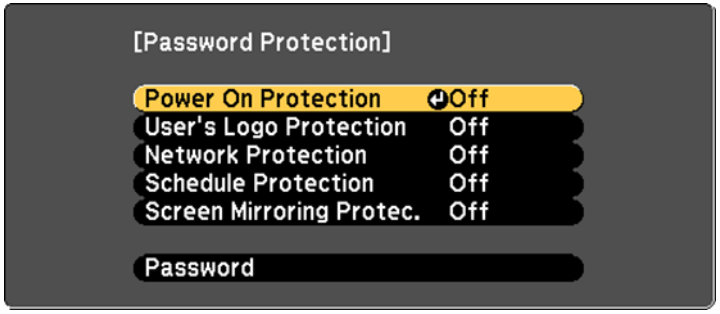
Parent topic: Password Security Types

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 5 seconds or until the menu appears.

- To prevent unauthorized use of the projector, select **Power On Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- 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**.
- To prevent changes to network settings, select **Network Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- To prevent changes to the projector's time or schedule settings, select **Schedule Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
- To prevent changes to the projector's Screen Mirroring settings, select **Screen Mirroring Protec.**, 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.

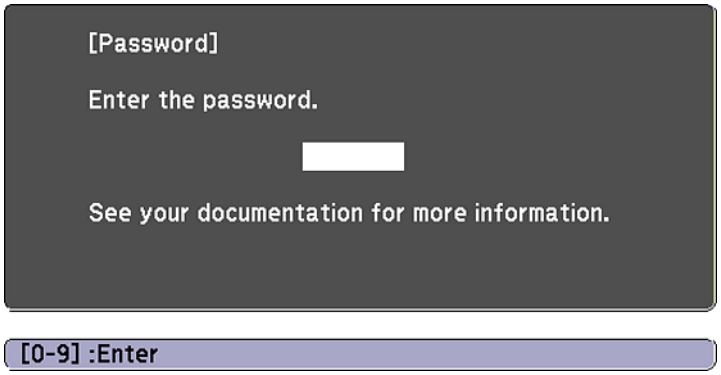
Parent topic: Password Security Types

Related tasks

Setting a Password

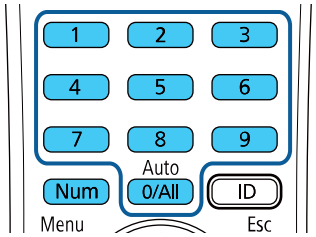
Entering a Password to Use the Projector

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.



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.



Note: The default password is **0000**.

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 three times in succession, you see a message telling you that the projector is locked. After the message is displayed for 5 minutes, the projector enters standby mode. Unplug the projector, plug in the power cord, and turn on the projector. You see a prompt to enter the password.
- If you continue to enter an incorrect password many 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 (U.S. and Canada)

Saving a User's Logo Image to Display

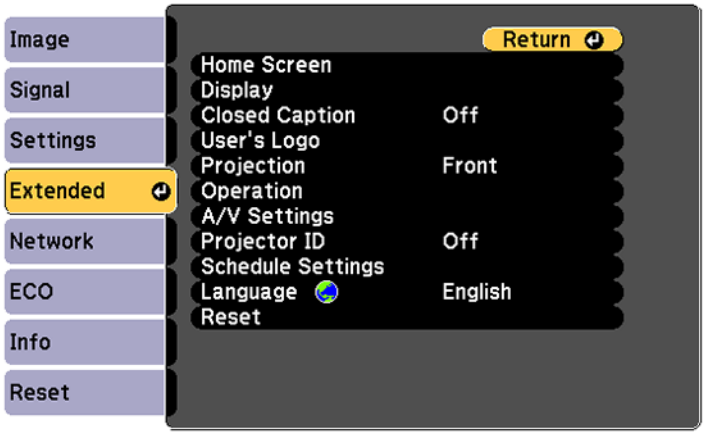
You can transfer an image to the projector and then display it whenever the projector turns on. You can also display the image when the projector is not receiving an input signal or when you temporarily stop projection (using the A/V Mute feature). This transferred image is called the User's Logo screen.

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.

Note: When you copy the menu settings from one projector to another using the batch setup feature, the user logo is also copied. Do not include any information in the user logo that you do not want to share between multiple projectors.

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**.
4. Select **Start Setting** and press **Enter**.
5. A prompt appears asking if you want to use the displayed image as the user's logo. Select **Yes** and press **Enter**.
6. A prompt appears again asking if you want to use the displayed image as the user's logo. Select **Yes** and press **Enter**.

   You see a completion message.
7. Press **Esc** to return to the **Extended** menu.
8. Select **Display** and press **Enter**.
9. 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.

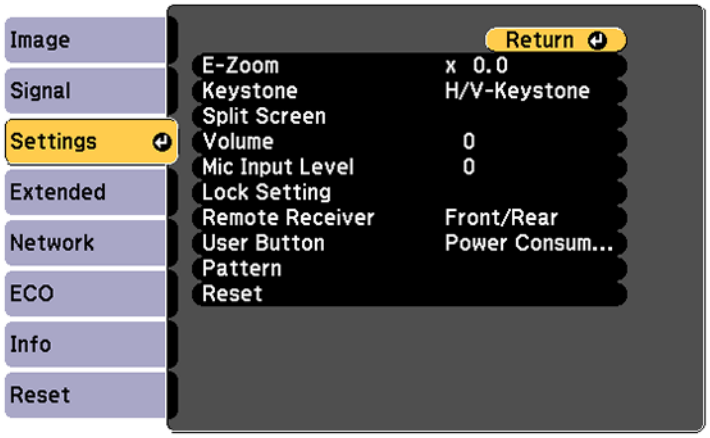
Parent topic: Password Security Types

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.

Note: The projector can still be operated using the remote control.

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



3. Select **Lock Setting** and press **Enter**.
4. Select the **Control Panel Lock** setting and press **Enter**.
5. 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.
6. Select **Yes** and press **Enter**.

Unlocking the Projector's Buttons

Parent topic: Projector Security Features

Unlocking the Projector's Buttons

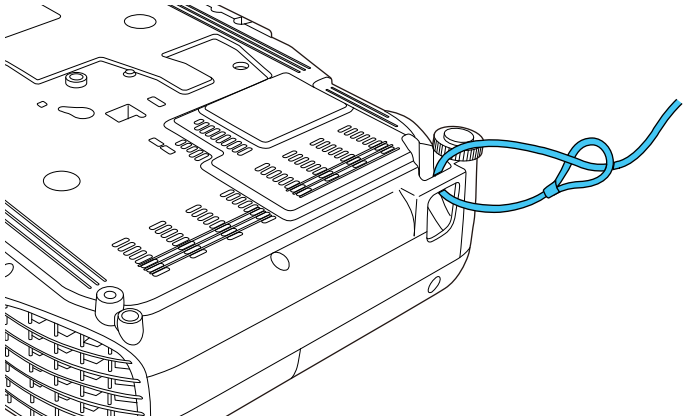
If the projector's buttons have been locked, hold the ↵ **Enter** button on the projector's control panel for 7 seconds to unlock them. You can also set the **Control Panel Lock** setting to **Off** in the Settings menu.

Parent topic: Locking the Projector's 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

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.

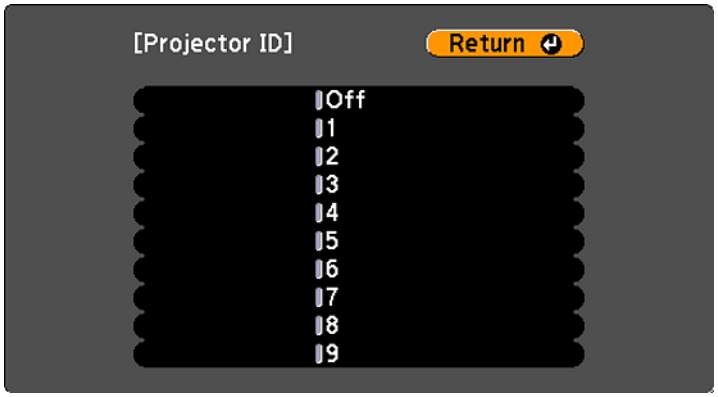
Setting the Projector ID

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. Press 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.

Note: If you don't know the projector's ID, aim the remote control at the projector and press the **ID** button to temporarily display the projector's ID on the screen.

Parent topic: Projector Identification System for Multiple Projector Control

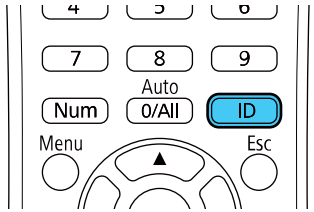
Setting the Remote Control ID

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 control at the projector and press the **ID** button to temporarily display the projector's ID on the screen. If you turn off the **Projector ID** setting, the remote control will operate the projector regardless of the ID selected on the remote.

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.

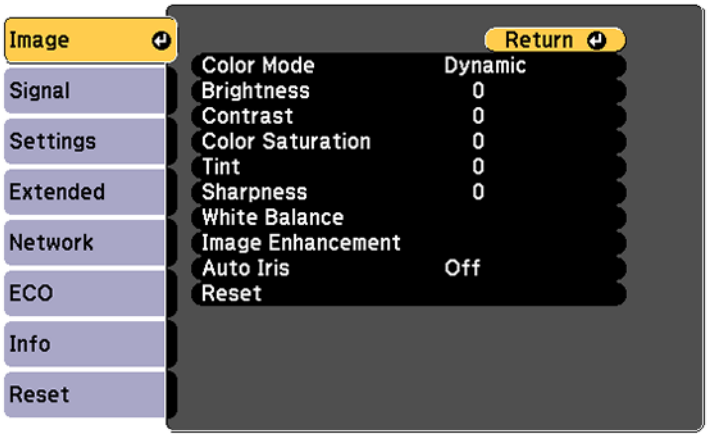
Parent topic: Projector Identification System for Multiple Projector Control

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. Make sure all projectors are using the same **Color Mode** setting.
4. Set the remote control ID to match the first projector.
5. Press the **Menu** button, select the **Image** menu, and press ↵ **Enter**.



6. Select settings as necessary.
7. 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.

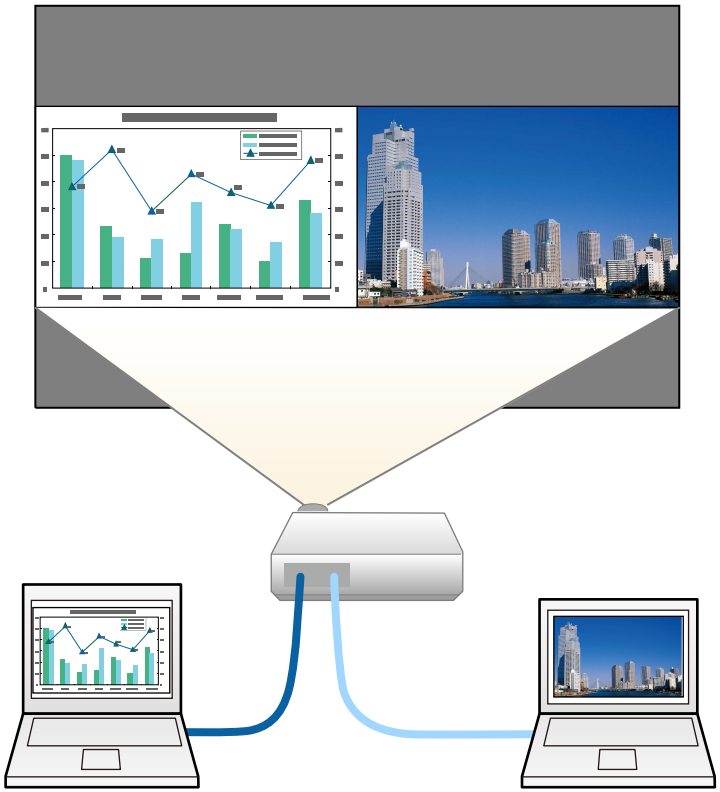
Parent topic: Projector Identification System for Multiple Projector Control

Related concepts

Color Mode

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.



