

**PowerLite® 410W
Multimedia Projector**

User's Guide

Important Safety Information

WARNING: Never look into the projector lens when the lamp is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on. Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages inside the projector can severely injure you. Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

WARNING: The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

Caution: When you replace the lamp, never touch the new lamp with your bare hands; the invisible residue left by the oil on your hands may shorten the lamp life. Use a cloth or glove to handle the new lamp.

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W

Welcome

The PowerLite® 410W is a portable, short-throw projector that weighs less than 8 pounds (3.6 kg) and offers 2000 lumens of white and color light output (brightness). From classrooms to boardrooms, your full-color presentations and videos will be bright and vibrant even in ordinary indoor lighting. Images are displayed at a native resolution of 1280 × 800 pixels (WXGA) in a wide-screen 16:10 aspect ratio. Epson 3LCD technology ensures accurate color and remarkable saturation, even in well-lit rooms.

The projector's ground-breaking short-throw lens is ideal for wall mounting, allowing more space for your class or audience, with no shadow cast by the presenter or light in the presenter's eyes. It can be placed as close as 24 inches (62 cm) from a screen, interactive whiteboard (IWB), or other projection surface and project a 60-inch (152 cm), 16:10 image. And its powerful 10 W speaker, crisp 500:1 contrast ratio, and built-in closed captioning decoder ensure your presentations are seen and heard at their best.

You can connect the projector to a wide range of computers, including IBM®-compatible PCs and laptops, Apple® PowerPC® and Intel® Core™ Macintosh® computers, PowerBook® computers, and many iMac® and iBook® series systems. With Epson's patented SizeWise™ technology, the projector supports computer displays, including widescreen displays, ranging from VGA through WSXGA+. You can also connect the projector to a LAN (local area network) so you can monitor the projector from a remote network computer using the included EMP Monitor software (Windows® only).

You can use any of the following video sources: HDTV, VCR, DVD player, gaming console (such as Microsoft® Xbox,™ Sony® PlayStation® 3, and Nintendo Wii™), camcorder, or digital camera. The projector supports NTSC, PAL, and SECAM video formats.

You can connect up to four devices to the projector at the same time. With the projector's **Source Search** button, you don't even have to identify your input source. Just press the button until you see the image you want on the screen.

To prevent unauthorized use of the projector, you can assign a password, create a user logo which is displayed at startup to identify the projector, and disable the projector's buttons through a full or partial Control Panel Lock feature. For more information about security features, see page 66.

Getting the Most from Your Projector

Depending on your presentation, you can take advantage of any or all of these options:

- **Connecting to a laptop or other computer**

If you want to connect the projector to a laptop or desktop computer, see page 20. For additional presentation control, you can connect an external monitor to view the presentation on your computer simultaneously.

- **Connecting to video sources**

You can connect a DVD player, VCR, HDTV, camcorder, digital camera, and other video sources to your projector. See page 26 for instructions.

- **Using the remote control**

The remote control lets you switch from computer to video sources, zoom in on part of your image, freeze or mute the presentation, and adjust many other projector features. For details, see Chapter 3.

- **Enhancing sound in your presentation**

By connecting your projector to external speakers, you can enhance the audio impact of your presentations. (The internal 10 W speaker provides powerful sound, but is disabled when you connect external speakers.) See page 25 for details.

Using Your Documentation

In addition to this manual, your documentation includes a *Quick Setup* sheet, warranty brochures, and an Epson PrivateLine® Support card.

The *Quick Setup* sheet gives instructions to quickly set up your projector and connect it to a computer or video device.

This book contains all the information you need to set up and use your projector. Please follow these guidelines as you read through it:

- **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.

Getting More Information

Need quick steps for setting up your projector or other information? Here's where you can look for help:

- **Built-in help system**
Press the **Help** button on the remote control or projector to get quick solutions for common problems. See page 82 for details.
- **epson.com/support**
Download FAQs (frequently asked questions) and e-mail your questions to **Epson support**.

If you still need help after checking this *User's Guide* and the sources listed above, you can use the Epson PrivateLine Support service to get help fast. Call (800) 637-7661 and enter the PIN on your PrivateLine Support card. See page 91 for more information.

Registration and Warranty

Your projector comes with a basic carry-in warranty. For details, see the warranty brochure that came with your projector.

In addition, Epson offers Extra CareSM Road Service at no additional charge. 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 or Canada, usually within one business day. See the Extra Care Road Service brochure for details.

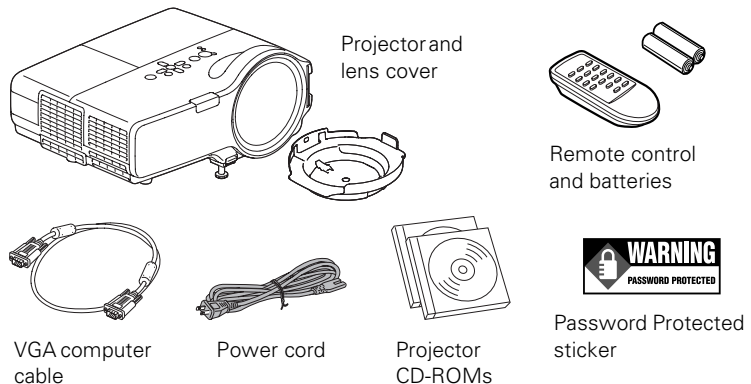
To register, complete the registration form that came with your projector and mail it to Epson. Or register your product online using your projector CD, or at:

<http://www.epson.com/webreg>

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

Unpacking the Projector

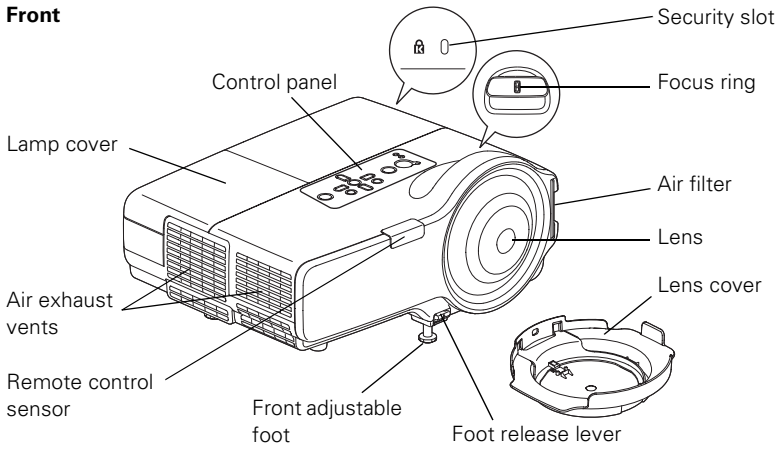
After unpacking the projector, make sure you have all these items:



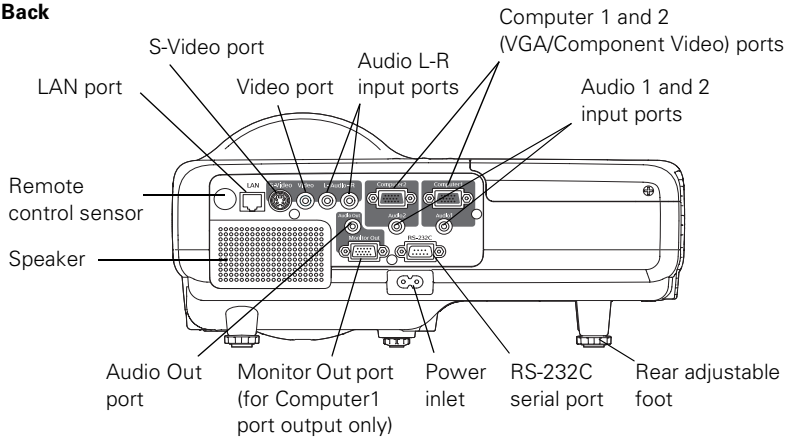
Save the protective pad attached to the lens cover and all other packaging in case you need to ship the projector. Always use the original packaging (or equivalent) when you send the projector to another location. See page 80 for transportation instructions.

Projector Parts

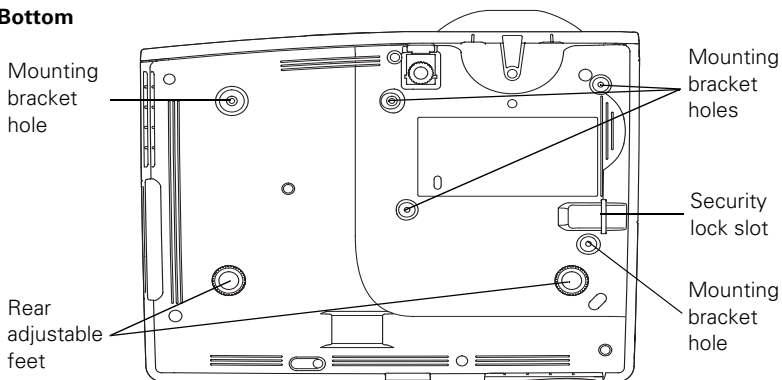
Front



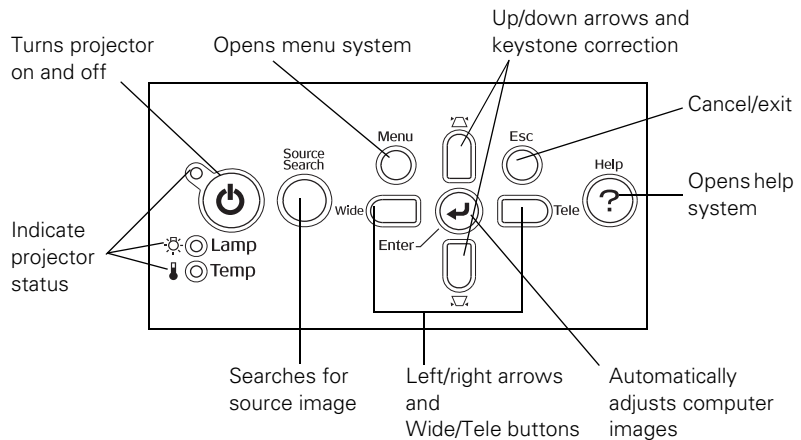
Back



Bottom



Control Panel



Additional Components

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

- To receive an S-Video signal, you need an S-Video cable. One is usually provided with your video device or you can purchase it from Epson. See page 13.
- To receive a component video signal from a VCR or other video device, you need a D-sub, 15-pin, component-to-VGA video cable, which is available for purchase from Epson. See page 13.
- Some older PowerBooks and Macintosh desktop models may need a Macintosh video adapter; see your computer dealer. Older iMac systems may need a special VGA adapter, and newer iMac, MacBook, and PowerBook systems may need a mini DVI-to-VGA adapter; see your computer dealer.
- To receive an audio signal, you need a commercially available audio cable; see your computer or electronics dealer.

