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PROJECTOR OWNER'S MANUAL

Epson

Pro Z9750UNL to Z11005NL series

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PowerLite® Pro Z9870NL/Z11005NL/Z9800WNL/ Z9900WNL/Z11000WNL/Z9750UNL/ Z9870UNL/Z10000UNL/Z10005UNL User's Guide

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PowerLite Pro Z9870NL/Z11005NL/Z9800WNL/Z9900WNL/Z11000WNL/Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL User's Guide

Welcome to the PowerLite Pro Z9870NL/Z11005NL/Z9800WNL/Z9900WNL/Z11000WNL/Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL *User's Guide*.

Introduction to Your Projector

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

Projector Features
Notations Used in the Documentation
Where to Go for Additional Information
Projector Part Locations

Projector Features

The PowerLite Pro Z9870NL, Z11005NL, Z9800WNL, Z9900WNL, Z11000WNL, Z9750UNL, Z9870UNL, Z10000UNL, and Z10005UNL projectors include these special features:

Bright, high-resolution projection system

- PowerLite Pro Z9750UNL: Up to 3750 (one lamp) or 7500 (two lamps) lumens of color brightness (color light output) or white brightness (white light output) in standard mode

  PowerLite Pro Z9870NL/Z9870UNL: Up to 4350 (one lamp) or 8700 (two lamps) lumens of color brightness (color light output) or white brightness (white light output) in standard mode

  PowerLite Pro Z9800WNL: Up to 4150 (one lamp) or 8300 (two lamps) lumens of color brightness (color light output) or white brightness (white light output) in standard mode

  PowerLite Pro Z9900WNL: Up to 4600 (one lamp) or 9200 (two lamps) lumens of color brightness (color light output) or white brightness (white light output) in standard mode

  PowerLite Pro Z10000UNL/Z10005UNL: Up to 5000 (one lamp) or 10000 (two lamps) lumens color brightness (color light output) or white brightness (white light output) in standard mode

  PowerLite Pro Z11000WNL/Z11005NL: Up to 5500 (one lamp) or 11000 (two lamps) lumens color brightness (color light output) or white brightness (white light output) in standard mode

  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.

- Native resolution of:

  PowerLite Pro Z9870NL/Z11005NL: 1024 × 768 pixels (XGA)

  PowerLite Pro Z9800WNL/Z9900WNL/Z11000WNL: 1200 × 800 pixels (WXGA)

  PowerLite Pro Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL: 1920 × 1200 pixels (WUXGA)

Flexible connectivity

- Wired and wireless network support for projection, monitoring, and control via remote network computer
- Variety of connection methods to a computer or video device including HDMI, BNC, DVI-D, HDBaseT, and SDI (PowerLite Pro Z9870UNL/Z10000UNL/Z10005UNL)
- Ports for connecting an external monitor and external speakers

Easy-to-use setup and operation features

- Interchangeable bayonet lens options available
- Project images side by side from two separate input sources
- Create one large seamless display when projecting from multiple projectors using Edge Blending
- Epson's Instant Off and Direct Power On features for quick setup and shut down
- Support for Crestron RoomView network monitoring systems
- Network message broadcast system to project timely messages to all networked projectors (Windows only)

Note: The PowerLite Pro projector with the standard zoom lens (ELPLS04) is shown in most illustrations in this manual, unless noted otherwise.

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

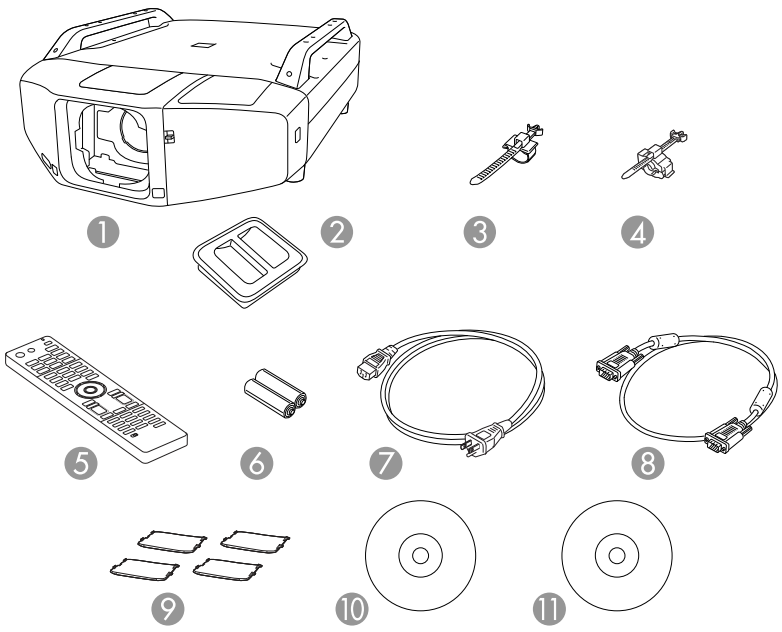
Parent topic: Introduction to Your Projector

Related concepts
Projector Part Locations

Product Box Contents

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

Make sure your projector box included all of these parts:



1 Projector
2 Lens unit cap
3 Power cord clip
4 HDMI cable clip
5 Remote control
6 Remote control batteries (two AA alkaline)
7 Power cord
8 VGA computer cable
9 Foot covers
10 Projector manuals and software links CD
11 Projector software CD

Parent topic: Projector Features

Related concepts

Projector Connections

Additional Components

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

- To connect a computer through its VGA port to the projector's BNC ports, you need a VGA-to-5-BNC cable or adapter. You can purchase one from Epson or an authorized Epson reseller.
- To receive a composite video signal, you need a BNC-style, composite video cable. See your local computer or electronics dealer for purchase information.
- To receive an S-Video signal, you need an S-Video cable compatible with your device. See your local computer or electronics dealer for purchase information.
- To receive a component video signal, you need a component-to-BNC or a D-sub, 15-pin, component-to-VGA video cable or adapter. You can purchase one from Epson or an authorized Epson reseller.
- To receive an HDMI signal, you need a compatible HDMI cable. You can purchase one from Epson or an authorized Epson reseller.
- To receive a DVI-D signal, you need a compatible DVI-D cable.
- To receive an HDBaseT signal, you need a compatible 100Base-TX LAN cable.
- To receive an SDI signal (PowerLite Pro Z9870UNL/Z10000UNL/Z10005UNL), you need a compatible BNC video cable.
- 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. Contact Apple for compatible adapter options.

Parent topic: Projector Features

Optional Equipment and Replacement Parts

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

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

Option or part	Part number
Genuine Epson replacement lamp (single) (ELPLP81)	V13H010L81

Option or part	Part number
Genuine Epson replacement lamp (dual) (ELPLP82)	V13H010L82
Genuine Epson replacement portrait lamp (single) (ELPLP83)	V13H010L83
Genuine Epson replacement portrait lamp (dual) (ELPLP84)	V13H010L84
Air filter (ELPAF46)	V13H134A46
Quick wireless connection USB key (ELPAP09)	V12H005M09
Wireless LAN module (ELPAP07)	V12H418P12
HDBaseT transmitter (ELPHD01)	V12H547020
Installation frame (ELPMB44)	V12H681010
Replacement remote control	2157388
Remote control cable set (ELPKC28)	V12H005C28
Epson DC-11 document camera (ELPDC11)	V12H377020
Epson DC-20 document camera (ELPDC20)	V12H500020
Wireless IR mouse receiver for remote control (ELPST16)	V12H007T16
Polarizer Kit for 3D Stacking	ELPPL01
Passive 3D glasses (adult) (ELPGS02A)	V12H541A20
Passive 3D glasses (children) (ELPGS02B)	V12H541B20
Flush ceiling mount bracket (ELPMB25)	V12H003B25
Mount bracket with extended pipe (ELPMB26)	V12H003B26
False ceiling plate kit	ELPMBP02
Component-to-VGA video cable (ELPKC19)	V12H005C19
VGA video cable 6 feet (1.8 m) length	F3H982-06
VGA video cable 10 feet (3.0 m) length	F3H982-10
VGA video cable 25 feet (7.6 m) length	F3H982-25
HDMI audio video cable 3 feet (0.9 m) length	AV22300-03
HDMI audio video cable 6 feet (1.8 m) length	AV22300-06
HDMI audio video cable 12 feet (3.6 m) length	AV22300-12

Option or part	Part number
Short throw zoom lens (ELPLU02)	V12H004U02
Rear-projection wide lens (ELPLR04)	V12H004R04
Standard zoom lens (ELPLS04)	V12H004S04
Middle-throw zoom lens #1 (ELPLM06)	V12H004M06
Middle-throw zoom lens #2 (ELPLM07)	V12H004M07
Long-throw zoom lens (ELPLL07)	V12H004L07
Active speakers (ELPSP02)	V12H467020
PixiePlus control system for Epson projectors	ELPSP10
Duet ultra portable projector screen	ELPSC80
60" portable roll screen (4:3)	ELPSC27
80" portable roll screen (4:3)	ELPSC28
100" portable roll screen (4:3)	ELPSC29
1-Year Exchange - Extended Service Plan	EPPEXPC1
2-Year Exchange - Extended Service Plan	EPPEXPC2

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 that came with your projector.

In addition, Epson offers free Extra Care Road Service. In the unlikely event of an equipment failure, you won’t have to wait for your unit to be repaired. Instead, Epson will ship you a replacement unit anywhere in the United States, Canada, or Puerto Rico. See the Extra Care Road Service brochure for details.

Register your product online using the projector CD or at this site: epson.com/webreg.

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

Parent topic: Projector Features

Notations Used in the Documentation

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

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

Parent topic: Introduction to Your Projector

Where to Go for Additional Information

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

- Built-in help system

  Press the **Help** button on the remote control to get quick solutions to common problems.
- epson.com/support (U.S) or epson.ca/support (Canada)

  View FAQs (frequently asked questions) and e-mail your questions to Epson technical support 24 hours a day.
- For detailed instructions on using your projector in a network environment, see the *EasyMP Network Projection Operation Guide*.
- For detailed instructions on monitoring your projector in a network environment (Windows only), see the *EasyMP Monitor Operation Guide*.
- If you still need help after checking this manual and the sources listed above, you can use the Epson PrivateLine Support service to get help fast. For details, see "Where to Get Help".

Parent topic: Introduction to Your Projector

Related references

Where to Get Help

Projector Part Locations

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

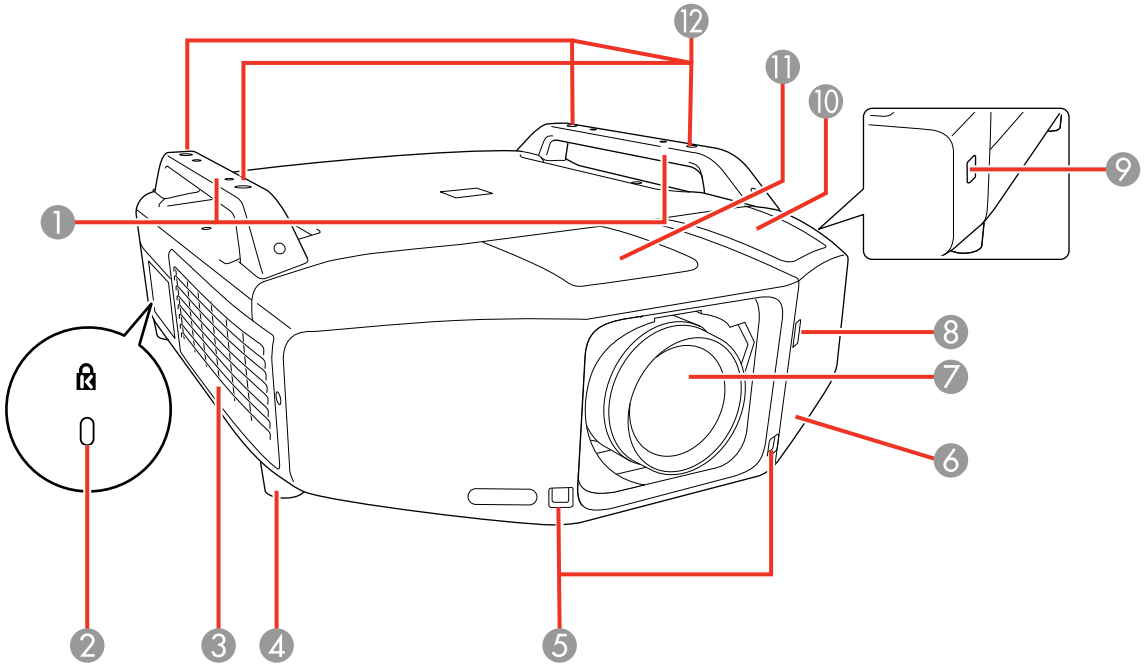
Projector Parts - Front/Top

Projector Parts - Rear

Projector Parts - Interface Ports

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

Projector Parts - Front/Top

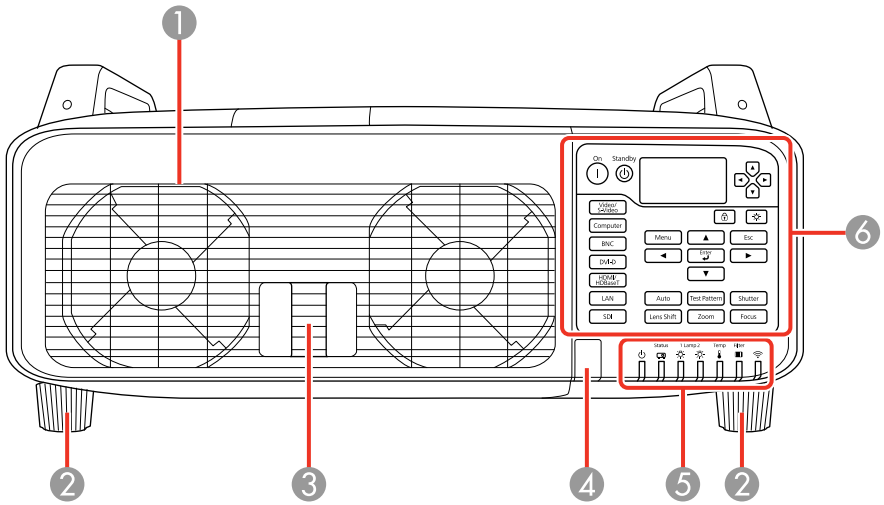


1 Handles
2 Kensington security slot
3 Air filter/intake vent
4 Front feet
5 Remote control receivers
6 Interface cover

7 Projection lens
8 Interface cover latch
9 Interface cover button
10 Cable cover
11 Lens cover
12 Ceiling mount holes

Parent topic: Projector Part Locations

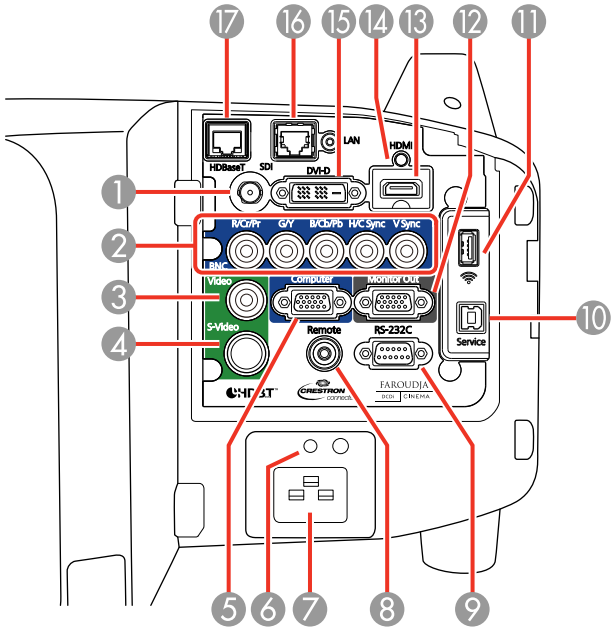
Projector Parts - Rear



1 Air exhaust vent/lamp cover
2 Rear feet
3 Lamp cover latch
4 Remote receiver
5 Projector status lights
6 Control panel

Parent topic: Projector Part Locations

Projector Parts - Interface Ports



1 **SDI** port (PowerLite Pro Z9870UNL/Z10000UNL/Z10005UNL)

2 **BNC** ports

3 **Video** port

4 **S-Video** port

5 **Computer** port

6 Power cord clip slot

7 Power inlet

8 **Remote** port

9 **RS-232C** port

10 **Service** port

11 Wireless LAN module port

12 **Monitor Out** port

13 **HDMI** port

14 HDMI cable clip slot

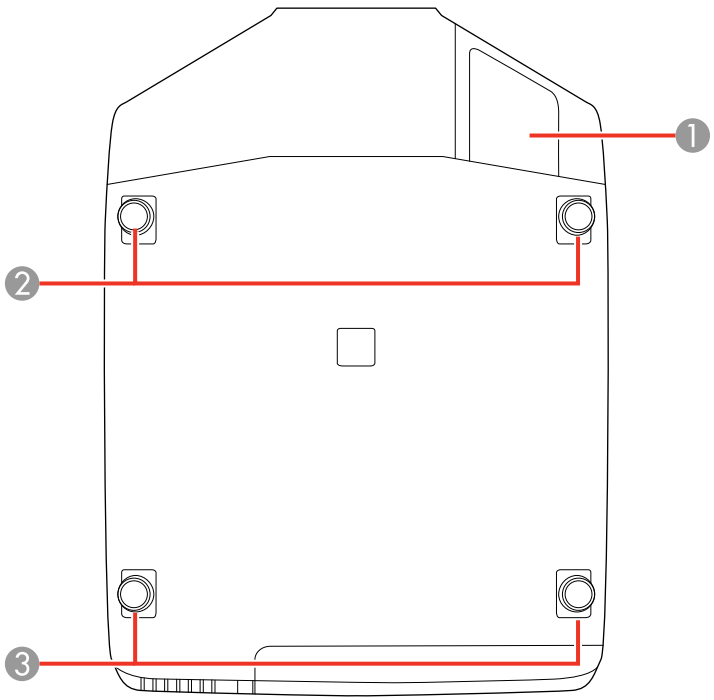
15 **DVI-D** port

16 Network **LAN** port

17 **HDBaseT** port

Parent topic: Projector Part Locations

Projector Parts - Base



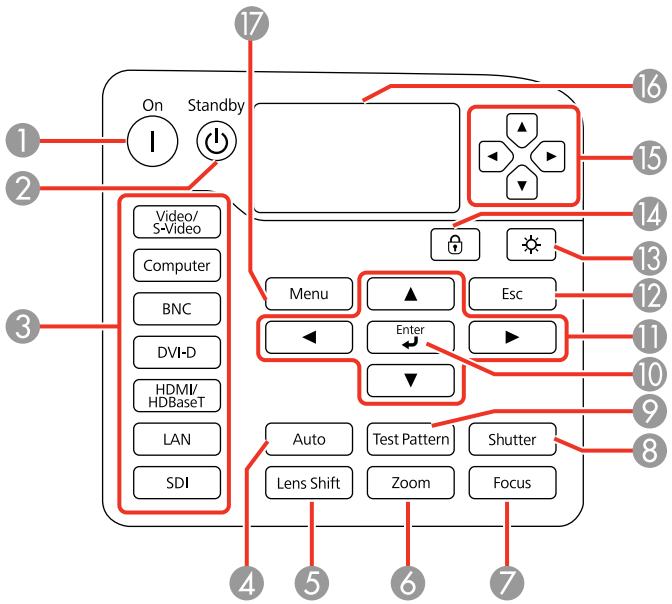
1 Cable wiring slot

2 Front feet

3 Rear feet

Parent topic: Projector Part Locations

Projector Parts - Control Panel



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

2 **Standby** button (turns power off)

3 Source buttons (change input source; some buttons may not function depending on the model)

4 **Auto** button (automatically adjusts position, tracking, and sync settings when projecting analog RGB signals from the **Computer** or **BNC** ports)

5 **Lens Shift** button (adjusts the lens position)

6 **Zoom** button (zooms into the image)

7 **Focus** button (focuses the image)

8 **Shutter** button (turns signal on or off temporarily)

9 **Test Pattern** button (displays a test pattern)

10 **Enter** button (selects options and controls wireless mouse functions)

11 Arrow buttons (move through on-screen options and control wireless mouse functions; adjust focus, zoom, and lens shift)

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

13 Light button (lights up the buttons temporarily)

14 Lock button (displays the Control Panel Lock screen)

15 Arrow buttons (select status information settings)

16 Status display (displays projector status information)

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

Parent topic: Projector Part Locations

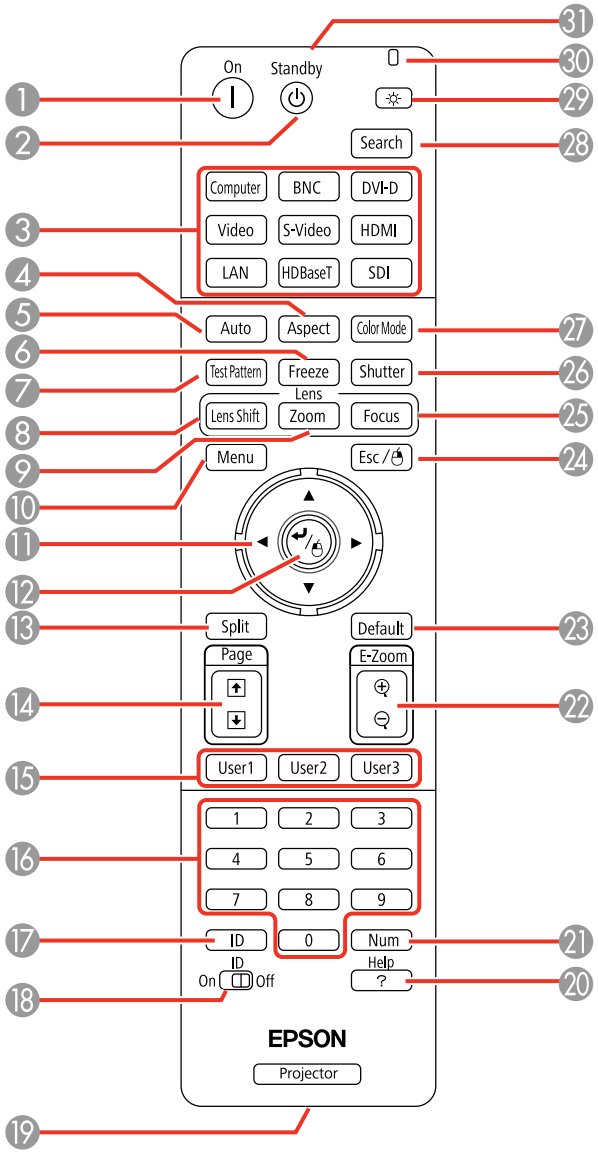
Related concepts

Projector Status Display

Related references

Projector Light Status

Projector Parts - Remote Control



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

2 **Standby** button (turns power off)

3 Source buttons (change input source; some buttons may not function depending on the model)

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

5 **Auto** button (automatically adjusts position, tracking, and sync settings when projecting analog RGB signals from the **Computer** or **BNC** ports)

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

7 **Test Pattern** button (displays a test pattern)

8 **Lens Shift** button (adjusts the lens position)

9 **Zoom** button (zooms into the image)

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

11 Arrow buttons (move through on-screen options and control wireless mouse functions; adjust focus, zoom, and lens shift)

12 Enter button (selects options and controls wireless mouse functions)

13 **Split** button (splits the screen)

14 **Page** up/down buttons (scroll through image files when projecting from a computer over a network connection)

15 **User1**, **User2**, and **User3** buttons (customizable for different functions)

16 Numeric buttons (enter numbers)

17 **ID** button (hold down to use numeric buttons to select a projector)

18 **ID** switch (enables or disables ID settings)

19 Remote port (connects to a remote control cable)

20 **Help** button (accesses projector help information)

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

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

23 **Default** button (resets settings to their default values in the projector menu system)

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

25 **Focus** button (focuses the image)

26 **Shutter** button (turns signal on or off temporarily)

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

28 **Search** button (searches for connected sources)

29 Light button (lights up the buttons temporarily)

30 Indicator light (lights up when the remote control is in use)

31 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
Removing and Attaching the Interface Cover
Projector Connections
Attaching and Removing a Lens
Attaching and Removing the Cable Clips
Installing Batteries in the Remote Control

Projector Placement

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

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

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

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

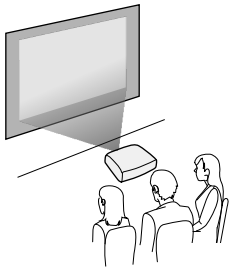
Projector Setup and Installation Options
Projection Distance

Parent topic: Setting Up the Projector

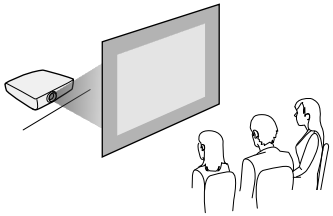
Projector Setup and Installation Options

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

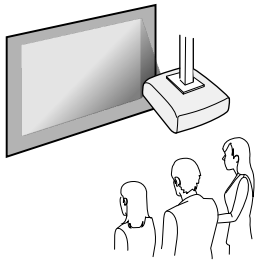
Front



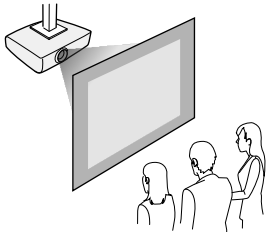
Rear



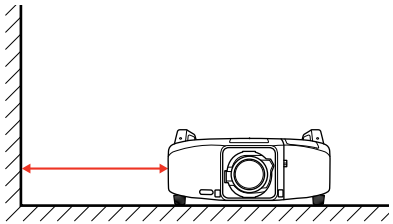
Front/Ceiling mounted

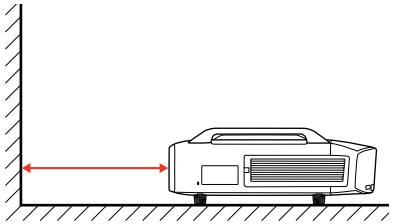


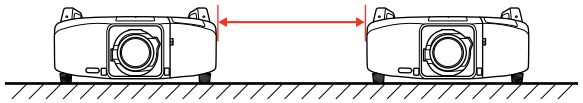
Rear/Ceiling mounted



Note: Be sure to leave at least 20 inches (50 cm) of space in front of the air exhaust and intake vents and, when setting up multiple projectors, 20 inches (50 cm) of space between the projectors.

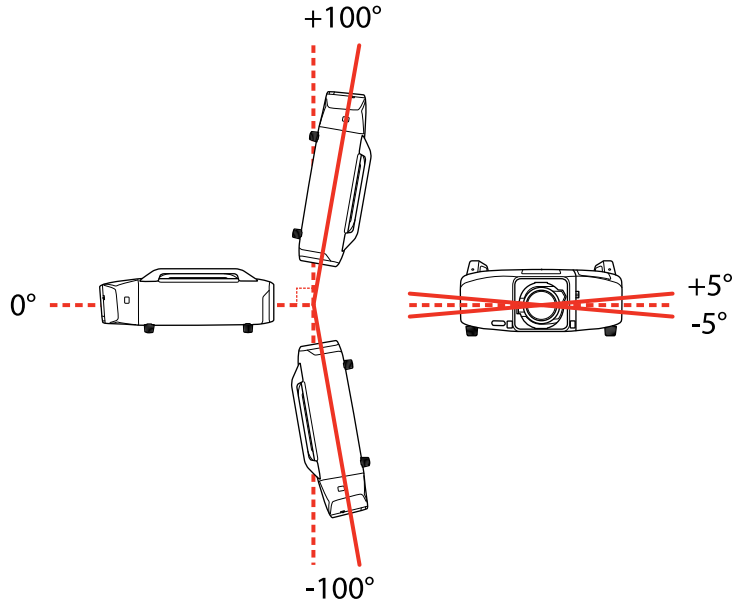






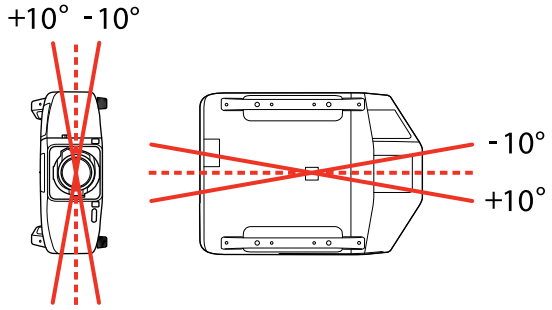
If you mount the projector for standard lamp use, you can tilt it at the following angles:

- **Vertically**: Any angle up to ±100°.
- **Horizontally**: Within the range of ±5°.

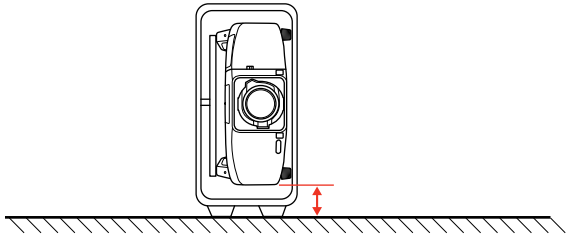


If you mount the projector for portrait lamp use, you can tilt it at the following angles:

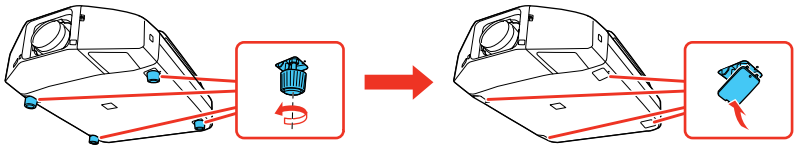
- **Vertically**: Any angle up to ±10°.
- **Horizontally**: Within the range of up to ±10°.



Note: The optional installation frame (ELPMB44) and portrait lamps (ELPLP83/ELPLP84) are required when using portrait projection. Be sure to mount the projector with the air intake vent facing down and at least 4 inches (10 cm) of space between the projector and the mounting surface as shown.

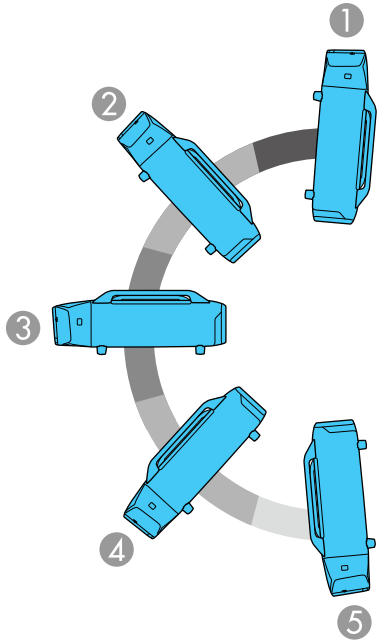


If you project from the ceiling, remove the projector's feet and attach the foot covers as shown.



Note: Do not remove the projector's handles.

Set the **Direction** setting in the Extended menu to one of the following settings so that operations on the screen match the control panel button commands.



1 **Pointing Up**

2 **Angled Up**

3 **Normal**

4 **Angled Down**

5 **Pointing Down**

Parent topic: Projector Placement

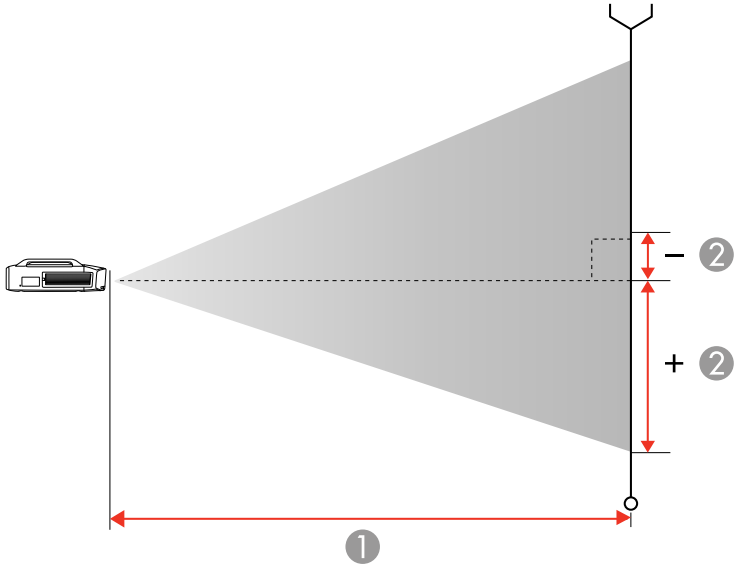
Related references

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 projector Throw Distance Calculator at epson.com/support (U.S.) or epson.ca/support (Canada).