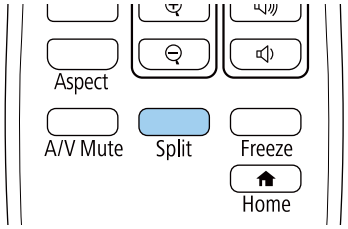
Note: While you use the split screen feature, other projector features may not be available and some settings may be automatically applied to both images.

Note: You cannot use split screen with the following input source combinations:

- Computer1 and Computer2
- Computer1/Computer2 and Video
- HDMI1/HDMI2 and Screen Mirroring

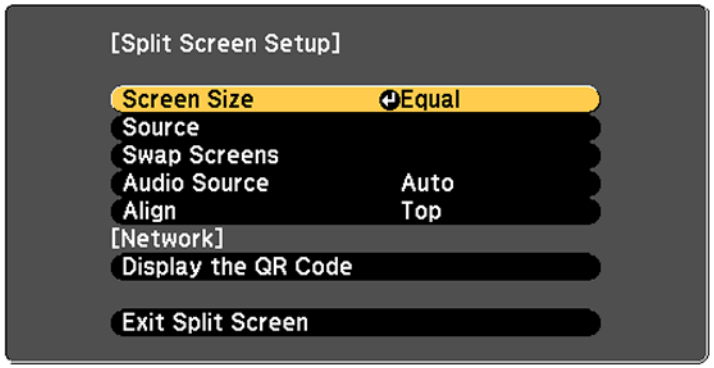
- HDMI1 and HDMI2
- USB Display and USB/LAN
- USB and LAN

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.
7. To align the projected images, select the **Align** setting, press **Enter**, select the setting, press **Enter**, and press **Menu** to exit.
8. To exit the split screen feature, press the **Split** or **Esc** button.

Parent topic: Adjusting Projector Features

Scheduling Projector Events

You can save a projector command, such as turning the projector on or off or switching input sources, as an "event." You can schedule when you want the projector to automatically execute the command (PowerLite 992F/1288).

Caution: Do not place flammable objects in front of the lens. If you schedule the projector to turn on automatically, flammable objects in front of the lens could catch on fire.

Note: The **Schedule Protection** setting in the Password Protection menu must be turned off to schedule an event.

Saving a Scheduled Event
Viewing Scheduled Events
Editing a Scheduled Event

Parent topic: Adjusting Projector Features

Related tasks
Selecting Password Security Types

Saving a Scheduled Event

You can select projector commands you want to perform and schedule them as an event.

1. Set the date and time in the **Date & Time** menu.
2. Press the **Menu** button.

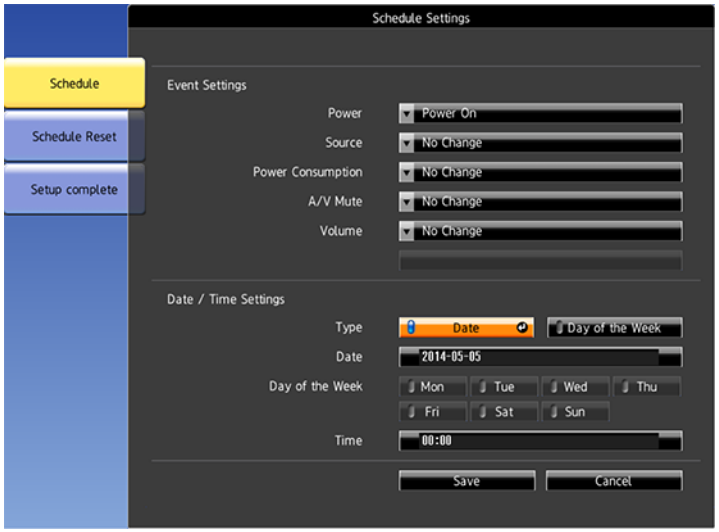
3. Select the **Extended** menu and press **Enter**.
4. Select the **Schedule Settings** setting and press **Enter**.

   You see a screen like this:



5. Select the **Schedule** menu and press **Enter**.
6. Select **Add New** and press **Enter**.

   You see a screen like this:



7. In the Event Settings section, select the events you want to have occur. (Select **No Change** for events that you do not want to occur.)
8. In the Date/Time Settings section, set the date and time for the scheduled events to occur.
9. When you are finished, select **Save** and press **Enter**.
10. To schedule more events, repeat the previous steps as necessary.
11. Select **Setup complete** and select **Yes** to save your changes.

Parent topic: Scheduling Projector Events

Related tasks

Setting the Date and Time

Viewing Scheduled Events

You can view any currently scheduled events.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Schedule Settings** setting and press **Enter**.

   You see a screen like this:



The colored boxes in the calendar indicate the following about the scheduled events:

- One-time event
- Recurring event
- Communication is on/off

Event is invalid

Parent topic: Scheduling Projector Events

Editing a Scheduled Event

You can edit any currently scheduled event.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Schedule Settings** setting and press **Enter**.

   You see a screen like this:



4. Press the left or right arrow buttons to highlight the date on the calendar containing the scheduled event you want to edit.
5. Press the up or down arrow buttons to highlight the event you want to edit, and press **Esc**.
6. Select one of the following:
   - **On/Off** to enable or disable the selected event.
   - **Edit** to edit the settings for the selected event.
   - **Clear** to delete the selected event.
   - **Add New** to add a new scheduled event.
7. When you are finished, select **Return** and press **Enter**.

8. Select **Setup complete** and select **Yes** to save your changes.

Note: To delete all scheduled events, select **Schedule Reset** and select **Yes**.

Parent topic: Scheduling Projector Events

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: Copy the projector's settings before you adjust the projected image using the projector's image adjustment settings. 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 Notifications and Others menus

The following settings will not transfer between projectors if you set the **Batch Setup Range** setting to **Limited**:

- Password Protection settings
- Network menu settings other than those in the Notifications and Others menus

Note: In addition to the methods covered in this section, you can also copy and transfer settings to multiple projectors over a network using the Epson Projector Management software. See the online *Epson Projector Management Operation Guide* for instructions. You can download the latest software and documentation from the Epson website.

Saving Settings to a USB Flash Drive
Transferring Settings from a USB Flash Drive
Saving Settings to a Computer
Transferring Settings from a Computer

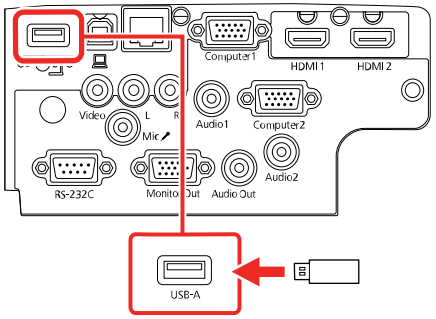
Parent topic: Adjusting Projector Features

Saving Settings to a USB Flash Drive

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

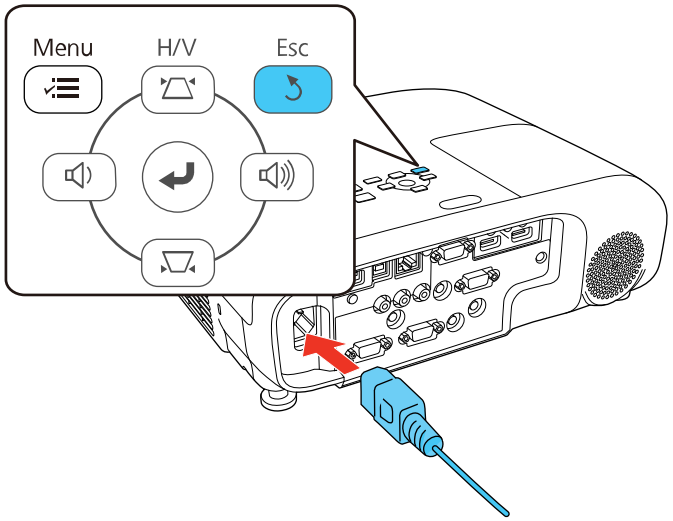
Note: Use an empty flash drive. If the drive contains other files, the transfer may not complete correctly. The flash drive must use the FAT format and cannot have any security features.

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 or your settings may not be saved correctly.

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 all of the projector 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

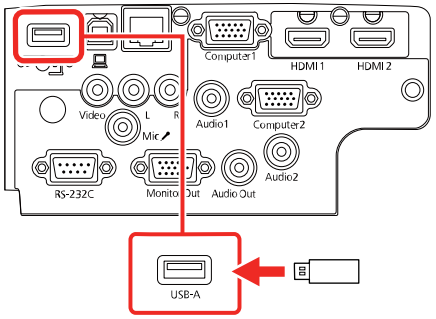
Transferring Settings from a USB Flash Drive

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.

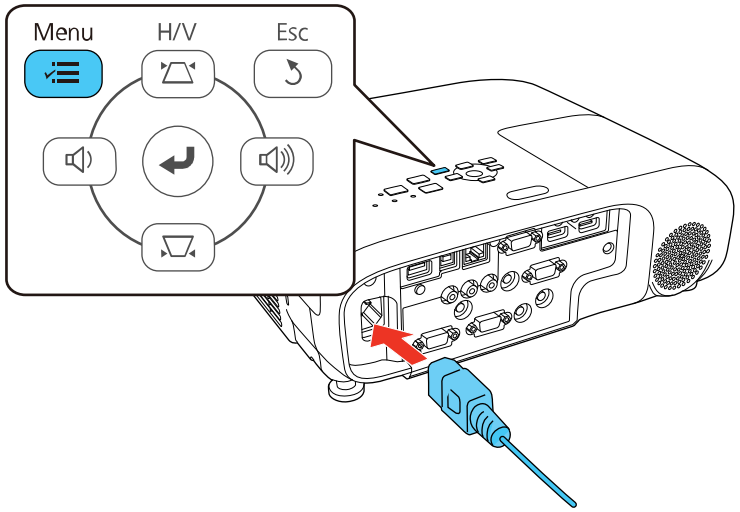
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

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 or your settings may not be saved correctly.

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 all of the projector 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

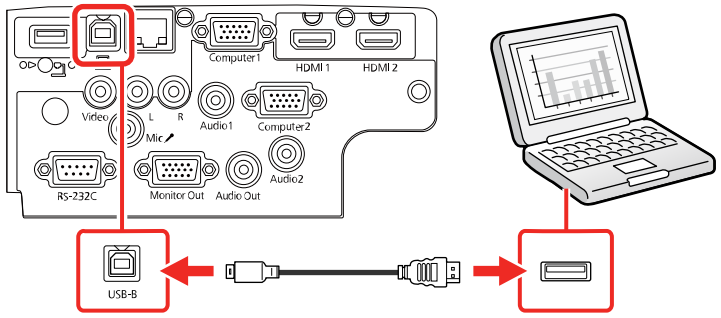
Saving Settings to a Computer

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

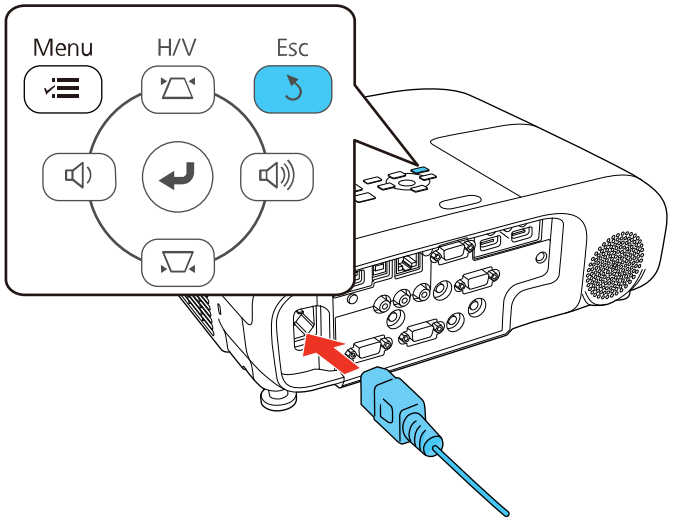
Your computer must be running one of the following operating systems:

- Windows 7
- Windows 8.x
- Windows 10
- OS X 10.11.x
- macOS 10.12.x
- macOS 10.13.x
- macOS 10.14.x
- macOS 10.15.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 all of the projector 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**, **Windows Explorer**, or **File Explorer** utility. Right-click the name of your projector (listed as a removable disk) and select **Eject**.
   - **Mac:** 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

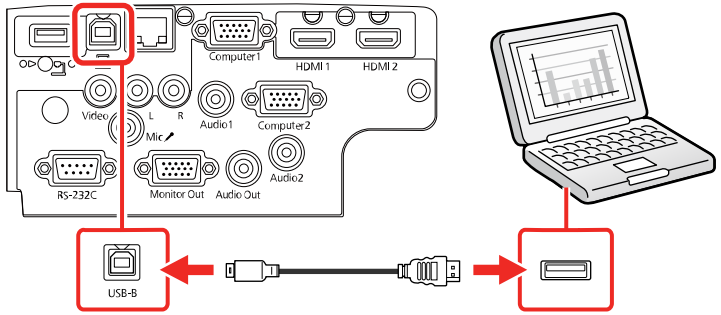
After saving projector settings to a computer, you can transfer them to another projector of the same model.