Optional Accessories

To enhance your use of the projector, Epson provides the following optional accessories:

Product	Product number
Short-throw projector wall mount	ELPMB24
Replacement lamp	V13H010L42
Air filter set (includes 2 filters)	V13H134A13
Replacement remote control	1456641
Presentation remote control	V12H007T0B
Component-to-VGA video cable S-Video cable	ELPKC19 ELPSV01
Distribution amplifier	ELPDA01
Duet™ ultra portable projector screen (4:3, 16:9, and 16:10 aspect ratio)	ELPSC80
50-inch portable screen (4:3 aspect ratio)	ELPSC06
60-inch portable pop-up screen (4:3 aspect ratio)	ELPSC07
80-inch portable pop-up screen (4:3 aspect ratio)	ELPSC08
ELPDC05 high resolution document imager	V12H162020
Kensington® security lock	ELPSL01
Universal projector ceiling mount	ELPMBPJF
Advanced projector ceiling mount with precision gear	ELPMBPRG
High security projector ceiling mount	ELPMBATA
Adjustable suspended ceiling channel kit	ELPMBP01
False ceiling plate kit	ELPMBP02
Structural round ceiling plate	ELPMBP03
Adjustable extension column (pipe); 8 to 11 inches (20.3 to 27.9 cm)	ELPMBC01

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

note

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

1 *Setting Up the Projector*

This chapter tells you how to set up the projector and connect it to a computer or video source. You can connect up to four devices simultaneously: four video sources, or two computer and two video sources.

You'll find instructions for the following in this chapter:

- Positioning the projector
- Connecting to a computer
- Connecting to video sources

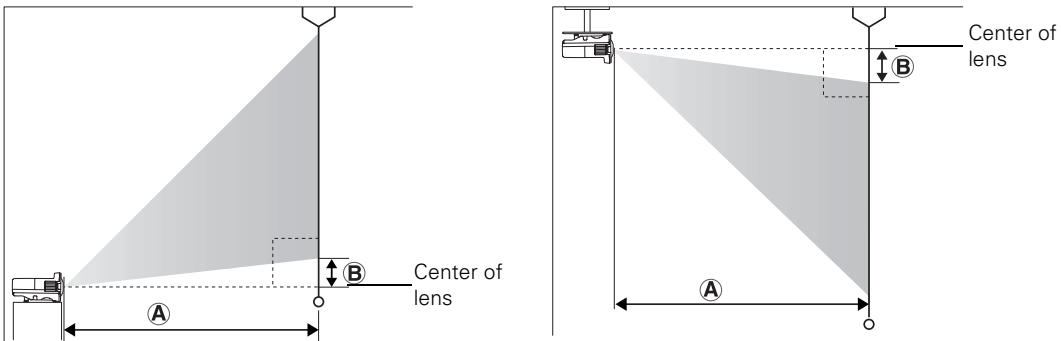
Positioning the Projector

note

You can download the *Projection Distance Calculator program* from the *Drivers & Downloads* section of Epson's website: www.epson.com/support

Before connecting the projector, you need to decide where to place it. If the projector isn't already installed in the room you're using, you can place it on a table in front of the screen. This lets you stand in the front of the room, face the audience, and control the projector.

Ideally, you should place the projector between 26 to 48 inches (66 to 122 cm) from the screen. Use the illustrations and tables below to help you determine approximately how far to place it based on the screen size you're using and the aspect ratio of the image. Image size can vary depending on how you adjust the zoom and other settings.



16:10 aspect ratio

Screen size	Projection distance (A) Wide to Tele	Offset (B)
55 inches (140 cm)	22 to 30 inches (56 to 77 cm)	3.4 inches (8.6 cm)
60 inches (152 cm)	24 to 33 inches (62 to 84 cm)	3.7 inches (9.4 cm)
70 inches (178 cm)	28 to 39 inches (72 to 99 cm)	4.4 inches (11 cm)
80 inches (203 cm)	33 to 45 inches (83 to 113 cm)	5 inches (13 cm)
90 inches (229 cm)	37 inches (94 cm)	5.6 inches (14 cm)
100 inches (254 cm)	41 inches (105 cm)	6.2 inches (16 cm)
116 inches (295 cm)	48 inches (122 cm)	7.2 inches (18 cm)

4:3 aspect ratio

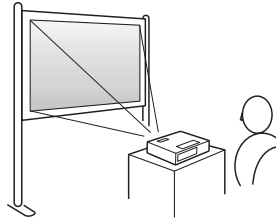
Screen size (diagonal)	Projection distance (A) Wide to Tele	Offset (B)
50 inches (127 cm)	23 to 31 inches (58 to 79 cm)	3.5 inches (9 cm)
60 inches (152 cm)	28 to 38 inches (70 to 96 cm)	4.2 inches (11 cm)
70 inches (178 cm)	32 to 44 inches (82 to 112 cm)	4.9 inches (13 cm)
80 inches (203 cm)	37 inches (94 cm)	5.6 inches (14 cm)
90 inches (229 cm)	42 inches (107 cm)	6.3 inches (16 cm)
102 inches (259 cm)	48 inches (121 cm)	7.2 inches (18 cm)



16:9 aspect ratio

Screen size	Projection distance (A) Wide to Tele	Offset (B)
60 inches (152 cm)	25 to 34 inches (63 to 87 cm)	5.5 inches (14 cm)
70 inches (178 cm)	29 to 40 inches (74 to 101 cm)	6.4 inches (16 cm)
80 inches (203 cm)	34 to 46 inches (85 to 116 cm)	7.3 inches (19 cm)
90 inches (229 cm)	38 inches (96 cm)	8.2 inches (21 cm)
100 inches (254 cm)	42 inches (108 cm)	9.1 inches (23 cm)
113 inches (287 cm)	48 inches (122 cm)	10.3 inches (26 cm)

Also keep these considerations in mind:

- If you're projecting from a table or other flat surface, make sure the surface is sturdy and level.

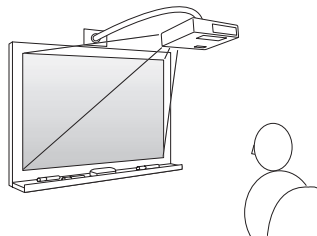


- Make sure there is plenty of space for ventilation around and under the projector. Do not set the projector next to loose papers that could block the vents on the sides of the projector.
- Make sure the projector is within 14.8 feet (4.5 m) of a grounded electrical outlet or extension cord.
- Place the projector in front of the center of the screen, facing it squarely. If the projector isn't positioned this way, the image will be "keystone" shaped ( or ) instead of rectangular.

If you're projecting from a table or other flat surface, you may need to tilt the projector up by extending the front adjustable foot, as described on page 41. This causes the image to lose its rectangular shape. You can adjust the shape using the buttons on the projector (see page 42), or using the projector's menu system (see page 53).

Whiteboard Installation

You can project onto a whiteboard (or IWB, interactive whiteboard) by mounting the projector to the wall or directly onto a compatibly equipped whiteboard.

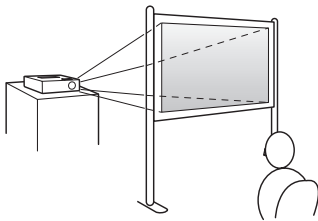


To mount the projector on the wall or attach it to a whiteboard, you'll need an optional short-throw wall mounting system. (See page 13 for ordering information.) You'll also need to select **Front/Ceiling** for the Projection option in the Extended menu. See page 62 for details.

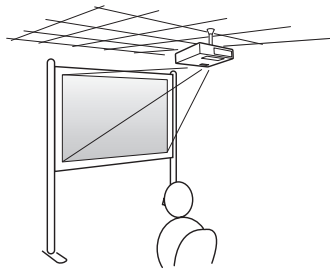
Other Installations

You can also project from behind the screen or from the ceiling, with the projector mounted upside-down:

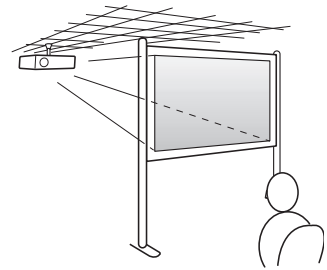
Rear projection (using a translucent screen)



Front/ceiling projection



Rear/ceiling projection (using a translucent screen)



To project from the ceiling, you'll need the optional ceiling mount. (See page 13 for ordering information.) You'll also need to select **Front/Ceiling** or **Rear/Ceiling** for the Projection option in the Extended menu. To project from the rear, select **Rear**. See page 62 for details.