1 Projection distance

2 Distance from the center of the lens to the base of the image (varies depending on vertical lens shift)

PowerLite Pro Z9800WNL/Z9900WNL/Z11000WNL/Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL

Standard Zoom Lens - 4:3 Aspect Ratio

Screen or image size	Projection distance Wide to Tele	Vertical lens shift Top to Bottom
53 inches	78 to 128 inches (199 to 326 cm)	–3 to 35 inches (–8 to 89 cm)
80 inches	119 to 195 inches (304 to 497 cm)	–5 to 52 inches (–12 to 134 cm)
100 inches	150 to 245 inches (383 to 623 cm)	–6 to 66 inches (–15 to 168 cm)
150 inches	227 to 369 inches (578 to 938 cm)	–9 to 99 inches (–23 to 252 cm)

PowerLite Pro Z9870NL/Z11005NL

Standard Zoom Lens - 4:3 Aspect Ratio

Screen or image size	Projection distance Wide to Tele	Vertical lens shift Top to Bottom
60 inches	76 to 126 inches (194 to 319 cm)	–2 to 38 inches (–5 to 97 cm)
80 inches	103 to 168 inches (261 to 428 cm)	–3 to 50 inches (–7 to 129 cm)
100 inches	129 to 211 inches (329 to 537 cm)	–3 to 63 inches (–8 to 161 cm)
120 inches	156 to 254 inches (396 to 646 cm)	–4 to 76 inches (–10 to 193 cm)

PowerLite Pro Z9800WNL/Z9900WNL/Z11000WNL/Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL

Standard Zoom Lens - 16:9 Aspect Ratio

Screen or image size	Projection distance Wide to Tele	Vertical lens shift Top to Bottom
60 inches	81 to 132 inches (205 to 336 cm)	–5 to 34 inches (–13 to 87 cm)
80 inches	108 to 177 inches (276 to 450 cm)	–7 to 46 inches (–17 to 116 cm)
100 inches	136 to 222 inches (347 to 565 cm)	–8 to 57 inches (–21 to 145 cm)
150 inches	206 to 335 inches (524 to 851 cm)	–12 to 86 inches (–31 to 218 cm)

PowerLite Pro Z9870NL/Z11005NL

Standard Zoom Lens - 16:9 Aspect Ratio

Screen or image size	Projection distance Wide to Tele	Vertical lens shift Top to Bottom
56 inches	78 to 128 inches (197 to 324 cm)	–6 to 34 inches (–17 to 87 cm)
80 inches	112 to 184 inches (285 to 467 cm)	–9 to 48 inches (–24 to 124 cm)
100 inches	141 to 231 inches (359 to 586 cm)	–12 to 60 inches (–30 to 155 cm)
120 inches	213 to 347 inches (542 to 882 cm)	–17 to 91 inches (–45 to 232 cm)

PowerLite Pro Z9800WNL/Z9900WNL/Z11000WNL/Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL

Standard Zoom Lens - 16:10 Aspect Ratio

Screen or image size	Projection distance Wide to Tele	Vertical lens shift Top to Bottom
60 inches	78 to 128 inches (199 to 326 cm)	–3 to 35 inches (–8 to 89 cm)
80 inches	105 to 172 inches (268 to 438 cm)	–4 to 47 inches (–11 to 119 cm)
100 inches	133 to 216 inches (337 to 549 cm)	–5 to 58 inches (–14 to 148 cm)
150 inches	200 to 326 inches (509 to 828 cm)	–8 to 87 inches (–20 to 222 cm)

PowerLite Pro Z9870NL/Z11005NL

Standard Zoom Lens - 16:10 Aspect Ratio

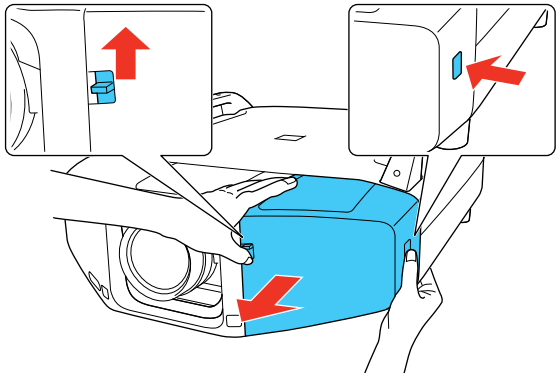
Screen or image size	Projection distance Wide to Tele	Vertical lens shift Top to Bottom
57 inches	77 to 126 inches (195 to 321 cm)	–5 to 35 inches (–13 to 90 cm)
80 inches	109 to 179 inches (277 to 454 cm)	–7 to 49 inches (–18 to 126 cm)
100 inches	137 to 224 inches (349 to 569 cm)	–8 to 61 inches (–22 to 157 cm)
150 inches	208 to 338 inches (527 to 858 cm)	–13 to 92 inches (–34 to 236 cm)

Parent topic: Projector Placement

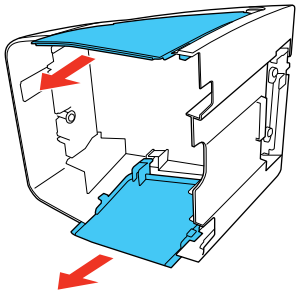
Removing and Attaching the Interface Cover

Remove the interface cover before installing the projector so that it is easier to connect the cables after installation.

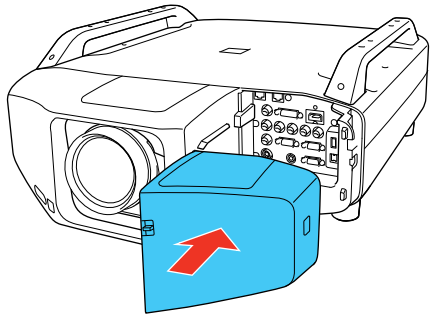
1. Push up and hold the interface cover latch while pressing the button on the side as shown. Pull the interface cover straight off the projector.



2. If you will route the connected cables through the top of the projector, remove the top panel from the interface cover. If you will route the connected cables through the bottom, remove the bottom panel.



3. Align the interface cover with the guides on the projector and slide it until it clicks into place.



Parent topic: Setting Up the Projector

Projector Connections

You can connect the projector to a variety of computer and video sources to display presentations, movies, or other images.

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

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

Connecting to Computer Sources
Connecting to Video Sources
Connecting to an HDBaseT Transmitter
Connecting to an External Computer Monitor

Parent topic: Setting Up the Projector

Related references

Projector Setup Settings - Extended Menu
Product Box Contents

Connecting to Computer Sources

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

Connecting to a Computer for VGA Video
Connecting to a Computer for HDMI Video
Connecting to a Computer for DVI-D Video
Connecting to a Computer for 5 BNC Video

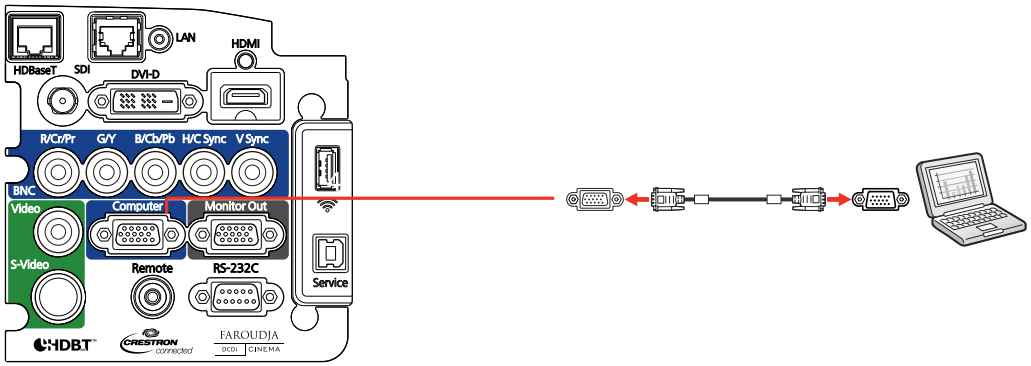
Parent topic: Projector Connections

Connecting to a Computer for VGA Video

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

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

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



4. Tighten the screws on the VGA connector.

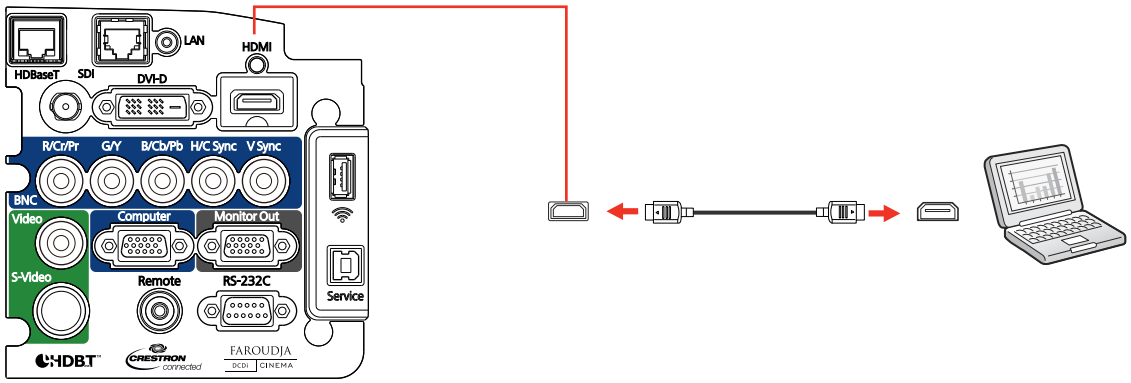
Parent topic: Connecting to Computer Sources

Connecting to a Computer for HDMI Video

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

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

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



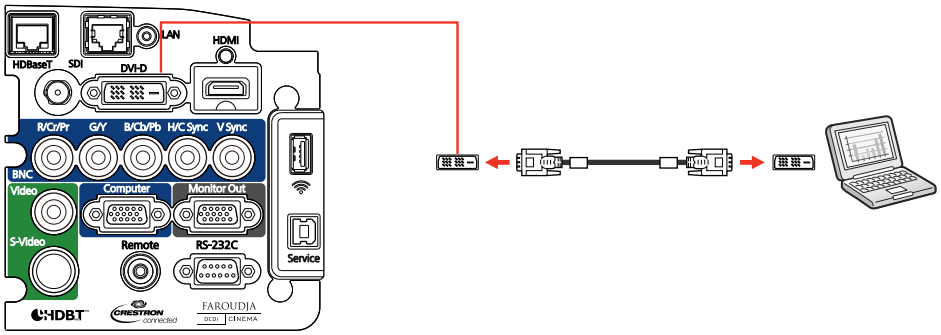
Parent topic: Connecting to Computer Sources

Connecting to a Computer for DVI-D Video

If your computer has a DVI-D connector, you can connect it to the projector using an optional DVI-D cable.

1. Connect the DVI-D cable to your computer's DVI-D connector.

2. Connect the other end to the projector's **DVI-D** connector.

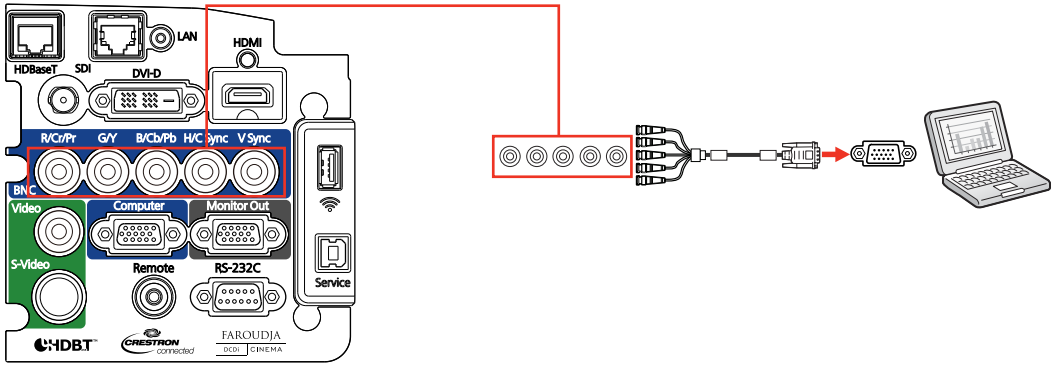


Parent topic: Connecting to Computer Sources

Connecting to a Computer for 5 BNC Video

You can connect the projector to your computer using an optional VGA-to-5-BNC cable.

1. Connect the VGA connector to your computer's monitor port.
2. Connect the 5 BNC connectors to the projector's **BNC** ports.



Parent topic: Connecting to Computer Sources

Connecting to Video Sources

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

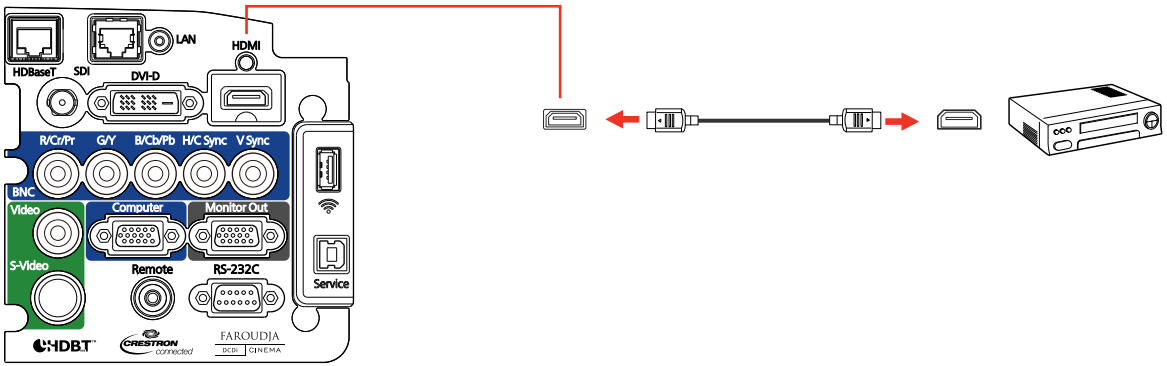
Connecting to an HDMI Video Source
Connecting to a Component-to-BNC Video Source
Connecting to a Component Video Source
Connecting to an S-Video Video Source
Connecting to a Composite Video Source
Connecting to an SDI Video Source

Parent topic: Projector Connections

Connecting to an HDMI Video Source

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

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



Parent topic: Connecting to Video Sources

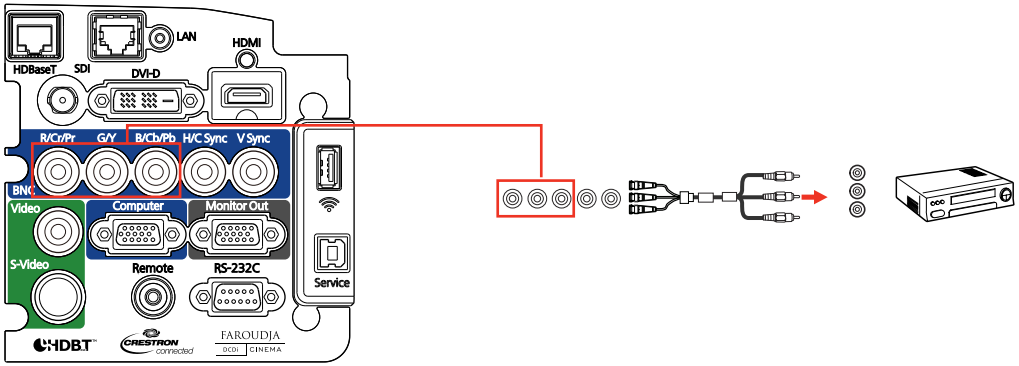
Related tasks

Attaching and Removing the Cable Clips

Connecting to a Component-to-BNC Video Source

If your video source has component video ports, you can connect it to the projector using an optional component-to-BNC 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 BNC connectors to the projector's **R/Cr/Pr**, **G/Y**, **B/Cb/Pb** ports.



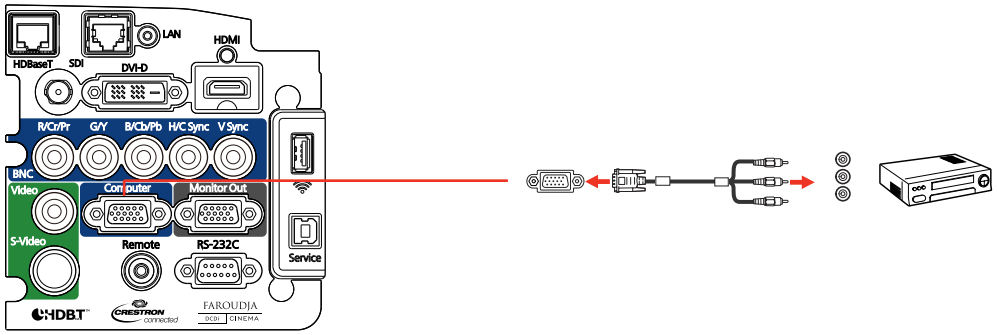
Parent topic: Connecting to Video Sources

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

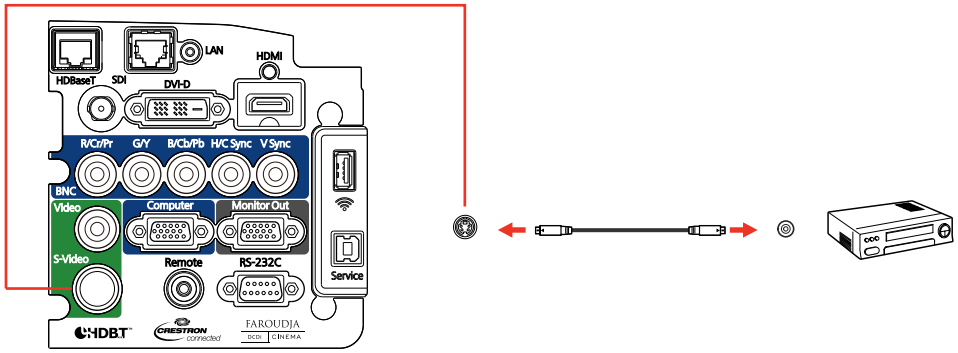
Related references

Input Signal Settings - Signal Menu

Connecting to an S-Video Video Source

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

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

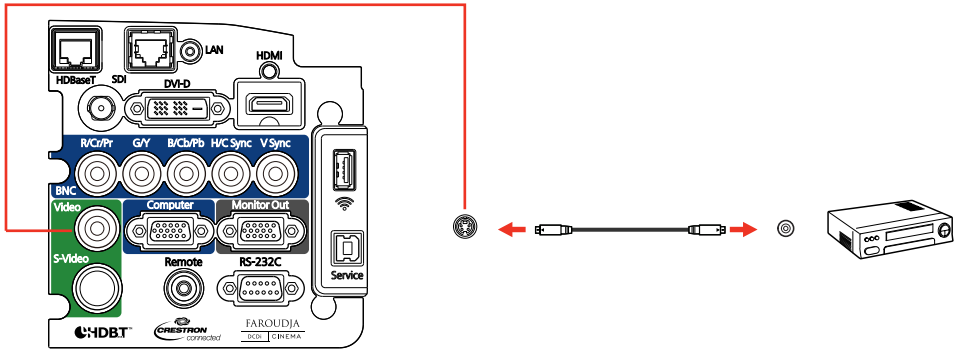


Parent topic: Connecting to Video Sources

Connecting to a Composite Video Source

If your video source has a composite video port, you can connect it to the projector using an optional BNC-style, composite video cable.

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



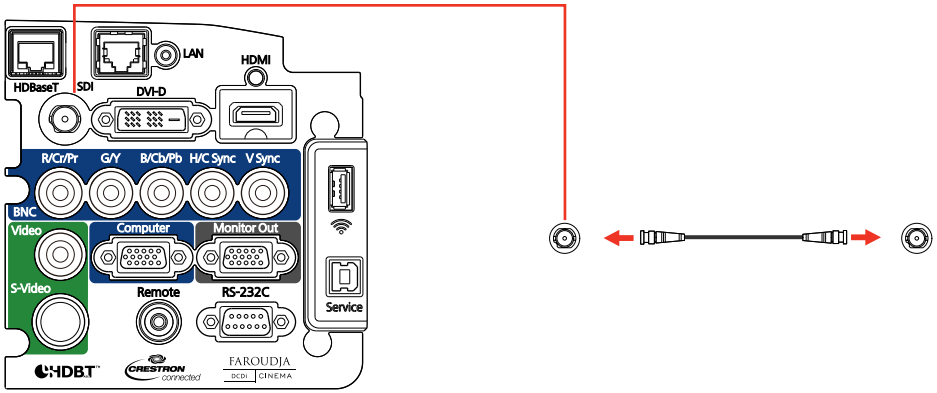
Parent topic: Connecting to Video Sources

Connecting to an SDI Video Source

If your video source has an SDI port, you can connect it to the projector using an optional BNC video cable (PowerLite Pro Z9870UNL/Z10000UNL/Z10005UNL).

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

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



Parent topic: Connecting to Video Sources

Connecting to an HDBaseT Transmitter

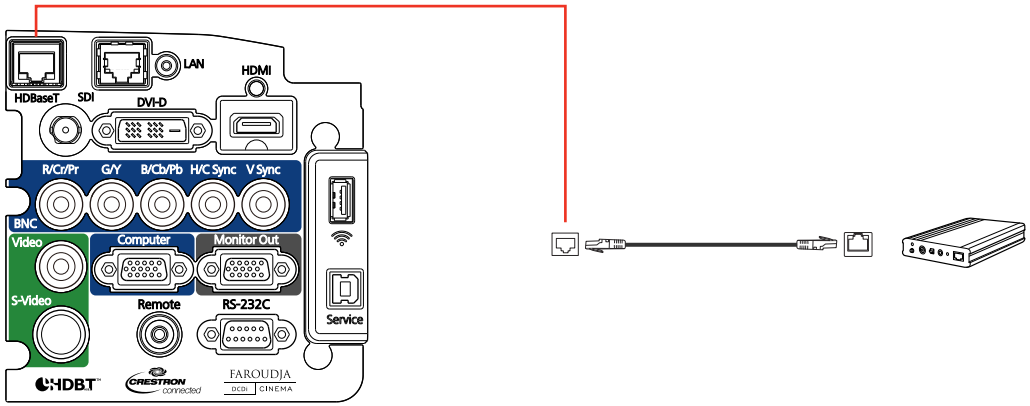
To send an HDMI or RS-232C signal over a long distance, you can connect the projector to an optional HDBaseT transmitter using a 100Base-TX network cable. This is useful when you want to send a signal to or control the projector from a remote location, such as in a hall or event site, since you can use a network cable up to 328 feet (100 m) in length. To ensure proper data transmission, use a Category 5e STP cable or better.

1. Turn off the projector and HDBaseT transmitter.

   Note: Make sure the projector and HDBaseT transmitter are turned off when connecting or disconnecting a network cable between the two devices.

2. Connect one end of the network cable to the **HDBaseT** port on the transmitter.

3. Connect the other end to the projector's **HDBaseT** port.



See the documentation that came with the HDBaseT transmitter for instructions on connecting it to your video device or computer.

4. Turn on the projector and HDBaseT transmitter.

Note: To enable communication from the Ethernet and serial ports on the transmitter, select **On** as the **Control Communications** setting in the projector's Extended menu. Turning on this setting disables the projector's **LAN**, **RS-232C**, and **Remote** ports.

Parent topic: Projector Connections

Related references

Projector Setup Settings - Extended Menu

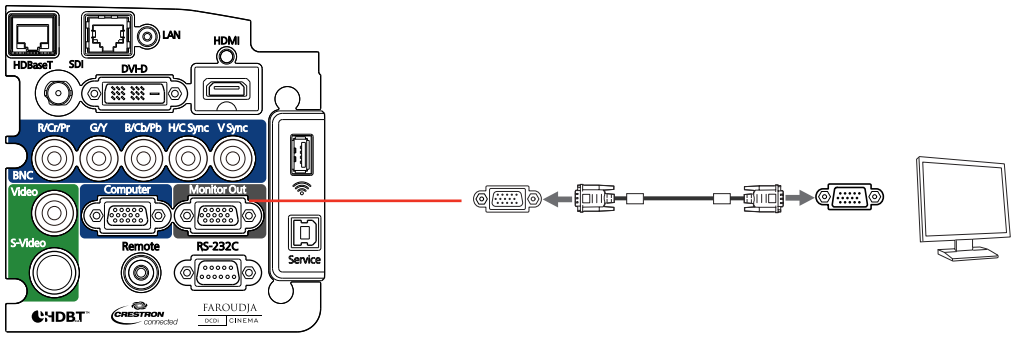
Connecting to an External Computer Monitor

If you connected a computer to the projector's **Computer** or **BNC** 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 **Communication On** as the **Standby Mode** setting and **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** or **BNC** port.
2. Connect the external monitor's cable to your projector's **Monitor Out** port.



Note: If you do not see an image on the external monitor, you may need to change the **Monitor Out** setting in the Extended menu.

Parent topic: Projector Connections

Related references

Projector Setup Settings - Extended Menu

Attaching and Removing a Lens

Follow the instructions in these sections to attach or remove a compatible lens.

Removing a Lens

Attaching a Lens

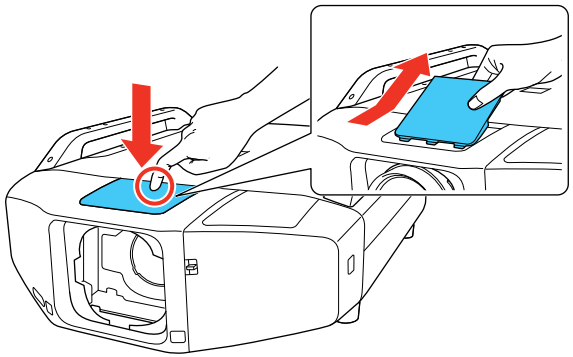
Parent topic: Setting Up the Projector

Removing a Lens

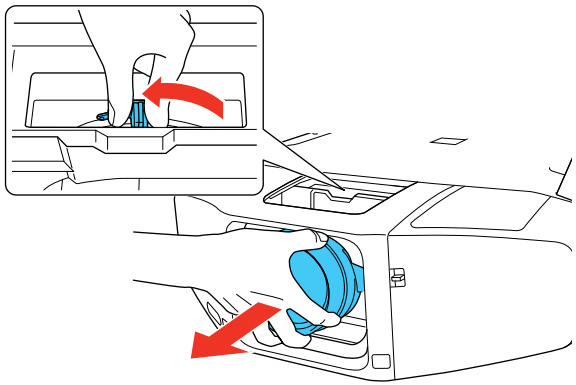
You can remove a lens to replace it with a different lens.

Caution: Remove the lens only when necessary and make sure the front of the projector is not facing up when you remove the lens. This prevents dirt or dust from entering the projector and lowering the projection quality. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

1. Center the lens using the **Lens Shift** button.
2. Turn off the projector.
3. Press down on the lens cover and lift it off of the projector.



4. Hold the lens firmly as you slide the lock lever to the **Release** position (counterclockwise) until you hear it click.



5. Gently pull the lens straight out of the projector.

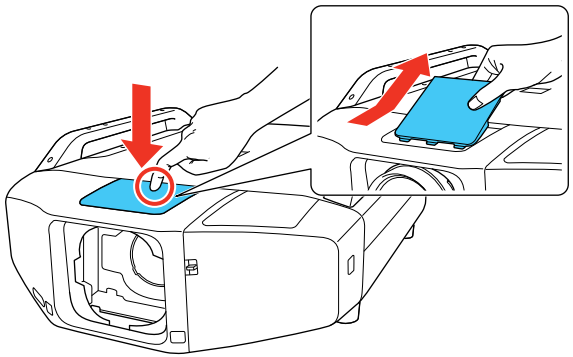
Parent topic: Attaching and Removing a Lens

Attaching a Lens

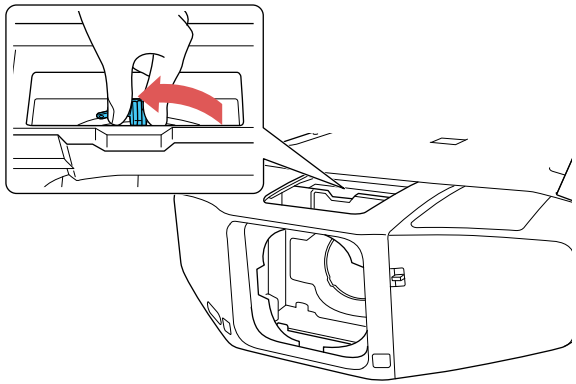
You can attach a compatible lens to the projector.

Caution: Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

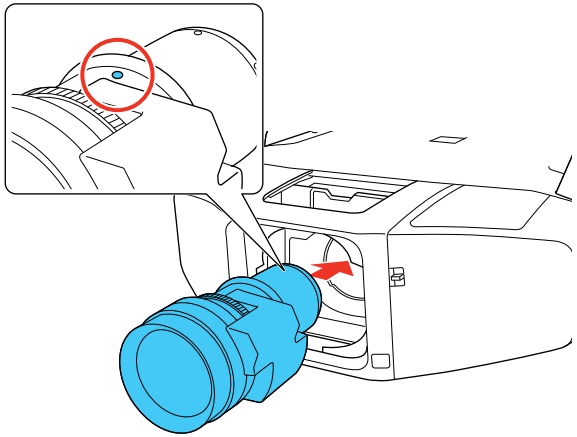
1. Press down on the lens cover and lift it off of the projector.



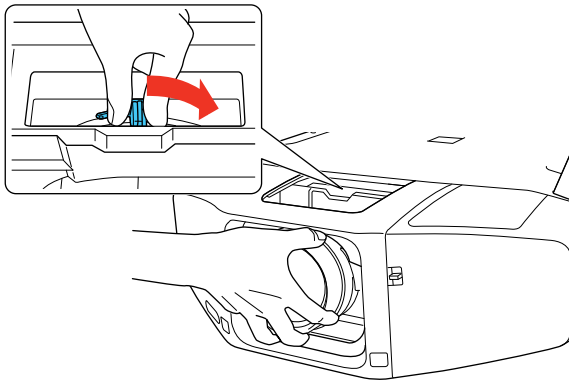
2. Slide the lock lever to the **Release** position (counterclockwise) until you hear it click.



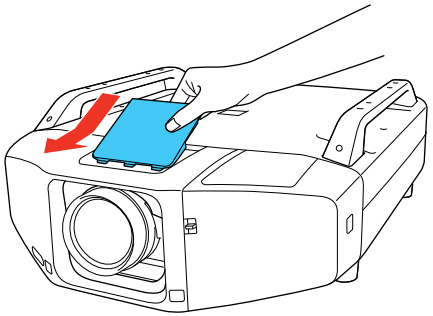
3. Insert the lens straight into the projector's lens socket with the white dot facing up.



4. Hold the lens firmly and slide the lock lever to the **Lock** position (clockwise) until it locks.



5. Replace the lens cover.



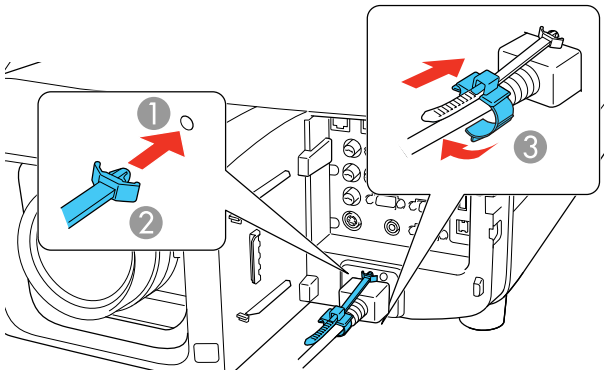
6. Set the **Lens Type** setting in the Extended menu for the type of lens you installed.

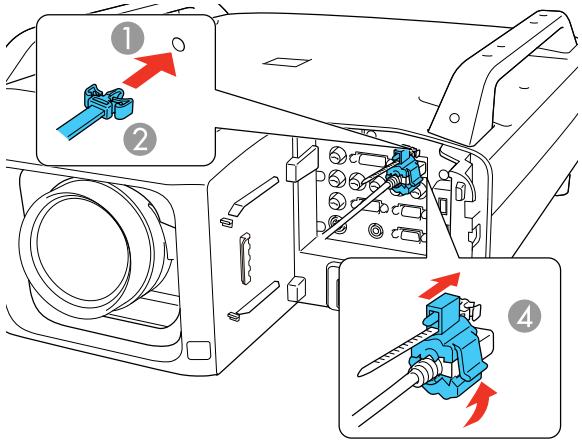
Parent topic: Attaching and Removing a Lens

Attaching and Removing the Cable Clips

You can install the cable clips that came with your projector to provide additional support to the power cord and HDMI cable.

1. Connect the power cord and HDMI cable to the projector.
2. Insert the end of each cable clip anchor into the cable clip slot above the power inlet and **HDMI** port as shown.





1 Cable clip slot
2 Cable clip anchor
3 Power cable clip
4 HDMI cable clip

3. Place the open cable clips around the power cord and HDMI cable, but do not lock them.
4. Slide each cable clip onto the anchors and lock the clips onto the power and HDMI anchors as shown.

To remove the cable clips, open the clips and disconnect the cables. Then pinch the sides of each cable clip anchor and carefully pull them out of the cable clip slots.

Parent topic: Setting Up the Projector

Related tasks

Connecting to a Computer for HDMI Video

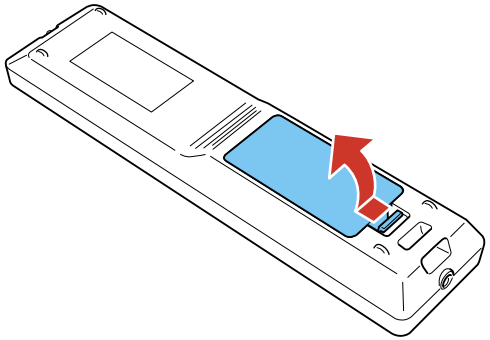
Connecting to an HDMI Video Source

Installing Batteries in the Remote Control

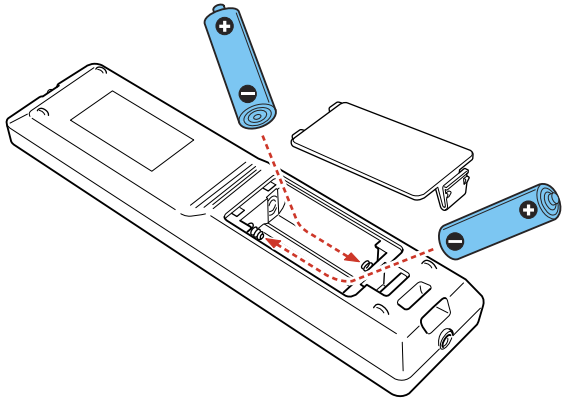
The remote control uses the two AA batteries that came with the projector.

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

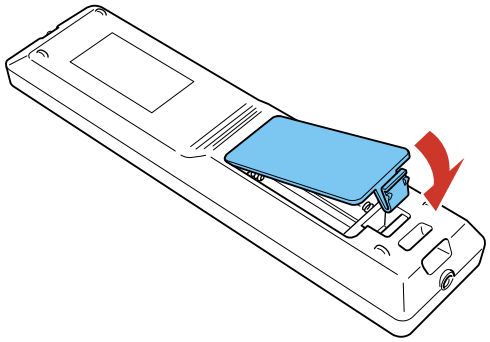
1. Remove the battery cover.