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

- Windows 7
- Windows 8.x
- Windows 10
- OS X 10.11.x
- macOS 10.12.x
- macOS 10.13.x
- macOS 10.14.x
- macOS 10.15.x

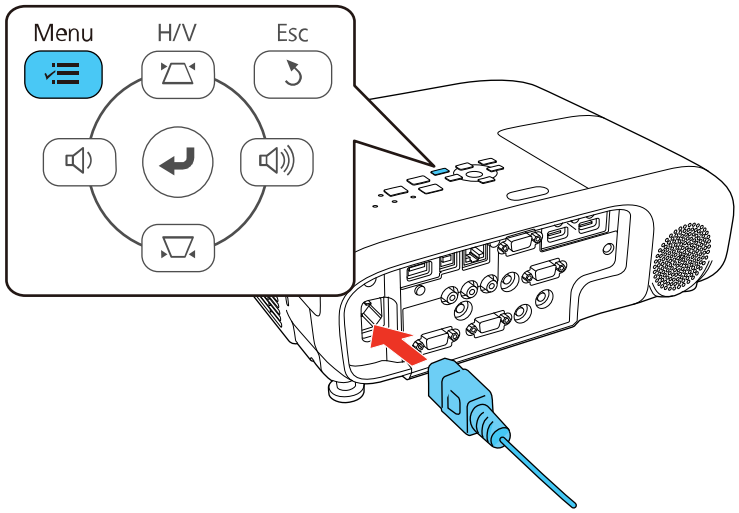
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

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 all of the projector 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**, **Windows Explorer**, or **File Explorer** utility. Right-click the name of your projector (listed as a removable disk) and select **Eject**.
   - **Mac:** Drag the removable disk icon for your projector from the desktop into the trash.

   All the 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

Adjusting the Menu Settings

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

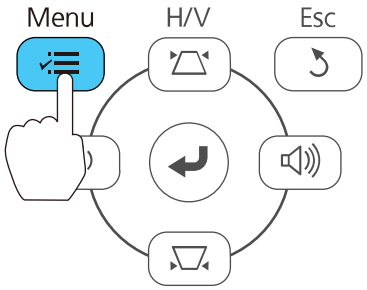
Note: Not all settings are available, depending on your projector model.

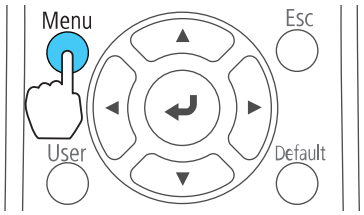
Using the Projector's Menus
Image Quality Settings - Image Menu
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu
Projector Setup Settings - Extended Menu
Projector Network Settings - Network Menu
Projector Setup Settings - ECO Menu
Projector Information Display - Info Menu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

Using the Projector's Menus

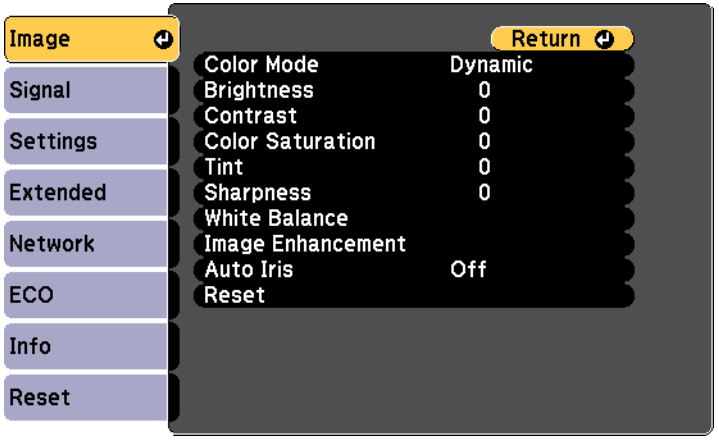
You can use the projector's menus to adjust the settings that control how your projector works. The projector displays the menus on the screen.

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.

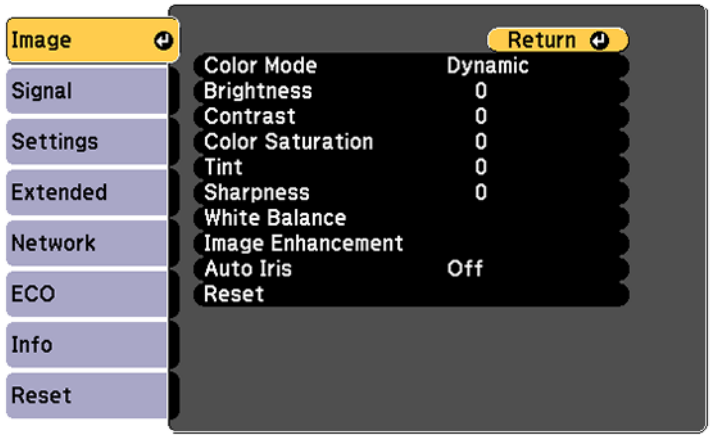
   Note: The available settings depend on the current input source, resolution, your projector model, or other menu settings.

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

Parent topic: Adjusting the Menu Settings

Image Quality Settings - Image Menu

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



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

Setting	Options	Description
Color Mode	See the list of available Color Modes	Adjusts the vividness of image colors for various image types and environments
Brightness	Varying levels available	Lightens or darkens the overall image
Contrast	Varying levels available	Adjusts the difference between light and dark areas of the image
Color Saturation	Varying levels available	Adjusts the intensity of the image colors
Tint	Varying levels available	Adjusts the balance of green to magenta tones in the image
Sharpness	Varying levels available	Adjusts the sharpness or softness of image details
White Balance	**Color Temp.** **Custom**	Adjusts the overall tint of the image **Color Temp.**: Sets the color temperature based on the Color Mode you selected. Higher value tints the image blue; lower value tints the image red. **Custom**: Adjusts the intensity of individual hues in the image; provides RGB-offset and gain controls for professional level color calibration

Setting	Options	Description
Image Enhancement	**Noise Reduction**	Reduces flickering in analog images
	Deinterlacing (for interlaced signal 480t/576t/1080t input)	Sets whether to convert interlaced to progressive signals for certain video image types **Off**: for fast-moving video images **Video**: for most video images **Film/Auto**: for movies, computer graphics, and animation
Auto Iris	**Off** **Normal** **High Speed**	Adjusts the projected luminance based on the image brightness when the **Dynamic** or **Cinema** Color Modes are selected; **High Speed** sets faster luminance correction for fast-moving images
Reset	—	Resets all settings in the **Image** menu to their defaults

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

Parent topic: Adjusting the Menu Settings

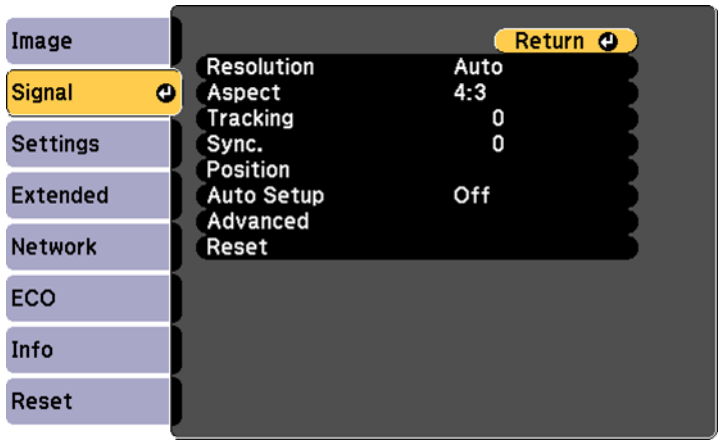
Related references

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.

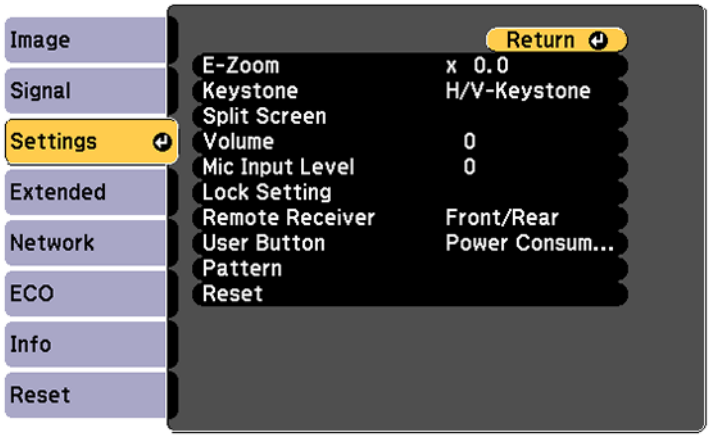
Setting	Options	Description
Resolution	**Auto** **Wide** **Normal**	Sets the input signal resolution if not detected automatically using the **Auto** option
Aspect	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio) for the selected input source
Tracking	Varying levels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

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 when using an HDMI input source
Advanced	**Video Range**	Sets the video range to match the setting of the device connected to the HDMI input port.
	Video Signal	Specifies the signal type from the input sources connected to the video ports. Select **Auto** to detect signals automatically.
Reset	—	Resets all settings in the **Signal** menu to their defaults

Parent topic: Adjusting the Menu Settings

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
E-Zoom	Varying levels available	Adjusts the size of the projected image

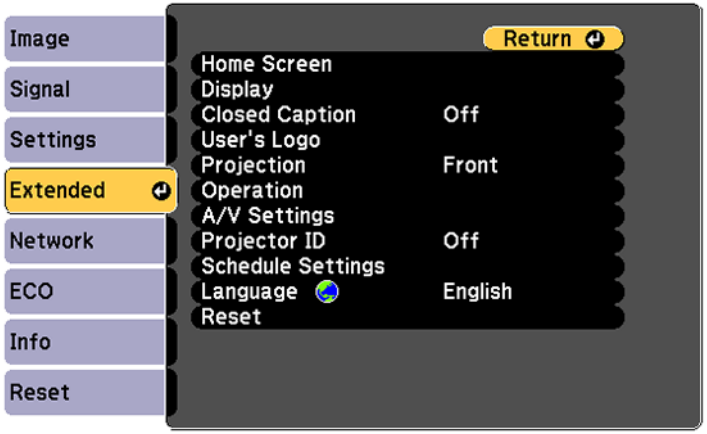
Setting	Options	Description
Keystone	**H/V Keystone** **Quick Corner**	Adjusts image shape to rectangular (horizontally and vertically) **H/V Keystone**: lets you manually correct horizontal and vertical sides **Auto V-Keystone**: turns automatic correction on or off (not available on PowerLite E20) **H-Keystone Adjuster**: turns horizontal keystone slider feature on or off **Quick Corner**: select to correct image shape and alignment using an on-screen display
Split Screen	**Screen Size** **Source** **Swap Screens** **Audio Source** **Align** **Display the QR Code** **Exit Split Screen**	Divides the viewing area horizontally and displays two images side-by-side (press **Esc** to cancel split screen display)
Volume	Varying levels available	Adjusts the volume of the projector's speaker system; you can set the volume level for each input source separately
Mic Input Level	Varying levels available	Adjusts the volume of the projector's speaker system when you use a connected microphone