Connecting to a Computer

note

If you have an iBook with an RCA video-out port, follow the instructions for connecting to a video device on page 27.

You can connect the projector to any computer that has a standard VGA or BNC monitor port, including PC notebook and laptop computers, Macintosh PowerBooks and iBooks, and hand-held devices.

Follow the instructions in this section to:

- Connect the projector to your computer with the VGA cable included with the projector.
- Connect the projector to your computer with a commercially available VGA–5BNC cable.

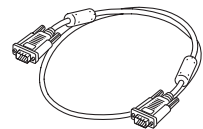
After connecting the projector to your computer, you may also want to:

- Connect a monitor to the projector so you can view your presentation close-up as well as on-screen (not necessary if you're using a laptop); see page 23.
- Connect the projector to your computer with a commercially available audio cable to play computer audio; see page 24.

Connecting with the VGA Cable

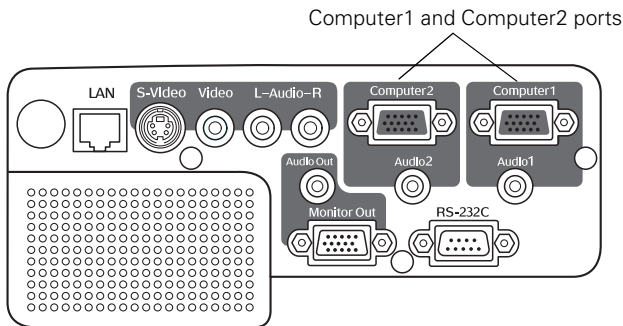
Follow these instructions to connect to your computer with the VGA cable that came with your projector. Before you start, make sure your computer and the projector are turned off.

1. If you are connecting the projector to a desktop computer, disconnect the monitor cable from your computer.
2. Locate the VGA computer cable that came with the projector.



VGA computer cable

Connect one end of the cable to the projector's **Computer1** or **Computer2** port.



3. Connect the other end of the cable to your computer's video-out or monitor port.

If you're using a PowerBook or iBook and you can't connect the cable, you may need to use an optional Macintosh video adapter; see your computer dealer.

4. If you connected the computer to the **Computer1** port and you want to view the display simultaneously on your computer monitor and the projector screen, see "Connecting an External Monitor" on page 23.
5. To play audio from your computer through the projector speaker, see "Playing Sound Through the Projector" on page 24.
6. Tighten the screws on the connectors.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 38.

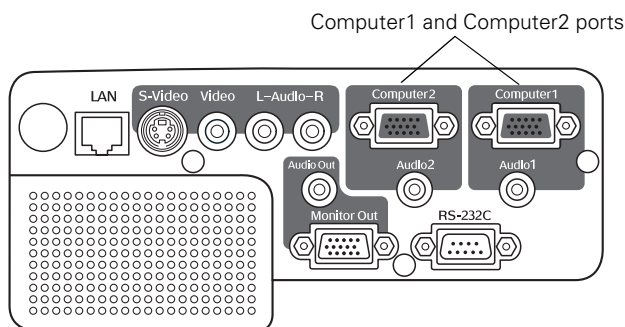


VGA-5BNC cable

Connecting with a VGA-5BNC Cable

If your computer provides video output through BNC connectors, follow these instructions to connect the projector to your computer with an optional VGA-5BNC cable. Before you start, make sure your computer and the projector are turned off.

1. Disconnect the monitor cable from your computer.
2. Connect the cable's VGA connector to the projector's **Computer1** or **Computer2** port.



3. Connect the BNC connectors to your computer's BNC ports.
4. If you want to view the display simultaneously on your computer monitor and the projector screen, see "Connecting an External Monitor" on page 23.
5. To play audio from your computer through the projector speaker, see "Playing Sound Through the Projector" on page 24.
6. Tighten the screws on the VGA connector.

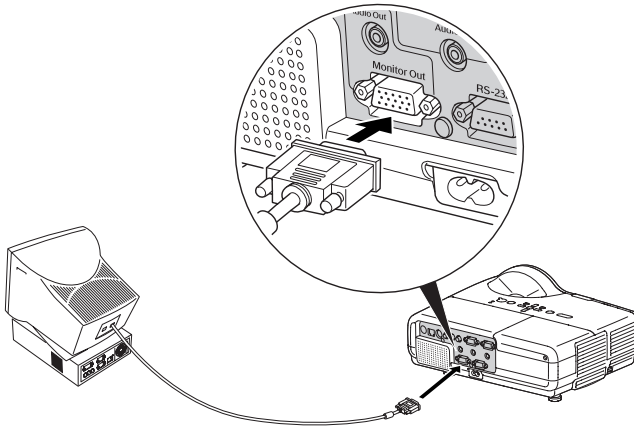
If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 38.

Connecting an External Monitor

If you want to see your presentation close-up as well as on the projection screen, you can connect an external monitor to the projector. This lets you view images on your computer monitor while the projector is in standby mode (plugged in but not turned on) and check your presentation or switch between picture sources even if you've pressed the **A/V Mute** button on the remote control to turn off projection on the screen. (Simultaneous display is possible only when the computer is connected to the projector's **Computer1** port.)

Make sure the projector and computer are off. Then connect the monitor's cable to the projector's **Monitor Out** port, as shown:



If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

note

Some LCD monitors may not be able to display the image correctly. If you have trouble displaying the image, connect a multiscan monitor. If you're projecting computer images, make sure the computer's refresh rate is set to 60 Hz or greater. See your computer and/or monitor documentation for instructions.

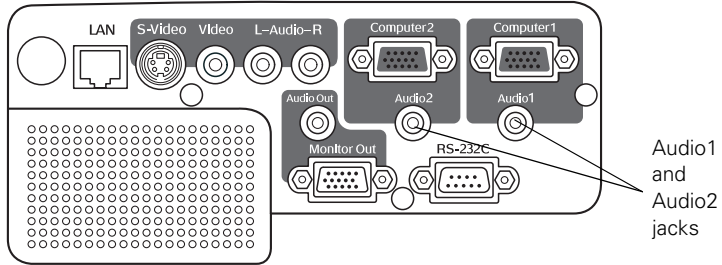
Playing Sound Through the Projector





3.5 mm stereo
mini-jack audio cable

You can connect a commercially available 3.5 mm stereo mini-jack audio cable to take advantage of the projector's built-in speaker. You can obtain the audio cable from a computer or electronics dealer.

1. Connect one end of the 3.5 mm stereo mini-jack audio cable to the corresponding **Audio1** or **Audio2** jack on the projector.



2. Connect the other end of the audio cable to your laptop's  headphone jack or  audio-out jack, or your desktop's speaker or audio-out port.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

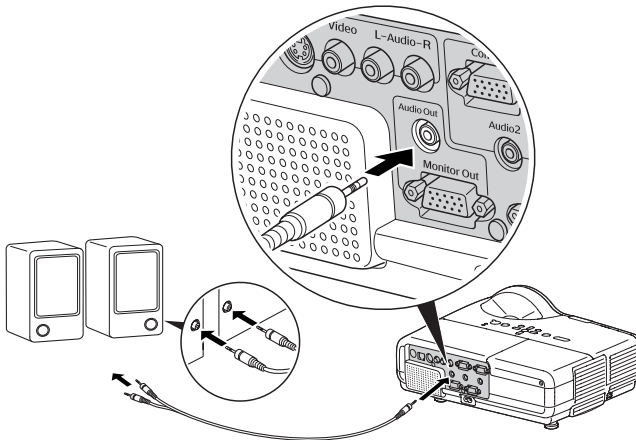
Connecting External Speakers

You can output sound to external speakers with built-in amplifiers. When you play sound through external speakers, the projector's built-in speaker is disabled.

1. Locate the appropriate cable to connect your speakers.

Depending on your speakers, you may be able to use a commercially available audio cable with a stereo mini-jack connector on one end and pin jacks on the other end. For some speakers, you may have to purchase a special cable or use an adapter.

2. Connect the stereo mini-jack end of the audio cable to the **Audio Out** port on the projector.



3. Connect the other end of the cable to your speakers.

Connecting to Video Sources

You can connect a DVD player, VCR, camcorder, digital camera, gaming console, or any other compatible video source to your projector. You can connect up to four video devices at one time.

note

The projector does not support TV antenna cable F connectors.

The projector supports HDTV, SDTV, NTSC, PAL, and SECAM, and automatically detects the video format. It can receive composite video, S-Video, RGB video, and component video. The type of cable you need depends on the video source:

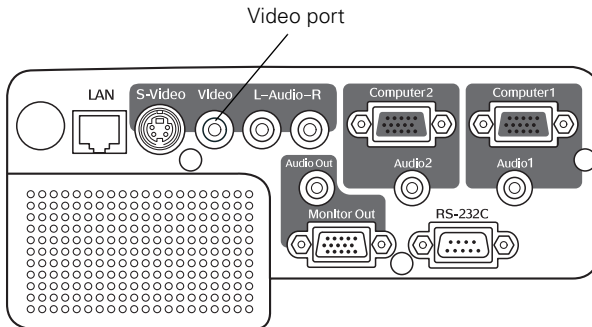
- For composite video, use a commercially available RCA A/V cable. See page 27.
- For S-Video, use the S-Video cable supplied with your video device or order one from Epson. See page 28.
- For RGB video, use the VGA computer cable included with the projector. See page 29.
- For component video, you'll need the optional Epson component-to-VGA video cable. See page 30.