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



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



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

Parent topic: Setting Up the Projector

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
Controlling a Networked Projector Using a Web Browser
Crestron RoomView Support

Wired Network Projection

You can send images to your projector through a wired network. To do this, you connect the projector to your network, and then set up your projector and computer for network projection.

After connecting and setting up the projector as described here, install the network software from the *Epson Projector Software* CD or download the software as necessary. Use the following software and documentation to set up, control, and monitor network projection:

- EasyMP Network Projection software sets up your computer for network projection. See the *EasyMP Network Projection Operation Guide* for instructions.
- EasyMP Monitor software (Windows only) 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.) or epson.ca/support (Canada) and select your projector.
- EasyMP Multi PC Projection software allows you to hold interactive meetings by projecting the computer screens of users over a network. See the *EasyMP Multi PC Projection Operation Guide* for instructions.
- EasyMP Network Updater software (Windows only) allows you to update firmware for a projector over a wired LAN. See the *EasyMP Network Updater Operation Guide* for instructions. You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector.
- Projection from iOS or Android devices using the free Epson iProjection app (if your projector is connected via a LAN cable to a network that includes a wireless access point); visit epson.com/projectorapp (U.S.) or epson.ca/projectorapp (Canada) for more information.

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 EasyMP Network Projection software.

Connecting to a Wired Network
Selecting Wired Network Settings

Parent topic: Using the Projector on a Network

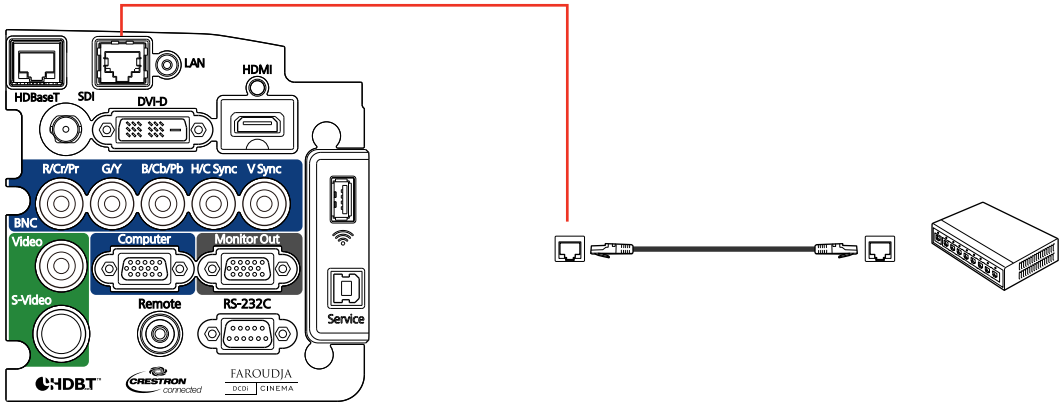
Related references

Projector Network Settings - Network Menu

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 5e shielded cable or better.

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



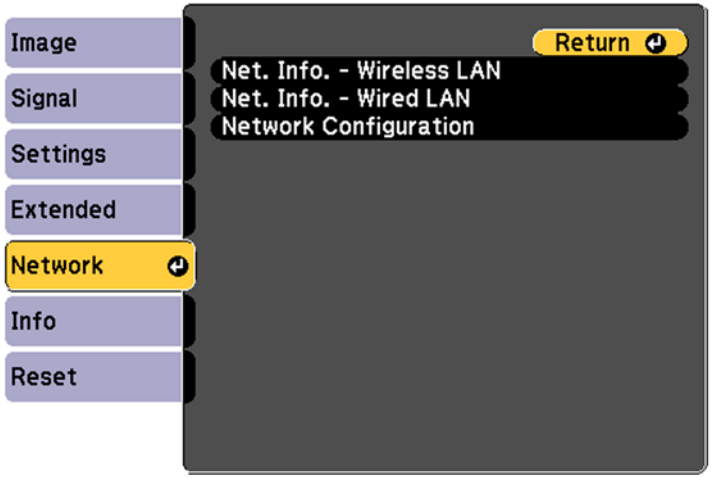
Parent topic: Wired Network Projection

Selecting Wired Network Settings

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

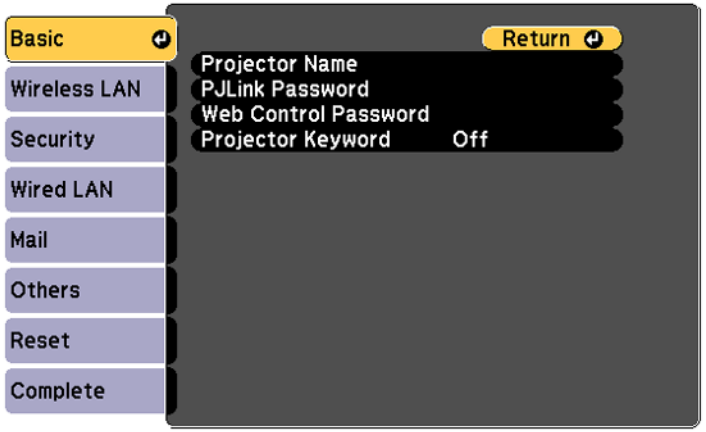
Note: Make sure you already connected the projector to your wired network using the **LAN** port.

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



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

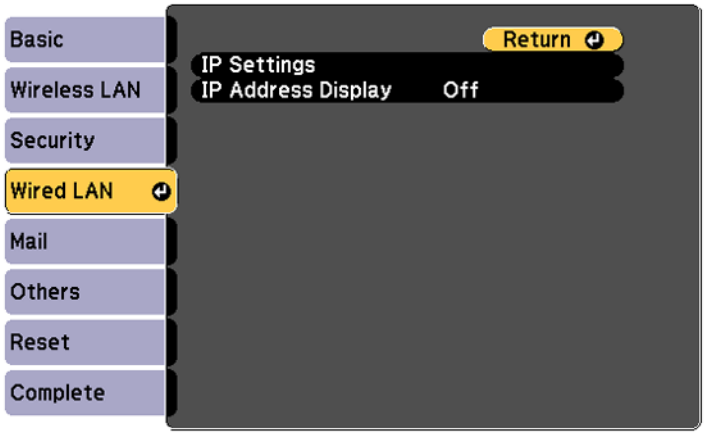
5. Select the **Basic** menu and press **Enter**.



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

   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. 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 send images to your projector through a wireless network. To do this, you must install the optional Epson 802.11b/g/n wireless LAN module, and then set up your projector and computer for wireless projection.

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 EasyMP Network Projection software without the need for the optional wireless module.

After installing the module and setting up the projector, install the network software from the *Epson Projector Software* CD or download the software, as necessary. Use the following software and documentation to set up, control, and monitor wireless projection:

- EasyMP Network Projection software sets up your computer for wireless network projection. See the *EasyMP Network Projection Operation Guide* for instructions.
- EasyMP Monitor software (Windows only) 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.) or epson.ca/support (Canada) and select your projector.
- EasyMP Multi PC Projection software allows you to hold interactive meetings by projecting the computer screens of users over a network. See the *EasyMP Multi PC Projection Operation Guide* for instructions.
- EasyMP Network Updater software (Windows only) allows you to update firmware for a projector over a wired LAN. See the *EasyMP Network Updater Operation Guide* for instructions. You can download the latest software and documentation from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector.
- Projection from iOS or Android devices with the wireless LAN module and free Epson iProjection app; visit epson.com/projectorapp (U.S.) or epson.ca/projectorapp (Canada) for more information

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

Parent topic: Using the Projector on a Network

Related references

Optional Equipment and Replacement Parts

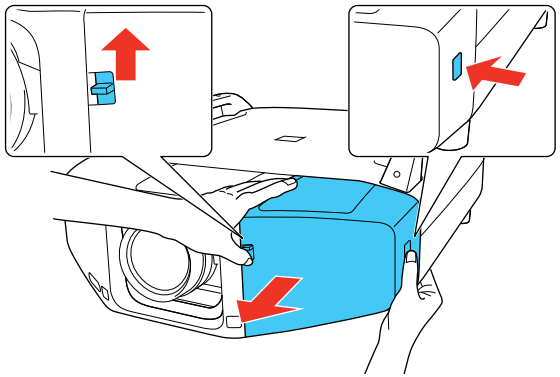
Installing the Wireless LAN Module

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

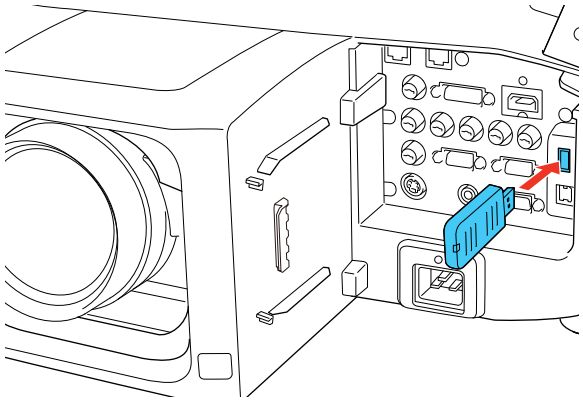
Caution: Never remove the LAN module while its indicator light is green or flashing, or while you are projecting wirelessly. You may damage the module or lose data.

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

1. Push up and hold the interface cover latch while pressing the button on the side as shown. Pull the interface cover straight off the projector.



2. Insert the wireless LAN module into the port.



Parent topic: Wireless Network Projection

Related references

Optional Equipment and Replacement Parts

Using Quick Wireless Connection (Windows Only)

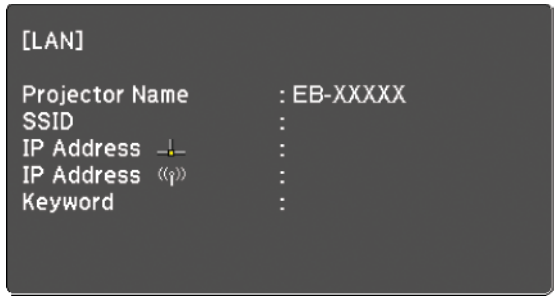
You can use the Quick Wireless Connection USB key to quickly connect your computer to the projector wirelessly. Then you can project your presentation and remove the key when you are done.

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

Note: Make sure the wireless LAN module is installed. The wireless LAN module is not included with your projector and is optional.

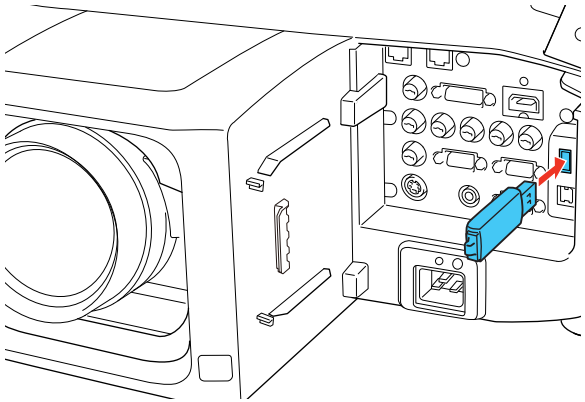
1. Turn on the projector.
2. Press the **LAN** button on the remote control.

   You see a screen like this:



3. Verify that an SSID and IP address are displayed, then remove the wireless LAN module from the projector if necessary.

4. Insert the Quick Wireless Connection USB key into the same port used for the wireless LAN module.



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

5. Remove the USB key.
6. Reinsert the wireless LAN module into the projector.
7. Connect the USB key to a USB port on your computer or laptop.

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

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

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

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

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

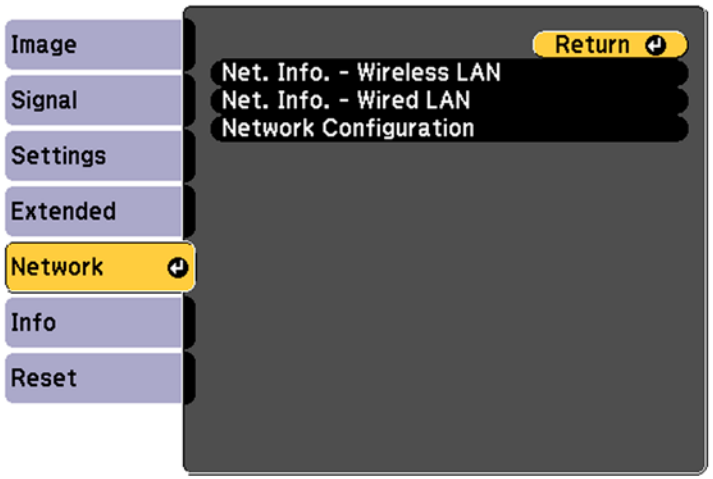
    Note: You may need to restart your computer to reactivate your wireless LAN connection.

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings Manually

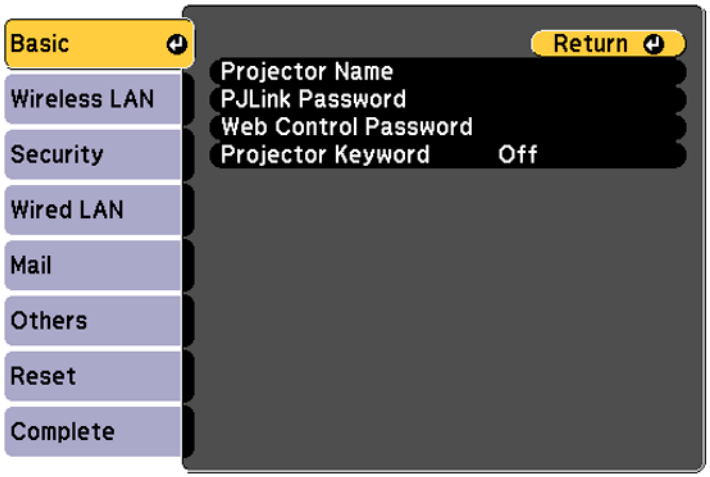
Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

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



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

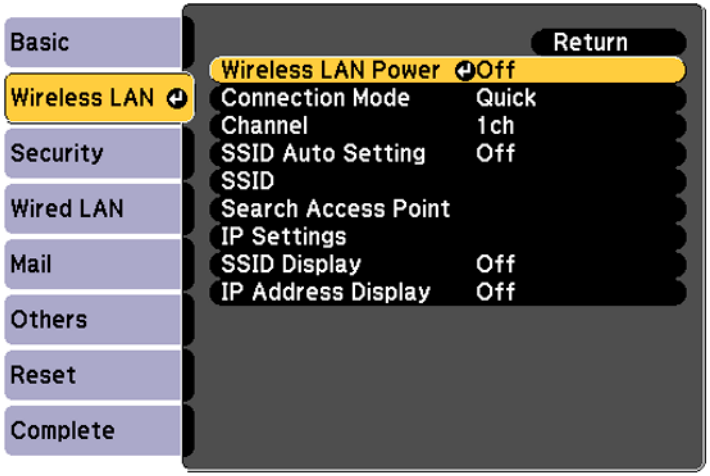
5. Select the **Basic** menu and press **Enter**.



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

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



8. Select the settings on the **Wireless LAN** menu as necessary for your network.
9. 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.

Wireless LAN Menu Settings

Parent topic: Wireless Network Projection

Wireless LAN Menu Settings

Setting	Options	Description
Wireless LAN Power	**On** **Off**	Turns on wireless LAN support

Setting	Options	Description
Connection Mode	**Quick** **Advanced**	Selects the type of wireless connection: **Quick**: lets you quickly connect to one computer (Ad Hoc) or use the optional Quick Wireless Connection USB Key to connect **Advanced**: lets you connect to multiple computers via a wireless network access point
Channel	**1ch** **6ch** **11ch**	In **Quick** connection mode, selects the frequency band (channel) used by the wireless LAN
SSID Auto Setting	**On** **Off**	Turns on automatic SSID searching in **Quick** connection mode; set to **Off** when connecting to multiple projectors at the same time
SSID	Up 32 alphanumeric characters	Sets the SSID (network name) of the wireless LAN system the projector is connecting to
Search Access Point	**To Search View**	Search for available wireless network access points in **Advanced** connection mode
IP Settings	**DHCP** (**On** or **Off**) **IP Address** **Subnet Mask** **Gateway Address**	Selects DHCP if your network assigns addresses automatically, or turns off DHCP so you can enter the network's IP address, subnet mask, and gateway address as needed
SSID Display	**On** **Off**	Selects whether to display the SSID on the network standby screen

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

Parent topic: Selecting Wireless Network Settings Manually

Selecting Wireless Network Settings in Windows

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

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

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings in OS X

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

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

Parent topic: Wireless Network Projection

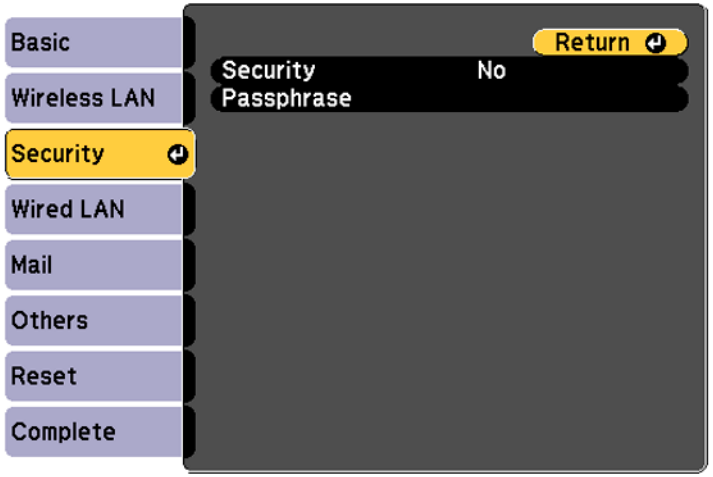
Setting Up Wireless Network Security

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

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

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

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



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

Wireless Security Menu Settings

Parent topic: Wireless Network Projection

Wireless Security Menu Settings

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

Setting	Options	Description
Security	**WPA2-PSK** and **WPA** types available	Selects the type of security used on the wireless network

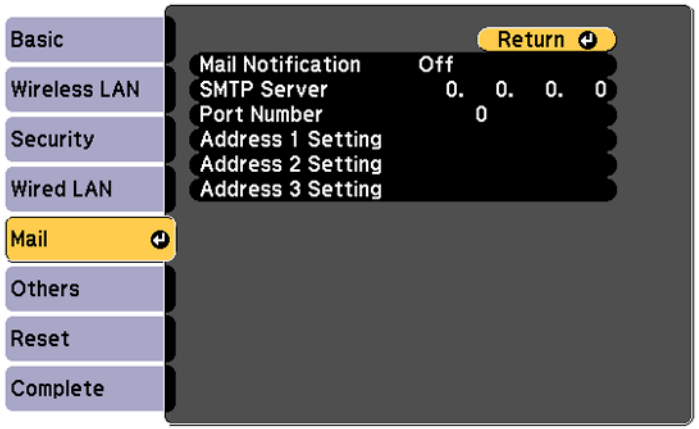
Setting	Options	Description
Passphrase	Various keys from 8 to 32 characters	Selects the pre-shared key used on the network; passphrases are case-sensitive

Parent topic: Setting Up Wireless Network Security

Setting Up Projector Network E-Mail Alerts

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

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



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

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

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

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

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

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

Network Projector E-mail Alert Messages

Parent topic: Using the Projector on a Network

Network Projector E-mail Alert Messages

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

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

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

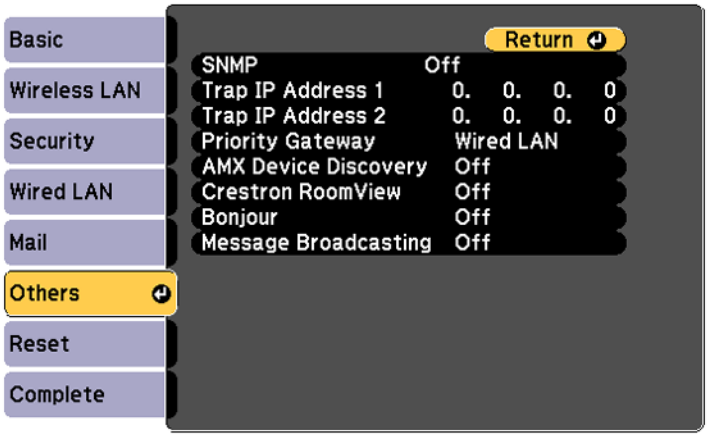
Parent topic: Setting Up Projector Network E-Mail Alerts

Setting Up Monitoring Using SNMP

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

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

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



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

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

6. If available, select the **Priority Gateway** setting for your network.
7. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.
8. If your network environment uses a Crestron RoomView controller, turn on the **Crestron RoomView** setting to allow the projector to be detected.
9. If you are connecting to a network using Bonjour, turn on the **Bonjour** setting.
10. If you want this projector to receive broadcasted messages over the network, turn on the **Message Broadcasting** setting. Administrators can broadcast messages over the network using the Message Broadcasting plug-in for EasyMP Monitor (Windows only).
11. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Parent topic: Using the Projector on a Network

Controlling a Networked Projector Using a Web Browser

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

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

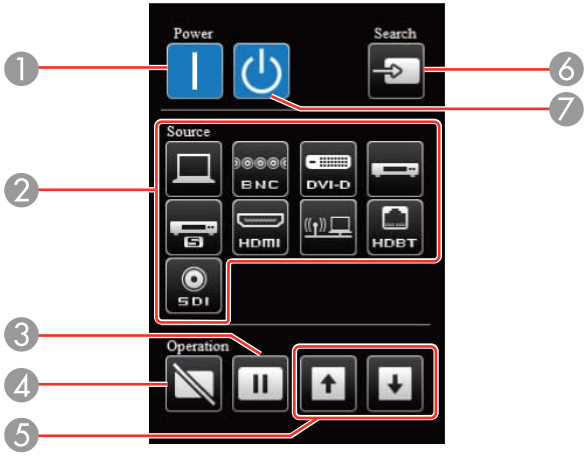
Note: If you set Standby Mode to **Communication On**, you can use a web browser to select settings and control projection even if the projector is in standby mode.

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

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

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

You see a screen like this:



1 Power on button control
2 Input source selection controls (some buttons may not be available depending on the model)
3 **Freeze** button control
4 **Shutter** button control
5 **Page Up** and **Page Down** button controls
6 Source search control
7 Power off button control

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

Operating a Lens from a Web Browser

Parent topic: Using the Projector on a Network

Related references

Projector Setup Settings - Extended Menu

Operating a Lens from a Web Browser

You can operate a lens from the web browser.

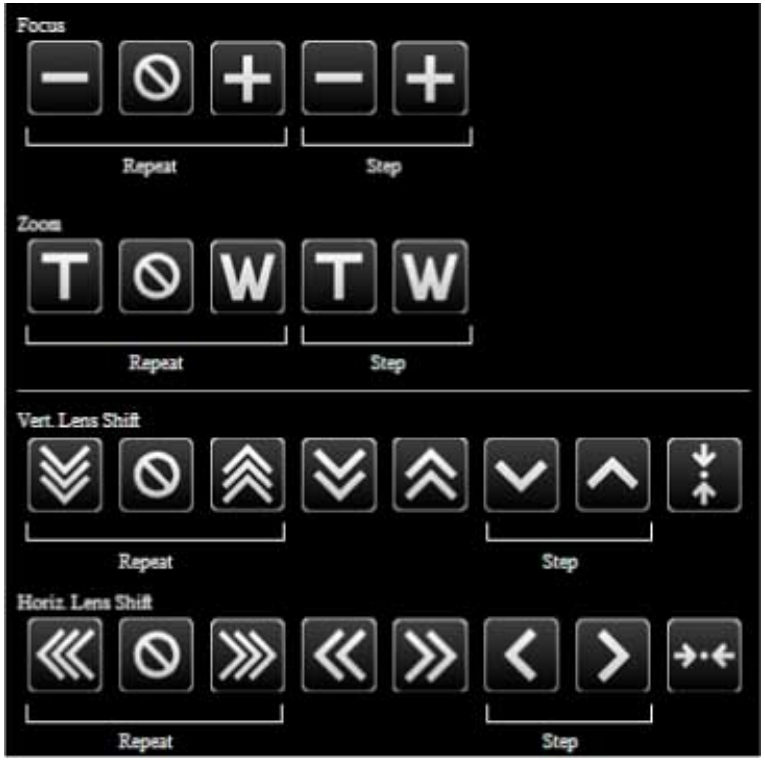
1. Make sure the projector is turned on.
2. Start your web browser on a computer connected to the network.
3. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

   You see the Web Control screen.

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

4. Select the **Lens Control** option.

You see a screen like this:



5. Use the buttons on the screen to adjust the **Focus**, **Zoom**, **Vertical Lens Shift**, and **Horizontal Lens Shift** features.

Parent topic: Controlling a Networked Projector Using a Web Browser

Crestron RoomView Support

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

Note: You cannot use the Epson Web Control feature or the Message Broadcasting plug-in for EasyMP Monitor when you use Crestron RoomView.

For additional information on Crestron RoomView, contact Crestron.

Setting Up Crestron RoomView Support
Controlling a Networked Projector Using Crestron RoomView

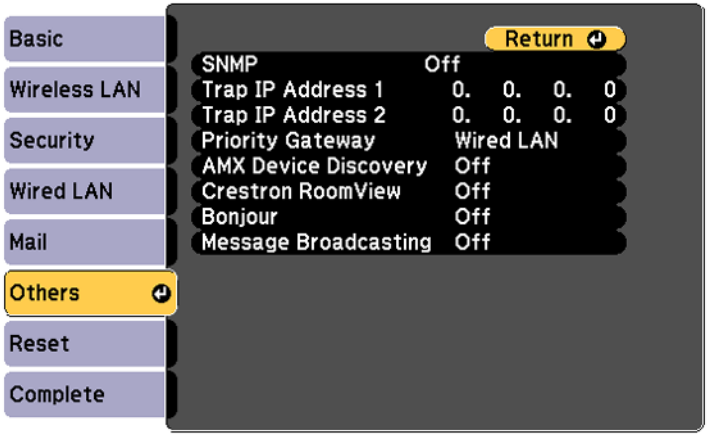
Parent topic: Using the Projector on a Network

Setting Up Crestron RoomView Support

To set up your projector for monitoring and control using a Crestron RoomView system, make sure your computer and projector are connected to the network. If you are connecting wirelessly, set up the projector using the Advanced network connection mode.

Note: If you want to use the Crestron RoomView 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 RoomView** setting to **On** to allow the projector to be detected.

Note: Enabling Crestron RoomView disables the Epson Message Broadcasting feature in the EasyMP Monitor software.

6. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
7. Turn off the projector, then turn it on again to enable the setting.

Parent topic: Crestron RoomView Support

Related references

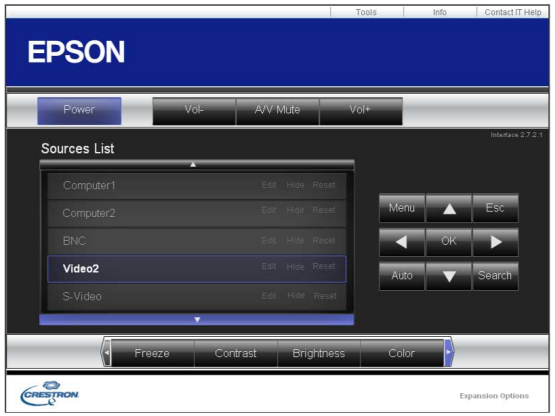
Projector Setup Settings - Extended Menu

Controlling a Networked Projector Using Crestron RoomView

Once you have set up your projector to use Crestron RoomView, 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 this screen:



3. 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.

4. 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

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

Parent topic: Crestron RoomView Support

Using Basic Projector Features

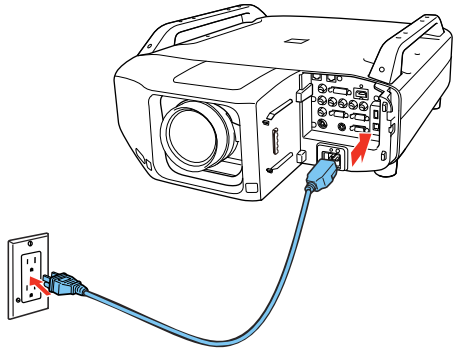
Follow the instructions in these sections to use your projector's basic features.

Turning On the Projector
Turning Off the Projector
Selecting the Language for the Projector Menus
Setting the Screen Type
Adjusting the Image Position Using Lens Shift
Adjusting the Image Position Using Screen Position
Displaying a Test Pattern
Adjusting the Image Height
Image Shape
Resizing the Image with the Zoom Button
Focusing the Image Using the Focus Button
Remote Control Operation
Selecting an Image Source
Selecting the Lamp
Projection Modes
Image Aspect Ratio
Color Mode
Setting the Date and Time

Turning On the Projector

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

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



2. Plug the power cord into an electrical outlet.

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

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

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

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

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

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

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

Parent topic: Using Basic Projector Features

Related references

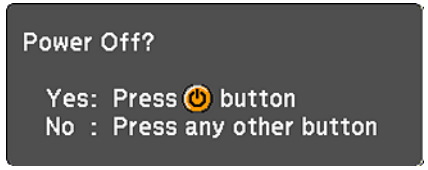
Projector Setup Settings - Extended Menu

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.

1. Press the **Standby** button on the projector or remote control.
2. If you see a shutdown confirmation screen, press the **Standby** button on the projector or remote control again. (To leave the projector on, press any other button.)



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

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

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

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

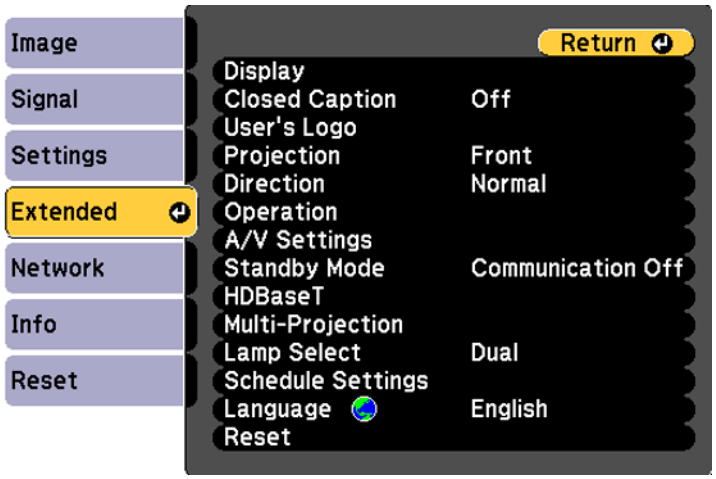
Parent topic: Using Basic Projector Features

Selecting the Language for the Projector Menus

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

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

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



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

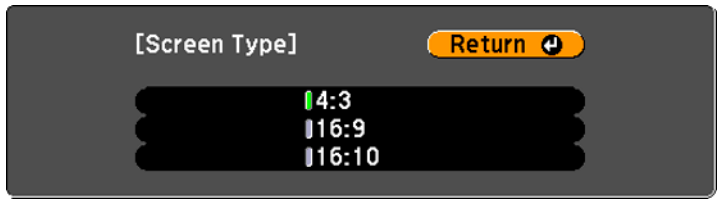
Parent topic: Using Basic Projector Features

Setting the Screen Type

You can use the Screen Type setting to match the aspect ratio of the displayed image to the screen you are using.

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

You see this screen:



5. Select your screen's aspect ratio and press **Enter**.
6. Press the **Menu** button to accept the changes.
7. Adjust the aspect ratio for the projected image, if necessary.

Parent topic: Using Basic Projector Features

Related concepts

Image Aspect Ratio

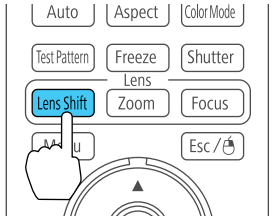
Adjusting the Image Position Using Lens Shift

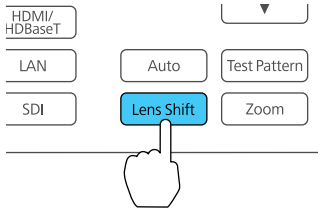
If you cannot install the projector directly in front of the screen, you can adjust the position of the projected image using the lens shift feature.

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

1. Turn on the projector and display an image.

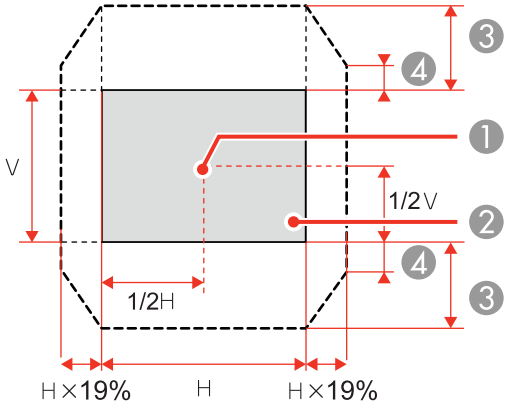
2. Press the **Lens Shift** button on the control panel or remote control.





3. Press the arrow buttons to adjust the position of the projected image as necessary.

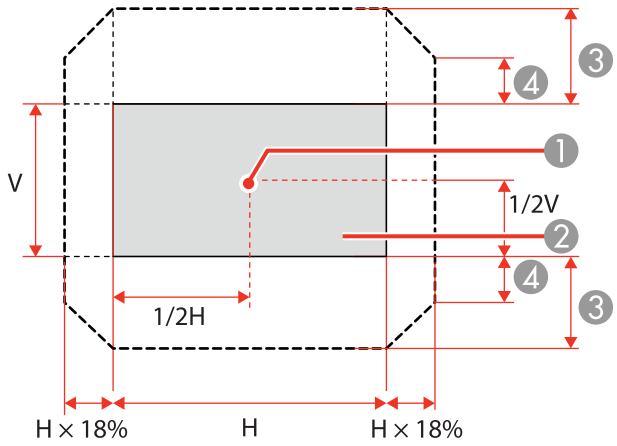
PowerLite Pro Z9870NL/Z11005NL



1 Center of lens
2 Projected image when lens shift is set in the center
3 Maximum vertical range (V × 56%)
4 Maximum horizontal range (H × 19%)

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

PowerLite Pro Z9800WNL/Z9900WNL/Z11000WNL/Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL



1 Center of lens
2 Projected image when lens shift is set in the center
3 Maximum vertical range (V × 60%)
4 Maximum horizontal range (H × 18%)

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

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

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

Parent topic: Using Basic Projector Features

Adjusting the Image Position Using Screen Position

You can adjust the image position if there are margins between the edge of the image and the projected screen frame.