Setting	Options	Description
Lock Setting	**Control Panel Lock**	Controls projector button locking to secure the projector **Full Lock**: locks all buttons **Partial Lock**: locks all buttons except the power button **Off**: no buttons locked
Remote Receiver	**Front/Rear** **Front** **Rear** **Off**	Limits reception of remote control signals by the selected receiver; **Off** turns off all receivers
User Button	**Power Consumption** **Info** **Deinterlacing** **Closed Caption** **Test Pattern** **Resolution** **Mic Input Level** **Pattern Display** **Display the QR Code**	Assigns a menu option to the **User** button on the remote control for one-touch access
Pattern	**Pattern Display** **Pattern Type** **User Pattern** **Test Pattern**	Selects various pattern display options
Reset	—	Resets all settings in the **Settings** menu to their defaults

Parent topic: Adjusting the Menu Settings

Projector Setup Settings - Extended Menu

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



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

Setting	Options	Description
Display	**Messages** **Display Background** **Startup Screen** **A/V Mute**	Selects various display options **Messages**: controls whether messages are displayed on the screen **Display Background**: selects the screen color or logo to display when no signal is received **Startup Screen**: controls whether a special screen appears when the projector starts up **A/V Mute**: selects the screen color or logo to display when A/V Mute is turned on
Closed Caption	**Off** **CC1** **CC2**	Controls use of closed captions and selects the closed caption type (closed captions are visible only for NTSC signals connected through the **Video** port; not available in all countries or regions)
User's Logo	—	Creates a screen that the projector displays to identify itself and enhance security
Projection	**Front** **Front/Ceiling** **Rear** **Rear/Ceiling**	Selects the way the projector faces the screen so the image is oriented correctly

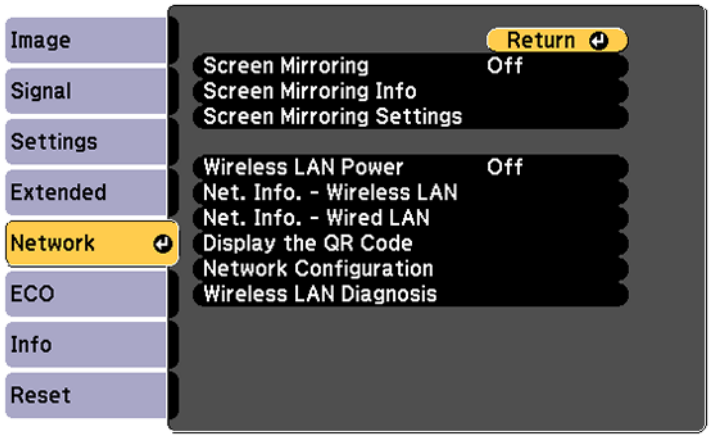
Setting	Options	Description
Operation	**Direct Power On** **High Altitude Mode** **Auto Source Search** **Auto Power On** **HDMI EQ Setting** **Advanced** **Date & Time** (PowerLite 992F/1288)	Selects various operation options **Direct Power On**: turns on the projector when you plug it in **High Altitude Mode**: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m) **Auto Source Search**: automatically detects the image signal being input when the projector is turned on **Auto Power On**: automatically turns on the projector when it receives an image signal (available only when **Standby Mode** is set to **Communication On**) **HDMI EQ Setting**: adjusts the HDMI input signal level depending on the connected device **Advanced**: choose to set a location to save error files, or copy all projector menu settings **Date & Time**: adjusts the projector's system time and date settings
A/V Settings	**A/V Output** **Audio Settings**	Selects the following when the projector is in standby mode (turned off) and the **Standby Mode** setting in the ECO menu is set to **Communication On**: **A/V Output**: **Always On** outputs sound and images to external equipment when the projector is turned off; images must be from an analog signal (VGA only through the **Monitor Out** port) **Audio Output**: selects the audio source for sound; **Auto** outputs sound from the last selected image source; **HDMI Audio Output** selects the audio source for HDMI images

Setting	Options	Description
Projector ID	**Off** **1** through **9**	Sets the projector to a particular ID number which allows you to use a remote control to individually control projectors
Schedule Settings (PowerLite 992F/1288)	**Schedule** **Schedule Reset** **Setup Complete**	Schedules projector events to occur automatically at selected dates and times
Language	Various languages available	Selects the language for projector menu and message displays (not changed by **Reset** option)
Reset	—	Resets all settings in the **Extended** menu to their defaults, except for the following settings: **User's Logo**, **Projection**, **High Altitude Mode**, **Auto Source Search**, **HDMI EQ**, **Date & Time**, **A/V Output**, **Projector ID**, **Schedule Settings**, and **Language**

Parent topic: Adjusting the Menu Settings

Projector Network Settings - Network Menu

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



Setting	Options	Description
Screen Mirroring (PowerLite 992F/1288)	**Off** **On**	Turns on screen mirroring mode
Screen Mirroring Info (PowerLite 992F/1288)	**Display Name** **MAC Address** **Region Code** **Channel** **Connected Device**	Displays screen mirroring status and details
Screen Mirroring Settings (PowerLite 992F/1288)	Various screen mirroring options	Configures your screen mirroring settings; only available when **Screen Mirroring On** is turned on
Wireless LAN Power	**On** **Off**	Turns on wireless LAN mode
Net. Info - Wireless LAN	**Connection mode** **Wireless LAN Sys.** **Antenna Level** **Projector Name** **SSID** **DHCP** **IP Address** **Subnet Mask** **Gateway Address** **MAC Address** **Region Code** **IPv6**	Displays wireless network status and details

Setting	Options	Description
Net. Info - Wired Lan	**Projector Name** **DHCP** **IP Address** **Subnet Mask** **Gateway Address** **MAC Address** **IPv6 Address (Manual)** **IPv6 Address (Auto)**	Displays wired network status and details
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

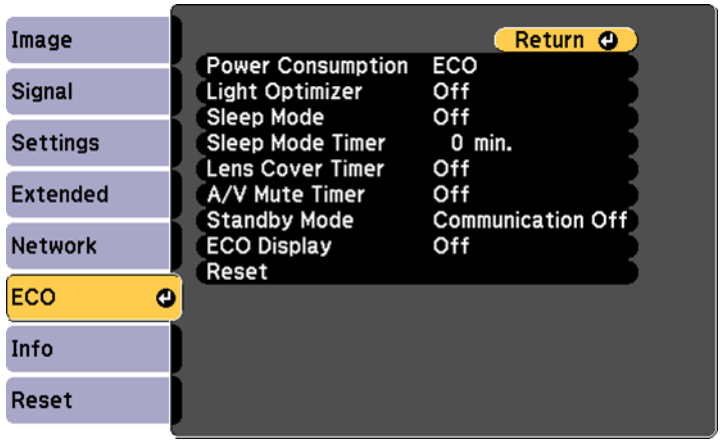
Parent topic: Adjusting the Menu Settings

Related tasks

Selecting Wired Network Settings

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.



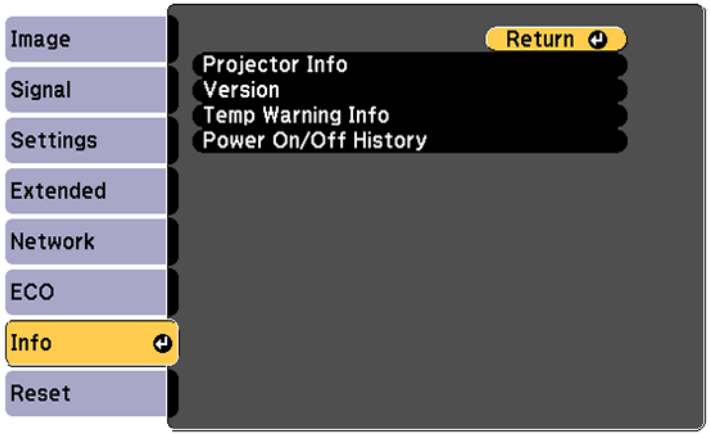
Setting	Options	Description
Power Consumption	**High** **Medium** **ECO**	Selects the brightness mode of the projector lamp. Select **ECO** to reduce lamp brightness and fan noise, and save power and lamp life. **Note:** You cannot select these settings when operating your projector at high altitude or high temperature.
Light Optimizer	**On** **Off**	When **Power Consumption** is set to **High** or **Medium** and **Auto Iris** is turned off, the lamp brightness is adjusted based on the projected image; you can set this option for each color mode

Setting	Options	Description
Sleep Mode	**On** **Off**	Automatically places the projector in standby mode after an interval of inactivity
Sleep Mode Timer	1 to 30 minutes	Sets the interval for Sleep Mode
Lens Cover Timer	**On** **Off**	Automatically turns off the projector after 30 minutes if the lens cover is closed
A/V Mute Timer	**On** **Off**	Automatically turns off the projector after 30 minutes if **A/V Mute** is enabled
Standby Mode	Various options depending on your product's wired or wireless LAN support	**Communication On**: indicates that the projector can be monitored and controlled over a network when the projector is in standby mode (available when **A/V Output** is set to **Always On** or **While Projecting**) **Port**: selects the port to use from Wired LAN or Wireless LAN when the **Communication On** setting is enabled
ECO Display	**On** **Off**	Displays a leaf icon in the bottom left corner of the projected screen to indicate the power-saving status when the lamp brightness changes
Reset	—	Resets all settings in the **ECO** menu to their defaults

Parent topic: Adjusting the Menu Settings

Projector Information Display - Info Menu

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



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
Projector Info	See the table below
Version	Displays the projector's firmware version
Temp Warning Info	Displays various high temperature warnings
Power On/Off History (PowerLite 992F/1288)	Displays the projector's power on and power off history

Projector Info menu

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

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

Event ID Code List

Parent topic: Adjusting the Menu Settings

Event ID Code List

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

Event ID code	Cause and solution
0432	The network software did not start. Turn the projector off and then on again.
0435	
0433	Cannot display the transferred images. Restart the network software.
0434	Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0481	
0482	
0485	
0483	The network software quit unexpectedly. Check the network communication status, then turn the projector off and then on again.
04FE	

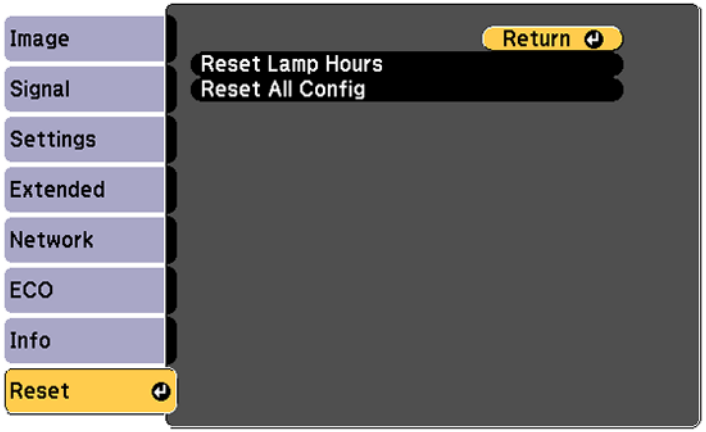
Event ID code	Cause and solution
0484	Communication with computer was disconnected. Restart the network software.
0479	A projector system error has occurred. Turn the projector off and then on again.
04FF	
0891	Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID.
0892	The WPA/WPA2/WPA3 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.
0895	Communication with a connected device was disconnected. Check your device connection status.
0898	Failed to acquire DHCP address. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the **DHCP** setting in the Network menus.
0899	A communication error has occurred.
089A	The EAP authentication type does not match the network. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.
089B	EAP server authentication failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.
089C	EAP client authentication failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.
089D	Key exchange failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.