After connecting your video device to the projector, you may want to connect an audio cable to play sound from your video equipment through the projector's built-in speaker or external speakers. See page 31 for instructions.

Connecting a Composite Video Source

If you're connecting a composite video device, use a commercially available RCA A/V cable. Before starting, make sure the projector and your DVD player or other video source are turned off.

1. Connect the yellow RCA plug on one end of the cable to the projector's yellow Video port.



2. Connect the yellow plug on the other end of the cable to the video-out port on your video source.
3. To play sound through the projector, follow the instructions beginning on page 31.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 38.

note

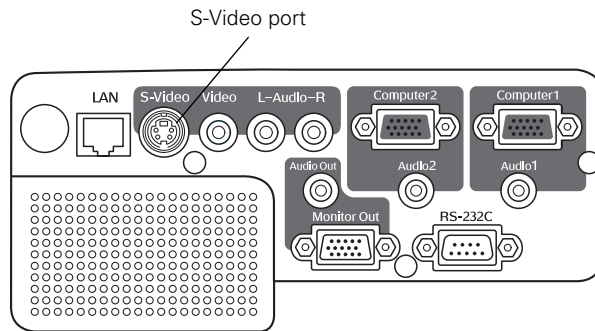
Component video provides the highest quality video image. See page 30 for details.

Connecting an S-Video Source

If your video source has an S-Video jack, you can use it to project a higher quality video image than composite video. You'll need an S-Video cable, which is usually provided with your video source, or you can purchase one from Epson (part number ELPSV01). See page 13 for ordering information.

Before starting, make sure the projector and your DVD player or other video source are turned off.

1. Insert one end of the S-Video cable into the projector's **S-Video** port and the other end into the S-Video output port of your video source.



2. To play sound through the projector, follow the instructions beginning on page 31.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

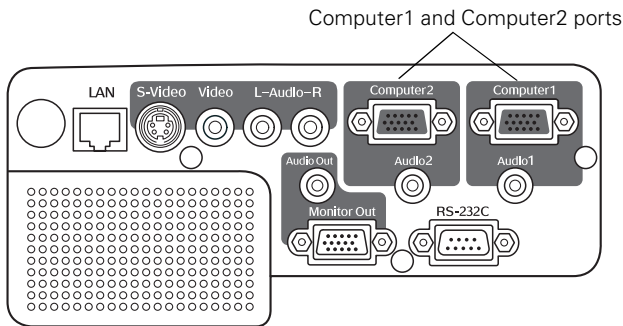
If more than one device is connected to the projector, select the correct source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 38.

Connecting an RGB Video Source

Follow these instructions to connect the projector to a video player or satellite receiver that has an RGB video output port using the VGA computer cable that came with the projector.

Before starting, make sure the projector and your DVD player or other video source are turned off.

1. Connect one end of the VGA computer cable to the **Computer1** or **Computer2** port on the projector.

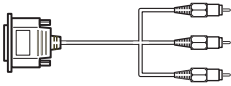


2. Connect the other end to the video port on your player.
3. To play sound through the projector, follow the instructions beginning on page 31.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

If more than one device is connected to the projector, select **Computer 1** or **Computer 2** as the source after projection starts by pressing the **Source Search** button on the projector or remote control. See page 38.

Connecting a Component Video Source

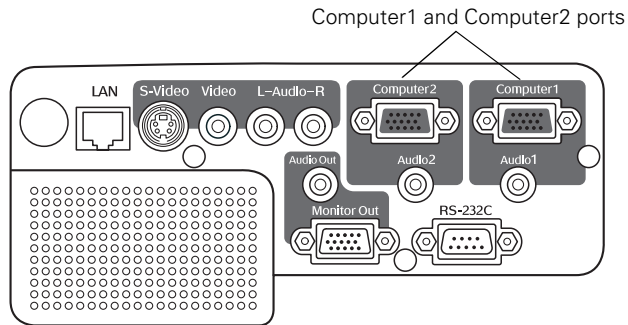


Component-to-VGA video cable

If your video source has component video connectors, you can use them to project a higher quality video image than composite or S-Video. You'll need a component-to-VGA video cable, which can be purchased from Epson (part number ELPKC19). See page 13 for ordering information.

Before starting, make sure the projector and your DVD player or other video device are turned off.

1. Connect the 15-pin VGA connector end of the component-to-VGA video cable to the projector's **Computer1** or **Computer2** port.



2. Insert the three component ends of the component-to-VGA video cable into the color-coded video output ports on your video source, usually labelled **Y**, **Pb**, **Pr** or **Y**, **Cb**, **Cr**.
3. To play sound through the projector, follow the instructions beginning on page 31.

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

If more than one device is connected to your projector, select **Computer1** or **Computer2** as the source by pressing the **Source Search** button on the projector or the remote control. See page 38.

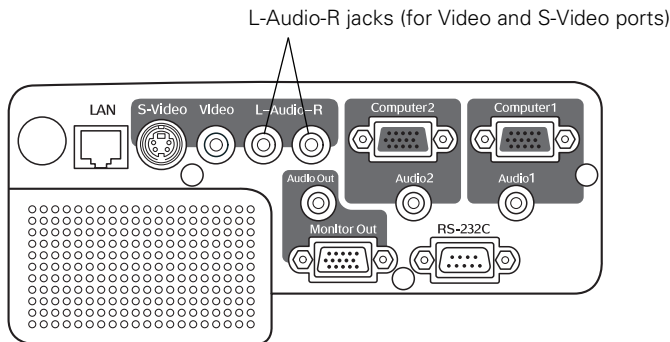
Playing Sound Through the Projector

The projector has a built-in speaker with a maximum output of 10 W. You can play sound from your video equipment through the projector's speaker if your video device has an audio output port.

For RCA-Type Audio Output Ports

Most video devices have an RCA-type audio output port. In this case, use a commercially available RCA-type audio cable to connect the projector to your video source:

1. Connect one end of the RCA audio cable to the L-Audio-R jacks on the projector.

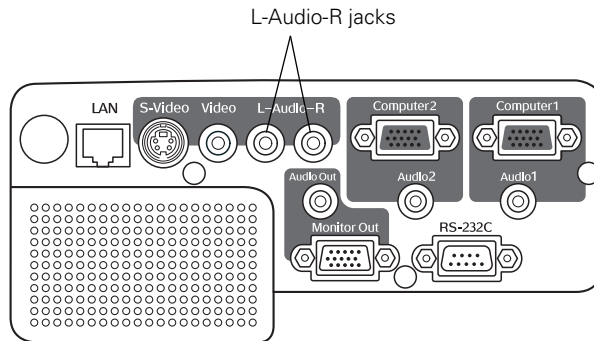


2. Connect the red and white plugs on the other end of the RCA audio cable to the corresponding color-coded audio output port on your video source.

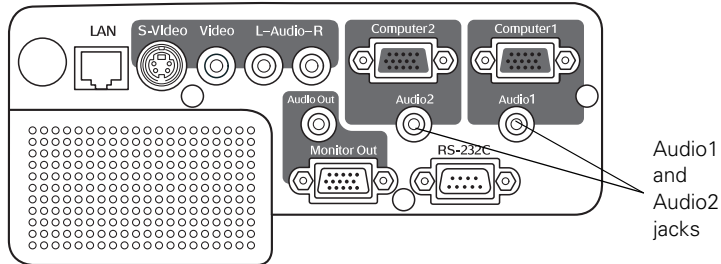
If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

For Stereo Mini-Jack Audio Output Ports

Some video devices, especially camcorders, may have a stereo mini-jack audio output port. To connect to the L-Audio-R input jacks when using the S-Video or Video port, use a commercially available stereo mini-jack audio adapter cable (3.5-mm stereo miniplug to two male RCA plugs) to connect to the projector.



If your video device is connected to the **Computer1** or **Computer2** port, you can connect a commercially available 3.5 mm stereo mini-jack audio cable to connect to the projector's **Audio1** or **Audio2** jack.



If you don't need to make any other connections, you can plug in your projector and turn it on. See page 36 for instructions.

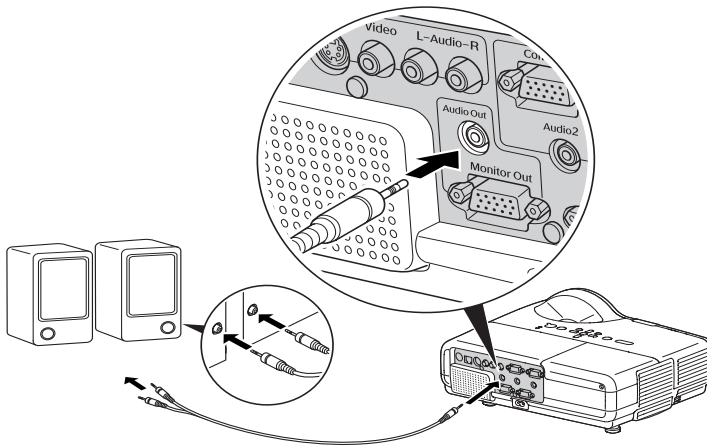
Connecting External Speakers

You can output sound to external speakers with built-in amplifiers. When you play sound through external speakers, the projector's built-in speaker is disabled.