Note: You cannot adjust the screen position if the Screen Type is set to **16:10** for the PowerLite Pro Z9800WNL, Z9900WNL, Z11000WNL, Z9750UNL, Z9870UNL, Z10000UNL, or Z10005UNL models, or **4:3** for the PowerLite Pro Z9870NL and Z11005NL models.

1. Turn on the projector and display an image.
2. Press the **Menu** button.
3. Select the **Extended** menu and press **Enter**.
4. Select **Display** > **Screen** > **Screen Position**.
5. Use the arrow buttons on the remote control or projector to adjust the position of the image.

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

Parent topic: Using Basic Projector Features

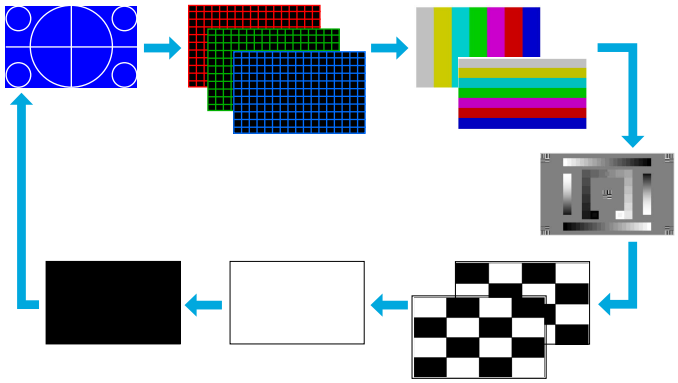
Displaying a Test Pattern

You can display a test pattern to adjust the projected image without connecting a computer or video device.

Note: The test pattern's shape is determined by the Screen Type setting. Be sure to set the correct screen type before adjusting with the test pattern.

1. Turn on the projector.
2. Press the **Test Pattern** button on the remote control or control panel.

3. Press the left or right arrow buttons on the remote control or press **Enter** on the control panel to cycle through the available test patterns.



4. Adjust the image as necessary.
5. Press the **Esc** to exit the test pattern.

Available Test Pattern Image Adjustments

Parent topic: Using Basic Projector Features

Related tasks

Setting the Screen Type

Available Test Pattern Image Adjustments

You can make the following image adjustments while the test pattern is displayed.

Menu	Settings
Image	Color Mode
	Color Temp.
	Advanced • Gamma[1] • RGB • RGBCMY
	Reset
Signal	Auto Setup
Settings	Geometric Correction
Extended	Multi-Projection[2]

[1] Except for custom **Gamma** settings

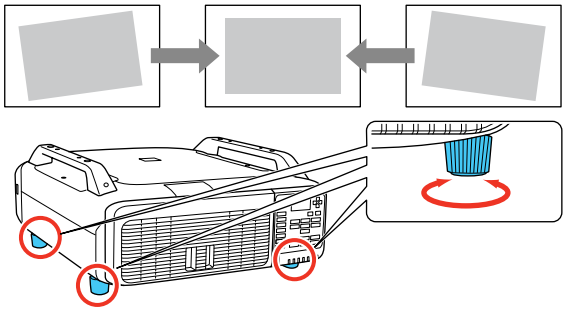
[2] Except for the **Black Level** setting

Parent topic: Displaying a Test Pattern

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 image height, or the projector's horizontal and vertical tilt, rotate the front or rear feet to extend or retract them.



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

Parent topic: Using Basic Projector Features

Related concepts

Image Shape

Related references

Projector Feature Settings - Settings Menu

Image Shape

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

Correcting Image Shape with H/V Keystone

Correcting Image Shape with Quick Corner

Correcting Image Shape with Curved Surface

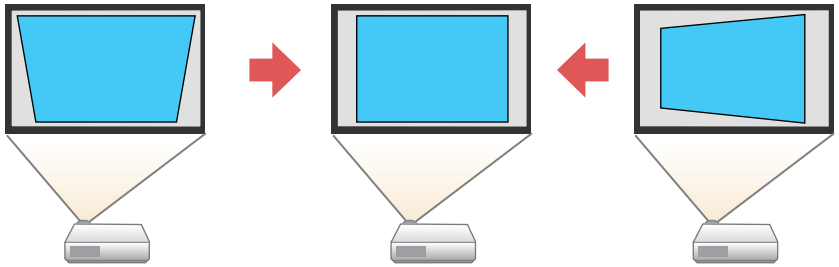
Correcting Image Shape with Point Correction

Correcting Image Shape with Corner Wall

Parent topic: Using Basic Projector Features

Correcting Image Shape with H/V Keystone

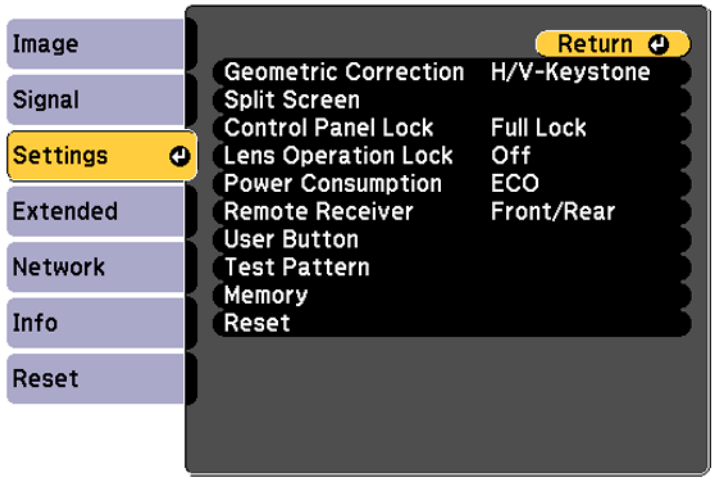
You can use the projector's H/V Keystone setting to correct the shape of an image that is unevenly rectangular on the sides.



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**.

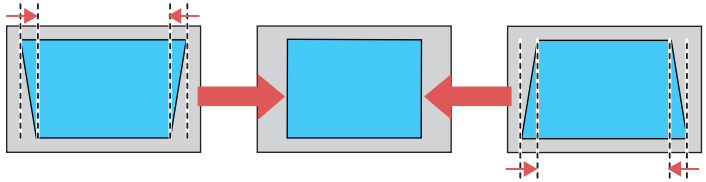


4. Select the **Geometric Correction** setting and press **Enter**.
5. Select the **H/V-Keystone** setting and press **Enter**. Then press **Enter** again.

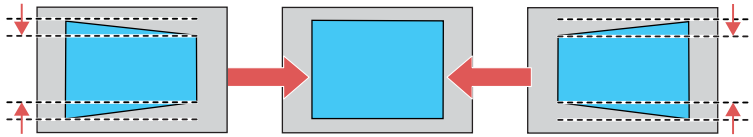
   You see the H/V-Keystone adjustment screen:

6. Use the arrow buttons on the projector or the remote control to select between vertical and horizontal keystone correction and to adjust the image shape as necessary.

V-Keystone



H-Keystone



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

   After correction, your image is slightly smaller.

Parent topic: Image Shape

Related references

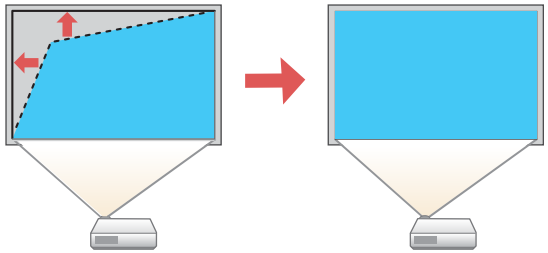
Projector Feature Settings - Settings Menu

Related tasks

Displaying a Test Pattern

Correcting Image Shape with Quick Corner

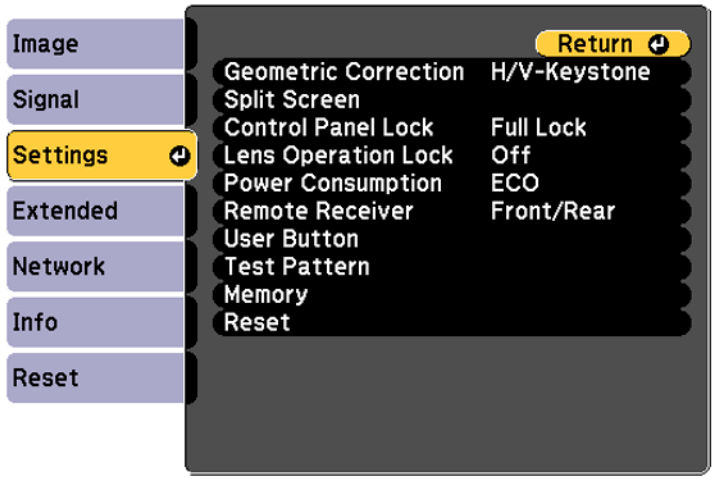
You can use the projector's Quick Corner setting to correct the shape and size of an image that is unevenly rectangular on all sides.



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.

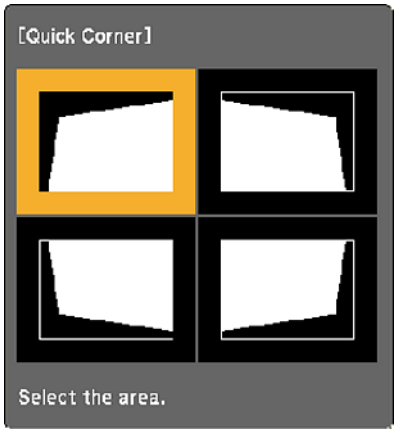
2. Press the **Menu** button.
3. Select the **Settings** menu and press **Enter**.



4. Select the **Geometric Correction** 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 the remote control to select the corner of the image you want to adjust. Then press **Enter**.
7. Press the arrow buttons to adjust the image shape as necessary.
8. When you are finished, press **Esc**.

Parent topic: Image Shape

Related references

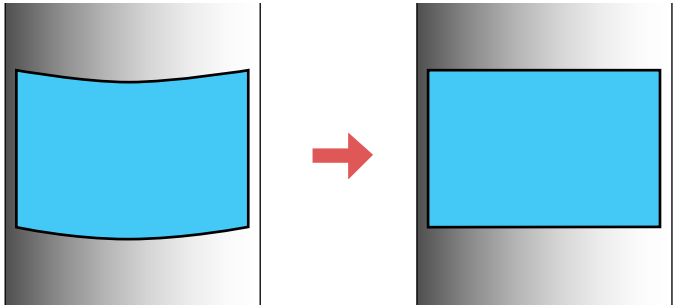
Projector Feature Settings - Settings Menu

Related tasks

Displaying a Test Pattern

Correcting Image Shape with Curved Surface

You can use the projector's Curved Surface setting to adjust the shape of an image projected on a curved surface.



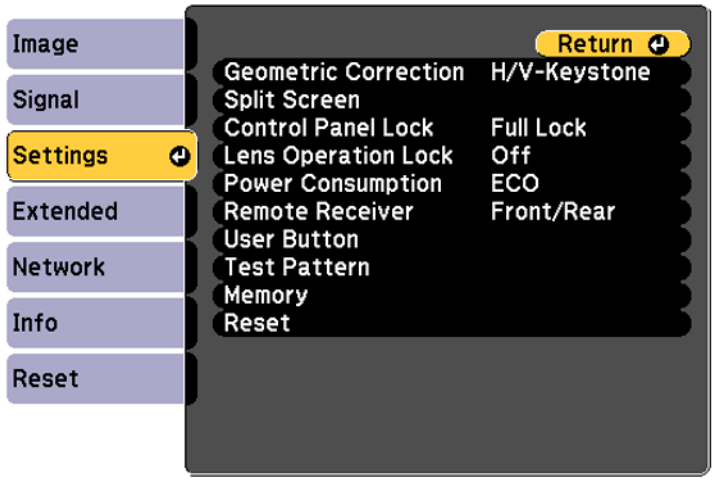
Note: For the best results, keep the lens centered using lens shift. The image may not be evenly focused throughout even after performing the steps here.

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.

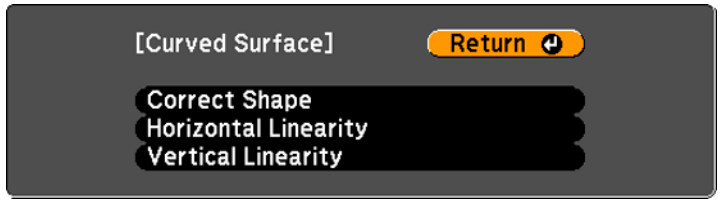
3. Select the **Settings** menu and press **Enter**.



4. Select the **Geometric Correction** setting and press **Enter**.
5. Select the **Curved Surface** setting and press **Enter**.

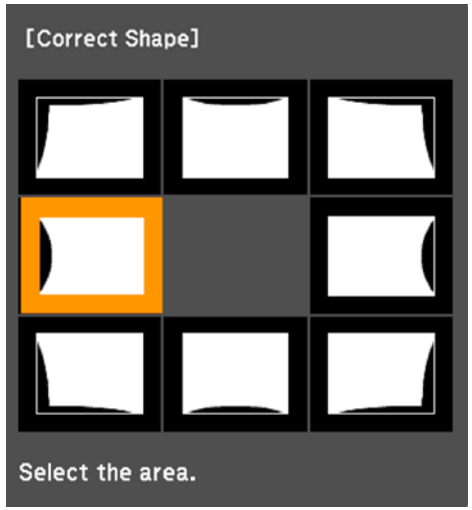
   Note: If you see a confirmation message, press **Enter**.

   You see this screen:



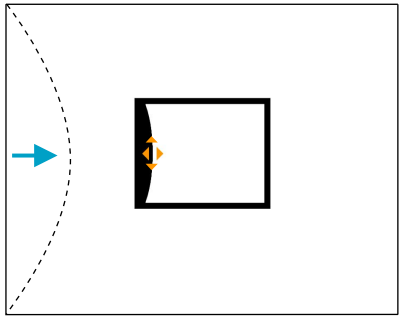
6. Select the **Correct Shape** setting and press **Enter**.

7. Use the arrow buttons on the projector or the remote control to select the area you want to adjust. Then press **Enter**.



Note: To reset your adjustments, press the **Esc** button for at least 2 seconds to display a reset screen, and select **Yes**.

8. Use the arrow buttons on the projector to adjust the image shape.

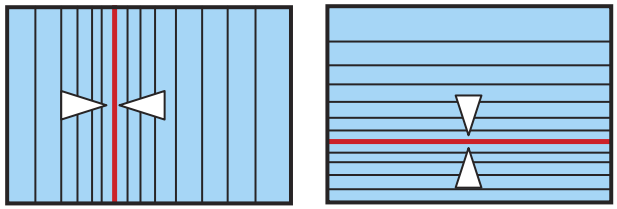


Note: If the adjustment triangle turns gray, you cannot adjust the shape any further in that direction.

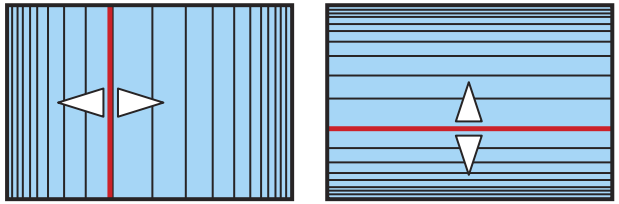
9. Press the **Esc** button to return to the Curved Surface menu screen.
10. Repeat the previous three steps as necessary to adjust other image areas.

    If the image expands or contracts, continue with the next step to adjust the linearity.
11. Select one of the following from the Curved Surface menu screen:
    - **Horizontal Linearity**: Adjusts horizontal expansion or contraction.
    - **Vertical Linearity**: Adjusts vertical expansion or contraction.
12. Select a displayed line to use as a baseline and press **Enter**.

    The selected baseline flashes red and white.
13. Adjust the linearity by doing one of the following:
    - Press the left arrow button to contract the distance between the lines closest to the baseline.



    - Press the right arrow button to expand the distance between the lines closest to the baseline.



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

Note: If necessary, you can fine-tune the results of your Curved Surface adjustments using Point Correction.

Parent topic: Image Shape

Related references

Projector Feature Settings - Settings Menu

Related tasks

Displaying a Test Pattern

Correcting Image Shape with Point Correction

Correcting Image Shape with Point Correction

You can use the projector's Point Correction feature to fine-tune the image shape using points on a grid.

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 **Geometric Correction** setting and press **Enter**.
5. Select the **Point Correction** setting and press **Enter**.

   Note: If you see a confirmation message, press **Enter**.

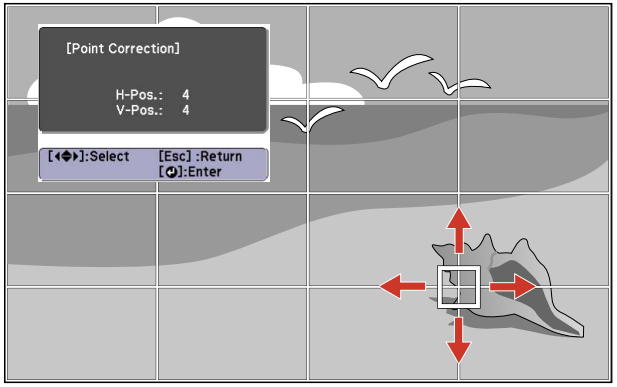
   You see this screen:

6. Select the **Point Correction** setting and press **Enter**.
7. Select the number of grid lines to display and press **Enter**.

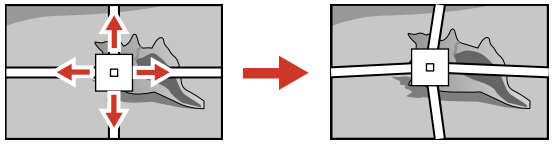
   Note: If you need to change the color of the grid lines, select the **Pattern Color** setting and select a suitable color.

8. Use the arrow buttons on the projector or remote control to move to the point on the grid that you want to adjust. Then press **Enter**.

   The box changes from a single line to a double-lined square.



9. Use the arrow buttons to correct the image shape in all necessary directions.



   Note: You can press **Enter** to show or hide the image and grid to check the results.

10. Press **Esc** to return to the previous screen and select another point to correct, if necessary.
11. When you are finished, press **Menu**.

Parent topic: Image Shape

Related references

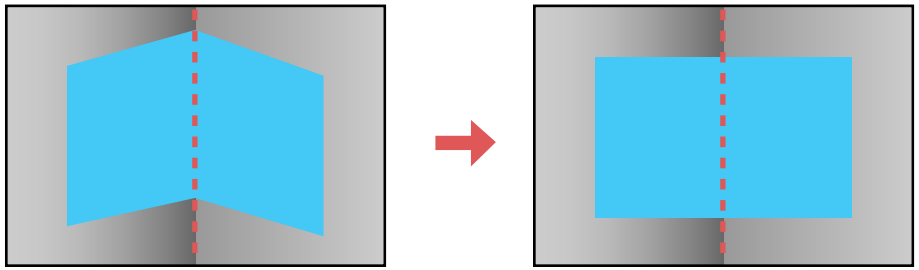
Projector Feature Settings - Settings Menu

Related tasks

Displaying a Test Pattern

Correcting Image Shape with Corner Wall

You can use the projector's Corner Wall setting to adjust the shape of an image projected on a surface with right angles, such as a rectangular pillar or the corner of a room.

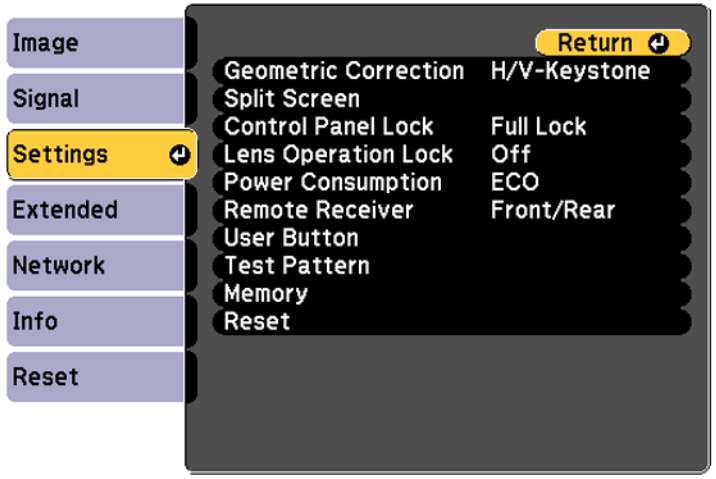


Note: After performing these steps, the image may not be evenly focused throughout.

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.

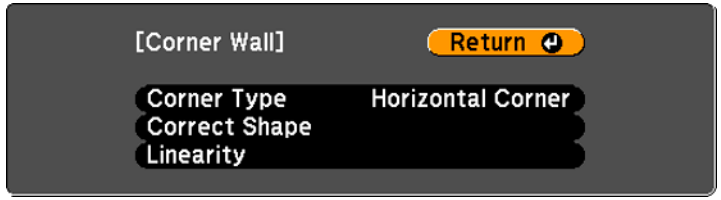
2. Press the **Menu** button.
3. Select the **Settings** menu and press **Enter**.



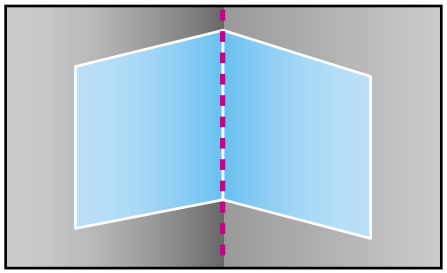
4. Select the **Geometric Correction** setting and press **Enter**.
5. Select the **Corner Wall** setting and press **Enter**.

   Note: If you see a confirmation message, press **Enter**.

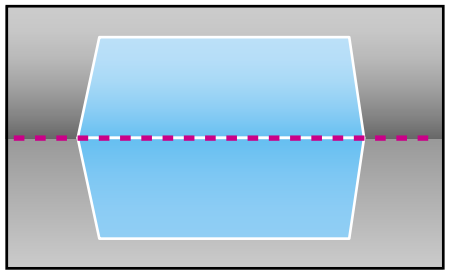
   You see this screen:



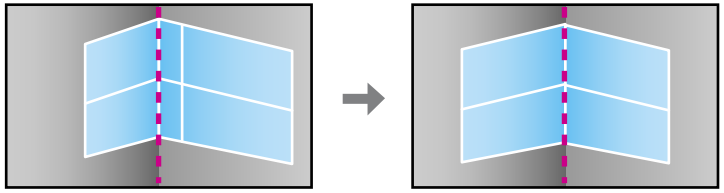
6. Select the **Corner Type** setting and press **Enter**.
7. Select one of the following:
   - **Horizontal Corner** when the surfaces line up horizontally



- **Vertical Corner** when the surfaces line up vertically

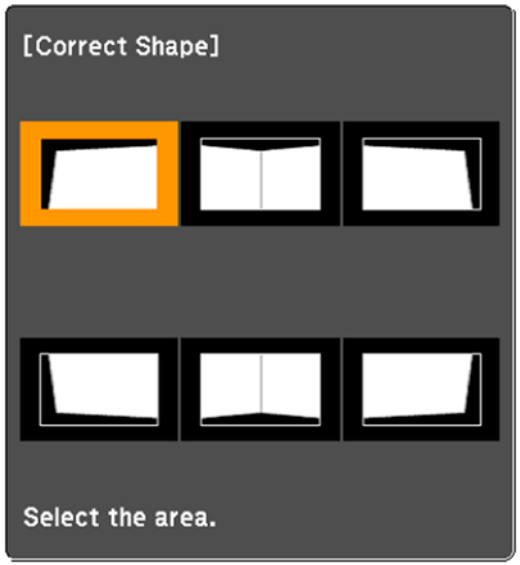


8. Press the **Esc** button to return to the Corner Wall menu screen.
9. Select the **Correct Shape** setting and press **Enter**.
10. Adjust the projector's position and use the lens shift option to center the image over the point where the two surfaces meet. (The rest of these steps show Horizontal Corner as the selected Corner Type but the steps are the same for Vertical Corner.)

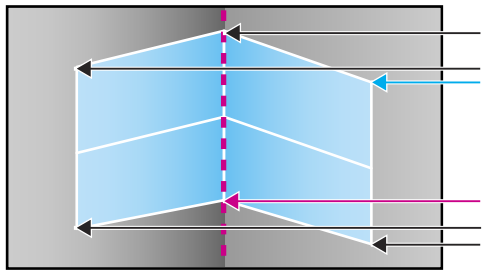


Note: You can press **Enter** to show or hide the image and grid to check the results.

11. Use the arrow buttons on the projector or the remote control to select the area you want to adjust. Then press **Enter**.



- For horizontal corners, adjust the top area using the lowest point (indicated by the blue arrow) as your reference. Adjust the lower area using the highest point (indicated by the pink arrow) as your reference.

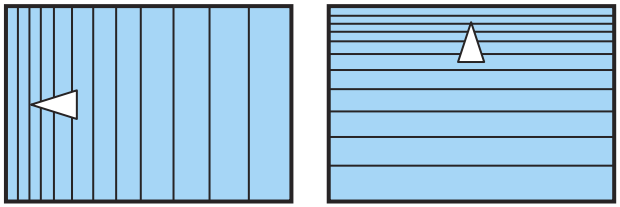


- For vertical corners, adjust the left and right areas using the points nearest the center of the image as your reference points.

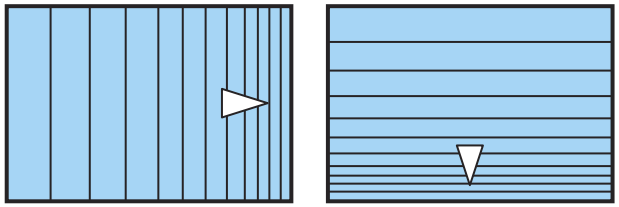
Note: To reset your adjustments, press the **Esc** button for at least 2 seconds to display a reset screen, and select **Yes**.

12. Press and hold the arrow buttons on the projector or remote control to adjust the image shape.
13. Repeat the previous two steps as necessary to adjust other image areas.

    If the image expands or contracts, continue with the next step to adjust the linearity.
14. Press the **Esc** button to return to the Corner Wall screen.
15. Select the **Linearity** setting and press **Enter**.
16. Adjust the linearity by doing the following as necessary:
    - Press and hold the left arrow button to contract the distance between the lines closest to the left or top of the image.



    - Press and hold the right arrow button to contract the distance between the lines closest to the right or bottom of the image.



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

Note: If necessary, you can fine-tune the results of your Corner Wall adjustments using Point Correction.

Parent topic: Image Shape

Related references

Projector Feature Settings - Settings Menu

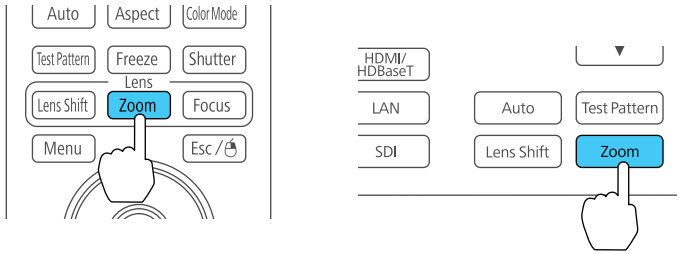
Related tasks

Displaying a Test Pattern

Correcting Image Shape with Point Correction

Resizing the Image with the Zoom Button

1. Turn on the projector and display an image.
2. Press the **Zoom** button on the projector's control panel or remote control.



3. Press and hold the arrow buttons on the projector's control panel or remote control to resize the image.
4. Press the **Esc** button on the projector's control panel or remote control when finished.

Parent topic: Using Basic Projector Features

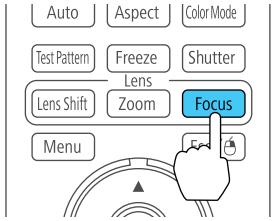
Related tasks

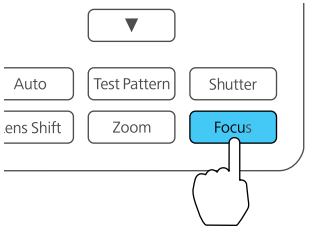
Displaying a Test Pattern

Focusing the Image Using the Focus Button

1. Turn on the projector and display an image.

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





3. Press and hold the arrow buttons on the projector's control panel or remote control to adjust the focus.
4. Press the **Esc** button on the projector's control panel or remote control when finished.

Focusing the Image with the Optional Short Throw Lens

Parent topic: Using Basic Projector Features

Related tasks

Displaying a Test Pattern

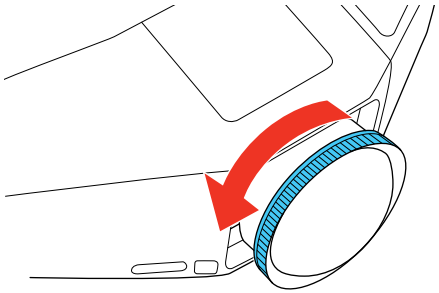
Focusing the Image with the Optional Short Throw Lens

If you installed the optional short throw lens (ELPLU02) and shifted the lens using the lens shift option, you can focus the image using the distortion ring.

Note: When using the short throw lens, select **ELPLU02** as the **Lens Type** setting in the Extended menu. If the image has shifted after making adjustments, re-position the image using the **Lens Shift** button. When adjusting the image height, position the image lower than where you want it to be and move it up using the arrow buttons. This will help prevent the image from moving down after adjustment.

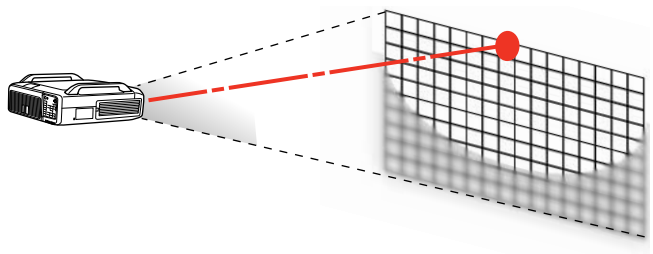
1. Turn on the projector and display an image.

2. Carefully rotate the distortion ring all the way counterclockwise.

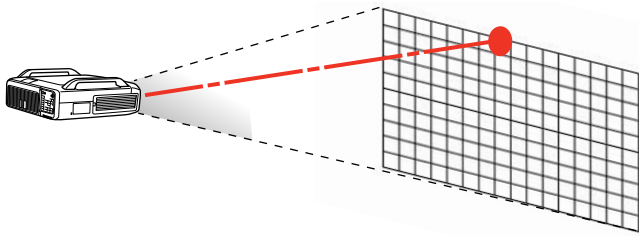


Note: Be careful not to move the short throw lens when adjusting it to prevent the projected image from shifting.

3. Press the **Focus** button on the projector's control panel or remote control.
4. Press and hold the arrow buttons to focus the image around the center of the lens.



5. Rotate the distortion ring until the area around the edges of the image is also focused.



6. Press the **Focus** button again, then press the arrow buttons to focus the entire screen image.
7. If the image area shown in step 4 is out of focus, rotate the distortion ring to bring the area into focus.

Parent topic: Focusing the Image Using the Focus Button

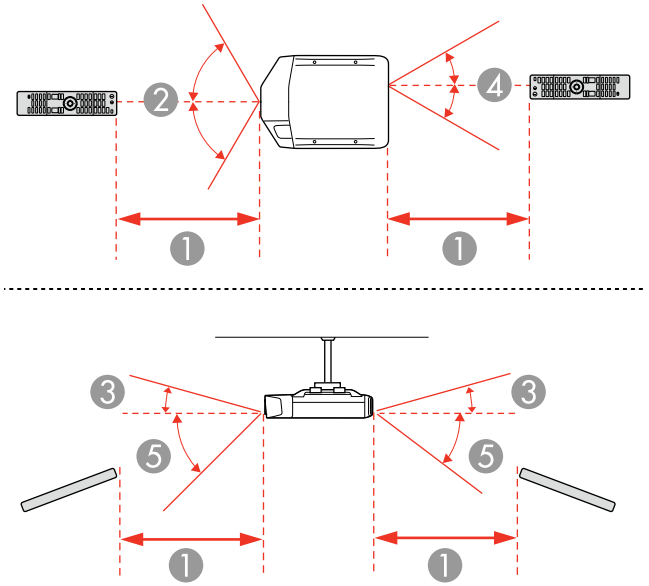
Related tasks

Adjusting the Image Position Using Lens Shift

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 98 feet (30 m) away. You can point it at the front or back of the projector.

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



1	98 feet (30 m)
2	±60°
3	+15°
4	±30°

5 +45°

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

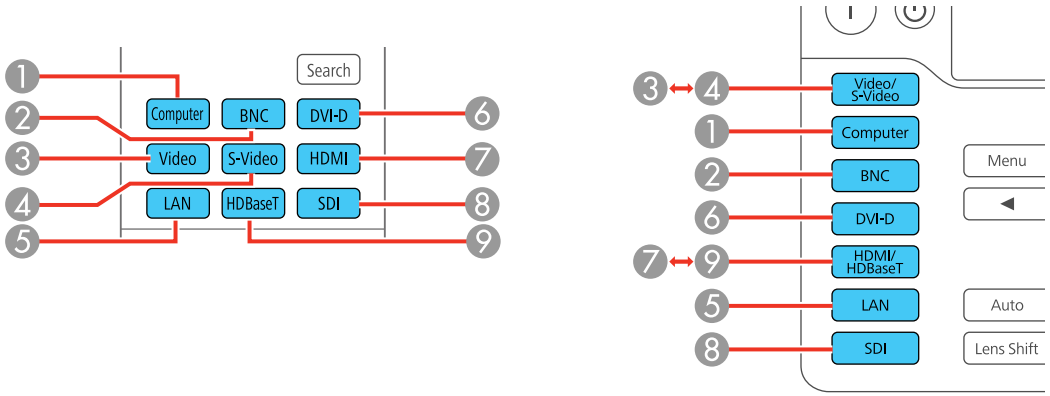
Related tasks

Replacing the Remote Control Batteries

Selecting an Image Source

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

1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press its play button, if necessary.
3. Press the button for the source you want on the projector's control panel or remote control. If there is more than one port for that source, press the button again to cycle through the sources.