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 Config** 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 Config** option:

- E-Zoom
- User's Logo
- Schedule Settings (PowerLite 992F/1288)
- Language
- Network menu items
- Lamp Hours
- Password
- Date & Time (PowerLite 992F/1288)
- Display Background
- Startup Screen
- A/V Mute

Parent topic: Adjusting the Menu Settings

Maintaining and Transporting the Projector

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

Projector Maintenance
Transporting the Projector

Projector Maintenance

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

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

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

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

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

Cleaning the Lens
Cleaning the Projector Case
Air Filter and Vent Maintenance
Projector Lamp Maintenance
Replacing the Remote Control Batteries

Parent topic: Maintaining and Transporting the Projector

Cleaning the Lens

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

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

Parent topic: Projector Maintenance

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

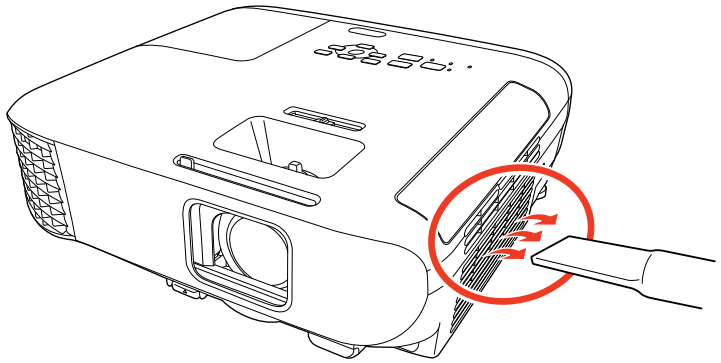
Related references

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

Replacing the Air Filter

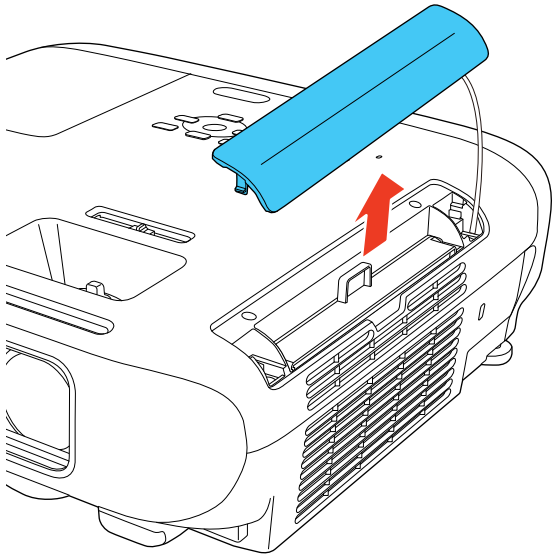
You need to replace the air filter in the following situations:

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

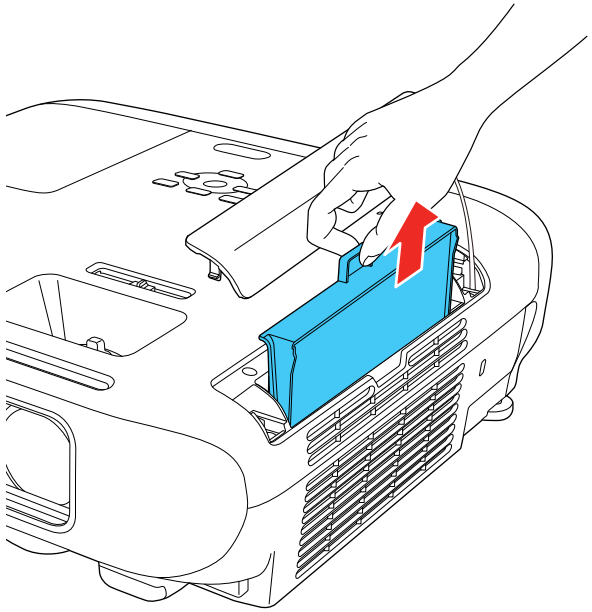
You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

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

2. Carefully open the air filter cover.

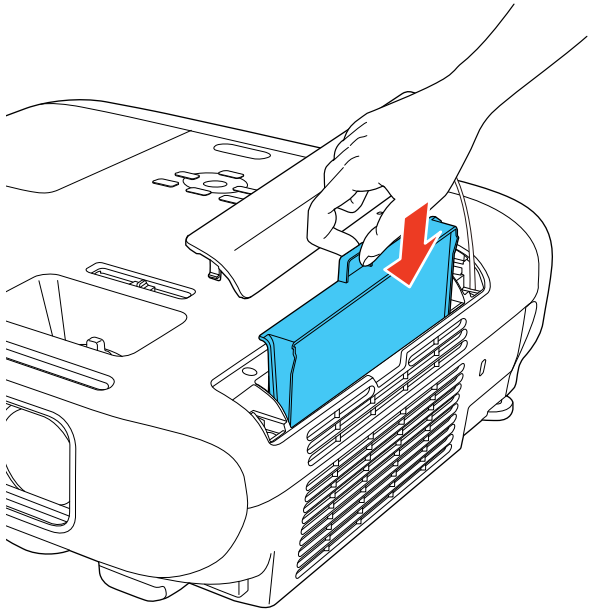


3. Pull the air filter out of the projector.



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

Caution: If you continue to use the lamp after the above conditions occur, the possibility that the lamp may explode increases. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working. You should always have a spare lamp unit ready in case it is needed.

Caution: Do not repeatedly turn the projector power on and off. This may shorten the lamp's operating life.

Note: We recommend the use of genuine Epson replacement lamps. The use of non-genuine lamps may affect projection quality and safety. Any damage or malfunction caused by the use of non-genuine lamps may not be covered by Epson's warranty.

Replacing the Lamp
Resetting the Lamp Timer

Parent topic: Projector Maintenance

Related references

Projector Light Status
Projector Information Display - Info Menu

Replacing the Lamp

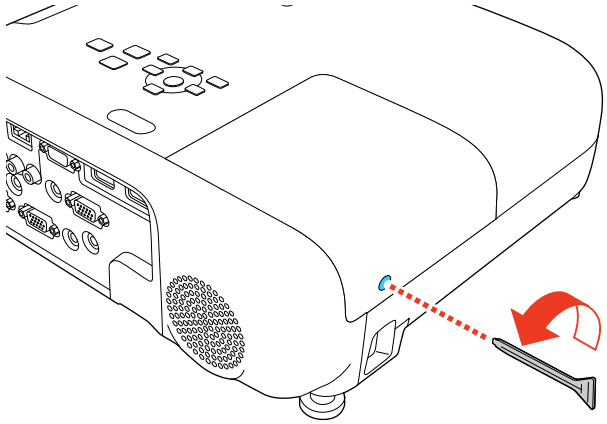
Before you replace the lamp, let the projector cool down for at least one hour so the lamp will not be hot.

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.

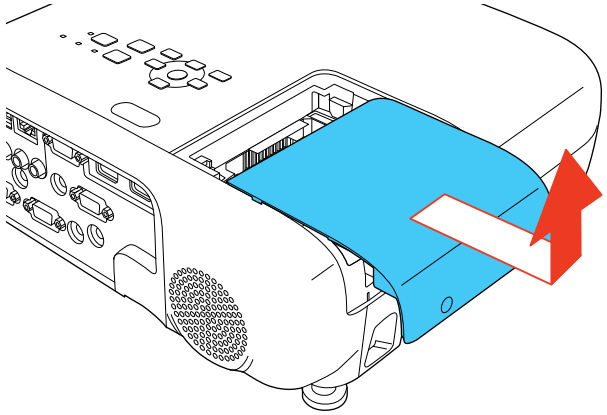
1. Turn off the projector and unplug the power cord.
2. Allow the projector lamp to cool down for at least one hour.

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

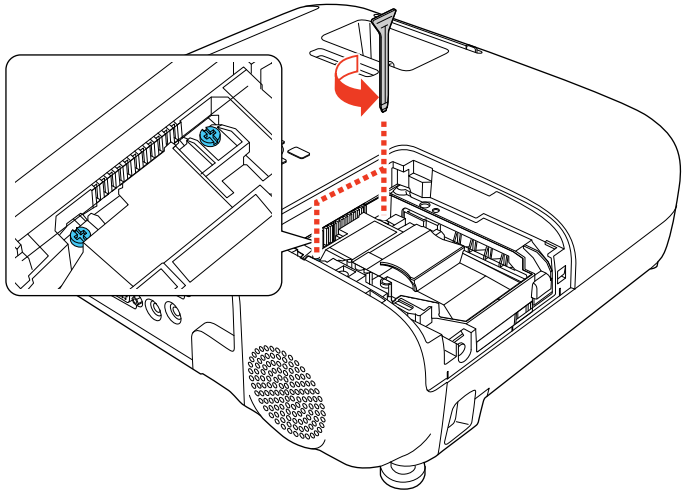


Warning: If the lamp is broken, glass fragments may be loose inside the lamp chamber. Be careful removing any broken glass to avoid injury. If the projector is installed on the ceiling, stand to the side of the lamp cover and not underneath it; pieces of glass could fall into your eyes or mouth when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

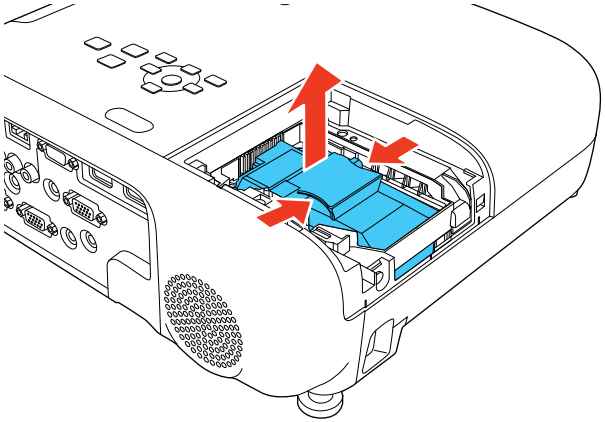
4. Slide the lamp cover out and lift it off.



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

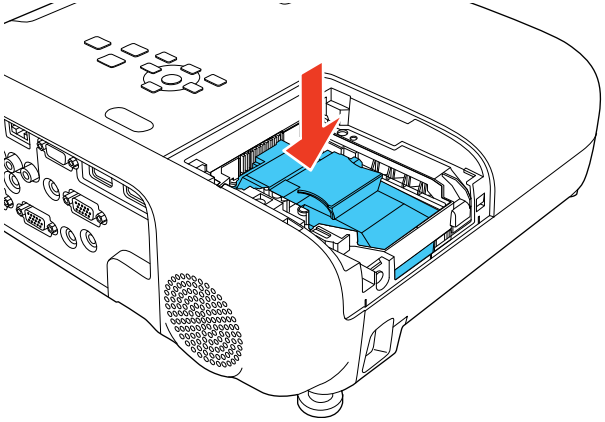


6. Grasp the raised section of the lamp and gently pull the lamp out of the projector.



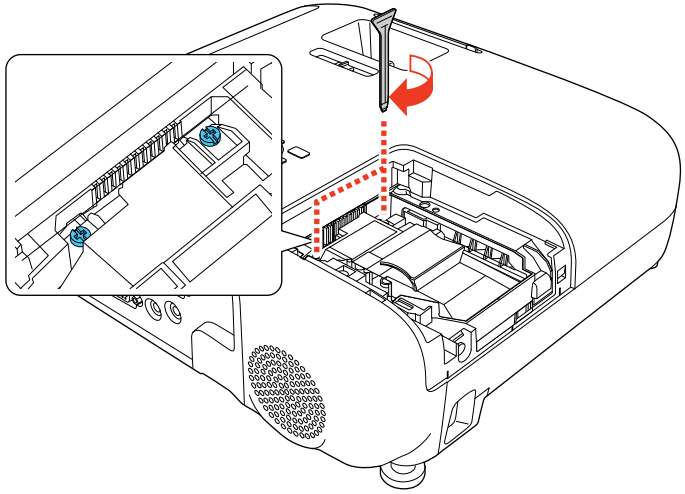
Note: Hg The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

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



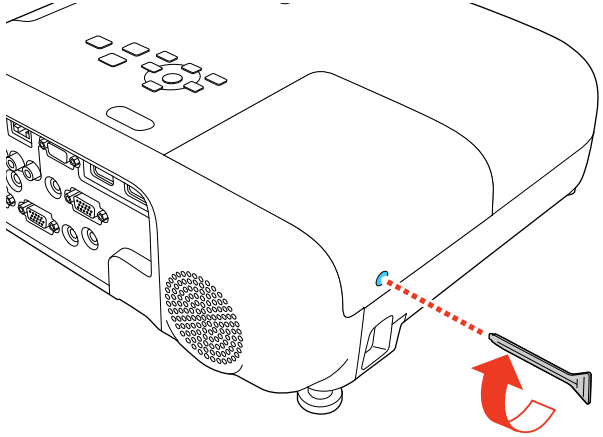
Caution: Do not touch any glass on the lamp assembly to avoid premature lamp failure.