1. First connect your video and audio input cables as necessary.
2. Locate the appropriate cable to connect your external speakers.

Depending on your speakers, you may be able to use a commercially available audio cable with a stereo mini-jack connector on one end and pin jacks on the other end. For some speakers, you may have to purchase a special cable or use an adapter.

3. Connect the stereo mini-jack end of the audio cable to the Audio Out port on the projector.



4. Connect the other end of the cable to your speakers.

The projector's internal speaker is disabled while sound is output to external speakers, but you can use the remote control to adjust the volume.

2 *Projecting*

Once you've set up the projector, you're ready to turn it on, adjust the image, and give your presentation.

Although you can operate the projector without it, the remote control lets you use additional features. See Chapter 3 for instructions on using the remote.

This chapter covers the following:

- Turning on the projector and other equipment
- Adjusting the image
- Adjusting the volume
- Shutting down the projector

Turning On Your Equipment

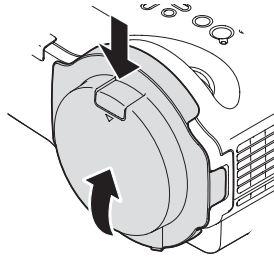
Make sure your projector and other equipment are set up and connected correctly, as described in Chapter 1. Then turn on your projector, as described below.

If you turn on your connected computer or video equipment before starting the projector, the projector automatically detects and displays the image source. If you turn on the projector first, or have multiple pieces of connected equipment, you may have to select the image source manually. See page 38.

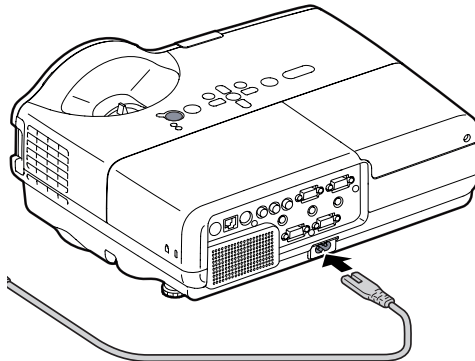
Turning On the Projector


Follow these steps to plug in and turn on the projector:

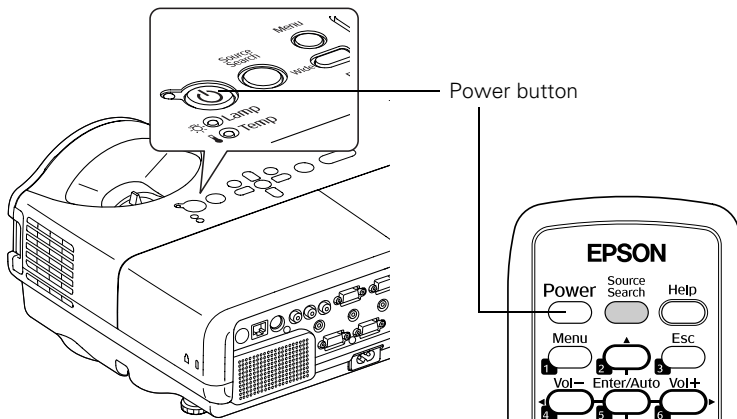
1. Remove the lens cover.





2. Connect one end of the power cord to the projector's power inlet, then connect the other end to an electrical outlet. The **⏻ Power** light on top of the projector turns orange, indicating that the projector is receiving power but is not yet turned on.



3. Turn on your computer or video source if you have not already.
4. Press the  **Power** button on the projector or on the remote control to turn it on.



The projector beeps and the  **Power** light flashes green as the projector warms up. The projector lamp comes on in about 5 seconds and the  **Power** light stays green.

- If you're using a computer, you should see your computer display projected after a moment or two. If not, you need to select the image source. See page 38.

(With Windows, if you see a message saying that it has found a plug-and-play monitor, click **Cancel**.)

- If you're projecting a video, you may need to press the **Source Search** button on the projector or remote control to switch to your video source. Then press the **Play** button on your DVD player or other device.
- If you are prompted to enter a password, see page 70.

To focus and adjust the image, see page 40. If a projected image fails to appear, see "What To Do If You See a Blank Screen" on page 38.

When you're done, shut down the projector as described on page 44.

note

If you are using the remote control for the first time, be sure to insert the batteries as described on the Quick Setup poster.

warning

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

note

The name of the selected image source appears briefly in the upper right corner of the screen.


Selecting the Image Source

Selecting the image source lets you switch between images input from different pieces of equipment connected to the projector (such as a computer and DVD player). If you don't see the image you want, press the **Source Search** button on the remote control or projector until the correct device image is projected. If a projected image fails to appear, see the next section for help.


Once you see your image, turn to page 40 for instructions on focusing and making other image adjustments.


What To Do If You See a Blank Screen

If you see a blank screen or a blue screen with the message **No Signal** after turning on your computer or video source, try the following:

- Make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the  **Power** light is green and not flashing and the lens cover is removed.
- Make sure you've selected the correct image source; see the previous section. Allow a few seconds for the projector to sync up after pressing the button.
- Check the **Signal** menu to make sure the correct input source is selected. See page 58.

If you're using a PC laptop:

- Hold down the **Fn** key and press the function key that lets you display on an external monitor. It may have an icon such as  or it may be labelled **CRT/LCD**. Allow a few seconds for the projector to sync up after pressing it. Check your laptop's manual or online help for details.

On most systems, the  or **CRT/LCD** key lets you toggle between the LCD screen and the projector, or display on both at the same time.

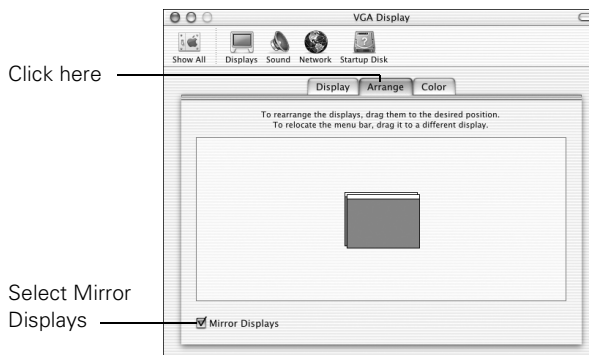
- If you're projecting from a laptop, and you don't see the same image on the projection screen and computer screen, check your monitor settings to make sure both the LCD screen and the external monitor port are enabled.

From the Control Panel, open the **Display** utility. Click the **Settings** tab, then click **Advanced**. The method for adjusting the settings varies by brand; you may need to click a **Monitor** tab, then make sure the external Monitor port is set as your primary display and/or enabled. See your computer's documentation or online help for details.

If you're using a Macintosh laptop with Mac OS® X:

You may need to set up your system to display on the projector screen as well as the LCD screen. Follow these steps:

1. From the Apple menu, select **System Preferences**, then click **Display** or **Displays**.
2. Select **VGA Display** or **Color LCD**, click **Arrange** or **Arrangement**, and make sure **Mirror Displays** is checked.



Adjusting the Image

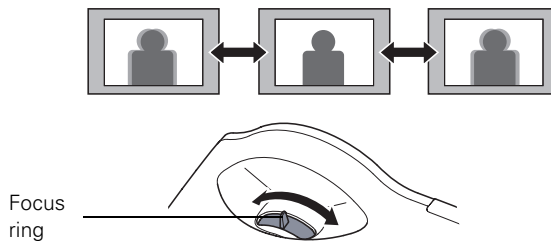
Once you see your image, you'll need to make certain adjustments:

- To focus or zoom your image, see below.
- If the image is too high or too low, you can reposition it. See page 41.
- If the image isn't square, see page 42.
- To adjust image brightness, see page 42.
- If a computer image displays incorrectly, see page 43.

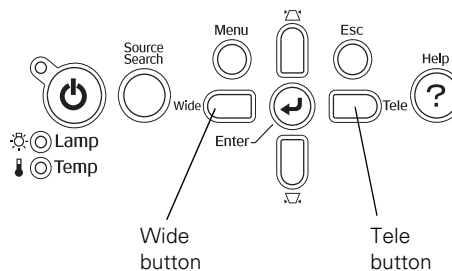
You can make many other adjustments to the image—such as changing the brightness, contrast, and aspect ratio—using the projector's menu system. See Chapter 4 for more information.

Focusing and Zooming Your Image

Rotate the focus ring to sharpen the image.



Press the **Wide** button on the projector to enlarge the image, or the **Tele** button to reduce it.

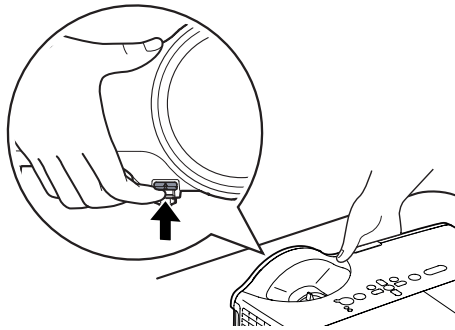


You can also change the image size by moving the projector closer to or farther away from the screen. You can use the **E-Zoom** buttons on the remote control to zoom in on a portion of the image. See page 49 for instructions.

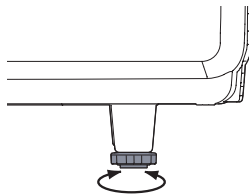
Adjusting the Height of Your Image

If you're projecting from a table or other flat surface and the image is too high or low, you can correct it by adjusting the projector's front and/or rear feet.