1 Computer port source

2 BNC port source

3 Video port source (composite video)

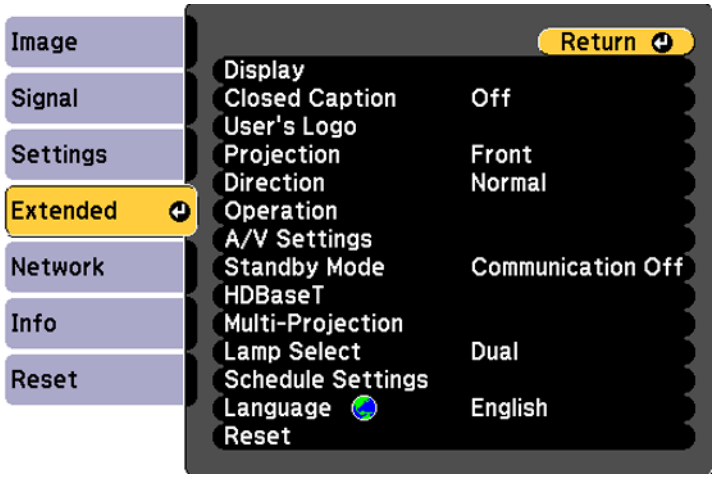
4 S-Video port source
5 Networked computer source
6 DVI-D port source
7 HDMI port source
8 SDI port source (PowerLite Pro Z9870UNL/Z10000UNL/Z10005UNL)
9 HDBaseT port source

Parent topic: Using Basic Projector Features

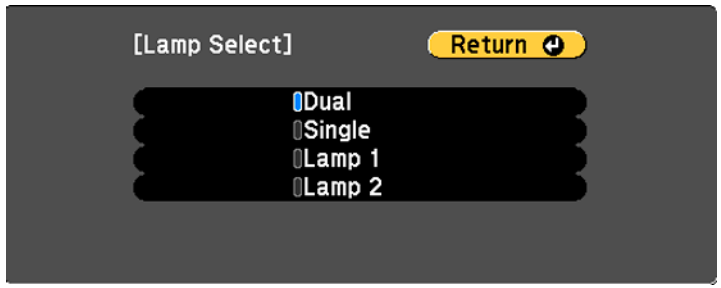
Selecting the Lamp

You can select the lamps you want to turn on.

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



3. Select the **Lamp Select** setting and press **Enter**.



4. Use the arrow buttons on the projector or the remote control to select one of the following options:
   - **Dual** (default): Both lamps are on. If one lamp stops working, the other remains on.
   - **Single**: When the projector is turned on, the lamp with the fewest number of total operation hours turns on. If that lamp stops working, the other lamp turns on.
   - **Lamp 1**: Lamp 1 turns on. If Lamp 1 stops working, Lamp 2 turns on.
   - **Lamp 2**: Lamp 2 turns on. If Lamp 2 stops working, Lamp 1 turns on.
5. When you are finished, press the **Menu** button.

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/Upside Down** flips the image over top-to-bottom to project upside-down from a wall or ceiling mount.
- **Rear** flips the image horizontally to project from behind a translucent screen.
- **Rear/Upside Down** flips the image over top-to-bottom and horizontally to project from the wall or ceiling and behind a translucent screen.

You can change the projection mode using the remote control or by changing the **Projection** setting in the **Extended** menu.

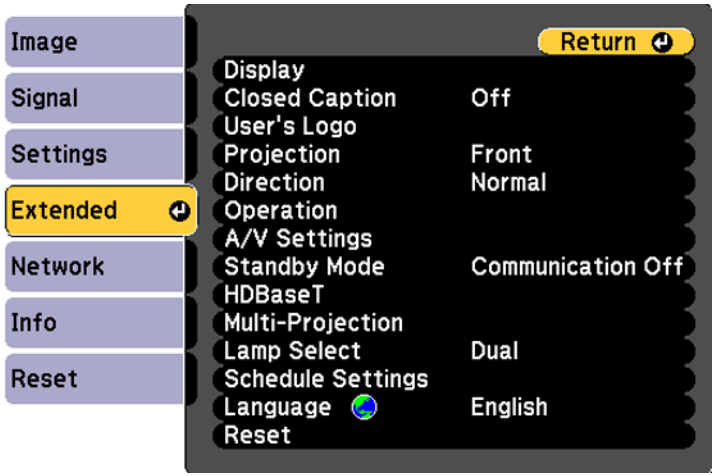
Changing the Projection Mode Using the Menus

Parent topic: Using Basic Projector Features

Changing the Projection Mode Using the Menus

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

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



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

Parent topic: Projection Modes

Image Aspect Ratio

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

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

Changing the Image Aspect Ratio
Available Image Aspect Ratios

Parent topic: Using Basic Projector Features

Related references

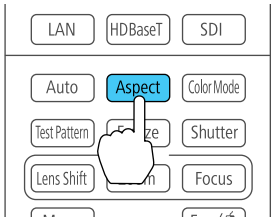
Image Quality Settings - Image Menu

Changing the Image Aspect Ratio

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

Note: Set the Screen Type setting in the projector's Extended menu before changing the aspect ratio.

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



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

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

Parent topic: Image Aspect Ratio

Available Image Aspect Ratios

You can select the following image aspect ratios, depending on the selected Screen Type setting and the input signal from your image source.

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

Screen Type setting	Available aspect ratios
4:3	Auto or Normal, 4:3, 6:9, Native*
16:9	Auto or Normal, Full, Zoom, Native
16:10	Auto or Normal, 16:9, Full, Zoom, Native

*Available only when projecting computer images, or from sources connected to the **HDMI** or **HDBaseT** port

Aspect ratio setting	Description
Auto	Automatically sets the aspect ratio according to the input signal.
Normal	Displays images in the same aspect ratio of the input signal.
4:3	Displays images at a 4:3 aspect ratio.
16:9	Displays images at a 16:9 aspect ratio.
Full	Displays images using the full size 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. Areas that exceed the edges of the projected screen are not projected.
Native	Displays images as is (aspect ratio and resolution are maintained). Areas that exceed the edges of the projected screen are not projected.

Parent topic: Image Aspect Ratio

Related tasks

Setting the Screen Type

Color Mode

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

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

Changing the Color Mode
Available Color Modes
Turning On Auto Iris

Parent topic: Using Basic Projector Features

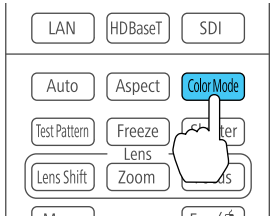
Related references

Image Quality Settings - Image Menu

Changing the Color Mode

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

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



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

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

Parent topic: Color Mode

Available Color Modes

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

Color Mode	Description
Dynamic	Best for projecting in a bright room
Presentation	Best for color presentations in a bright room
Theatre	Best for movies projected in a dark room
Photo[1]	Best for still images projected in a bright room
Sports[2]	Best for television images in a bright room
sRGB	Best for standard sRGB computer displays
DICOM SIM[1]	Best for projecting X-ray photographs and other medical images
Multi-Projection	Best for projecting from multiple projectors (reduces the color tone difference between images)

[1] Only available when inputting RGB signals

[2] Only available when the input signal is component video, or when the input source is Video or S-Video

Note: The **DICOM SIM** Color Mode is for reference purposes only and should not be used to make medical diagnoses.

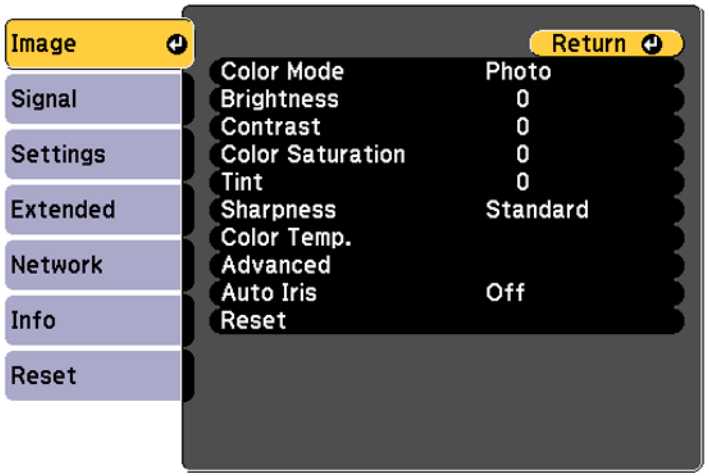
Parent topic: Color Mode

Turning On Auto Iris

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

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

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



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

   Note: You can set **Auto Iris** for each Color Mode that supports the feature. The **Auto Iris** setting is disabled when the **Edge Blending** setting is **On**.

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

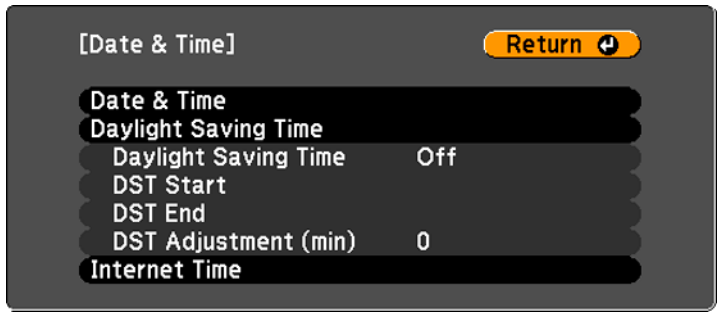
Parent topic: Color Mode

Setting the Date and Time

You can set the date and time for the projector.

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 the **Date & Time** setting and press **Enter**.
6. Use the displayed keyboard to enter the date and time.
7. When you are finished, press **Menu**.

Parent topic: Using Basic Projector Features

Adjusting Projector Features

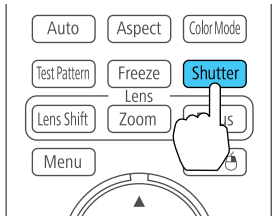
Follow the instructions in these sections to use your projector's feature adjustments.

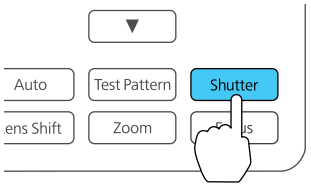
Shutting Off the Picture Temporarily
Stopping Video Action Temporarily
Zooming Into and Out of Images
Projector Security Features
Using Multiple Projectors
Using Frame Interpolation
Viewing 3D Images
Saving Settings to Memory and Using Saved Settings
Scheduling Projector Events

Shutting Off the Picture Temporarily

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

1. Press the **Shutter** button on the projector's control panel or remote control to temporarily stop projection.





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

Parent topic: Adjusting Projector Features

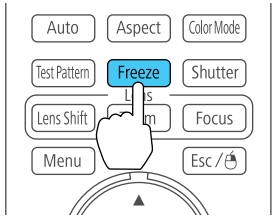
Related references

Projector Setup Settings - Extended Menu

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 video action continues to run, however, so you cannot resume projection at the point that you stopped it.

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



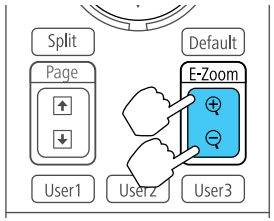
2. To restart the video action in progress, press **Freeze** again.

Parent topic: Adjusting Projector Features

Zooming Into and Out of Images

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

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



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

2. Use the following buttons on the remote control to adjust the zoomed image:
   - Use the arrow buttons to position the crosshair in the image area you want to zoom into.
   - Press the **E-Zoom +** button repeatedly to zoom into the image area, enlarging it as necessary.

- To pan around the zoomed image area, use the arrow buttons.
- To zoom out of the image, press the **E-Zoom –** button as necessary.
- To return to the original image size, press **Esc**.

Parent topic: Adjusting Projector Features

Projector Security Features

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

- Password security to prevent the projector from being turned on, and prevent changes to the startup screen and other settings.
- Button lock security to block operation of the projector using the buttons on the control panel or remote control.
- 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.
- **Time/Schedule Protection** password prevents anyone from changing the projector's time or schedule settings.

Setting a Password
Selecting Password Security Types
Entering a Password to Use the Projector

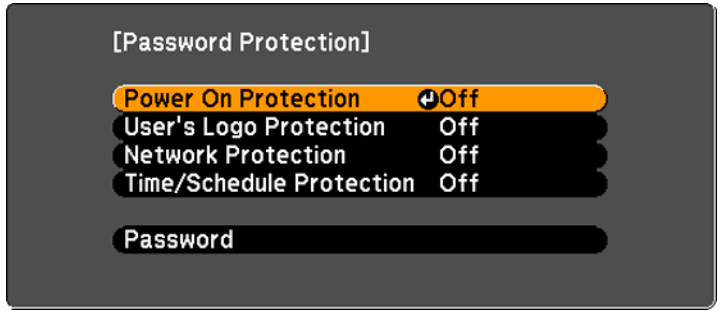
Saving a User's Logo Image to Display

Parent topic: Projector Security Features

Setting a Password

To use password security, you must set a password.

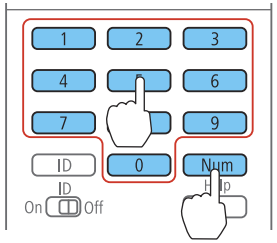
1. Hold down the **Freeze** button on the remote control for about ten seconds or until you see this menu.



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.

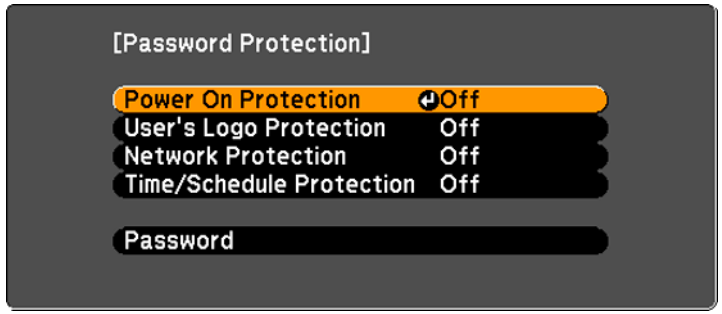
   You see the message "Password accepted."

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

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 ten seconds or until the menu appears.

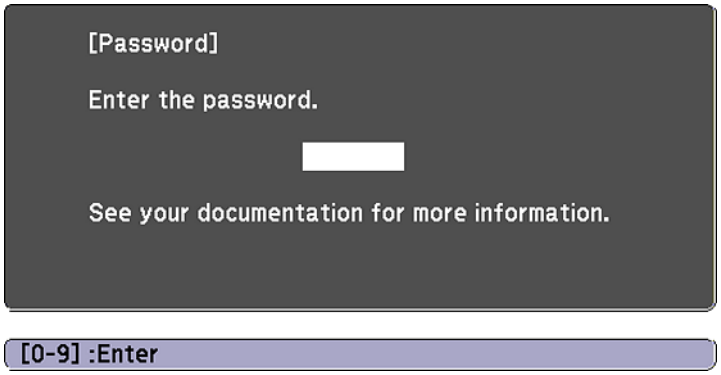
1. To prevent unauthorized use of the projector, select **Power On Protection**, press **Enter**, select **On**, press **Enter** again, and press **Esc**.
2. To prevent changes to the User's Logo screen or related display settings, select **User's Logo Protection**, press **Enter**, select **On**, press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

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

Parent topic: Password Security Types

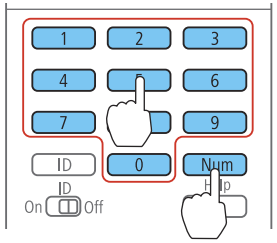
Entering a Password to Use the Projector

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.



   The password screen closes.

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

When you contact Epson Support, provide the displayed request code and proof of ownership for assistance in unlocking the projector.

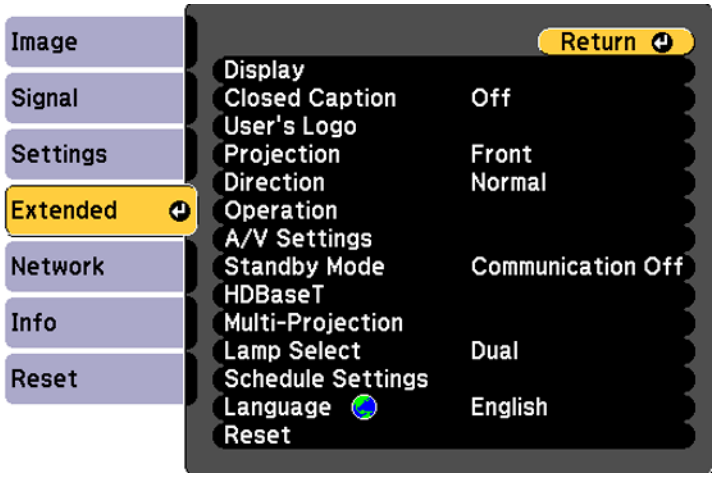
Parent topic: Password Security Types

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 Shutter feature). This transferred image is called the User's Logo screen.

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

1. Display the image you want to project as the User's Logo.
2. Press the **Menu** button, select the **Extended** menu, and press **Enter**.



3. Select the **User's Logo** setting and press **Enter**.

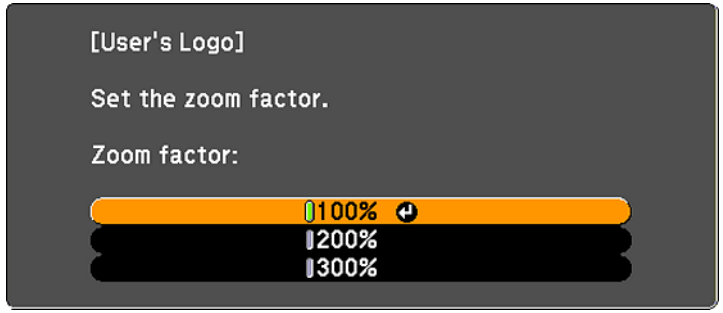
   You see a prompt asking if you want to use the displayed image as a user's logo.
4. Select **Yes** and press **Enter**.

   You see a selection box overlaying your image.
5. Use the arrow buttons on the remote control or control panel to surround the image area you want to use as the User's Logo and press **Enter**.

You see a prompt asking if you want to select this image area.

6. Select **Yes** and press **Enter**. (If you want to change the selected area, select **No**, press **Enter**, and repeat the last step.)

   You see the User's Logo zoom factor menu.



7. Select a zoom percentage and press **Enter**.

   You see a prompt asking if you want to save the image as the User's Logo.

8. Select **Yes** and press **Enter**.

   You see a completion message.

9. Press **Esc** to exit the message screen.
10. Select the **Extended** menu and press **Enter**.
11. Select **Display** and press **Enter**.
12. Select when you want to display the User's Logo screen:
    - To display it whenever there is no input signal, select **Display Background** and set it to **Logo**.
    - To display it whenever you turn the projector on, select **Startup Screen** and set it to **On**.

To 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

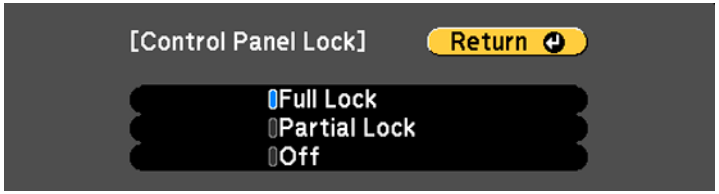
Locking the Projector's Buttons

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: You can also lock the buttons on the remote control by pressing and holding the **Help** button on the remote control for about five seconds. This function locks all remote control buttons except those used for basic operation.

1. Press the lock button on the control panel.

   Note: To access the Control Panel Lock screen through the projector's menus, press the **Menu** button, select **Settings**, press **Enter**, select **Control Panel Lock**, and press **Enter**. If you want to prevent anyone from adjusting the lens, you can set the **Lens Operation Lock** setting in the **Settings** menu to **On**.



2. Select one of these control panel 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.
3. Select **Yes** and press **Enter**.
4. Press the **Esc** button.

Unlocking the Projector's Buttons

Parent topic: Projector Security Features

Related references

Projector Parts - Control Panel

Unlocking the Projector's Buttons

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

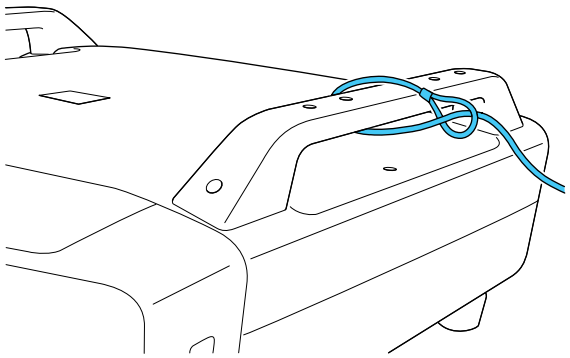
Note: If the remote control buttons have been locked, hold the **Help** button on the remote control for 5 seconds to unlock them.

Parent topic: Locking the Projector's Buttons

Installing a Security Cable

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

- Use the security slot on the projector to attach a Kensington lock. See your local computer or electronics dealer for purchase information.
- Use the handles 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 handles when mounting the projector on a wall or ceiling.

Parent topic: Projector Security Features

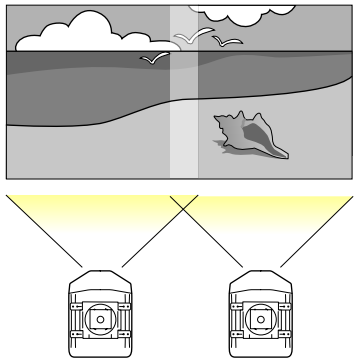
Related references

Projector Parts - Rear

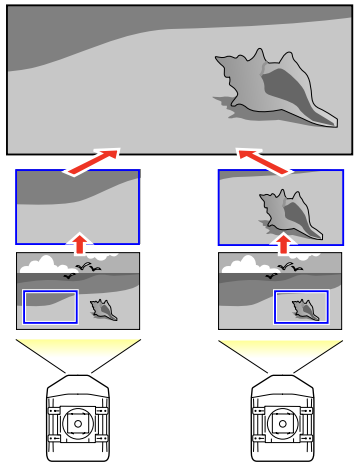
Using Multiple Projectors

You can combine the projected images from two or more projectors to create one large image. The following two options are available:

- Project different images from each projector and create one seamless image



- Project the same image from each projector and use the Scale feature to create one seamless image



Follow the instructions in these sections to setup and project from multiple projectors.

Projector Identification System for Multiple Projector Control

Adjusting the Position of the Projected Image From Multiple Projectors
Matching the Image Colors
Adjusting the Color Tone (Color Uniformity)
Adjusting the Color Convergence (Panel Alignment)
Scaling an Image
Projecting Two Images Simultaneously
Adjusting the Lamp's Brightness
Blending the Image Edges
Adjusting the Black Level
Copying Menu Settings Between Projectors

Parent topic: Adjusting Projector 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.

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

Caution: Leave at least 20 inches (50 cm) of space between the projectors to prevent them from overheating.

Setting the Projector ID
Setting the Remote Control ID

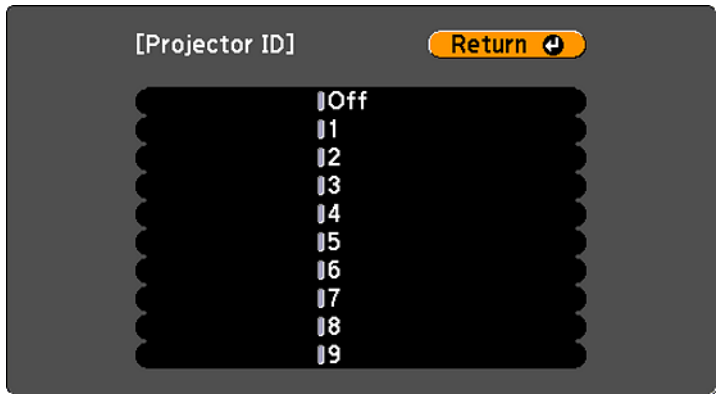
Parent topic: Using Multiple Projectors

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 the **Multi-Projection** menu and press **Enter**.

4. Select **Projector ID** and press **Enter**.



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

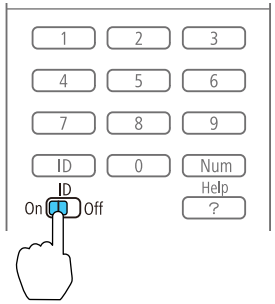
Repeat these steps for all the other projectors you want to operate from one remote control.

Parent topic: Projector Identification System for Multiple Projector Control

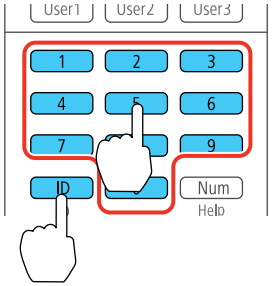
Setting the Remote Control ID

The remote control's ID is set to **0** 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. Set the remote control **ID** switch to **On**.



3. 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.



Note: If you don't know the projector's ID, hold down the **ID** button and press the **Help** button to temporarily display the projector's ID on the screen. If the batteries are left out of the remote control for an extended period, the remote control ID returns to its default setting.

Parent topic: Projector Identification System for Multiple Projector Control

Adjusting the Position of the Projected Image From Multiple Projectors

If you need to adjust the position of a projected image from multiple projectors, perform the adjustments in the order listed here.

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

1. Adjust the projector's physical position and angle to the screen.
2. Use the projector's lens shift and zoom features.

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

3. Adjust the image shape using the Geometric Correction settings.

Parent topic: Using Multiple Projectors

Related concepts

Projector Placement

Related tasks

Displaying a Test Pattern
Adjusting the Image Position Using Lens Shift
Resizing the Image with the Zoom Button
Correcting Image Shape with Quick Corner
Correcting Image Shape with Point Correction

Matching the Image Colors

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

Note: Make sure you select **Multi-Projection** for the color mode. Brightness and colors may not match exactly even after performing the steps below.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Color Matching** setting and press **Enter**.

   You see this screen:

   Note: Press **Enter** to toggle between the projected image and the adjustment screen.

5. Set the **Adjustment Level** setting to **1** and press **Enter**.
6. Set the remote control ID to match the second projector.
7. Access the Extended menu **Color Matching** setting on the second projector and set the **Adjustment Level** setting to **1**.
8. Adjust the color tone settings for **Red**, **Green**, and **Blue** on both projectors in the same way.

9. Adjust the **Brightness** setting on the projector with the darkest display so it matches the lighter display, and press **Enter**. (You may need to switch the remote control ID back and forth to make adjustments to each projector in all of these steps.)
10. Change the **Adjustment Level** setting to **5** on each projector, but this time match the lighter display to the darker one.
11. Adjust the **Brightness** setting on **Adjustment Level 2**, **3**, and **4** in the same way.
12. If you need to match more projectors, repeat these steps matching projector 3 to projector 2, 4 to 3, and so on.

Parent topic: Using Multiple Projectors

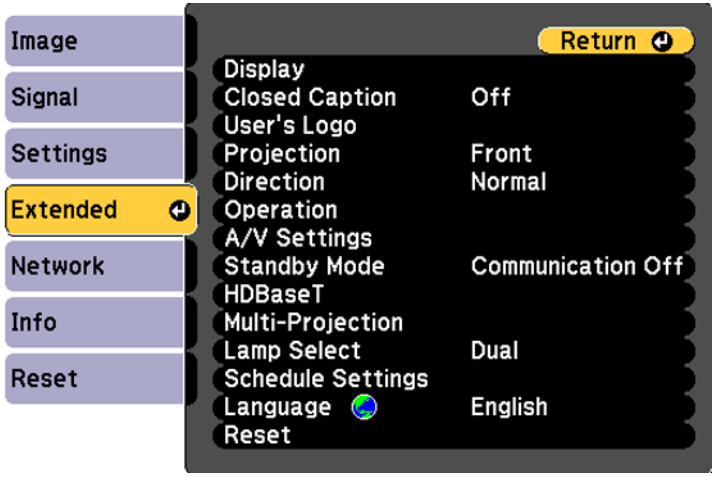
Related concepts

Color Mode

Adjusting the Color Tone (Color Uniformity)

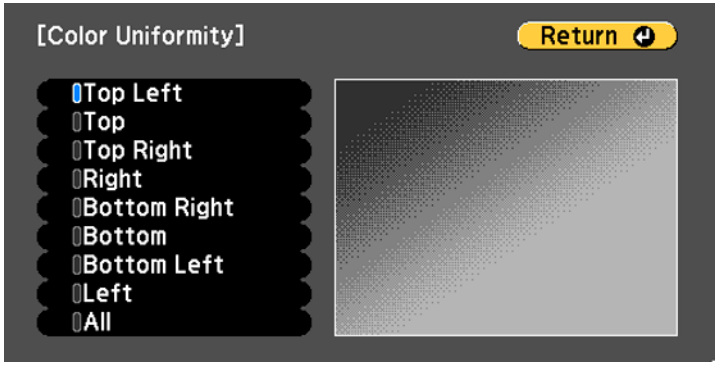
You can use the Color Uniformity feature to manually adjust the color tone balance in the projected image.

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



3. Select the **Display** or **Multi-Projection** setting and press **Enter**.

4. Select the **Color Uniformity** setting and press **Enter**.
5. Press **Enter** and select **On**.
6. Press **Esc**.
7. Select the **Adjustment Level** setting and press **Enter**.
8. Press the right and left arrow buttons to adjust the level, then press **Esc**.
9. Select the **Start Adjustments** setting and press **Enter**.



10. Select the area of the screen that you want to adjust and press **Enter**.
11. Select the color (**Red**, **Green**, or **Blue**) you want to adjust, and use the left arrow button to weaken the color tone and the right arrow button to strengthen the color tone.
12. Press **Esc**.
13. Repeat steps 10 and 11 for each area you want to adjust.
14. When you are finished, press the **Menu** button.

Parent topic: Using Multiple Projectors

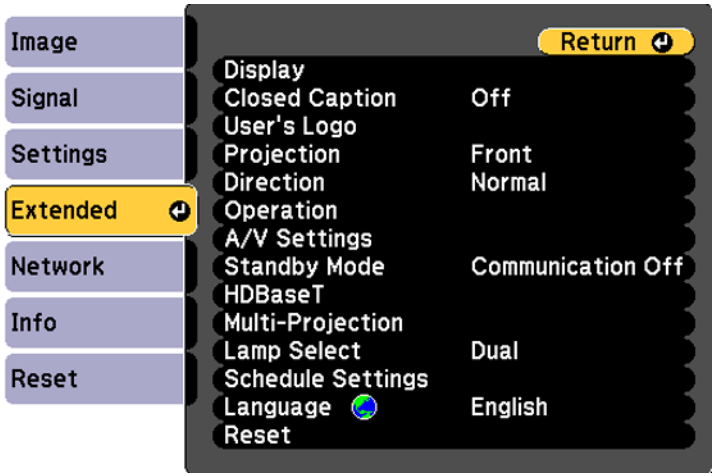
Adjusting the Color Convergence (Panel Alignment)

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

Note: Allow your projector to warm up for at least 10 to 15 minutes and make sure the image is in focus before you use the Panel Alignment feature. The projected image size should be at least 60 inches (152

cm) diagonally and the projection surface should not be colored or textured; otherwise the adjustment grids are difficult to align.

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



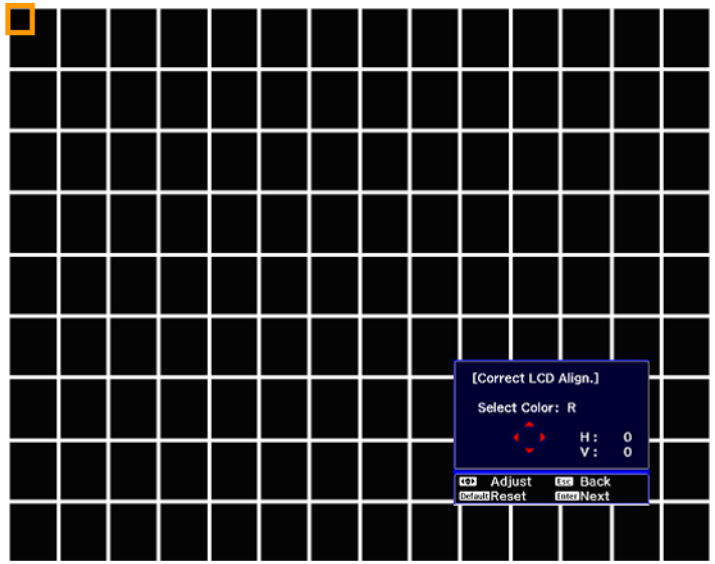
3. Select the **Display** setting and press **Enter**.
4. Select the **Panel Alignment** setting and press **Enter**.
5. Press **Enter** and select **On**.
6. Press **Esc**.
7. Select the **Select Color** setting and choose one of the following:
   - **R** to adjust the red color convergence
   - **B**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

   Note: You can adjust only the red or blue color convergence; you cannot adjust the standard green color panel.