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 references

Optional Equipment and Replacement Parts

Related tasks

Resetting the Lamp Timer

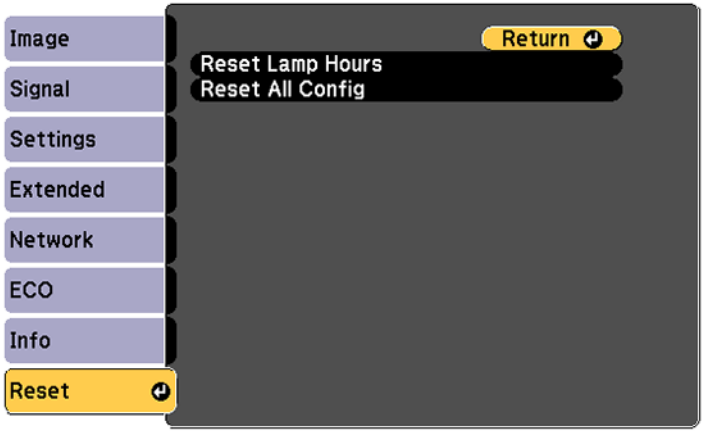
Resetting the Lamp Timer

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

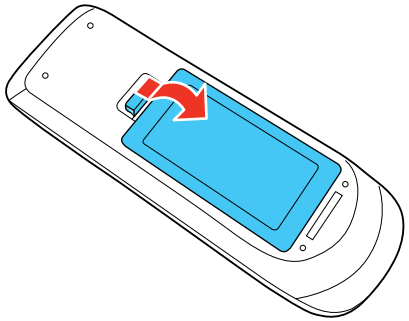
Replacing the Lamp

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.

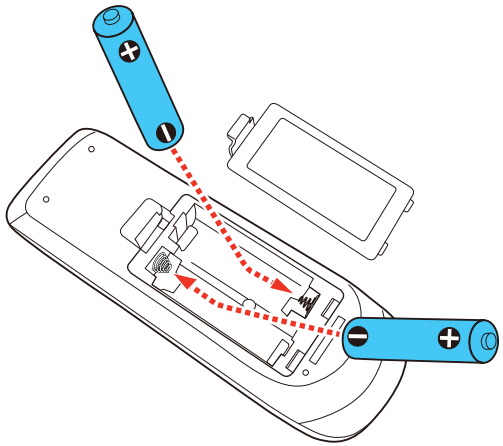
1. Remove the battery cover as shown.



2. Remove the old batteries.

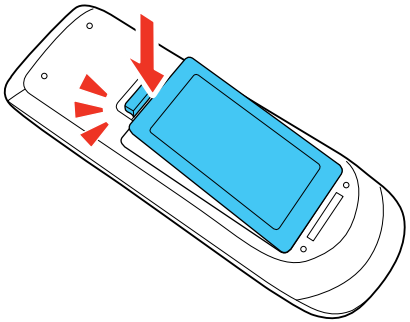
   Warning: If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.

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



   Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

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



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

Parent topic: Projector Maintenance

Transporting the Projector

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

- Make sure the projector is turned off, the power indicator is blue (but not flashing), and the status indicator is off, then unplug the power cord.
- 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

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
Solutions When a Battery Message Appears
Solving Network Problems
Where to Get Help (U.S. and Canada)

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 (U.S. and Canada)

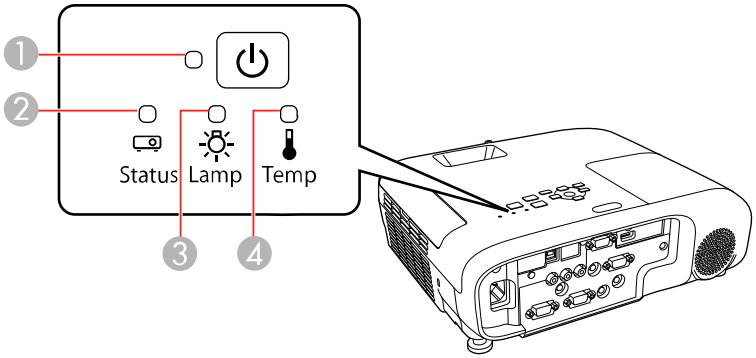
Related tasks

Using the Projector Help Displays

Projector Light Status

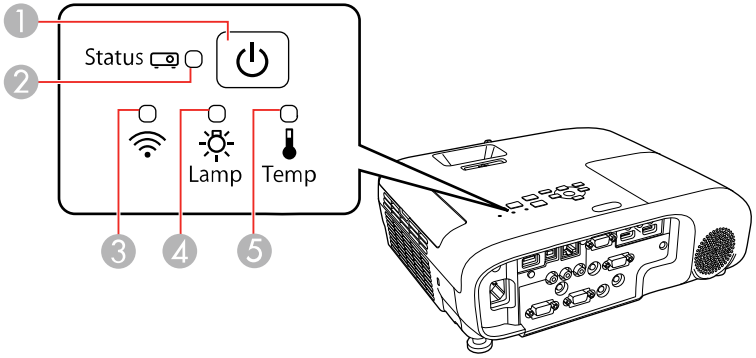
The lights on the projector indicate the projector status and let you know when a problem occurs. Check the status and color of the lights and look for a solution in the table here.

PowerLite E20



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

PowerLite X49/W49/118/119W/982W/992F/1288



1 Power light
2 Status light

3 Wireless LAN light

4 Lamp light

5 Temp (temperature) light

Projector status

Power light	Status light	Lamp light	Temp light	Status and solution
Blue	Blue	Off	Off	Normal operation
Blue	Flashing blue	Off	Off	Warming up or cooling down. All buttons are disabled.
Blue	Off	Off	Off	Standby or sleep mode
Flashing blue	Off	Off	Off	Preparing for network monitoring
Flashing blue	Light status varies	Light status varies	Flashing orange	Projector is too hot • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • Make sure the environmental temperature is not too hot
Off	Flashing blue	Off	Orange	Projector has overheated and turned off; leave it turned off to cool down for about five minutes, then do the following: • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects • Clean or replace the air filter • If operating the projector at high altitude, turn on **High Altitude Mode** • If the problem persists, unplug the projector and contact Epson for help

Power light	Status light	Lamp light	Temp light	Status and solution
Off	Flashing blue	Orange	Off	Lamp or lamp cover has a problem • Check to see if the lamp is burned out, broken, or installed incorrectly; reseat or replace the lamp as necessary • Clean or replace the air filter • If operating the projector at high altitude, turn on **High Altitude Mode** • If the problem persists, unplug the projector and contact Epson for help • Check that the lamp cover is installed correctly
Flashing blue	Light status varies	Flashing orange	Light status varies	Replace the lamp soon to avoid damage; do not continue using the projector
Off	Flashing blue	Off	Flashing orange	A fan or sensor has a problem; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Flashing orange	Off	Internal projector error; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Flashing orange	Flashing orange	Auto iris error; turn the projector off, unplug it, and contact Epson for help
Off	Flashing blue	Orange	Orange	Power error; turn the projector off, unplug it, and contact Epson for help

Wireless LAN status (PowerLite X49/W49/118/119W/982W/992F/1288)

Wireless LAN light	Status and solution
Blue	Wireless LAN is available
Flashing blue quickly	Connecting to a device
Flashing blue slowly	An error has occurred; turn off the projector, then turn it back on
Off	Wireless LAN is not available; make sure the wireless LAN settings are correct

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 concepts

Projector Lamp Maintenance

Air Filter and Vent Maintenance

Related references

Projector Setup Settings - Extended Menu

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

Related tasks

Turning Off the Projector

Using the Projector Help Displays

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

1. Turn on the projector.
2. Press the **Home** button on the projector or the remote control.
3. Press the arrow buttons to select **Help**.
4. Press ↵ **Enter**.

   You see the Help menu.
5. Press the up and down arrow buttons to highlight the problem you want to solve.
6. Press ↵ **Enter** to view the solutions.

7. When you are finished, do one of the following:
   - To select another problem to solve, press **Esc**.
   - To exit the help system, press **Home**.

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.
- 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 displays, there may be a problem with the connected video source, cable connection, or port.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the **Brightness** setting or select the **High** Power Consumption setting.

- Check the **Display** setting to make sure **Messages** is set to **On**.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked. Unlock the buttons. Press and hold the **Enter** button on the control panel for 7 seconds.
- If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.
- The projector may not be able to project copyrighted videos that you play back on a computer. For details, see the manual supplied with your computer.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Parent topic: Solving Image or Sound Problems

Related references

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

Related tasks

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.
- On a Mac, select the **USB Display** icon in the Dock or from the **Applications** folder.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.
- If the mouse cursor flickers, select **Make the movement of the mouse pointer smooth** in the Epson USB Display Settings program on your computer.
- Turn off the **Transfer layered window** setting in the Epson USB Display Settings program on your computer.

- Make sure you are using the most recent version of the USB Display software. You can download the latest version from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector.

Parent topic: Solving Image or Sound Problems

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.
- Press the **Home** button on the remote control to select from a list of available sources.
- Turn on the connected computer or video source, and press its play button to begin your presentation, if necessary.
- Check the connection from the projector to your video sources.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
- If necessary, turn the projector and the connected computer or video source off and then on again.
- If you are projecting from an HDMI source, replace the HDMI cable with a shorter one.
- Try a different video cable.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Displaying From a PC Laptop
Displaying From a Mac Laptop

Parent topic: Solving Image or Sound Problems

Related references

Projector Reset Options - Reset Menu

Related tasks

Selecting an Image Source

Displaying From a PC Laptop

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

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

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

2. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)
3. If necessary, check your video card settings and set the multiple display option to **Clone**, **Mirror**, or **Duplicate**.

Parent topic: Solutions When "No Signal" Message Appears

Displaying From a Mac Laptop

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

1. Open the **System Preferences** utility and select **Displays**, **Display**, or **Color LCD**.
2. Click the **Arrange** or **Arrangement** tab.
3. Select the **Mirror Displays** checkbox.

Parent topic: Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

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

- Make sure the 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

Related references

Input Signal Settings - Signal Menu

Supported Video Display Formats

Solutions When Only a Partial Image Appears

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

- For VGA connections, press the **Auto** button on the remote control to optimize the image signal.
- Make sure the **Resolution** setting in the Signal menu is set correctly for the input signal.
- Try adjusting the image position using the **Position** setting in the Signal menu.
- 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 **Default** 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.)
- Make sure you selected the correct **Projection** setting in the Extended menu.
- If the other solutions do not solve the problem, reset all of the projector settings using the options on the **Reset** menu.

Parent topic: Solving Image or Sound Problems

Related references

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 in the Settings menu.
- 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 concepts

Image Shape

Related references

Projector Feature Settings - Settings Menu

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
- If you adjusted the image shape, adjust the **Sharpness** setting in the Image menu.
- Check the settings on the projector's Signal menu to make sure they match the video source.
- Adjust the **Noise Reduction**, **MPEG Noise Reduction**, and **Deinterlacing** settings in the projector's Image menu.
- If available for your video source, select **Auto** as the Resolution setting in the Signal menu.
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer using a VGA cable, 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 in the Signal menu.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
- If you are using the USB Display function, turn off the **Transfer layered window** setting in the Epson USB Display Settings program on your computer.
- Try a different cable.