1. To adjust the front foot, stand behind the projector. Press up on the blue foot release lever and lift the front of the projector to extend the front adjustable foot.









2. Once the image is positioned where you want, release the lever to lock the foot in position.
3. To adjust the rear feet, rotate the feet to extend or retract them to the desired height.

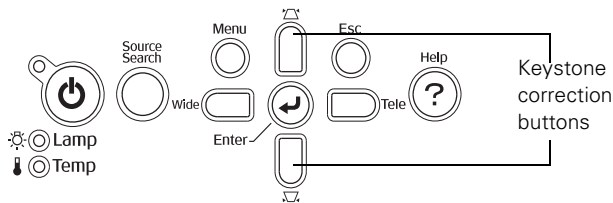


If the projected image isn't rectangular, follow the instructions in the next section.

Adjusting the Image Shape

If the projector is tilted up or down, the images that are displayed will be distorted. To correct the distortion or “keystone” shape, do one or more of the following:

- If your image looks like  or , you've placed the projector off to one side of the screen, at an angle. Move it directly in front of the center of the screen, facing the screen squarely.
- If your image looks like  or , you need to adjust the keystone correction value. Press the  or  buttons on the projector to correct the shape of the image. After correction, your image will be slightly smaller.



You can also make keystone adjustments using the projector's Settings menu. See page 60.

Adjusting the Brightness

The brightness of an image depends on the source you are projecting and the amount of light in the room. If the image is too bright or not bright enough, here are two ways you can adjust it:

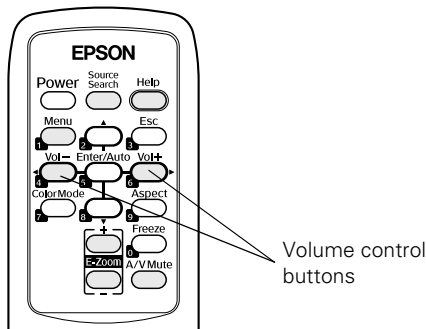
- Change the **Brightness** setting in the Image menu. See page 57.
- Select **Low** or **High** for the **Brightness Control** option in the Settings menu. (See page 61.) Low brightness mode extends the life of the lamp and decreases the fan noise.

Correcting Computer Images

If you've connected a computer and the image doesn't look right, or it doesn't fit properly on the screen, press the **Enter** button on the projector or the **Enter/Auto** button on the remote control. This automatically resets the projector's tracking, sync, resolution, and position settings. You must be projecting a computer image for this button to have any effect. Additionally, if the **Auto Setup** option in the **Signal** menu is set to **Off**, the **Auto** function will not work. See page 59.

Adjusting the Volume

You can use the **Vol-** and **Vol+** buttons on the remote control to increase or decrease the volume for the projector's built-in speaker. A volume gauge appears on the screen while the volume is being adjusted.




note

You can also adjust the volume using the projector's Settings menu. See page 60 for details.


You must adjust the volume separately for each input source.

note

When the projector has not received any input signals for 30 minutes, it automatically turns off the projector lamp and enters “sleep mode.” This conserves electricity, cools the projector, and extends the life of the lamp. If you are done using the projector, unplug the power cord. If you want to start projecting again, press the  Power button. You can turn sleep mode on or off through the Extended menu. See page 63.


Turn off this product when not in use to prolong the life of the projector.

caution

To avoid damaging the projector or lamp, never unplug the power cord when the  Power light is green or flashing orange.




Shutting Down the Projector

When you’ve finished using the projector, follow the recommended procedure to shut it down.

1. If you’re using a computer, shut it down first; otherwise you may not be able to see your computer’s display to shut it down properly.
2. To turn off the projector, press the  Power button on the projector or remote control.

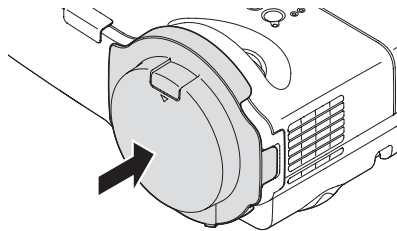
You see this confirmation message:
(If you don’t want to turn it off, press any other button or wait a few seconds until it disappears.)



3. Press the  Power button again. The projector beeps twice, the lamp is turned off, and the  Power light turns orange. (To turn the projector on again, press the  Power button.)

With Epson’s exclusive Instant Off® technology there’s no cool-down period, so you can pack up and go immediately after turning off the projector.

4. Press up on the blue foot release lever and lower the projector to retract the front adjustable foot.
5. Attach the lens cover.



6. Unplug the power cord.
7. Turn off and disconnect any equipment plugged into the projector.
8. If you won’t be using the projector for awhile, attach the lens cover’s protective pad. Then store it in a protective case.

3

Using the Remote Control

The remote control lets you access your projector's features from anywhere in the room—up to 20 feet (6 m) away. For example, you can turn the projector on and off, freeze the presentation, zoom in on a portion of your image, and access the menu system. (The projector menus let you adjust many projector settings; see Chapter 4.)

When using the remote control, stand within 20 feet (6 m) of the projector. Point the remote control either at the front or back of the projector or at the screen (the projector's front sensor can detect signals bounced off the screen). Press the button for the function you want to use.

This chapter covers the following information:

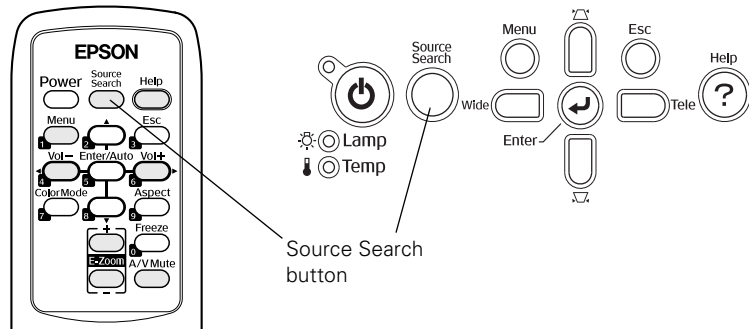
- Controlling the picture and sound
- Replacing the remote control batteries

Controlling the Picture and Sound

You can use the remote control to select your source, adjust the colors, temporarily turn off the picture and sound, freeze the action, or zoom in on the picture. Make sure you have set up your projector and connected any equipment as described in Chapter 1.

Switching Between Picture Sources

If you've connected your projector to more than one computer and/or video source, you can use the **Source Search** button on the projector or remote control to switch between the different sources.



After you select a source, the screen goes dark for a moment before the image appears. The name of the selected source (such as **Computer1** or **S-Video**) appears briefly on the screen.

Adjusting the Color Mode

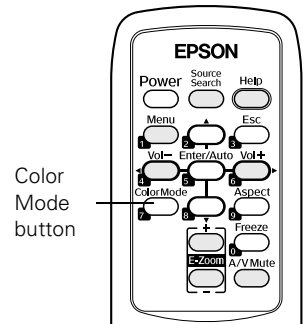
You may want to adjust the color mode to select a different setting that is appropriate for the image you're projecting and the environment in which you're projecting it. Press the **Color Mode** button on the remote control.

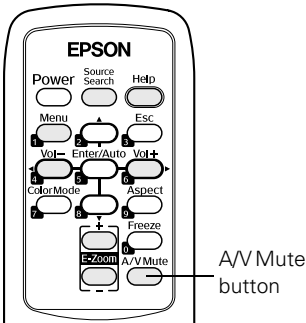
If you're projecting computer or RGB video images, the default color mode is **Presentation**, which is appropriate for full-color presentations in bright rooms.

The following table lists the color modes available.

Color mode	Description
Dynamic	Use for projecting the brightest picture.
Presentation	Use when you're projecting a full-color presentation in a bright room.
Theatre	Use when projecting movies in a dark room.
Photo	Best for projecting still images with vivid color in a bright room (computer input only).
Sports	Best for projecting TV programs in a bright room (component, composite, or S-Video input only).
sRGB	Use when projecting computer images conforming to the sRGB color standard.
Blackboard	Choose this fixed color mode when you need to project against a green blackboard.
Whiteboard	Choose this fixed color mode when you need to project against a whiteboard.

You can also use the projector menu system to change the color mode in the Image menu (see page 57).





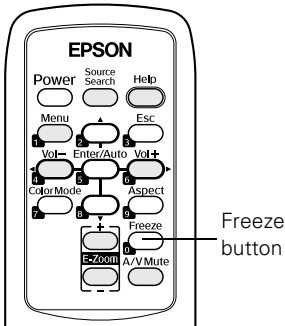
Turning Off the Picture and Sound

Press the **A/V Mute** button on the remote control to turn off the image and sound and darken your screen. This is useful if you want to temporarily re-direct your audience's attention without the distraction of a bright screen.

To turn off the picture and sound, press the **A/V Mute** button. The screen goes dark.

To turn the image and sound back on, press the button again.

You can create an image, such as a company logo or a picture, to display on the screen whenever you press the **A/V Mute** button. See page 67 for more information.



Stopping Action

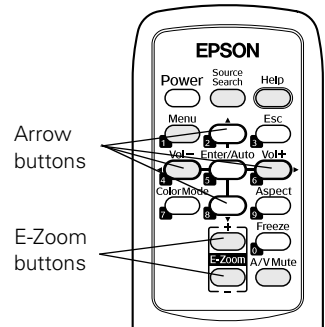
Press the **Freeze** button to stop the action in your video or computer image and keep the current image on the screen. The sound will continue, however. Also, because the source continues to transmit signals, you won't resume the action from the point you paused it.