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

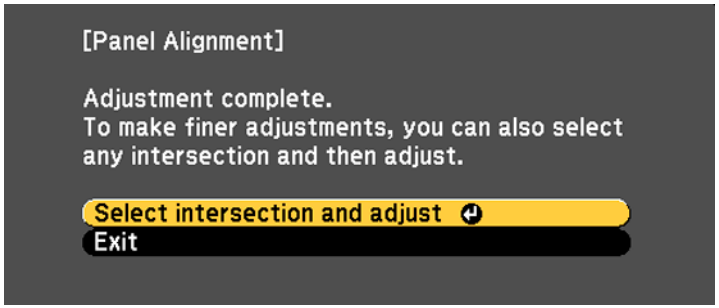
10. Select **Start Adjustments** and press **Enter** twice.

    You see this screen:



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

    You see this screen:



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

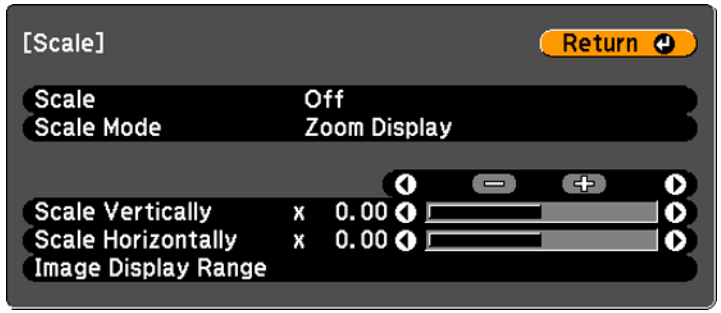
Parent topic: Using Multiple Projectors

Scaling an Image

You can project the same image from multiple projectors and use the Scale feature to crop and combine them into one large image.

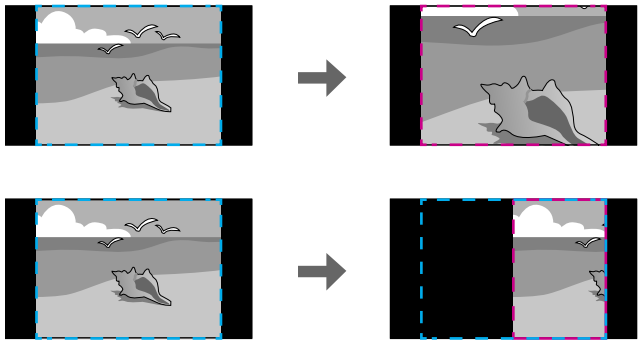
1. Press the **Menu** button.
2. Select the **Signal** menu and press **Enter**.
3. Select the **Scale** setting and press **Enter**.

   You see this screen:

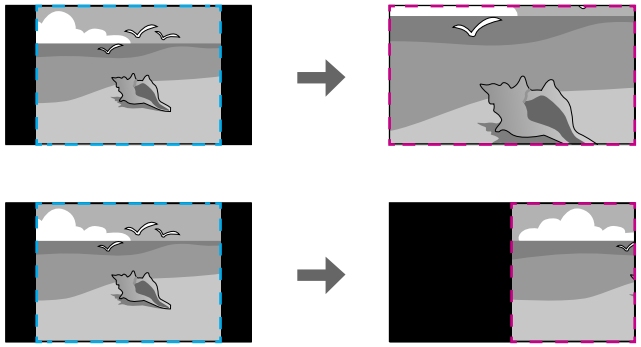


4. Select the **Scale** setting and select **On**.

5. Select the **Scale Mode** setting and select one of the following options:
   - **Zoom Display**: Maintains the image aspect ratio as you scale the image



   - **Full Display**: Adjusts the image to the projector's screen size as you scale the image



6. Select one or more of the following scaling options and adjust it as necessary:
   - **–** or **+**: Scales the image horizontally and vertically at the same time
   - **Scale Vertically**: Scales the image vertically only
   - **Scale Horizontally**: Scales the image horizontally only
7. Select the **Image Display Range** setting and use the arrow buttons to adjust the coordinates and size of each image as you view the screen.
8. When you are finished, press the **Menu** button.

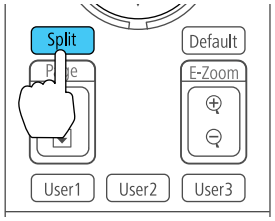
Parent topic: Using Multiple Projectors

Projecting Two Images Simultaneously

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

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

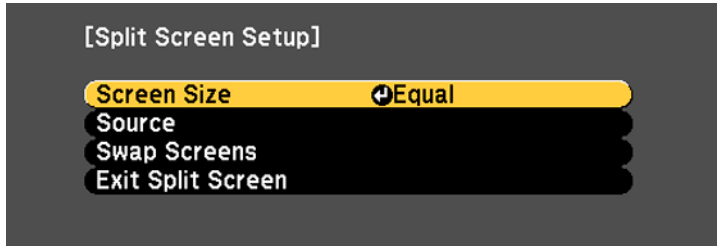
1. Press the **Split** button on the remote control.



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

2. Press the **Menu** button.

   You see this screen:



3. To select an input source for the other image, select the **Source** setting, press **Enter**, select the input source, select **Execute**, and press **Enter**. (You can also change image sources, if necessary.)
4. To switch the images, select the **Swap Screens** setting and press **Enter**.

5. To change the image sizes, select the **Screen Size** setting, press **Enter**, select a sizing option, press **Enter**, and press **Menu** to exit.

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

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

Parent topic: Using Multiple Projectors

Adjusting the Lamp's Brightness

When projecting with multiple projectors, you must adjust the brightness setting so that all projectors are as bright as the darkest lamp.

Note: Even after adjusting the brightness levels, the brightness of each lamp may not match exactly.

Note: You cannot adjust the brightness level in portrait projection.

1. Turn on all the projectors and display the same image.
2. Select **Normal** for the **Power Consumption** setting.
3. Select **Multi-Projection** or **3D Multi-Projection** (for 3D images) for the color mode.
4. Press the **Menu** button.
5. Select the **Extended** menu and press **Enter**.
6. Select the **Multi-Projection** setting and press **Enter**.
7. Select the **Brightness Level** setting and press **Enter**.
8. Select a brightness level.
9. Press **Esc** to return to the previous screen.

Parent topic: Using Multiple Projectors

Related concepts

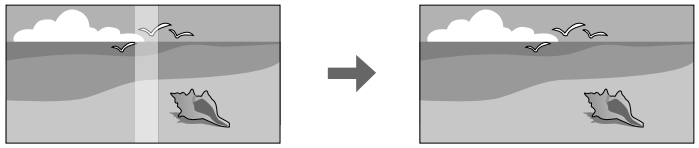
Color Mode

Related references

Projector Feature Settings - Settings Menu

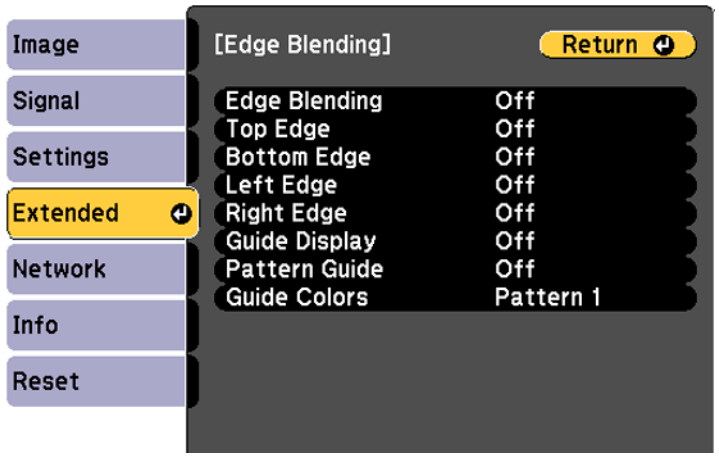
Blending the Image Edges

You can use the projector's Edge Blending feature to create a seamless image from multiple projectors.



1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Edge Blending** setting and press **Enter**.

   You see this screen:

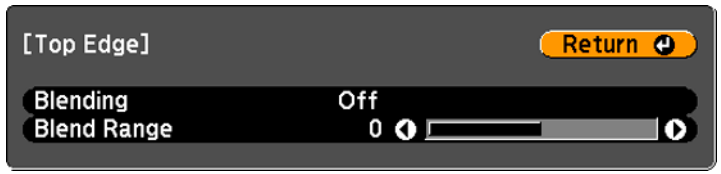


5. Turn on the **Edge Blending**, **Guide Display**, and **Pattern Guide** settings.

   Note: If the projected guide is unclear, try changing the **Guide Colors** setting.

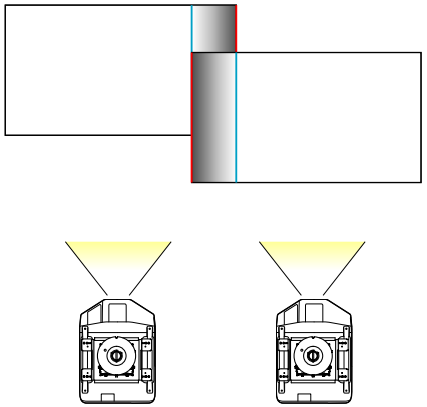
6. Select the edge you want to blend and press **Enter**.

You see a screen like this:



7. Select the **Blending** setting and select **On**.
8. Select the **Blend Range** setting and select the width of the blended area.

   Set the range so that the displayed guides are at the edges of the overlapping area between the two images.

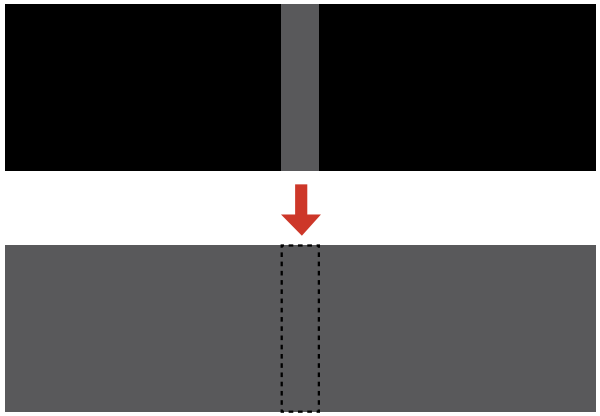


9. Press **Esc** to go back to the previous screen.
10. When the edges are blended, turn off the **Guide Display** and **Pattern Guide** settings to check the final settings.
11. When you are finished, press the **Menu** button.

Parent topic: Using Multiple Projectors

Adjusting the Black Level

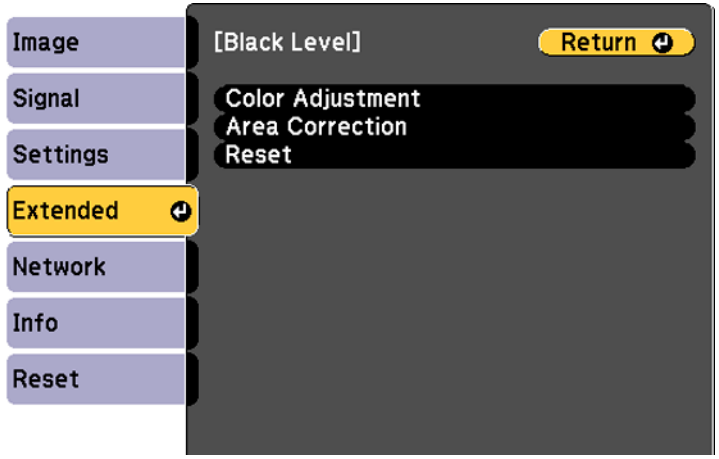
When two images overlap, the overlapping area can appear differently from the areas that do not overlap. You can use the projector's Black Level setting to make the difference less noticeable.



Note: You cannot adjust the black level when a test pattern displayed. The brightness and tone of the overlapping areas may differ from the rest of the image even after adjusting the black level.

1. Press the **Menu** button.
2. Select the **Extended** menu and press **Enter**.
3. Select the **Multi-Projection** setting and press **Enter**.
4. Select the **Black Level** setting and press **Enter**.

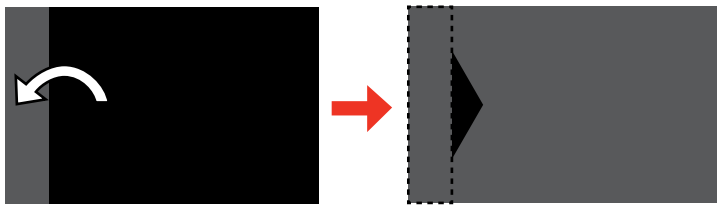
You see this screen:



5. Select the **Color Adjustment** setting and press **Enter**.

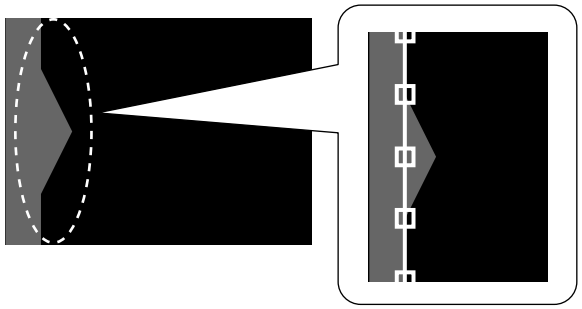
   You see this screen:

6. Adjust the brightness and tone of the areas that do not overlap to match the areas that overlap using the displayed adjustment sliders.



7. Press the **Esc** button to return to the Black Level menu screen.
8. Select the **Area Correction** setting and press **Enter**.

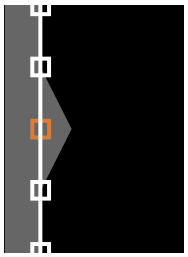
   You see a screen like this displaying the points you can use to set the range for black level:



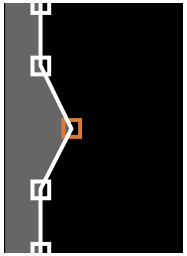
   Note: The points displayed differ depending on the **Edge Blending** and **Point Correction** settings.

9. Use the arrow buttons to select an adjustment point and press the **Enter** button.

   The selected point turns orange.



10. Use the arrow buttons to move the point to the edge of the adjustment area.



11. To move another point, press the **Esc** button and repeat the previous two steps.
12. When you are finished, press the **Esc** button twice.
13. When you see the confirmation message, select **Yes** to return to the Black Level menu screen.
14. When you are finished, press the **Menu** button.

    Note: Changing any of the **Edge Blending** settings resets the **Black Level** setting to its default value.

Parent topic: Using Multiple Projectors

Copying Menu Settings Between Projectors

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

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

The following settings will not transfer between projectors:

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

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

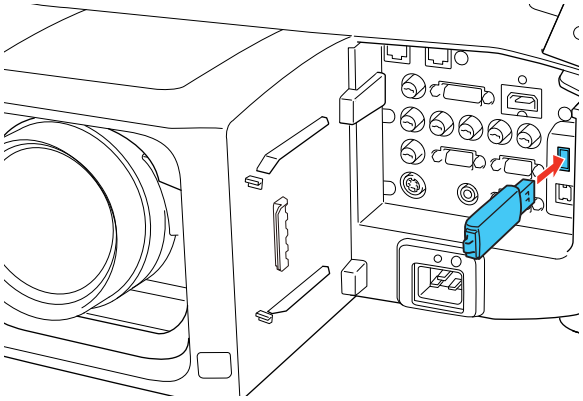
Parent topic: Using Multiple Projectors

Saving Settings to a USB Flash Drive

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

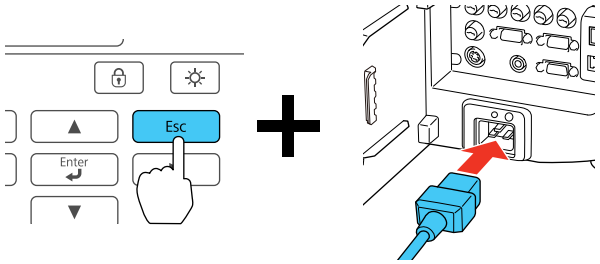
Note: Use an empty flash drive. If the drive contains other files, the transfer may not complete correctly.

1. Turn off the projector and unplug the power cord from the projector's power inlet.
2. Insert the flash drive into the wireless LAN module port.



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

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



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

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

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

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

Parent topic: Copying Menu Settings Between Projectors

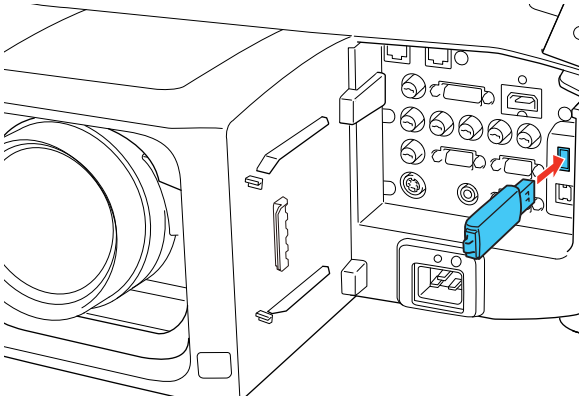
Transferring Settings From a USB Flash Drive

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

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

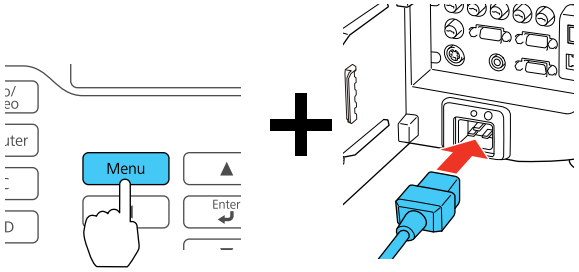
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

1. Turn off the projector and unplug the power cord from the projector's power inlet.
2. Insert the flash drive into the wireless LAN module port.



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

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



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

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

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

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

Parent topic: Copying Menu Settings Between Projectors

Saving Settings to a Computer

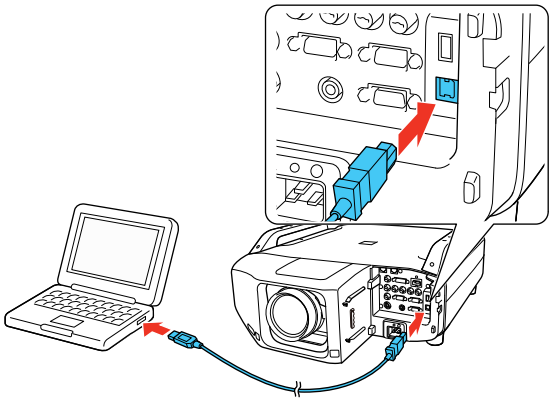
You can save the projector settings you want to transfer to a computer.

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

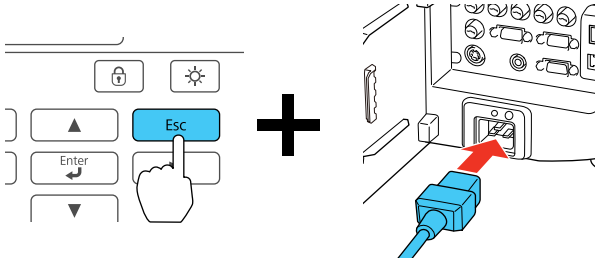
- Windows Vista
- Windows 7
- Windows 8.x
- OS X 10.5.8
- OS X 10.6.x
- OS X 10.7.x
- OS X 10.8.x
- OS X 10.9.x

- OS X 10.10.x

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



3. Connect the other end to any available USB port on your computer.
4. Press and hold the **Esc** button on the control panel or remote control as you connect the power cord to the projector's power inlet.



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

   The projector shows up as a removable disk on your computer.
6. Open the removable disk and copy the **pjconfdata.bin** file to your computer.

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

   The projector enters standby mode.

Parent topic: Copying Menu Settings Between Projectors

Transferring Settings From a Computer

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

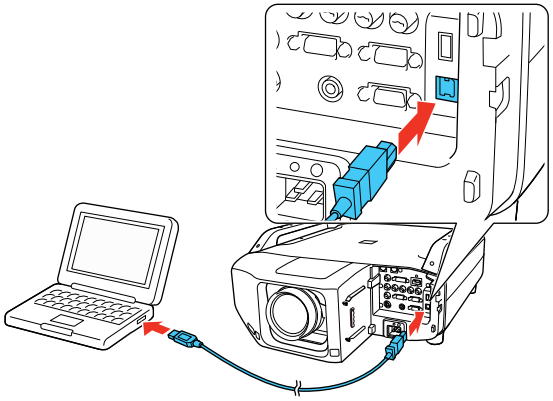
Your computer must be running one of the following operating systems:

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

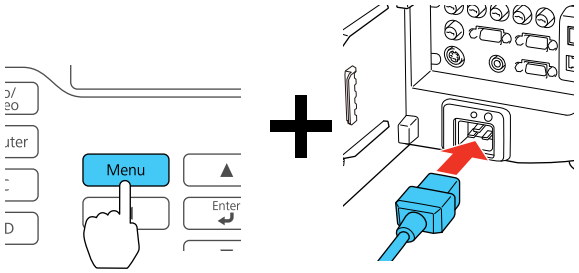
Do not adjust image settings on a projector until after you transfer settings to it. Otherwise, you may have to repeat your adjustments.

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

2. Connect a USB cable to your projector's **Service** port.



3. Connect the other end to any available USB port on your computer.
4. Press and hold the **Menu** button on the control panel or remote control as you connect the power cord to the projector's power inlet.



5. When the power, Status, Lamp, and Temp lights turn on, release the **Menu** button.

   The projector shows up as a removable disk on your computer.
6. Copy the **pjconfdata.bin** file from your computer to the removable disk.

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

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

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

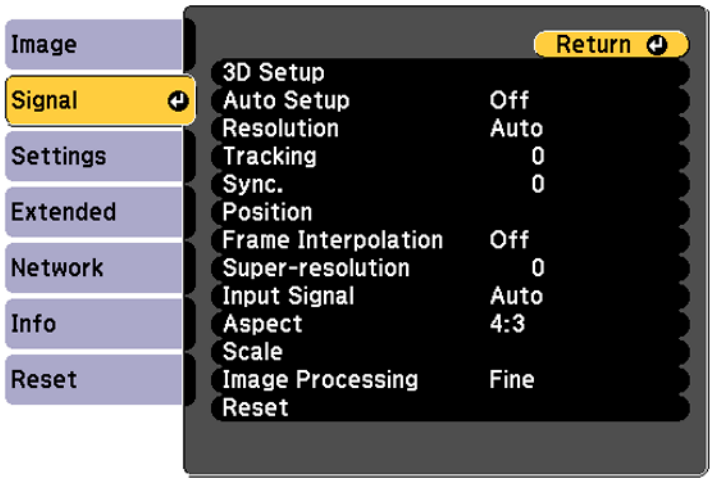
   Caution: Do not unplug the power cord while the lights are flashing. This could damage the projector.

Parent topic: Copying Menu Settings Between Projectors

Using Frame Interpolation

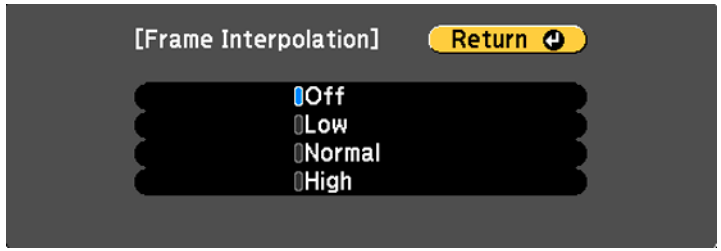
You can use the projector's Frame Interpolation feature to smooth fast-moving video by comparing consecutive image frames and inserting an intermediate image frame between them (PowerLite Pro Z9750UNL/Z9870UNL/Z10000UNL/Z10005UNL).

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



3. Select the **Frame Interpolation** setting and press **Enter**.

   You see a screen like this:



4. Select the level of interpolation and press **Enter**.
5. When you are finished, press the **Menu** button.

Note: If your resulting images contain noise, turn off the **Frame Interpolation** setting.

Parent topic: Adjusting Projector Features

Viewing 3D Images

Using an optional polarizer kit (ELPPL01), passive 3D glasses (ELPGS02A/ELPGS02B), and two installation frames (ELPMB44), you can use two projectors to project and view passive 3D images. See the instructions supplied with the optional equipment for setup and use.

For optimal viewing, select the **3D Setup** setting from the Signal menu and select one of the 3D color modes in the **3D Images** menu.

Parent topic: Adjusting Projector Features

Related concepts

Color Mode

Related references

Input Signal Settings - Signal Menu

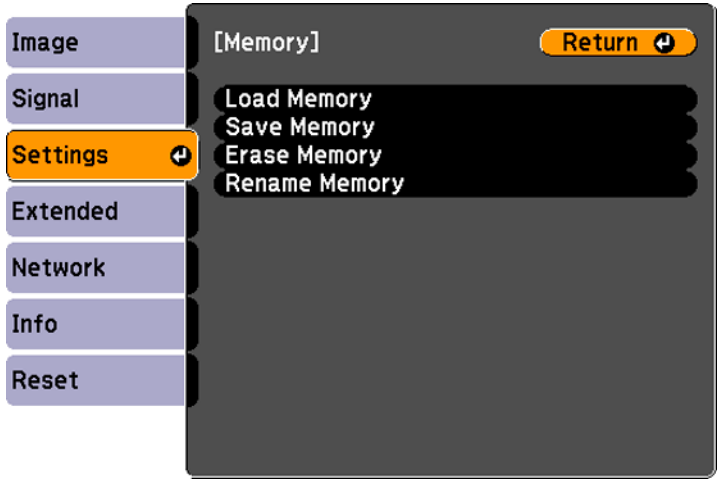
Optional Equipment and Replacement Parts

Saving Settings to Memory and Using Saved Settings

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

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

   You see this screen:



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

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

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

Parent topic: Adjusting Projector Features

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.

Note: The Time/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

Saving a Scheduled Event

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

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

   The Schedule Settings screen appears.
4. Select the **Schedule** menu and press **Enter**.
5. Select **Add New** and press **Enter**.
6. 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.)
7. In the Date/Time Settings section, set the date and time for the scheduled events to occur.
8. When you are finished, select **Save** and press **Enter**.
9. To schedule more events, repeat the previous 4 steps.
10. Select **Setup complete** and select **Yes** to save your changes.

Parent topic: Scheduling Projector Events

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
   - Reoccurring 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**: Enable or disable the selected event.
   - **Edit**: Edit the settings for the selected event.
   - **Clear**: Delete the selected event.
   - **Add New**: 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

Adjusting the Menu Settings

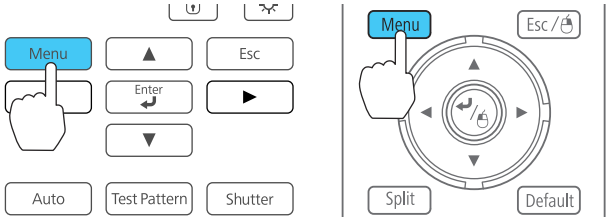
Follow the instructions in these sections to access the projector menu system and change projector settings.

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

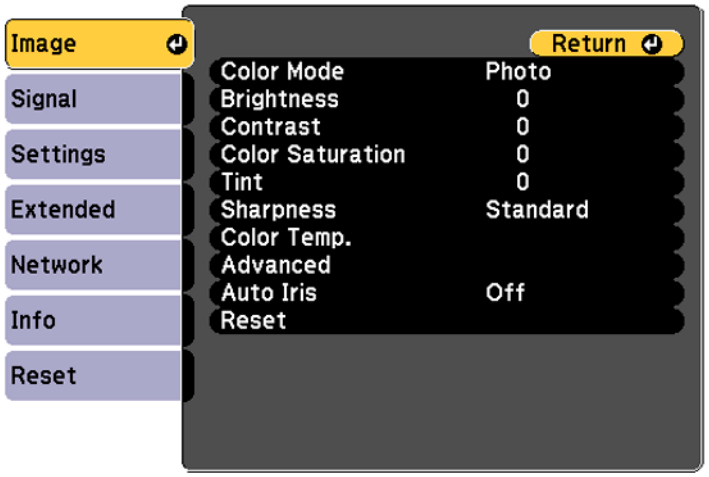
Using the Projector's Menus

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

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



You see the menu screen displaying the Image menu settings.



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

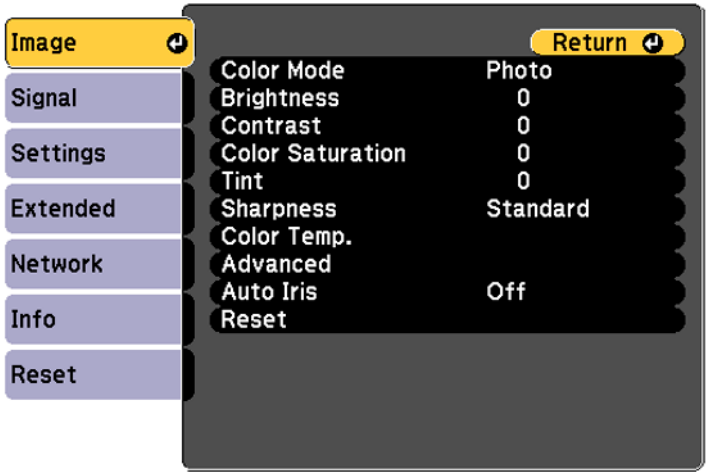
   Note: The available settings depend on the current input source.