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 Settings menu (if available for your product).
- Adjust the **Sharpness** setting in the Image menu 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 in the Signal menu.
- 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 concepts

Projector Placement

Related references

Image Quality Settings - Image 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**, and/or **Color Saturation**.
- Make sure you selected the correct **Video Range** 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 **High** 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.
- If the above solutions do not correct your image, try resetting all of the projector's settings using the Reset menu.

Parent topic: Solving Image or Sound Problems

Related concepts

Color Mode
Projector Placement

Related references

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.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Try disconnecting and reconnecting the audio cable.
- Check the audio cable connections between the projector and your video source.

- If you do not hear sound from an HDMI source, set the connected device to PCM output.
- Make sure any connected audio cables are labeled "No Resistance."
- If you are using the USB Display function, turn on the **Output audio from the projector** setting in the Epson USB Display Settings program on your computer.
- If you are using a Mac and you do not hear sound from an HDMI source, make sure your Mac supports audio through the HDMI port. If not, you need to connect an audio cable.
- If you want to use a connected audio source when the projector is off, set the **Standby Mode** option to **Communication On** in the ECO menu.
- If the volume for the computer is set to the minimum while the projector's volume is set to maximum, the sound level may be mixed. Turn up the computer's volume and decrease the projector's volume.
- Make sure the **A/V Settings** options are set up correctly in the Extended menu.
- Check the **Mic Input Level** setting and lower it, if necessary.
- If you hear a hissing sound from your projector's speakers when projecting from a computer running Windows 10 over a network, you may need to adjust the Windows 10 sound properties:
  1. Right-click the speaker icon in the Windows taskbar and select **Sounds**.
  2. Click the **Playback** tab, select the playback device, and click **Properties**.
  3. Click the **Advanced** tab, set the sample rate and bit depth setting to **16 bit, 44100 Hz (CD Quality)**, click **Apply**, and click **OK**.

     Note: These steps may vary depending on the Windows 10 version you are using.
- If you turn the projector on immediately after turning it off, the cooling fans may run at high speed momentarily and cause an unexpected noise. This is normal.

Parent topic: Solving Image or Sound Problems

Related references

Projector Setup Settings - ECO Menu
Projector Setup Settings - Extended Menu

Solving Projector or Remote Control Operation Problems

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

Solutions to Projector Power or Shut-Off Problems
Solutions to Remote Control Problems

Solutions to 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 in the ECO menu to change the sleep interval.
- Make sure the **A/V Mute Timer** setting and the **Lens Cover Timer** setting are turned off in the ECO menu.
- 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.
- Make sure the lamp and lamp cover are installed correctly.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Light Status

Projector Feature Settings - Settings Menu

Projector Setup Settings - ECO Menu

Related tasks

Unlocking the Projector's Buttons

Solutions to Remote Control Problems

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

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

- Make sure the projector is not warming up or shutting down.
- Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.
- Strong fluorescent lighting, direct sunlight, or infrared device signals may be interfering with the projector's remote receivers. Dim the lights or move the projector away from the sun or interfering equipment.
- If available, turn on one of the remote receivers in the projector's menu system, or check if all the remote receivers were turned off in the Settings menu.
- 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 Epson parts distributor.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Remote Control Operation

Projector Feature Settings - Settings Menu

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 lose the remote control, you cannot enter a password. Order a new one from Epson.
- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson. Do not attempt to enter the password again. Provide the request code and proof of ownership for assistance in unlocking the projector.
- If you set a Epson Web Control password and forgot the user ID or password, try entering the following:
  - User ID: **EPSONWEB**
  - Default password: **admin**
- If you set a Remote password (in Epson Web Control) and forgot the user ID or password, try entering the following:
  - User ID: **EPSONREMOTE**

- Default password: **guest**

Parent topic: Solving Projector or Remote Control Operation Problems

Related concepts

Password Security Types

Solutions When a Battery Message Appears

If you see a message telling you that the battery that saves your clock settings is running low, contact Epson for help.

Parent topic: Solving Problems

Solving Network Problems

Check the solutions in these sections if you have problems using the projector on a network (PowerLite X49/W49/118/119W/982W/992F/1288).

Solutions When Wireless Authentication Fails

Solutions When You Cannot Access the Projector Through the Web

Solutions When Network Alert E-Mails are Not Received

Solutions When You Cannot Connect Using Screen Mirroring

Solutions When the Image Contains Static During Network Projection

Solutions When the Image or Sound Contains Static During Screen Mirroring

Parent topic: Solving Problems

Solutions When Wireless Authentication Fails

If you cannot authenticate a wireless connection, try the following solutions (PowerLite X49/W49/118/119W/982W/992F/1288):

- If the wireless settings are correct, but authentication fails, you may need to update the **Date & Time** settings in the Extended menu, if available.
- Make sure the **Wireless LAN Power** setting is set to **On**.
- Check the Security settings and passphrase in the Network Configuration menu.
- Check the Event ID number displayed in the Info menu and check the link below to identify the problem.
- Make sure the connected device is on and operating properly.
- Make sure you are using the correct Epson wireless LAN module.

- If the access point security is WPA3-EAP, change the access point setting to **WPA2/WPA3-EAP**.

  Note: EAP and PEAP security are only available on PowerLite 992F/1288.

Parent topic: Solving Network Problems

Related references

Projector Network Settings - Network Menu

Event ID Code List

Related tasks

Selecting Wireless Network Settings Manually

Solutions When You Cannot Access the Projector Through the Web

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

Note: You cannot change the user ID.

- You may need to log in to access some options on the Web Control screen. If you see a log in window, enter **EPSONWEB** as the user ID and enter the password set in the projector's Network menu as the password. The default password is **admin**.
- To display the Web Remote screen, enter **EPSONREMOTE** as the user ID and enter the password set in the projector's Network menu as the password. The default password is **guest**.
- Avoid connecting via a proxy server.
- Make sure you have access to the network the projector is on.
- If you set the **Standby Mode** setting to **Communication On** in the projector's ECO menu, make sure the network device is turned on. After turning on the network device, turn on the projector.

Note: The user ID and password are case sensitive.

Parent topic: Solving Network Problems

Solutions When Network Alert E-Mails are Not Received

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

- Make sure the projector is turned on and connected to the network correctly. (If an error shut down the projector, it cannot send an e-mail.)
- Make sure you set up the projector e-mail alert settings correctly on the projector's Network 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. Change the **Port** setting according to your network environment.

Parent topic: Solving Network Problems

Related references

Projector Setup Settings - ECO Menu

Related tasks

Setting Up Projector Network E-Mail Alerts

Solutions When You Cannot Connect Using Screen Mirroring

If you are unable to connect to the projector using Screen Mirroring (PowerLite 992F/1288), try the following solutions:

- Make sure **On** is selected as the **Screen Mirroring** setting in the projector's Network menu. Try turning the setting off and then on again, if necessary.
- Make sure the **Display Name** in the screen mirroring settings does not include "-" or it may not display correctly on your mobile device.
- Make sure the **Operation Mode** and **Channel** settings in the Network menu are correct for your mobile environment and try connecting again.
- Make sure no other mobile device is connected to the projector using **No Interruptions** settings in the **Extended** menu **Meeting Mode** settings.
- Make sure the mobile device settings are correct.
- You may not be able to connect immediately after disconnecting from the projector. Wait a while and try connecting again.
- Restart the mobile device.
- If you have previously connected to the projector using Screen Mirroring, the device may have saved the previous connection information. Delete the saved information and connect to the projector from the list of available devices.

Parent topic: Solving Network Problems

Solutions When the Image Contains Static During Network Projection

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

- Check for any obstacles between the access point, the computer, the mobile device, and the projector. If necessary, change their positions to improve communication. Also make sure that they are not too far apart; move them closer together and try to connect again.
- If the wireless connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.
- If the connection speed declines, reduce the number of connected devices.

Parent topic: Solving Network Problems

Solutions When the Image or Sound Contains Static During Screen Mirroring

If the projected image or sound contains static during Screen Mirroring (PowerLite 992F/1288), try the following solutions:

- Avoid covering the Wi-Fi antenna of the mobile device.
- If you use a Screen Mirroring connection and an internet connection at the same time, the image may stop or contain noise. Disconnect the internet connection to expand your wireless bandwidth and improve the connection speed of the mobile device.
- Make sure the projection contents meet the Screen Mirroring requirements.
- Depending on the settings of the mobile device, the connection may be lost when the device enters power saving mode. Check the electrical power saving settings on the mobile device.
- Update to the latest version of the wireless driver or firmware on the mobile device.

Parent topic: Solving Network Problems

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

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

Internet Support

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

Speak to a Support Representative

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

Support hours are Monday through Friday, 7 AM to 4 PM, Pacific Time.

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

Before you call, have the following information ready:

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

Purchase Supplies and Accessories

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

You can purchase a replacement remote control from an Epson parts distributor here (U.S. sales) or here (Canadian sales).

Parent topic: Solving Problems

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	**PowerLite E20/X49/118:** 1024 × 768 pixels (XGA) **PowerLite W49/119W/982W:** 1280 × 800 pixels (WXGA) **PowerLite 992F/1288:** 1920 × 1080 pixels (Full HD)

Lens	**PowerLite E20:** F=1.44 Focal length: 16.7 mm **PowerLite X49/W49/118/119W:** F=1.49 to 1.72 Focal length: 16.9 mm to 20.28 mm **PowerLite 982W/992F/1288:** F=1.51 to 1.99 Focal length: 18.2 mm to 29.2 mm
Color reproduction	Full color, up to 1 billion colors

Brightness	**PowerLite E20:** High Power Consumption mode: White light output 3400 lumens (ISO 21118 standard) Color light output 3400 lumens ECO Power Consumption mode: White light output 2200 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. **PowerLite X49:** High Power Consumption mode: White light output 3600 lumens (ISO 21118 standard) Color light output 3600 lumens ECO Power Consumption mode: White light output 2400 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. **PowerLite W49:** High Power Consumption mode: White light output 3800 lumens (ISO 21118 standard) Color light output 3800 lumens Medium Power Consumption mode: White light output 3700 lumens (ISO 21118 standard) Color light output 3700 lumens ECO Power Consumption mode:

White light output 2600 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.

PowerLite 118:

High Power Consumption mode:

White light output 3800 lumens (ISO 21118 standard)

Color light output 3800 lumens

Medium Power Consumption mode:

White light output 3600 lumens (ISO 21118 standard)

Color light output 3600 lumens

ECO Power Consumption mode:

White light output 2500 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.

PowerLite 119W:

High Power Consumption mode:

White light output 4000 lumens (ISO 21118 standard)

Color light output 4000 lumens

Medium Power Consumption mode:

White light output 3700 lumens (ISO 21118 standard)

Color light output 3700 lumens

ECO Power Consumption mode:

White light output 2600 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.

PowerLite 982W:

High Power Consumption mode:

White light output 4200 lumens (ISO 21118 standard)

Color light output 4200 lumens

Medium Power Consumption mode:

White light output 3600 lumens (ISO 21118 standard)

Color light output 3600 lumens

ECO Power Consumption mode:

White light output 2600 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.

PowerLite 992F:

High Power Consumption mode:

White light output 4000 lumens (ISO 21118 standard)

Color light output 4000 lumens

Medium Power Consumption mode:

White light output 3400 lumens (ISO 21118 standard)

Color light output 3400 lumens

ECO Power Consumption mode:

White light output 2400 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.