To restart the action, press the **Freeze** button again.

Zooming Your Image

Follow these steps to zoom in on a portion of the image:

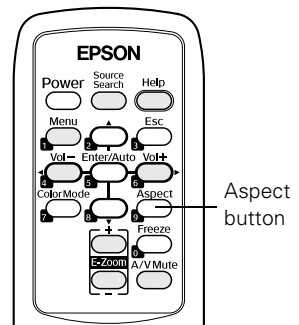
1. Press the E-Zoom + button on the remote control.
You see a crosshair indicating the center of the zoom-in area.
2. Use the four “arrow” buttons on the remote control to position the crosshair in the area you want to enlarge.
3. Continue pressing the E-Zoom + button to enlarge the selected area up to 4 times.
4. While the image is enlarged, you can:
 - Use the arrow buttons to pan about.
 - Press the E-Zoom – button to zoom out.
5. When you’re done, press the ESC button to return to the original size.



Changing the Image's Aspect Ratio

You can use the Aspect button on the remote control to change the aspect (width to height) ratio, depending on the input signal.

- **Auto** (video images only)
Automatically sets the aspect ratio according to the input signal. 4:3 ratio images display at 4:3, squeeze-recorded signals display at 16:9, and letterbox signals display at Zoom ratio (described below).
- **Normal**
Displays images using the full projection area and maintains the aspect ratio of the image. 4:3 ratio images project with black bands on the sides, 16:9 images project with black bands on the top and bottom, and 16:10 images use the entire projection area.
- **16:9**
Converts the aspect ratio of the image to 16:9. 4:3 ratio images are elongated horizontally to fit.



- **Zoom**
Displays images using the full width of the projection area and maintains the aspect ratio of the image. 4:3 ratio images are cut off on the top and bottom.
- **Full**
Displays images using the full width of the projection area, but does not retain the aspect ratio. 4:3 ratio images are elongated horizontally.
- **Through**
Displays images as is (aspect ratio and resolution are maintained). Black bands appear if the resolution is 1280 × 800 or less; images are cut off if the resolution is over 1280 × 800.

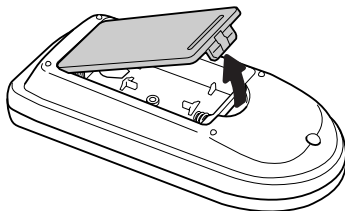
Press the **Aspect** button repeatedly to cycle through the available options.

You can also change the aspect ratio using the projector's Signal menu. See page 58 for details.

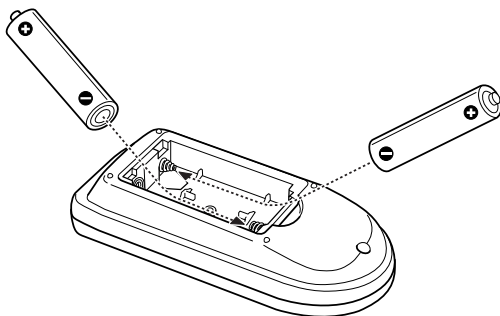
Replacing the Batteries

The remote control uses two AA alkaline batteries. Follow these steps when you need to replace them:

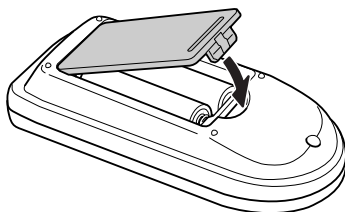
1. Press in the tab to remove the battery cover.




2. Remove the old batteries, then insert the new ones as shown.



3. Replace the battery cover. (It should click into place.)



note

The remote control automatically shuts off when it detects a button being pressed more than 30 seconds. This conserves battery life. It can be helpful, for example, when the remote is in a carrying case and the  Power button is accidentally pushed.

caution

When replacing batteries, take the following precautions:

- *Replace the batteries as soon as they run out. If a battery leaks, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash them immediately.*
 - *Do not expose batteries to heat or flame.*
 - *Dispose of used batteries according to local regulations.*
 - *Remove the batteries if you won't be using the remote control for a long period of time.*
-

4

Fine-tuning the Projector

You can use the **Menu** button on the projector or remote control to access on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

- Using the menu system
- Adjusting image colors and clarity
- Adjusting the input signal
- Customizing projector features
- Selecting projector setup options
- Selecting projector network settings
- Viewing lamp usage and other information
- Using the projector's security features
- Restoring the default settings

Using the Projector's Menu System

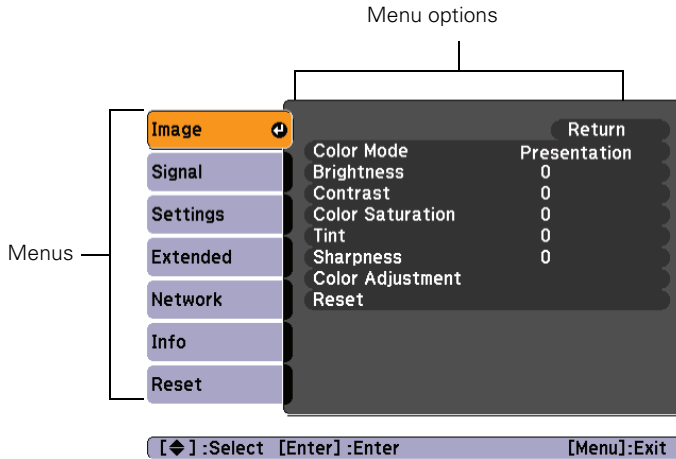
The projector menus let you adjust and customize the projector features:

- The **Image** menu lets you modify the colors of the projected image and fine-tune brightness, contrast, and sharpness. See page 56.
- The **Signal** menu lets you make adjustments to the input signal. You can select your input source, change the image position and aspect ratio, and adjust tracking and sync for computer images. See page 58.
- The **Settings** menu lets you customize the way you use the projector. It allows you to adjust the volume and keystone correction, set lamp brightness to high or low, control use of the remote control receivers, project a test pattern for adjustments, and disable buttons on the projector while you are projecting. See page 60.
- The **Extended** menu lets you customize the way you set up the projector. Among the options, you can select the menu language, set rear or ceiling projection, and turn on **Sleep Mode**, **High Altitude Mode**, and other projector features. See page 62 and page 66.
- The **Network** menu lets you select your network settings and optional passwords for monitoring the projector over a network or over the web. See page 64.
- The **Info** menu provides information about lamp status, and computer or video settings. See page 64.
- The **Reset** menu lets you restore the projector's factory default settings. See page 72.

Changing Menu Settings

Use the buttons on the remote control or on the projector to access the menus and change settings. Follow these steps:

1. Press the **Menu** button on the remote control or projector to display the menu screen:

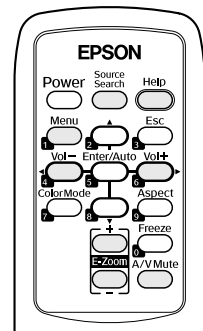


The menus are listed on the left, and the options available for the highlighted menu are shown on the right.

2. Use the up and down arrow buttons on the projector or remote control to scroll through the menu list. When you've highlighted the desired menu, press the **Enter** button on the projector or the remote control to select it.

The highlight moves to the first option for that menu.

3. Use the up and down arrow buttons on the projector or remote control to scroll through the list of options. (The options available depend on which source is selected.)
4. After highlighting the option you want to adjust, use the left or right arrow buttons on the projector or the remote control to change the setting. In some cases, you may have to press the **Enter** button to see a sub-screen for changing the setting.





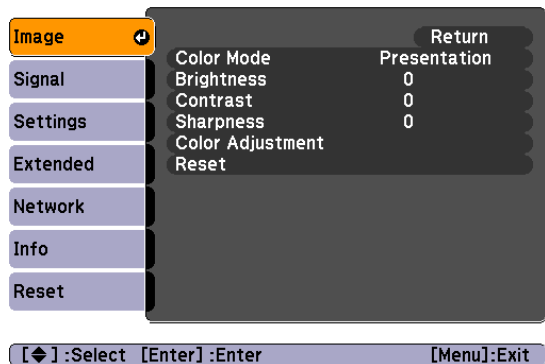
Press the left or right arrow buttons on the projector or the remote control to adjust a slider bar. To select from two or more settings, use the up or down arrow buttons on the projector or the remote control to highlight the desired setting, then press **Enter**.

5. Press the **Esc** button to return to the previous menu or to close the menu system if you are at the main menu. Your changes are saved automatically, however you may be prompted to restart the projector to activate some settings.
6. Press the **Menu** button to exit the menu system.

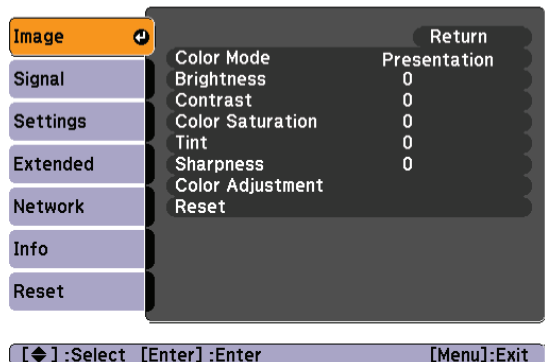
Adjusting Colors and Clarity

The Image menu lets you make adjustments to the colors of the projected image and fine-tune brightness, contrast, and sharpness. The options available depend on which image source is selected:

Computer (analog-RGB)
and RGB video



Component,
composite, and S-Video



Follow these steps to adjust the appearance of your image:

1. Press the **Menu** button. You see the main menu.
2. Press **Enter** to select the Image menu.
3. Use the up and down arrow buttons and press **Enter** to set the following options:

■ **Color Mode**

Corrects the vividness of image color. You can select from the following settings, and save a different one for each computer and/or video source:

Dynamic: Use for projecting the brightest picture.