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

Parent topic: Adjusting the Menu Settings

Image Quality Settings - Image Menu

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



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

Setting	Options	Description
Color Mode	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

Setting	Options	Description
Sharpness	Varying levels available	Adjusts the sharpness or softness of image details
Color Temp.	3200, 5000, or 10000 ºK (Kelvin), or –3 to 6	Sets the color tone based on color temperature
Advanced	Various options available	Adjusts the gamma levels and intensity of individual hues in the image
Auto Iris	**Off** **Normal** **High Speed**	Adjusts the projected luminance based on the image brightness when certain Color Modes are selected

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

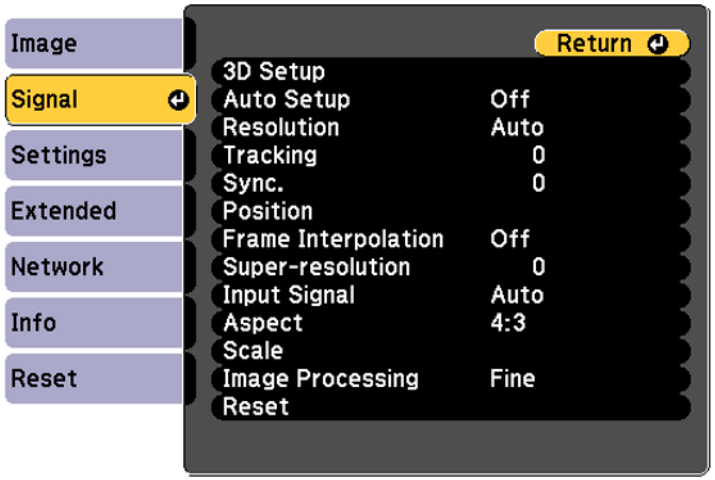
Parent topic: Adjusting the Menu Settings

Related references

Available Color Modes

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
3D Setup	**On** **Off**	Enables passive 3D images when projecting from 2 projectors
Auto Setup	**On** **Off**	Automatically optimizes image quality from an analog RGB computer connection (when On)

Setting	Options	Description
Resolution	**Auto** **Normal** **Wide** **Manual**	Sets the input signal resolution from an analog RGB computer connection **Auto**: detects the resolution automatically **Normal**: for 4:3 or 5:4 screens **Wide**: for widescreen **Manual**: lets you specify a resolution
Tracking	Varying levels available	Adjusts signal to eliminate vertical stripes in images from an analog RGB computer connection
Sync.	Varying levels available	Adjusts signal to eliminate fuzziness or flickering in images from an analog RGB computer connection
Position	Up, down, left, right	Adjusts the image location on the screen
Progressive	**Off** **Video** **Film/Auto**	Sets whether to convert interlaced-to-progressive signals for certain video image types **Off**: for fast-moving video images **Video**: for most video images **Film/Auto**: for movies, computer graphics, and animation
Frame Interpolation (PowerLite Pro Z9750UNL/Z9870UNL/ Z10000UNL/Z10005UNL)	**Off** **Low** **Normal** **High**	Smooths fast moving video by comparing consecutive frames and inserting an intermediate frame between them

Setting	Options	Description
Super-resolution	Varying levels available	Reduces edge blurring that may occur when image is scaled up to fit the resolution of the image signal
Noise Reduction	**Off** **NR1** **NR2**	Reduces flickering in analog images in two levels
Mosquito NR	**On** **Off**	Reduces the noise or artifacts seen around the edges of objects that is caused by the decompression of MPEG video
Video Range	**Auto** **Normal** **Expanded**	Sets the video range to match the setting of the device connected to the **HDMI**, **HDBaseT**, and **SDI** (PowerLite Pro Z9870UNL/Z10000UNL/ Z10005UNL) input ports
Input Signal	**Auto** **RGB** **Component**	Specifies the signal type from input sources connected to computer ports **Auto**: detects signals automatically **RGB**: corrects color for computer/RGB video inputs **Component**: corrects color for component video inputs
Video Signal	**Auto** Various video standards	Specifies the signal type from the input sources connected to the video ports **Auto**: detects signals automatically

Setting	Options	Description
Aspect	See the list of available aspect ratios	Sets the aspect ratio (width-to-height ratio) for the selected input source
Scale	Various scale options	When using multiple projectors to project one image, adjusts the scale of the image displayed by each projector
Overscan	**Auto** **Off** **4%** **8%**	Changes the projected image ratio to make the edges visible by a selectable percentage or automatically
Image Processing	**Fast** **Fine**	Adjusts how images are processed **Fast**: displays images quicker **Fine**: displays images in higher quality

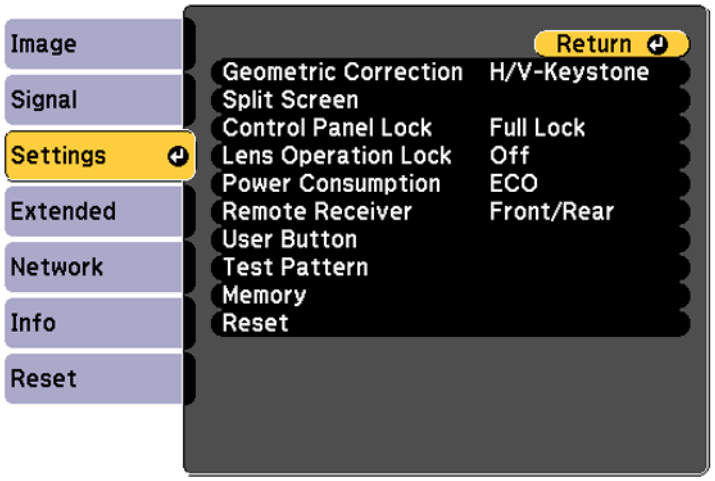
Parent topic: Adjusting the Menu Settings

Related references

Available Image Aspect Ratios

Projector Feature Settings - Settings Menu

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



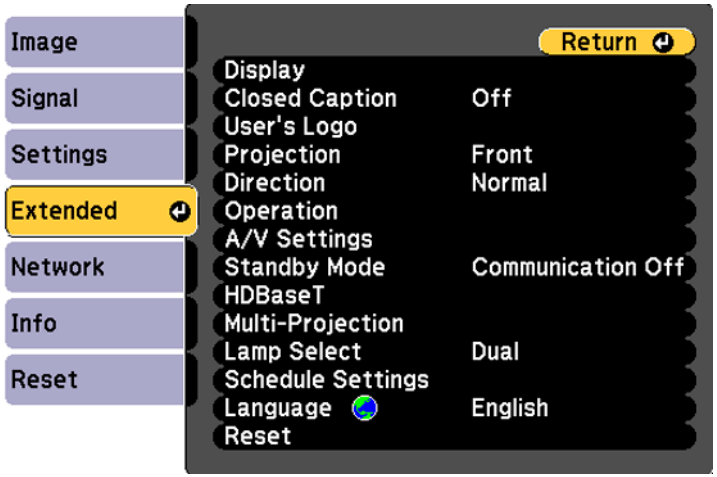
Setting	Options	Description
Geometric Correction	**Off** **H/V-Keystone** **Quick Corner** **Curved Surface** **Point Correction** **Corner Wall**	Adjusts the projected image shape **H/V Keystone**: lets you manually correct the angles of the horizontal and vertical sides **Quick Corner**: select to adjust the position of the four corners **Curved Surface**: select to adjust the image when projecting on a curved surface **Point Correction**: select to display a grid and finely adjust the image position **Corner Wall**: select to adjust the image when projecting on a surface with a right angle
Split Screen	—	Divides the viewing area horizontally and displays two images side-by-side; while in Split Screen mode, press **Menu** to display the Split Screen options or **Esc** to cancel split screen display
Control Panel Lock	**Full Lock** **Partial Lock** **Off**	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
Lens Operation Lock	**On** **Off**	Locks the **Lens Shift**, **Zoom**, and **Focus** buttons on the remote control

Setting	Options	Description
Power Consumption	**Normal** **Temp Interlock** **ECO**	Selects the brightness mode of the projector lamp **Normal**: sets maximum lamp brightness **Temp Interlock**: automatically dims the lamp if the surrounding temperature is too high for normal operation **ECO**: reduces lamp brightness and fan noise, and saves power and lamp life
Remote Receiver	**Front/Rear** **Front** **Rear** **Off**	Limits reception of remote control signals by the selected receiver; **Off** turns off all receivers
User Button	**User Button 1** **User Button 2** **User Button 3**	Assigns a menu option to the **User1**, **User2**, and **User3** buttons on the remote control for one-touch access
Test Pattern	—	Displays a test pattern to assist in adjusting the image; press the left or right arrow buttons on the remote control or **Enter** on the control panel to cycle through the available test patterns, or **Esc** to cancel pattern display
Memory	**Load Memory** **Save Memory** **Erase Memory** **Rename Memory**	Save customized sets of settings to memory

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
Display	—	See the Display settings table in this topic
Closed Caption	**Off** **CC1** **CC2**	Controls use of closed captions and selects the closed caption type (closed captions are only visible for NTSC signals connected through the S-Video or Video ports)
User's Logo	—	Creates a screen that the projector displays to identify itself and enhance security

Setting	Options	Description
Projection	**Front** **Front/Upside Down** **Rear** **Rear/Upside Down**	Selects the way the projector faces the screen so the image is oriented correctly
Direction	Varying levels available	Selects the installation angle for the projector; the projector's fan may get louder depending on the direction angle selected
Operation	—	See the Operation settings table in this topic
A/V Settings	**A/V Output** **Monitor Out**	Selects various audio and video output settings **A/V Output**: select to output audio and video to an external device when the projector is in standby mode (Standby Mode must be set to **Communication On** to use this setting) **Monitor Out**: select the image source to output to an external device when the projector is in standby mode; when set to **Auto**, an analog RGB signal from the **Computer** or **BNC** ports is output depending on which source was selected when the projector went into standby mode

Setting	Options	Description
Standby Mode	**Communication On** **Communication Off**	Enable this setting to allow the following operations to occur when the projector is in standby mode: • Monitor and control the projector over a network • Output audio and video to an external device (A/V Output must be set to **Always On**) • Communication from the **HDBaseT** port
HDBaseT	**Control Communications** **Extron XTP**	Selects the communication settings when you connect the projector to an HDBaseT Transmitter or switcher **Control Communications**: enables or disables communication from the Ethernet and serial ports on the HDBaseT transmitter; also disables the projector's **LAN**, **RS-232C**, and **Remote** ports **Extron XTP**: set to **On** when you connect the Extron XTP transmitter or switcher to the HDBaseT port
Multi-Projection	—	See the Multi-Projection settings table in this topic
Lamp Select	**Dual** **Single** **Lamp1** **Lamp 2**	Select the lamps to be turned on

Setting	Options	Description
Schedule Settings	—	Schedule specific operations to occur at a pre-scheduled time
Language	Various languages available	Selects the language for projector menu and message displays (not changed by **Reset** option)

Display settings

Setting	Options	Description
Menu Position	—	Selects the position of the projector menu displayed on the screen
Message Position	—	Selects the position of the message displayed on the screen
Messages	—	Controls whether messages are displayed on the screen
Display Background	—	Selects the screen color or logo to display when no signal is received
Startup Screen	—	Controls whether a special screen appears when the projector starts up
Standby Confirmation	—	Displays a confirmation message after pressing the **Standby** button on the remote control
Air Filter Notice	—	Displays a message when a clog in the air filter is detected
Screen	—	Sets the aspect ratio and position of the projected image according to the type of screen being used
Panel Alignment	—	Corrects color misalignment in the projected image

Setting	Options	Description
Color Uniformity	—	Adjusts the color tone balance

Operation settings

Setting	Options	Description
Direct Power On	—	Turns on the projector when you plug it in
Sleep Mode	—	Automatically places the projector in standby mode after an interval of inactivity
Sleep Mode Timer	—	Sets the time before the projector automatically turns off (Sleep Mode must be turned on)
Shutter Timer	—	Automatically turns off the projector after approximately 120 minutes of inactivity
High Altitude Mode	—	Regulates the projector's operating temperature at altitudes above 4921 feet (1500 m).
Startup Source Search	—	Automatically detects the image signal being input when the projector is turned on
Auto Power On	—	Automatically turns on the projector when signals are received from the **Computer** or **BNC** input ports, even when the projector is in Standby status (only available when **Standby Mode** is set to **Communication On**)
Advanced	—	See the Advanced Operation settings table in this topic

Multi-Projection settings

Setting	Options	Description
Projector ID	—	Sets the projector to a particular ID number which allows you to use a remote control to individually control projectors
Scale	—	Adjusts the size of the image
Color Mode	—	Adjusts image color
Color Uniformity	—	Adjusts the color tone balance for the whole screen
Edge Blending	—	Blends the border between multiple images to create a seamless screen
Brightness Level	—	Adjusts the brightness of the lamp
Color Matching	—	Corrects the difference between the tint and brightness of each projected image
RGBCMY	—	Adjusts the hue, saturation, and brightness for red, green, blue, cyan, magenta, and yellow color components
Black Level	—	Adjusts the differences in overlapping images

Advanced Operation settings

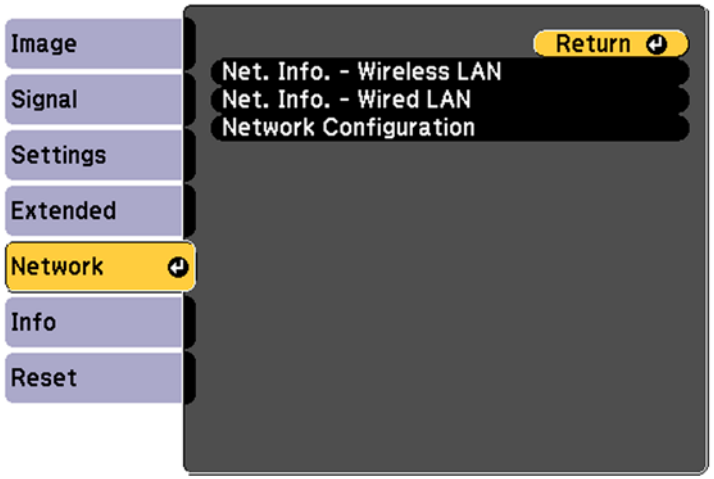
Setting	Options	Description
BNC Sync Termination	—	Sets the termination for the signal from the BNC port (normally should be off unless analog termination such as for switchers is necessary)

Setting	Options	Description
Remote Control Type	—	Select **Normal** to use the remote control that came with the projector or **Simple** to use a different Epson projector remote control (disables the remote control that came with the projector)
Shutter Button	—	Select **Shutter** to open or close the electric shutter or **Blank** to turn off the image temporarily when you press the **Shutter** button
Shutter Release	—	Select **Shutter** to release the shutter function by pressing the **Shutter** button, or **Any Button** to release the shutter function when any operation is performed on the projector
Beep	—	Controls the beep that sounds when the projector turns on or off
Indicators	—	Turn on or off the projector's indicators except for errors or warnings
Lens Type	—	Select the model number for the lens you have attached
Instant Off	—	Set to **Enabled** to send the projector into standby status after power off or **Disabled** to send the projector into standby status approximately 3 minutes after power off
Date & Time	—	Adjusts the projector's system time and date settings

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
Net. Info - Wireless LAN	**Connection mode** **Wireless LAN System** **Antenna level** **Projector Name** **SSID** **DHCP** **IP Address** **Subnet Mask** **Gateway Address** **MAC Address** **Region Code**	Displays wireless network status and details

Setting	Options	Description
Net. Info - Wired LAN	**Projector Name** **DHCP** **IP Address** **Subnet Mask** **Gateway Address** **MAC Address**	Displays wired network status and details
Network Configuration	Accesses additional network menus	Configures your network settings

Parent topic: Adjusting the Menu Settings

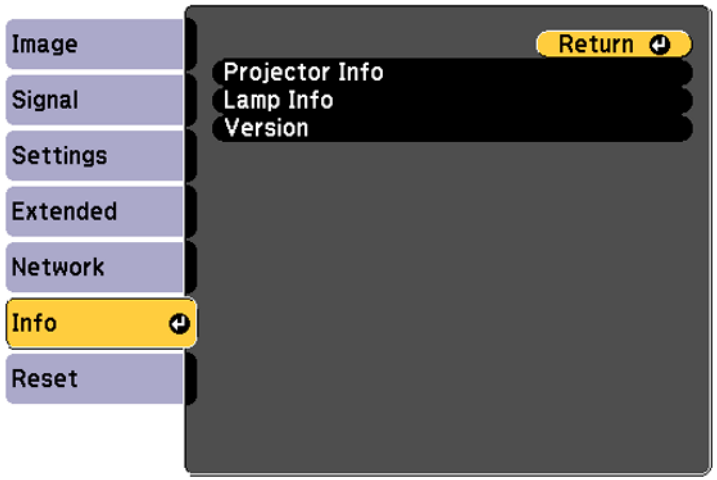
Related concepts

Wired Network Projection

Wireless Network Projection

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

Setting	Options	Description
Projector Info	—	See the next table in this topic
Lamp Info	**Lamp Hours** **Lamp Status**	Displays the following lamp information: **Lamp Hours**: displays the number of hours (**H**) the lamp has been used in **Normal** and **ECO** Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon **Lamp Status**: displays icons indicating the operating status of each lamp
Version	**Main** **Video** **Status Monitor**	Displays the projector's firmware information

Projector Info settings

Setting	Options	Description
Source	—	Displays the name of the current input source port
Input Signal	—	Displays the input signal setting of the current input source
Resolution	—	Displays the resolution of the current input source
Video Signal	—	Displays the video signal format of the current input source

Setting	Options	Description
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
HDBaseT Signal Quality	—	Displays the image signal information from the HDBaseT port

Event ID Code List

Parent topic: Adjusting the Menu Settings

Related references

Optional Equipment and Replacement Parts
Projector Lamp Specifications

Event ID Code List

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

Event ID code	Cause and solution
0432	The EasyMP Network Projection program did not start. Turn the projector off and then on again.
0435	

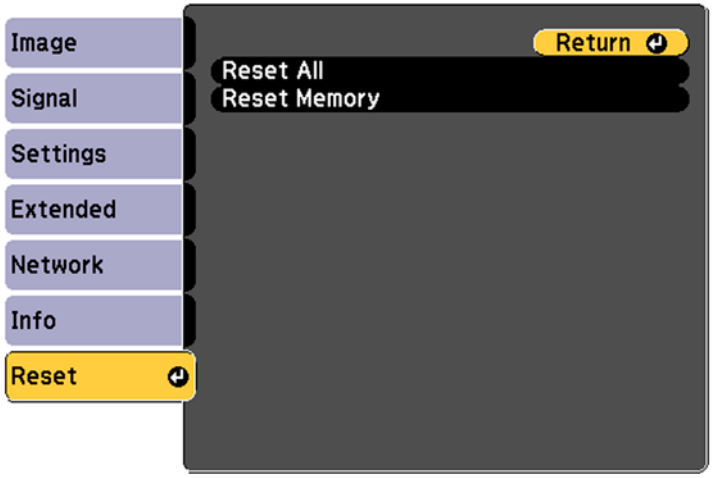
Event ID code	Cause and solution
0434	Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0482	
0484	
0485	
0433	Cannot display the transferred images. Restart the EasyMP Network Projection program.
0481	Communication with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

Parent topic: Projector Information Display - Info Menu

Projector Reset Options - Reset Menu

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

You can also reset the saved names and settings in the Save Memory list using the **Reset Memory** option.



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

- Input Signal
- User's Logo
- Language
- Network menu items
- Lamp Hours
- Date & Time
- Panel Alignment
- Color Uniformity
- Memory
- Color Matching
- Lamp Select

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 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
Replacing the Air Filter

Parent topic: Projector Maintenance

Related concepts

Projector Status Display

Related references

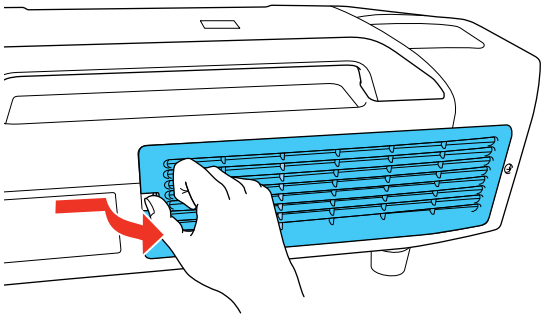
Projector Light Status

Cleaning the Air Filter

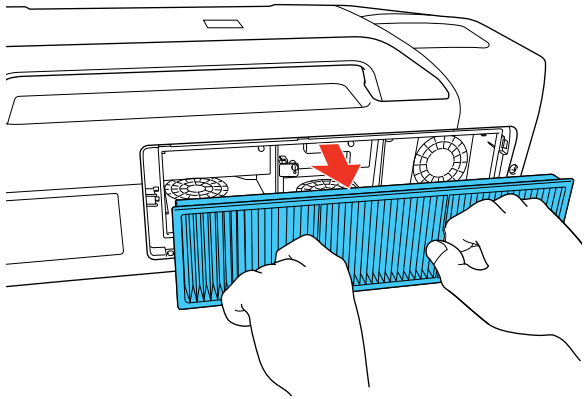
You need to clean the projector's air filter in the following situations:

- The filter or vents get dusty.
- You see a message telling you to clean it.
- The projector's Filter light flashes orange.

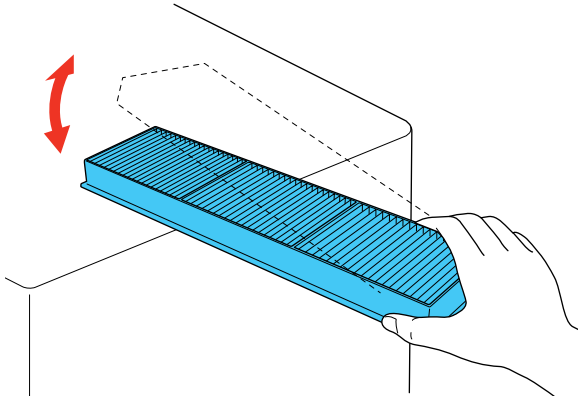
1. Turn off the projector and unplug the power cord.
2. Press and hold the tab on the air filter cover, and pull to remove the cover.



3. Pull the air filter out of the projector.

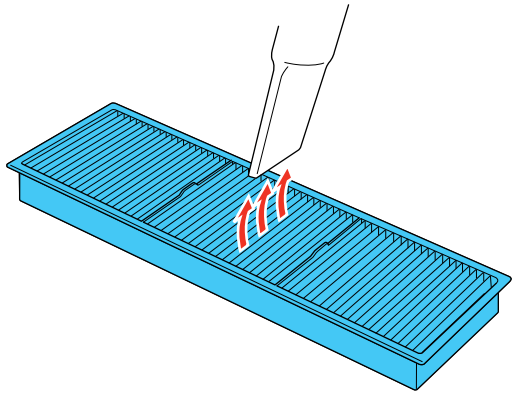


4. Tap each side of the air filter 4 to 5 times to shake off any excess dust.



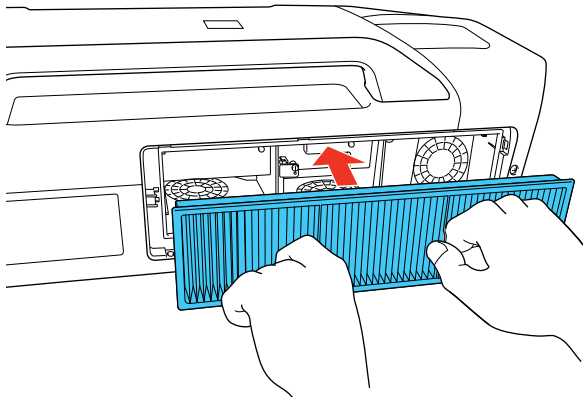
Caution: Do not use excessive force when tapping the air filter, or it may crack and become unusable. Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not use canned air; the gases may leave a residue, or push dust and debris into the projector's optics or other sensitive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

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

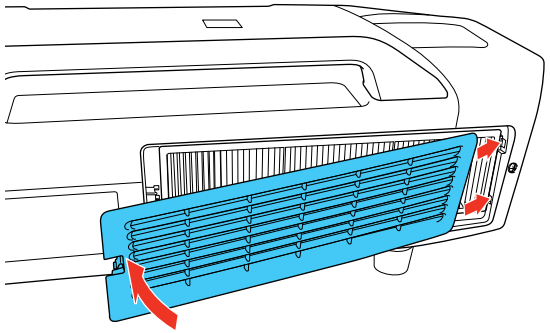


Note: If dust is difficult to remove or the air filter is damaged, replace the air filter.

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



7. Attach the air filter cover as shown, and press it gently until it clicks into place.



Parent topic: Air Filter and Vent Maintenance

Related concepts

Projector Status Display

Related references

Projector Light Status

Replacing the Air Filter

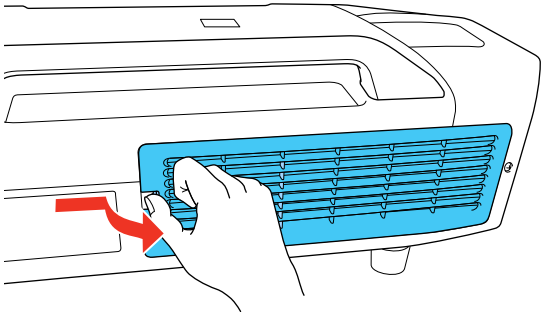
You need to replace the air filter in the following situations:

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

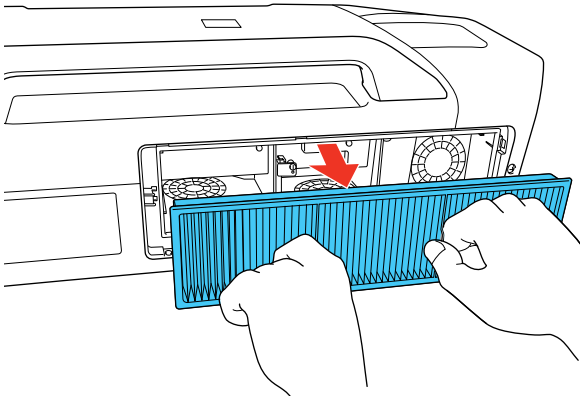
You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

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

2. Press and hold the tab on the air filter cover, and pull to remove the cover.

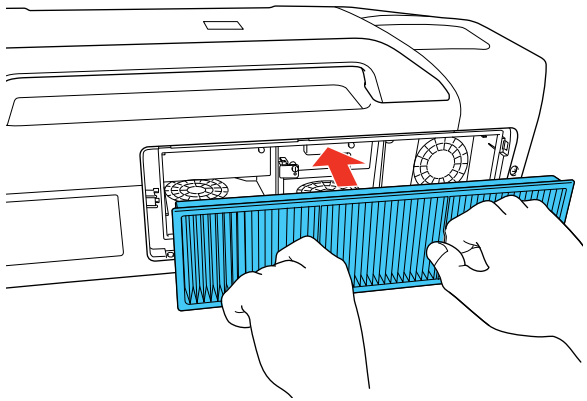


3. Pull the air filter out of the projector.

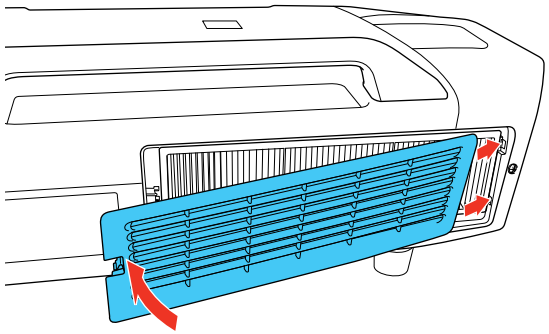


Note: Air filters contain polypropylene. Dispose of used air filters according to local regulations.

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



5. Attach the air filter cover as shown, and press it gently until it clicks into place.



Parent topic: Air Filter and Vent Maintenance

Related concepts

Projector Status Display

Related references

Projector Light Status

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 power light is flashing blue and the Lamp 1 or Lamp 2 light is flashing orange.

Replacing the Lamp
Resetting the Lamp Timer

Parent topic: Projector Maintenance

Related concepts

Projector Status Display

Related references

Optional Equipment and Replacement Parts
Projector Lamp Specifications
Projector Information Display - Info Menu
Projector Light Status

Replacing the Lamp

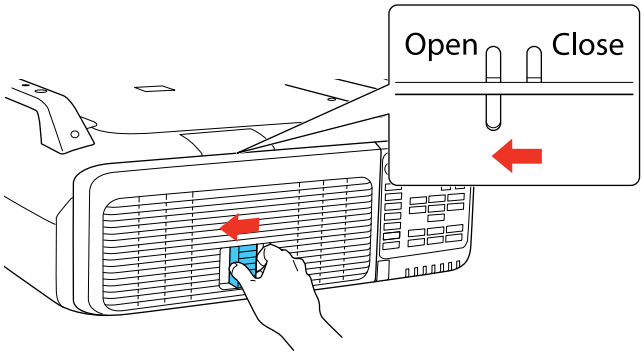
Before you replace the lamp, let the projector cool down for at least one hour so the lamp will not be hot.

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

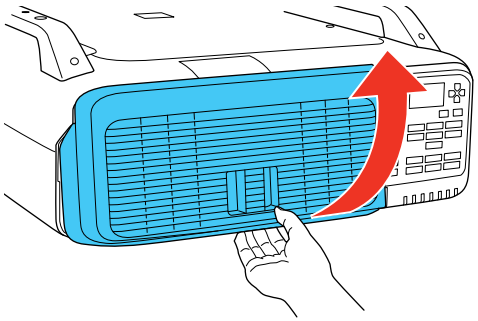
You can replace the lamp while the projector is mounted to the ceiling, if necessary.

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

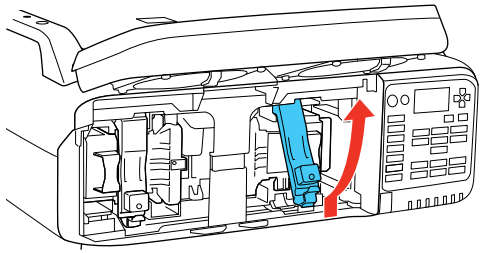
3. Slide the lamp cover latch to the **Open** position and slide the lamp cover to the left.

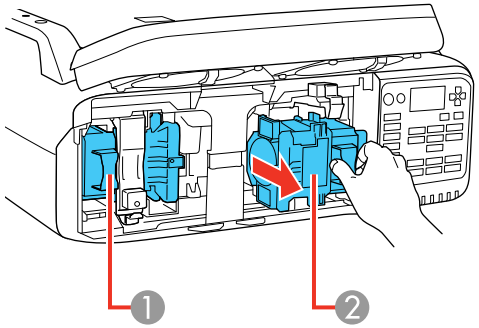


4. Open the lamp cover.



5. Pull up the lock lever for the lamp you want to replace and pull the lamp straight out of the projector.

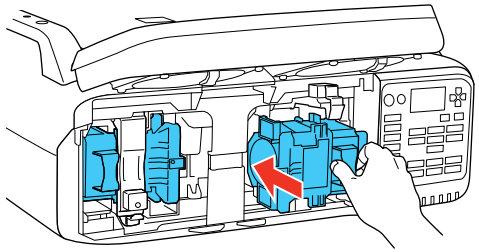




1	Lamp 1
2	Lamp 2

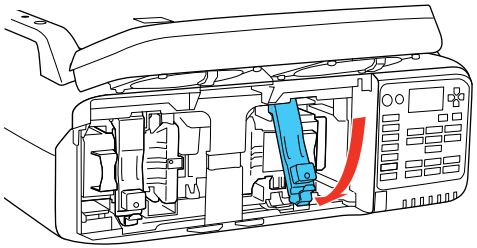
Note: (Hg) The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.

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

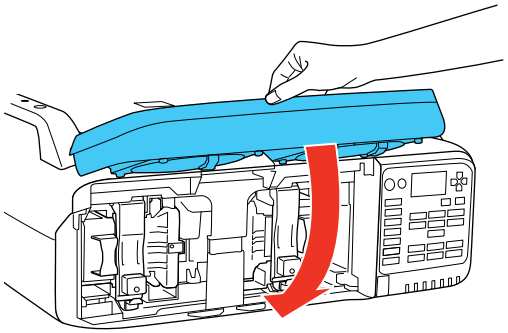


Caution: Do not touch any glass on the lamp assembly to avoid premature lamp failure.

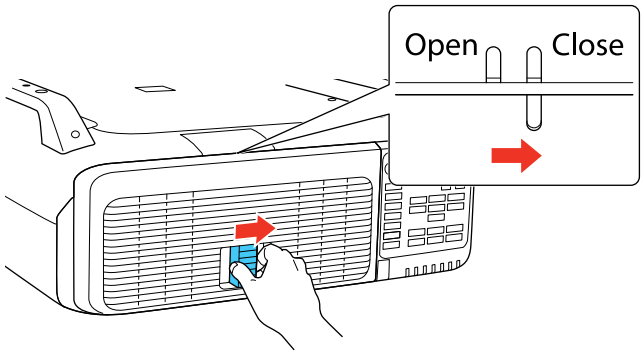
7. Flip down the lock lever and press until it clicks into place.



8. Close the lamp cover.



9. Slide the lamp cover to the right until it clicks, and slide the lamp cover latch to the **Close** position.



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

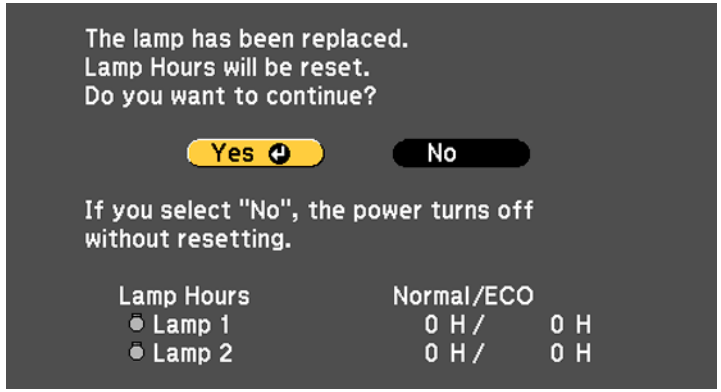
Resetting the Lamp Timer

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 a lamp to avoid inaccurate lamp usage information.

1. Turn on the projector.

2. The following message is displayed on the screen:



3. Select **Yes** and press **Enter**.

   The count for the lamp you replaced will return to 0 hours.

Parent topic: Projector Lamp Maintenance

Related tasks

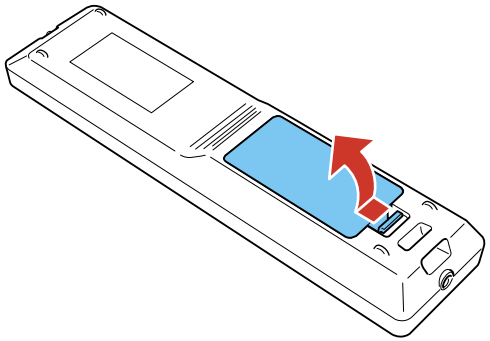
Replacing the Lamp

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.

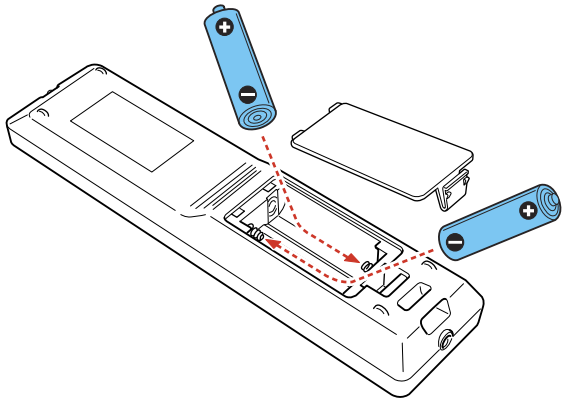
1. Open the battery cover as shown.



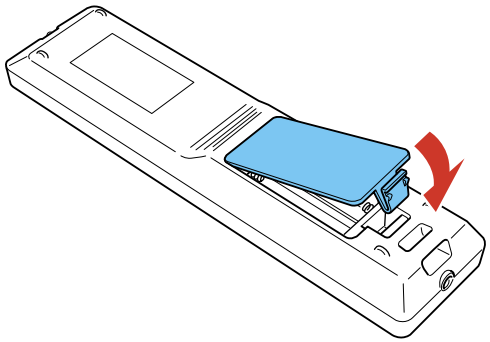
2. Remove the old batteries.

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

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



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



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

Parent topic: Projector Maintenance

Related references

Remote Control Operation

Transporting the Projector

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

- Remove any equipment connected to the projector.
- Do one of the following:
  - If you are using the standard zoom lens, keep it installed on the projector.
  - If you are using an optional lens, remove it from the projector.
  - If the projector did not come with a lens, attach the cover that was included with the projector to the lens mount.
- Center the lens using lens shift.
- Attach the protective lens pad that was included with the projector.
- When transporting the projector a long distance or as checked luggage, pack it in a firm box with cushioning around it and mark the box "Fragile."

- When shipping the projector for repairs, place it in its original packing materials, if possible, or use equivalent materials with cushioning around the projector. Mark the box "Fragile."

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

Parent topic: Maintaining and Transporting the Projector

Related tasks

Removing a Lens
Attaching a Lens
Adjusting the Image Position Using Lens Shift

Solving Problems

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

Projection Problem Tips
Projector Light Status
Projector Status Display
Using the Projector Help Displays
Solving Image Problems
Solving Projector or Remote Control Operation Problems
Solutions When Network Alert E-Mails are Not Received
Where to Get Help

Projection Problem Tips

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

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

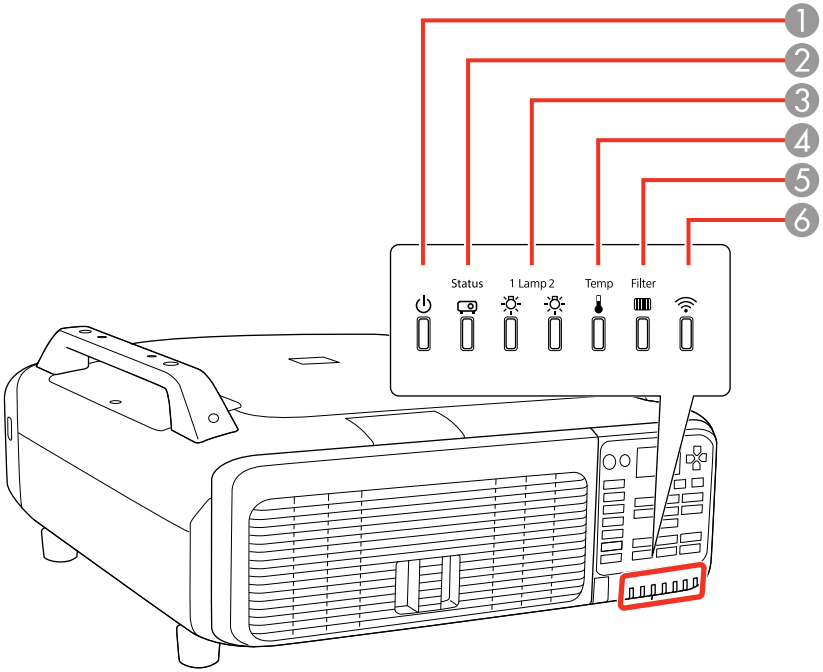
- The lights on the projector may indicate what the problem is.
- The projector's Help system can display information about common problems, if the projector is operating.
- The solutions in this manual can help you solve many problems.