	PowerLite 1288: High Power Consumption mode: White light output 4000 lumens (ISO 21118 standard) Color light output 4000 lumens ECO Power Consumption mode: White light output 2400 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	**PowerLite E20:** 15000:1 with Dynamic Color Mode, Zoom Wide, and High Power Consumption mode **PowerLite X49/W49/118/119W/982W/992F/1288:** 16000:1 with Dynamic Color Mode, Zoom Wide, and High Power Consumption mode
Image size (in native aspect ratio)	**PowerLite E20:** 30 inches (0.76 m) to 350 inches (8.89 m) **PowerLite X49/118/992F/1288:** 30 inches (0.76 m) to 300 inches (7.62 m) **PowerLite W49/119W:** 33 inches (0.84 m) to 320 inches (8.13 m) **PowerLite 982W:** 29 inches (0.74 m) to 280 inches (7.11 m)

Projection distance (in native aspect ratio)	**PowerLite E20:** 34 inches (0.87 m) to 314 inches (7.98 m) **PowerLite X49/118:** 35 inches (0.89 m) to 431 inches (10.95 m) **PowerLite W49/119W:** 36 inches (0.91 m) to 429 inches (10.89 m) **PowerLite 982W:** 33 inches (0.85 m) to 540 inches (13.71 m) **PowerLite 992F/1288:** 34 inches (0.87 m) to 567 inches (14.41 m)
Projection methods	Front, rear, ceiling-mounted
Optical aspect ratio (width-to-height)	**PowerLite E20/X49/118:** 4:3 **PowerLite W49/119W/982W:** 16:10 **PowerLite 992F/1288:** 16:9
Focus adjustment	Manual
Zoom adjustment	Manual (not available on PowerLite E20)
Zoom ratio (Tele-to-Wide)	**PowerLite E20:** 1 to 1.35 (digital zoom) **PowerLite X49/W49/118/119W:** 1 to 1.2 **PowerLite 982W/992F/1288:** 1 to 1.6

Internal sound system	**PowerLite E20/X49/W49:**
	5 W monaural
	PowerLite 118/119W/982W/992F/1288:
	16 W monaural
Noise level	37 dB (High or Medium Power Consumption mode)
	28 dB (ECO Power Consumption mode)
Keystone correction angle	± 30º vertical (manual or Auto Keystone; Auto Keystone not available on PowerLite E20)
	± 30° horizontal (manual)
USB Type A port compatibility	USB 2.0 compliant for optional wireless LAN module, firmware update, and copying projector settings
USB Type B port compatibility	USB 2.0 compliant for USB computer display

Parent topic: Technical Specifications

Projector Lamp Specifications

Type	UHE (Ultra High Efficiency)
Power consumption	**PowerLite E20/X49/W49/118/119W:**
	210 W
	PowerLite 982W/992F/1288:
	230 W

Lamp life	**PowerLite E20/X49:** High Power Consumption mode: Up to about 6000 hours ECO Power Consumption mode: Up to about 12,000 hours **PowerLite W49/118/119W:** High Power Consumption mode: Up to about 8000 hours Medium Power Consumption mode: Up to about 10,000 hours ECO Power Consumption mode: Up to about 17,000 hours **PowerLite 982W/992F:** High Power Consumption mode: Up to about 6500 hours Medium Power Consumption mode: Up to about 10,000 hours ECO Power Consumption mode: Up to about 17,000 hours **PowerLite 1288:** High Power Consumption mode: Up to about 5500 hours ECO Power Consumption mode: Up to about 12,000 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

PowerLite E20/X49/W49:

Width	11.9 inches (302 mm)
Height	3.6 inches (92 mm)
Depth	9.8 inches (249 mm)
Weight	5.9 lb (2.7 kg)

PowerLite 118/119W:

Width	11.9 inches (302 mm)
Height	3.6 inches (92 mm)
Depth	10.2 inches (260 mm)
Weight	6.2 lb (2.8 kg)

PowerLite 982W/992F/1288:

Width	11.9 inches (302 mm)
Height	4.1 inches (105 mm)
Depth	11.5 inches (293 mm)
Weight	6.8 lb (3.1 kg)

Note: Height values exclude projector feet. Weight values are approximate.

Parent topic: Technical Specifications

Projector Electrical Specifications

Rated frequency	50/60 Hz
Power supply	100 to 240 V AC ±10%
	3.5 to 1.6 A
Power consumption	Operating:
(100 to 120 V)	High Power Consumption mode: 345 W
	Medium Power Consumption mode: 303 W (PowerLite W49/118/119W/982W/992F)
	ECO Power Consumption mode: 235 W
	Standby:
	0.3 W (Communication Off), 2.0 W (Communication On)
Power consumption	Operating:
(220 to 240 V)	High Power Consumption mode: 327 W
	Medium Power Consumption mode: 290 W (PowerLite W49/118/119W/982W/992F)
	ECO Power Consumption mode: 225 W
	Standby:
	0.3 W (Communication Off), 2.0 W (Communication On)

Parent topic: Technical Specifications

Projector Environmental Specifications

Temperature	Operating:
	Up to 7500 feet (2286 m): 41 to 104 °F (5 to 40 °C)
	7500 feet (2286 m) to 10000 feet (3048 m): 41 to 95 °F (5 to 35 °C)
	Storage: 14 to 140 °F (–10 to 60 °C)
Humidity (relative, non-condensing)	Operating: 20 to 80%
	Storage: 10 to 90%

Operating altitude	Up to 4921 feet (1500 m) Up to 10,000 feet (3048 m) with High Altitude Mode enabled

Parent topic: Technical Specifications

Projector Safety and Approvals Specifications

United States	FCC Part 15B Class B (DoC) UL60950-1 2nd edition / UL62368-2 2nd edition (cTUVus Mark)
Canada	ICES-003 Class B CSA C22.2 No. 60950-1-07 / CSA C22.2 No. 62368-1-14 (cTUVus Mark)

Parent topic: Technical Specifications

Supported Video Display Formats

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

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

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

Display format	Refresh rate (in Hz)	Resolution (in pixels)
Computer signals (analog RGB)		
VGA	60/72/75/85	640 × 480
SVGA	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

Display format	Refresh rate (in Hz)	Resolution (in pixels)
WXGA++	60	1400 × 1050
SXGA	70/75/85	1152 × 864
	60/75/85	1280 × 960
	60/75/85	1280 × 1024
SXGA+	60/75	1400 × 1050
WSXGA+[1]	60	1680 × 1050
UXGA	60	1600 × 1200
1920 × 1080[2]	50/60	1920 × 1080
Composite video		
TV (NTSC)	60	720 × 480
TV (SECAM)	50	720 × 576
TV (PAL)	50/60	720 × 576
HDMI input signals		
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
SXGA	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
WSXGA+[3]	60	1680 × 1050
UXGA	60	1600 × 1200
1920 × 1080	50/60	1920 × 1080

Display format	Refresh rate (in Hz)	Resolution (in pixels)
WUXGA (Reduced Blanking)[4]	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

[1] **Wide** resolution for PowerLite W49/119W/982W/992F/1288 only

[2] PowerLite 992F/1288 only

[3] PowerLite W49/119W/982W/992F/1288 only

[4] PowerLite 992F/1288 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.

Requirement	Windows	Mac
Operating system	Windows 7 Ultimate, Enterprise, Professional, and Home Premium (32- and 64-bit); Home Basic and Starter (32-bit)	OS X 10.8.x (64-bit), 10.9.x (64-bit), 10.10.x (64-bit), 10.11.x (64-bit)
	Windows 8.x, Pro, and Enterprise (32- and 64-bit)	macOS 10.12.x (64-bit), 10.13.x (64-bit), 10.14.x (64-bit), 10.15.x (64-bit)
	Windows 10 Home, Pro, and Enterprise (32- and 64-bit)	
CPU	Intel Core2 Duo or faster (Intel Core i3 or faster recommended)	Intel Core2 Duo or faster (Intel Core i5 or faster recommended)
Memory	2GB or more (4GB or more recommended)	
Hard disk space	20MB or more	

Requirement	Windows	Mac
Display	Resolution between 640 × 480 and 1920 × 1200, 16-bit color or greater	

Note: USB Display operation is not guaranteed for Windows Vista without service packs or with Service Pack 1.

Parent topic: Technical Specifications

Notices

Check these sections for important notices about your projector.

Recycling (U.S. and Canada)
Important Safety Information
Important Safety Instructions
List of Safety Symbols and Instructions
FCC Compliance Statement
Binding Arbitration and Class Waiver
Trademarks
Copyright Notice

Recycling (U.S. and Canada)

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 benzine.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers. Do not cover the projector with a blanket, curtain, or tablecloth. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the 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 below:

  41 to 95 °F (5 to 35 °C) at an altitude of 7500 feet (2286 m) or less, or 41 to 86 °F (5 to 30 °C) at 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.

Note: Ⓗg 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.

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.

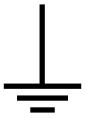
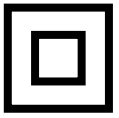
Parent topic: Important Safety Instructions

List of Safety Symbols and Instructions

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	Standby 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 standby condition.
4		ISO7000 No. 0434B IEC3864-B3.1	Caution To identify general caution when using the product.

No.	Symbol	Approved Standards	Description
5		IEC60417 No. 5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
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.

No.	Symbol	Approved Standards	Description
12		—	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
13		IEC60417 No. 5019	Protective earth To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
14		IEC60417 No. 5017	Earth To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required.
15		IEC60417 No. 5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
16		IEC60417 No. 5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
17		IEC60417 No. 5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
18		ISO 3864	General prohibition To identify actions or operations that are prohibited.

No.	Symbol	Approved Standards	Description
19		ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
20		—	Never look into the 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.
24		IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
25		ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.
26		IEC60417-6056	Caution, moving fan blades To indicate that you must keep away from moving fan blades.
27		IEC60417-6043	Caution, sharp corners To indicate that you must not touch sharp corners.

No.	Symbol	Approved Standards	Description
28		—	To indicate that looking into the lens while projecting is prohibited.
29		ISO7010 No. W027 ISO3864	Warning, light emission (UV, visible light, IR, etc.) To indicate that you must be careful not to injure your eyes or skin when near light-emitting sections.
30		IEC60417 No. 5109	Not to be used in residential areas To indicate that the electrical equipment/device is not suitable for use in a residential area.

Parent topic: Notices

FCC Compliance Statement

For United States Users

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

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

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

WARNING

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

For Canadian Users

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

Parent topic: Notices

Binding Arbitration and Class Waiver

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

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

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

1.3 **Pre-Arbitration Steps and Notice**. Before submitting a claim for arbitration, you and Epson agree to try, for sixty (60) days, to resolve any Dispute informally. If Epson and you do not reach an agreement to

resolve the Dispute within the sixty (60) days), you or Epson may commence an arbitration. Notice to Epson must be addressed to: Epson America, Inc., ATTN: Legal Department, 3131 Katella Ave., Los Alamitos, CA 90720 (the "Epson Address"). The Dispute Notice to you will be sent to the most recent address Epson has in its records for you. For this reason, it is important to notify us if your address changes by emailing us at EAILegal@ea.epson.com or writing us at the Epson Address above. Notice of the Dispute shall include the sender's name, address and contact information, the facts giving rise to the Dispute, and the relief requested (the "Dispute Notice"). Following receipt of the Dispute Notice, Epson and you agree to act in good faith to resolve the Dispute before commencing arbitration.

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

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

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

than in court. The arbitrator's award is binding and may be entered as a judgment in any court of competent jurisdiction.

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

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

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

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

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

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

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

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

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

1.7 **Opt-out. You may elect to opt-out (exclude yourself) from the final, binding, individual arbitration procedure and waiver of class and representative proceedings specified in this Agreement by sending a written letter to the Epson Address within thirty (30) days of your assent**

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

1.8 **Amendments to Section 1**. Notwithstanding any provision in this Agreement to the contrary, you and Epson agree that if Epson makes any future amendments to the dispute resolution procedure and class action waiver provisions (other than a change to Epson's address) in this Agreement, Epson will obtain your affirmative assent to the applicable amendment. If you do not affirmatively assent to the applicable amendment, you are agreeing that you will arbitrate any Dispute between the parties in accordance with the language of this Section 1 (or resolve disputes as provided for in Section 1.7, if you timely elected to opt-out when you first assented to this Agreement).

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

Parent topic: Notices

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Parent topic: Notices

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