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

Parent topic: Solving Problems

Projector Light Status

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



1 Power light

2 Status light

3 Lamp 1/Lamp 2 lights

4 Temp (temperature) light

5 Filter light

6 Wireless LAN light

Power light	Status light	Lamp lights	Temp light	Filter light	Status and solution
Blue	Blue	On	Off	Off	Normal operation.
Blue	Flashing blue	Off	Off	Off	Warming up. Wait for an image to appear.
Blue	Off	Off	Off	Off	Standby or sleep mode.
Flashing blue	Off	Off	Off	Off	Preparing network monitoring or shutting down. (Wait for the power light to remain blue before unplugging the projector.)
Blue	Blue	Flashing blue	Off	Off	The shutter function is on.
Blue	Flashing blue	Off	Off	Off	The projector has been turned off and is in cool down status.
Off	Flashing blue	Off	Orange	Off	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.

Power light	Status light	Lamp lights	Temp light	Filter light	Status and solution
Off	Flashing blue	Off	Flashing orange	Off	Fan or sensor error. Projector has overheated and turned off. Leave it turned off to cool down for five minutes. • 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 lights	Temp light	Filter light	Status and solution
Off	Flashing blue	Orange	Off	Off	The indicated lamp has a problem. • Check to see if a lamp is burned out, broken, or installed incorrectly. Reseat or replace the lamp as necessary. • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. • If operating the projector at high altitude, turn on **High Altitude Mode**. • Make sure that the **Direction** setting is correct. • If the problem persists, unplug the projector and contact Epson for help.
Blue	Off	Off	Off	Flashing orange	Clean the air filter.

Power light	Status light	Lamp lights	Temp light	Filter light	Status and solution
Blue	Flashing blue	Off	Off	Flashing orange	Low air flow through the projector or air filter. • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. • Clean or replace the air filter. • If the problem persists, unplug the projector and contact Epson for help.
Flashing blue	Off	Off	Off	Orange	No air filter. Check to see if the air filter is securely installed.
Flashing blue	Off	Flashing orange	Off	Off	The indicated lamp is past its replacement period and must be replaced to avoid damage. Do not continue using the projector.
Blue	Off	Flashing orange	Off	Off	Lamp types are mismatched. Make sure two standard lamps or two portrait lamps are installed, depending on the orientation of the projector.
Off	Flashing blue	Off	Flashing orange	Off	A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help.

Power light	Status light	Lamp lights	Temp light	Filter light	Status and solution
Off	Flashing blue	Flashing orange	Off	Off	Internal projector error or air exhaust vent error. Turn the projector off, unplug it, and contact Epson for help.

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

Parent topic: Solving Problems

Related references

Projector Setup Settings - Extended Menu

Projector Feature Settings - Settings Menu

Where to Get Help

Related tasks

Cleaning the Air Filter

Replacing the Air Filter

Replacing the Lamp

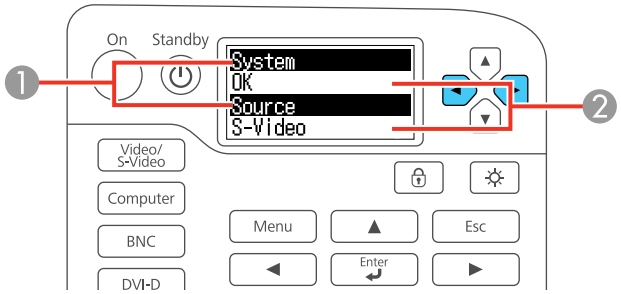
Projector Status Display

You can monitor the projector's status and view error information from the status display screen on the projector's control panel.

The status display menus list the following information:

- **Status Information**: The projector's operating status
- **Source**: Input signal information
- **Signal Information**: Input digital signal information
- **Network Wired**: Wired LAN settings
- **Network Wireless**: Wireless LAN settings
- **Maintenance**: Operating time for the projector and lamps

- **Version**: The projector's firmware version



1 Status menu setting

2 Information about status setting

If a problem occurs, an error or warning message appears on the status screen. Press an arrow button to return the status screen to its normal state.

Using the Projector Status Display
Adjusting the Projector Status Display
Projector Status Display Messages

Parent topic: Solving Problems

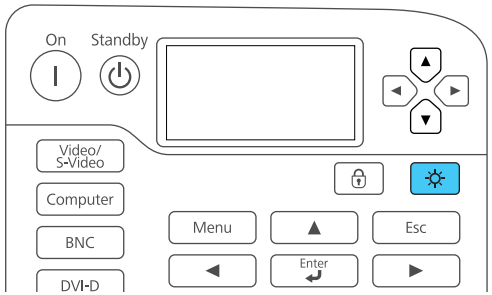
Related references

Projector Feature Settings - Settings Menu
Input Signal Settings - Signal Menu
Where to Get Help

Using the Projector Status Display

Follow these steps to use the projector status display.

1. Turn on the projector status display by pressing the light button on the control panel.



2. Press the left or right arrow button to view the display menus.
3. Press the up or down arrow to view the menu settings.

Parent topic: Projector Status Display

Adjusting the Projector Status Display

You can adjust the contrast and the backlight duration on the status display screen.

1. Press the right or left arrow button to select the **Setting** menu.
2. Press the down arrow button to display the **Contrast**.
3. Press the left or right arrow button to adjust the contrast.
4. Press the down arrow button to display the **Lighting Time**.
5. Press the left or right arrow button to adjust the length of time the backlight stays on (default is 30 seconds).

Parent topic: Projector Status Display

Projector Status Display Messages

Selections on the status display menus let you view information about the projector and its operation.

Status Information menu

Selection	Options	Description
System	—	See the System status information table at the end of this topic
Source	**Computer** **BNC** **Video** **S-Video** **HDMI** **DVI-D** **SDI** **LAN** **HDBaseT**	Displays the source currently being used
On-Screen Display	**On** **Off**	Displays the settings for the **On-Screen Display**. When set to **Off**, the menus or messages are not displayed on the projected images
Shutter	**Open** **Close**	Displays the projector's shutter function status
Air Temp	—	Displays the environmental temperature
AC Voltage	—	Displays the power voltage
Lamp1 Type	**Standard** **Portrait**	Display the lamp type for each lamp **Standard**: a standard lamp is installed **Portrait**: a portrait mode lamp is installed
Lamp2 Type	**Standard** **Portrait**	
Lamp1 Status	**On** **Off**	Displays the operating status of Lamp 1

Selection	Options	Description
Lamp2 Status	**On** **Off**	Displays the operating status of Lamp 2
Lamp Select	**Dual** **Single** **Lamp1** **Lamp2**	Displays the lamp option currently selected **Dual**: both lamps are selected **Single**: a single lamp is selected **Lamp1**: only Lamp1 is selected **Lamp2**: only Lamp2 is selected

Source menu

Selection	Options	Description
Source	**Computer** **BNC** **Video** **S-Video** **HDMI** **DVI-D** **SDI** **LAN** **HDBaseT**	Displays the source currently being used
Resolution	—	Displays the resolution of the current input signal
Video Signal	—	Displays the current input video signal
Color Space	—	Displays the color space of the current input signal
H-Frequency	—	Displays the horizontal frequency of the current input signal

Selection	Options	Description
V-Frequency	—	Displays the vertical frequency of the current input signal
Sync Polarity	—	Displays the Sync polarity
Sync Mode	—	Displays the Sync type
Detected Mode	—	Displays the detected mode of the current input signal
Video Level	**Auto (Normal)** **Auto (Expanded)** **Normal** **Expanded**	Displays the video level of the projector

Signal Information menu

Selection	Options	Description
5V Detect	—	Displays the detection results of 5V signals
TMDS Clock	—	Displays the TMDS frequency of the current input signal
TMDS H-Frequency	—	Displays the horizontal frequency of the current input signal
TMDS V-Frequency	—	Displays the vertical frequency of the current input signal
DetChg 5CFHMP123	—	Displays the factors of signal changes
Stable Time	—	Displays the amount of operating time since the input source was determined
HDCP Status	**Non-HDCP** **Passed** **Failed**	Displays the HDCP status

Selection	Options	Description
HDCP Ri	—	Display information about each HDCP type
HDCP AKSV	—	
HDCP An	—	
AVI Info VIC	—	Displays the VIC information (AVI) of the current input signal
AVI InfoChecksum	**OK** **NG**	Displays the checksum result for AVI
Signal Mode	**HDMI** **DVI**	Displays the signal mode
Pixel Encoding	**RGB** **YUV4:4:4** **YUV4:2:2** **YUV4:2:0**	Displays the color space information (AVI) of the current input signal
HDBaseT Quality	—	Displays the image signal information from the HDBaseT port

Network Wired menu

Selection	Options	Description
Projector Name	—	Displays the name used to identify the projector when connected to a network
Connection Mode	**HDBaseT** **LAN**	Displays the connection path for the LAN
DHCP	—	Displays the DHCP display settings
IP Display	—	Displays the IP address display settings
IP Address	—	Displays the IP address

Selection	Options	Description
MAC Address	—	Displays the MAC address

Network Wireless menu

Selection	Options	Description
Projector Name	—	Displays the name used to identify the projector when connected to a network
Connection Mode	**Quick** **Advanced**	Displays the connection mode to use when connecting the projector and a computer over a wireless LAN
SSID Display	—	Displays the SSID display settings
IP Display	—	Displays the IP address display settings
SSID	—	Displays the SSID
IP Address	—	Displays the IP address
DHCP	—	Displays the DHCP settings
MAC Address	—	Displays the MAC address
Security	**No** **WPA2-PSK** **WPA/WPA2-PSK**	Displays the security settings
Antenna Level	Level 0-5	Displays the reception status for Wi-Fi

Maintenance menu

Selection	Description
Operation Time	Displays the projector's total operation time

Selection	Description
Lamp1 Op. Time	Displays the total operation time of standard Lamp 1
Lamp2 Op. Time	Displays the total operation time of standard Lamp 2
Lamp1 Op. Time PR	Displays the total operation time of portrait mode Lamp 1
Lamp2 Op. Time PR	Displays the total operation time of portrait mode Lamp 2

Version menu

Selection	Description
Serial No.	Displays the projector's serial number
Main	Displays the projector's firmware version information
Video	
Status Monitor	

Setting menu

Selection	Options	Description
Contrast	Level	Adjusts the contrast for the LCD screen
Lighting Time	**Off** **10 to 60 sec** **Approx. 30 min**	Selects the duration of time for the status screen display

System status information

Status	Description
OK	The projector is in normal operating mode
Warm-up	The projector is warming up

Status	Description
Standby	The projector is in standby mode
Cool Down	The projector is cooling down
Temp Error	A high temperature error occurred
Fan Error	A fan error occurred
Sensor Error	A sensor error occurred
Lamp1 Error (S)	An error occurred in Lamp 1 **S**: indicates a standard lamp **P**: indicates a Portrait mode lamp
Lamp1 Error (P)	
Lamp2 Error (S)	An error occurred in Lamp 2 **S**: indicates a standard lamp **P**: indicates a Portrait mode lamp
Lamp2 Error (P)	
Lamp1 Failure (S)	A Lamp 1 failure occurred **S**: indicates a standard lamp **P**: indicates a Portrait mode lamp
Lamp1 Failure (P)	
Lamp2 Failure (S)	A Lamp 2 failure occurred **S**: indicates a standard lamp **P**: indicates a Portrait mode lamp
Lamp2 Failure (P)	
Power1 Error	A power error occurred
Power2 Error	
Internal Error	An internal error occurred
Cinema Filter Err	A cinema filter error occurred
Auto Iris Error	An auto iris error occurred
Airflow Error	A filter airflow error occurred
Shutter Error	A shutter error occurred
Pump Error	A system cooling error occurred
Temp Warning	A high temperature warning occurred

Status	Description
Internal Warning	A warning regarding the internal system occurred
Airflow Decline	A low airflow error occurred
Lamp1 Warning (S)	A lamp warning occurred in the indicated **Standard** or **Portrait** mode **Lamp 1** or **Lamp 2**
Lamp1 Warning (P)	
Lamp2 Warning (S)	
Lamp2 Warning (P)	
Power1 Warning	A power warning occurred
Power2 Warning	
Shutter Warning	A shutter warning occurred
Direction Warning	The usage angle is out of range. Check the lamp type and set it at the correct angle
Lamp Mismatch	A lamp type mismatch occurred; use the same type of lamp (Standard or Portrait mode) for both Lamp 1 and Lamp 2
Clean Filter	An air filter notice occurred; clean the air filter

Parent topic: Projector Status Display

Related references

Projector Setup Settings - Extended Menu
Projector Feature Settings - Settings Menu
Input Signal Settings - Signal Menu
Optional Equipment and Replacement Parts
Projector Light Status

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 **Help** button on the remote control.

   You see the Help menu.

3. Use the up and down arrow buttons to highlight the problem you want to solve.
4. Press **Enter** to view the solutions.
5. When you are finished, do one of the following:
   - To select another problem to solve, press **Esc**.
   - To exit the help system, press **Help**.

Parent topic: Solving Problems

Solving Image Problems

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

Solutions When No Image Appears
Solutions When "No Signal" Message Appears
Solutions When "Not Supported" Message Appears
Solutions When Only a Partial Image Appears
Solutions When the Image is Not Rectangular
Solutions When the Image Contains Noise or Static
Solutions When the Image is Fuzzy or Blurry
Solutions When the Image Brightness or Colors are Incorrect

Parent topic: Solving Problems

Solutions When No Image Appears

If no image appears, try the following solutions:

- Press the **Shutter** button on the remote control to see if the image was temporarily turned off.
- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- Press the projector's power button to wake it from standby or sleep mode. Also see if your connected computer is in sleep mode or displaying a blank screen saver.
- Press the **Menu** button. If the projector menu is able to display, there may be a problem with the connected video source, cable connection, or port.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the **Brightness** setting or select the **Normal** Power Consumption setting.
- Check the **Display** setting to make sure **Messages** is set to **On**.

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

Parent topic: Solving Image Problems

Related concepts

Projector Connections

Related references

Projector Setup Settings - Extended Menu
Projector Feature Settings - Settings Menu
Input Signal Settings - Signal Menu
Image Quality Settings - Image Menu

Related tasks

Unlocking the Projector's Buttons

Solutions When "No Signal" Message Appears

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

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

Displaying From a PC Laptop
Displaying From a Mac Laptop

Parent topic: Solving Image Problems

Related concepts

Projector Connections

Displaying From a PC Laptop

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

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

Parent topic: Solutions When "No Signal" Message Appears

Displaying From a Mac Laptop

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

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

Parent topic: Solutions When "No Signal" Message Appears

Solutions When "Not Supported" Message Appears

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

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

Parent topic: Solving Image 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:

- Press the **Auto** button on the remote control to optimize the image signal.
- Make sure you selected the correct **Screen Type** setting for the screen being used.
- Try adjusting the image position using the **Position** menu setting.
- Press the **Aspect** button on the remote control to select a different image aspect ratio.
- If you zoomed into or out of the image using the **E-Zoom** buttons, press the **Esc** button until the projector returns to a full display.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)

Parent topic: Solving Image Problems

Related references

Input Signal Settings - Signal Menu

Projector Setup Settings - Extended Menu

Supported Video Display Formats

Related tasks

Setting the Screen Type

Adjusting the Image Position Using Lens Shift

Solutions When the Image is Not Rectangular

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

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

Parent topic: Solving Image 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
  - No longer than 10 feet (3 m) for VGA/computer cables or 24 feet (7.3 m) for HDMI cables
- Check the settings on the projector's Signal menu to make sure they match the video source. If available for your video source, adjust the **Progressive** and **Noise Reduction** settings.
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If the problem remains, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.
- If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting to improve image quality.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.

Parent topic: Solving Image Problems

Related references

Input Signal Settings - Signal Menu
Supported Video Display Formats

Related tasks

Displaying From a PC Laptop
Displaying From a Mac Laptop

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, and directly in front of it.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Adjust the **Sharpness** setting to improve image quality.
- If you are projecting from a computer, 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.
- Set the **Lens Type** setting to the correct lens in the Extended menu.
- If you are projecting from a computer, use a lower resolution.
- Turn off any keystone correction and disable the **Quick Corner** setting.

Parent topic: Solving Image Problems

Related references

Input Signal Settings - Signal Menu
Image Quality Settings - Image Menu
Projection Distance

Related tasks

Focusing the Image Using the Focus Button
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**, **Advanced**, and **Color Saturation**.
- Make sure you selected the correct **Input Signal** or **Video Signal** setting on the Signal menu, if available for your image source.
- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.

- If you are using the **ECO** Power Consumption setting, try selecting **Normal** in the projector's menus.
- If only one lamp is in use, switch to **Dual** lamp mode.
- Position the projector close enough to the screen.
- If the image has been progressively darkening, you may need to replace a projector lamp soon.

Parent topic: Solving Image Problems

Related concepts

Projector Lamp Maintenance

Related references

Input Signal Settings - Signal Menu
Image Quality Settings - Image Menu
Projector Feature Settings - Settings 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 Problems with the Remote Control
Solutions to Password Problems

Parent topic: Solving Problems

Solutions to Projector Power or Shut-Off Problems

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

- Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- The projector's buttons may be locked for security. Unlock the buttons or use the remote control to turn on the projector.
- If the projector's lamps shut off unexpectedly, it may have entered standby mode after a period of inactivity. Press the power button to wake the projector and adjust the Sleep Mode Timer setting to change the sleep interval.
- If the projector's lamps shut off, the Status light is flashing blue, and the Temp light is orange, the projector has overheated and shut off. Check the solutions for this light status.
- Make sure the lamps and lamp cover are installed securely.

- 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.
- Check to see if the projector is being controlled remotely through an RS-232 or LAN connection or a scheduled setting.
- Make sure the **ID** switch on the remote control is set to **Off**.
- The power cord may be defective. Disconnect the cord and contact Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Feature Settings - Settings Menu
Projector Light Status

Related tasks

Unlocking the Projector's Buttons

Solutions to Problems with the Remote Control

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

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

- Make sure the **Control Communications** setting in the Extended menu is set to **On** if you are not using the optional remote control cable set.
- If you lose the remote control, you can purchase another from an authorized Epson reseller.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Feature Settings - Settings Menu
Optional Equipment and Replacement Parts
Remote Control Operation

Solutions to Password Problems

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

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

Parent topic: Solving Projector or Remote Control Operation Problems

Solutions When Network Alert E-Mails are Not Received

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

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

Parent topic: Solving Problems

Related concepts

Wired Network Projection

Wireless Network Projection

Related references

Projector Setup Settings - Extended Menu

Projector Network Settings - Network Menu

Where to Get Help

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

Internet Support

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

Speak to a Support Representative

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

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

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

Before you call, have the following information ready:

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

Purchase Supplies and Accessories

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

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

Parent topic: Solving Problems

Technical Specifications

These sections list the technical specifications of your projector.

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

General Projector Specifications

Type of display	Poly-silicon TFT active matrix
Resolution (native)	1920 × 1200 pixels (WUXGA)
Lens	F=1.65 to 2.51 Focal length: 36 to 57.35 mm
Color reproduction	Full color, 1.07 billion colors

Brightness

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

PowerLite Pro Z9870NL:

Normal Power Consumption mode:

White light output 8700 lumens (two lamps) or 4350 (one lamp) (ISO 21118 standard)

Color light output 8700 lumens (two lamps) or 4350 (one lamp)

ECO Power Consumption mode:

White light output 7300 lumens (two lamps) or 3650 (one lamp) (ISO 21118 standard)

Portrait lamps:

White light output 8500 lumens (two lamps) or 4250 (one lamp) (ISO 21118 standard)

Color light output 8500 lumens (two lamps) or 4250 (one lamp)

PowerLite Pro Z11005NL:

Normal Power Consumption mode:

White light output 11000 lumens (two lamps) or 5500 (one lamp) (ISO 21118 standard)

Color light output 11000 lumens (two lamps) or 5500 (one lamp)

ECO Power Consumption mode:

White light output 7300 lumens (two lamps) or 3650 (one lamp) (ISO 21118 standard)

Portrait lamps:

White light output 8500 lumens (two lamps) or 4250 (one lamp) (ISO 21118 standard)

Color light output 8500 lumens (two lamps) or 4250 (one lamp)

PowerLite Pro Z9800WNL:

Normal Power Consumption mode:

White light output 8300 lumens (two lamps) or 4150 (one lamp) (ISO 21118 standard)

Color light output 8300 lumens (two lamps) or 4150 (one lamp)

ECO Power Consumption mode:

White light output 7100 lumens (two lamps) or 3550 (one lamp) (ISO 21118 standard)

Portrait lamps:

White light output 8100 lumens (two lamps) or 4050 (one lamp) (ISO 21118 standard)

Color light output 8100 lumens (two lamps) or 4050 (one lamp)

PowerLite Pro Z9900WNL:

Normal Power Consumption mode:

White light output 9200 lumens (two lamps) or 4600 (one lamp) (ISO 21118 standard)

Color light output 9200 lumens (two lamps) or 4600 (one lamp)

ECO Power Consumption mode:

White light output 7100 lumens (two lamps) or 3550 (one lamp) (ISO 21118 standard)

Portrait lamps:

White light output 8100 lumens (two lamps) or 4050 (one lamp) (ISO 21118 standard)

Color light output 8100 lumens (two lamps) or 4050 (one lamp)

PowerLite Pro Z11000WNL:

Normal Power Consumption mode:

White light output 11000 lumens (two lamps) or 5500 (one lamp) (ISO 21118 standard)

Color light output 11000 lumens (two lamps) or 5500 (one lamp)

ECO Power Consumption mode:

White light output 7100 lumens (two lamps) or 3550 (one lamp) (ISO 21118 standard)

Portrait lamps:

White light output 8100 lumens (two lamps) or 4050 (one lamp) (ISO 21118 standard)

Color light output 8100 lumens (two lamps) or 4050 (one lamp)

PowerLite Pro Z9750UNL:

Normal Power Consumption mode:

White light output 7500 lumens (two lamps) or 3750 (one lamp) (ISO 21118 standard)

Color light output 7500 lumens (two lamps) or 3750 (one lamp)

ECO Power Consumption mode:

White light output 6600 lumens (two lamps) or 3300 (one lamp) (ISO 21118 standard)

Portrait lamps:

White light output 7500 lumens (two lamps) or 3750 (one lamp) (ISO 21118 standard)

Color light output 7500 lumens (two lamps) or 3750 (one lamp)

	PowerLite Pro Z9870UNL:
	Normal Power Consumption mode:
	White light output 8700 lumens (two lamps) or 4350 (one lamp) (ISO 21118 standard)
	Color light output 8700 lumens (two lamps) or 4350 (one lamp)
	ECO Power Consumption mode:
	White light output 6600 lumens (two lamps) or 3300 (one lamp) (ISO 21118 standard)
	Portrait lamps:
	White light output 7500 lumens (two lamps) or 3750 (one lamp) (ISO 21118 standard)
	Color light output 7500 lumens (two lamps) or 3750 (one lamp)
	PowerLite Pro Z10000UNL/Z10005UNL:
	Normal Power Consumption mode:
	White light output 10000 lumens (two lamps) or 5000 (one lamp) (ISO 21118 standard)
	Color light output 10000 lumens (two lamps) or 5000 (one lamp)
	ECO Power Consumption mode:
	White light output 6600 lumens (two lamps) or 3300 (one lamp) (ISO 21118 standard)
	Portrait lamps:
	White light output 7500 lumens (two lamps) or 3750 (one lamp) (ISO 21118 standard)
	Color light output 7500 lumens (two lamps) or 3750 (one lamp)
Contrast ratio	Up to 15000:1 (with Auto Iris High Speed setting, Normal Power Consumption setting, standard lamps in dual-lamp mode, and lens shift settings at vertical ±60° center and horizontal center)
Image size (in native aspect ratio)	60 inches (1.52 m) to 500 inches (12.7 m)

Projection distance (in native aspect ratio)	78.3 inches (1.99 m) to 676 inches (17.17 m)
Projection methods	Front, rear, ceiling-mounted
Optical aspect ratio (width-to-height)	16:10
Focus adjustment	Powered, manual
Zoom adjustment	Powered, manual
Zoom ratio (Tele-to-Wide)	1 to 1.61 (standard lens)
Noise level	**PowerLite Pro Z9870NL/Z9800WNL/Z9750UNL**: 38 dB (Normal Power Consumption mode; standard lamps) **PowerLite Pro Z9900WNL/Z9870UNL**: 39 dB (Normal Power Consumption mode; standard lamps) **PowerLite Pro Z11005NL/Z11000WNL/Z10000UNL/Z10005UNL**: 40 dB (Normal Power Consumption mode; standard lamps) 35 dB all models (ECO Power Consumption mode; standard lamps)
Lens Shift Range	Vertical: ± 60° (horizontal center; powered) Horizontal: ± 18° (vertical center; powered)

Parent topic: Technical Specifications

Projector Lamp Specifications

Type	UHE (Ultra High Efficiency)
Power consumption	380 W per lamp (standard lamp) 304 W per lamp (portrait lamp)

Lamp life (standard lamps)	Normal Power Consumption mode: **PowerLite Pro Z9870NL/Z9800WNL/Z9750UNL**: Up to about 3000 hours (using two lamps) **PowerLite Pro Z9900WNL/Z9870UNL**: Up to about 2500 hours (using two lamps) **PowerLite Pro Z11005NL/Z11000WNL/Z10000UNL/Z10005UNL**: Up to about 2000 hours (using two lamps) ECO Power Consumption mode (all models): Up to about 4000 hours (using two lamps)
Lamp life (portrait lamps)	Up to about 1000 hours (using two lamps; all models)

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	98.4 feet (30 m)
Batteries	Two alkaline or manganese AA

Parent topic: Technical Specifications

Projector Dimension Specifications

Height (excluding feet, projection lens, and handles)	7.8 inches (197 mm)
Width	21 inches (534 mm)
Depth	29.2 inches (741 mm)

Weight	**PowerLite Pro Z9870NL/Z9800WNL/Z9750UNL**:
(including standard lens)	Approximately 56 lb (25 kg)
	PowerLite Pro Z11005NL/Z9900WNL/Z11000WNL/Z9870UNL/ Z10000UNL/Z10005UNL:
	Approximately 58 lb (26 kg)

Parent topic: Technical Specifications

Projector Electrical Specifications

Rated frequency	50/60 Hz
Power supply	100 to 240 VAC ±10%
	PowerLite Pro Z9870NL/Z9800WNL/Z9750UNL:
	8.5 to 3.8 A
	PowerLite Pro Z9900WNL/Z9870UNL:
	10.0 to 4.4 A
	PowerLite Pro Z11005NL/Z11000WNL/Z10000UNL/Z10005UNL:
	11.2 to 4.9 A

Power consumption (100 to 120 V; using two standard lamps)	Operating: **PowerLite Pro Z9870NL/Z9800WNL/Z9750UNL**: Normal Power Consumption mode: 844 W ECO Power Consumption mode: 748 W **PowerLite Pro Z9900WNL/Z9870UNL**: Normal Power Consumption mode: 995 W ECO Power Consumption mode: 821 W **PowerLite Pro Z11005NL/Z11000WNL/Z10000UNL/Z10005UNL**: Normal Power Consumption mode: 1120 W ECO Power Consumption mode: 821 W Standby: 0.26 W (Communication Off), 2.7 W (Communication On)
Power consumption (220 to 240 V; using two standard lamps)	Operating: **PowerLite Pro Z9870NL/Z9800WNL/Z9750UNL**: Normal Power Consumption mode: 809 W ECO Power Consumption mode: 721 W **PowerLite Pro Z9900WNL/Z9870UNL**: Normal Power Consumption mode: 948 W ECO Power Consumption mode: 788 W **PowerLite Pro Z11005NL/Z11000WNL/Z10000UNL/Z10005UNL**: Normal Power Consumption mode: 1060 W ECO Power Consumption mode: 788 W Standby: 0.37 W (Communication Off), 2.9 W (Communication On)

Parent topic: Technical Specifications

Projector Environmental Specifications

Temperature	Operating: 32 to 122 °F (0 to 50 °C) up to 4921 feet (1500 m) altitude with Power Consumption set to **ECO** or **Temp Interlock** 32 to 113 °F (0 to 45 °C) up to 4921 feet (1500 m) altitude with Power Consumption set to **Normal** 32 to 113 °F (0 to 45 °C) from 4921 feet (1500 m) to 10000 feet (3048 m) altitude with Power Consumption set to **ECO** or **Temp Interlock** 32 to 104 °F (0 to 40 °C) from 4921 feet (1500 m) to 10000 feet (3048 m) altitude with Power Consumption set to **Normal** Storage: 14 to 140 °F (–10 to 60 °C)
Humidity (relative, non-condensing)	Operating: 20 to 80% Storage: 10 to 90%
Operating altitude	Up to 4921 feet (1500 m) Up to 10000 feet (3048 m) with High Altitude Mode enabled

Parent topic: Technical Specifications

Projector Safety and Approvals Specifications

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

Parent topic: Technical Specifications

Supported Video Display Formats

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

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

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

Display format	Refresh rate (in Hz)	Resolution (in pixels)
Computer signals (analog RGB)		
VGA	60/72/75/85	640 × 480
SVGA	56/60/72/75/85	800 × 600
XGA	60/70/75/85	1024 × 768
WXGA	60	1280 × 768
	60	1366 × 768
	60/75/85	1280 × 800
WXGA+	60/75/85	1440 × 900
WXGA++	60	1600 × 900
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
WUXGA[2]	60	1920 × 1200
MAC13"	67	640 × 480
MAC16"	75	832 × 624
MAC19"	75	1024 × 768
	59	1024 × 768
MAC21"	75	1152 × 870
Composite video		
TV (NTSC)	60	720 × 480

Display format	Refresh rate (in Hz)	Resolution (in pixels)
TV (PAL)	50/60	720 × 576
TV (SECAM)	50	720 × 576
Component video		
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
SDTV (480p)	60	720 × 480
SDTV (576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)[3]	50/60	1920 × 1080
DVI-D, HDMI, and HDBaseT (using optional HDBaseT Transmitter) input signals		
VGA	60	640 × 480
SVGA	60	800 × 600
XGA	60	1024 × 768
WXGA	60	1280 × 800
	60	1280 × 768 [4]
	60	1366 × 768 [5]
WXGA+	60	1440 × 900
WXGA++	60	1600 × 900
WSXGA+[1]	60	1680 × 1050
SXGA	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
UXGA	60	1600 × 1200
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576

Display format	Refresh rate (in Hz)	Resolution (in pixels)
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30/50/60	1920 × 1080
SDI input signals[5]		
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50i/60i	1920 × 1080
HDTV (1080p)	24p/25p/30p	1920 × 1080
3G-SDI (1080p)	50p/60p	1920 × 1080

[1] **Wide** resolution only (not available for PowerLite Pro Z9870NL and Z11005NL)

[2] Compatible only with VESA CVT-RB (Reduced Blanking) input signal (PowerLite Pro Z9750UNL/Z10000UNL/Z10005UNL only)

[3] Computer input port signals only

[4] PowerLite Pro Z9750UNL/Z10000UNL/Z10005UNL only

[5] PowerLite Pro Z9870UNL/Z10000UNL/Z10005UNL only

Parent topic: Technical Specifications

Notices

Check these sections for important notices about your projector.

Recycling
Important Safety Information
Important Safety Instructions
FCC Compliance Statement
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Recycling

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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 lens, interface, and 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 (unless using the optional portrait frame and lamps). Do not tilt the projector more than 100° 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 20 inches (50 cm) of space between the projectors to allow for proper ventilation.
- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector. Do not use canned air, or the gases may leave a residue.
- Do not store the projector outdoors for an extended length of time.
- Except as specifically explained in this manual, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Never open any covers on the projector except as specifically explained in this manual. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: if it does not operate normally when you follow the operating instructions, or exhibits a distinct change in performance; if smoke, strange odors, or strange noises come from the projector; if the power cord or plug is damaged or frayed; if liquid or foreign objects get inside the projector, or if it has been exposed to rain or water; if it has been dropped or the housing has been damaged.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Unplug the projector when it will not be used for extended periods.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Do not use or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.
- Do not use the projector where flammable or explosive gases may be present.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range of 32 to 113 °F (0 to 45 °C) at an altitude of 4921 feet (1500 m) or less, or 32 to 104 °F (0 to 40 °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 other object. This could damage the projector or cause a fire.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.
- 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 attach the lens unit cap to the lens when not using the projector to prevent the lens from becoming dirty or damaged.

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.

WARNING: The cords included with this product contain chemicals, including lead, known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.*** (This notice is provided in accordance with Proposition 65 in Cal. Health & Safety Code § 25249.5 and following.)

Restriction of Use

Parent topic: Notices

Restriction of Use

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

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

Parent topic: Important Safety Instructions

FCC Compliance Statement

For United States Users

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

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

WARNING

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

For Canadian Users

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

Parent topic: Notices

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The list of GPL Programs

busybox-1.13.4

iptables-1.4.4

libgcc1(gcc-4.3.3)

libstdc++-6.0.10

linux-2.6.27

patches

udhcp 0.9.8

uvc rev.219

wireless_tools 29

EPSON original drivers

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1989

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glibc-2.8

SDL-1.2.13

SDL-Image

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Version 2.1, February 1999

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