Presentation: For color presentations in a bright room.

Theatre: For optimizing movie images with natural color in a dark room (the default for video or S-Video display).

Photo: For projecting still images with vivid color in a bright room (Computer input only).

Sports: For projecting TV programs in a bright room (component, composite, and S-Video input only).

sRGB: For standard sRGB computer displays (the default when projecting from a computer with analog video).

Blackboard: Fixed color mode for projecting against a green blackboard.

Whiteboard: Choose this fixed color mode when you need to project against a whiteboard in a bright room.

■ **Brightness**

Lightens or darkens the overall image.

■ **Contrast**

Adjusts the difference between light and dark areas.

■ **Color Saturation** (component, composite, and S-Video)

Adjusts the depth or intensity of the image colors.

note

You can also select High or Low brightness mode in the Settings menu. See page 61.

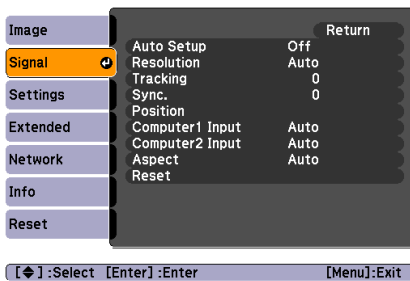
- Tint (component, composite, and S-Video)
Adjusts the balance of green to magenta in the image.
- Sharpness
Sharpens or softens the image.
- Color Adjustment
Adjusts the color temperature and intensity of red, green, and blue.

4. When the image is set correctly, press **Esc** or **Menu**.

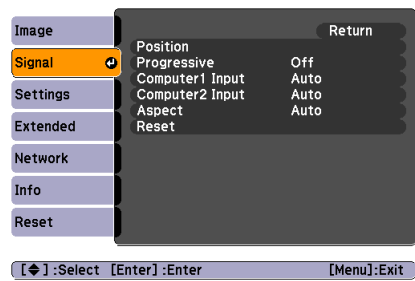
Adjusting the Input Signal

Although the projector normally detects and optimizes the input signal automatically, you can use the Signal menu to manually select it. You can also change the position of the projected image, correct tracking and sync, and change the aspect ratio to widescreen format.

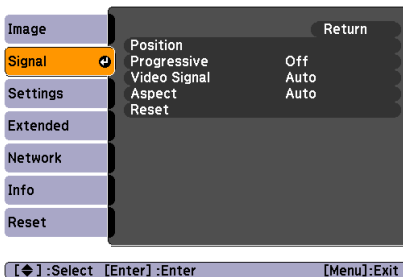
1. Press the **Menu** button. You see the Image menu.
2. Select the **Signal** menu. You see one of the following screens:



Computer (analog-RGB) and RGB video



Component video



Composite video and S-Video

3. Press **Enter**. Then use the up and down arrow buttons and the **Enter** button to set the following options:
 - **Auto Setup** (computer images)
Leave this setting **On** to automatically optimize the computer image. Turn it off if you want to save adjustments you have made to the video settings.
 - **Resolution** (computer images)
Set to **Auto** to have the projector automatically identify the resolution of the input signal. If necessary, select **Wide** (for widescreen images) or **Normal** (for 4:3 ratio images).
 - **Tracking** (computer images)
Removes unwanted vertical lines from a computer image by matching the projector's internal clock to various computer signals. See page 88 for more information.
 - **Sync** (computer images)
Corrects fuzziness or screen flicker by synchronizing the projector with the tracking signal sent from the computer. See page 88 for more information.
 - **Position**
Use the arrow buttons to move the image on the screen left, right, up, or down.
 - **Progressive** (video images)
Leave this setting **On** when viewing S-Video or composite video so that interlaced-to-progressive conversion is carried out (best for fast-moving pictures). If you notice flickering while viewing still images, or you are using a component with a 480i signal, switch this setting to **Off**.
 - **Computer Input** (1 or 2)
Selects the signal from equipment connected to the **Computer1** or **Computer2** ports. If your image colors look wrong, try changing this setting from **Auto** to one of the following: **RGB** for computer or RGB video sources, or **Component** for component video sources.

note

*If you have repositioned the image but then change your mind, you can press the **Enter/Auto** button on the remote control to restore the default settings.*

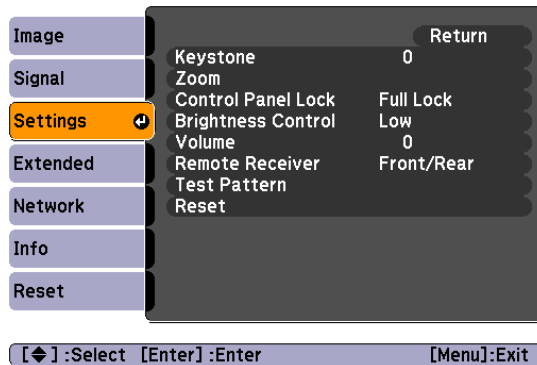
- **Video Signal** (composite and S-Video)
Leave this setting at **Auto** unless you are using a 60-Hz PAL system (select **PAL60**).
- **Aspect**
Sets the image's aspect ratio (ratio of width to height). Select **Auto**, **Normal**, **16:9**, **Full**, **Zoom**, or **Through**; see page 49 for details.

4. When you're finished, press **Esc** or **Menu**.

Customizing Projector Features



The Settings menu lets you customize the way you use the projector, from adjusting lamp brightness and speaker volume to applying security controls.

1. Press the **Menu** button.
2. Select the **Settings** menu.



3. Press **Enter**. Then use the up and down arrow buttons and the **Enter** button to set the following options:
 - **Keystone**
Adjusts a distorted image from a trapezoid shape to rectangular.
 - **Zoom**
Adjusts the image size from **Wide** (larger) to **Tele** (smaller).

■ **Control Panel Lock**

Disables all projector buttons (**Full Lock**) or all the buttons except the  **Power** button (**Partial Lock**). You can still operate the projector from the remote control. Changes to this setting take effect after you restart the projector. (After you turn off the projector, wait for the  **Power** light to turn a steady orange before turning it on again.)

■ **Brightness Control**

Select **Low** lamp brightness when the projection is too bright for the room. The **Low** setting also reduces electricity consumption and fan noise. Select **High** to project the maximum brightness. (Also check the **Brightness** setting in the **Image** menu; see page 57.)

■ **Volume**

Adjusts the volume for the projector's speaker.

■ **Remote Receiver**

Deactivates the projector's front and/or back sensors that detect signals from the remote control. This may be necessary to prevent interference from bright fluorescent lights.

■ **Test Pattern**

Displays a test pattern to assist you in focusing and zooming the image, and correcting the image shape. (To cancel the displayed test pattern, press **Esc**.)

4. When you're finished, press **Esc** or **Menu**.

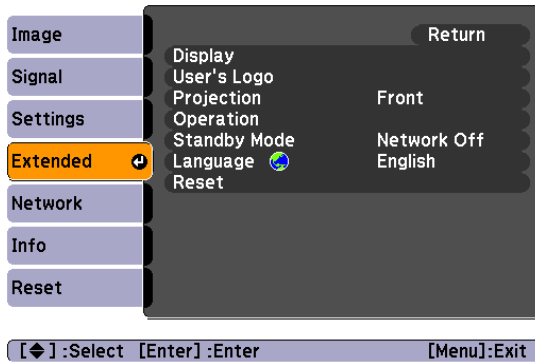
note

*To cancel the Control Panel Lock function from the projector, press the **Enter** button for about seven seconds.*

Selecting Projector Setup Options

Use the Extended menu to customize the way you set up the projector. You can configure the projector for rear and/or ceiling/wall-mounted projection, change the language for the menus and messages, set the screen background color, capture and store a custom image or logo for the startup screen.

1. Press the **Menu** button.
2. Select the **Extended** menu.



3. Press **Enter**. Then use the up and down arrow buttons and the **Enter** button to set the following options:

- **Display**

Messages: Lets you turn screen messages on or off.

Display Background: Sets the screen background to **Black**, **Blue**, or **Logo** when no image signal is available.

Startup Screen: Enables or disables display of the startup screen when the projector is turned on.

A/V Mute: Sets the screen background to **Black**, **Blue**, or **Logo** when the **A/V Mute** button is pressed.

Closed Caption: Turns on closed captioning using **CC1** or **CC2**.

note

Captions are not visible when you display the projector menus or use EMP Monitor to access the projector over a network.

■ User's Logo

Turn on to display the image or logo you have captured whenever the projector is turned on. See page 67 details.

■ Projection

Front: Projector is in front of the screen.


Front/Ceiling: Projector is in front of the screen, mounted upside-down from a wall, whiteboard mounting, or ceiling.

Rear: Projector is behind the screen.

Rear/Ceiling: Projector is behind the screen, mounted upside-down from the ceiling.

To change from **Front** to **Front/Ceiling** or **Rear** to **Rear/Ceiling**, press and hold the **A/V Mute** button on the remote control for five seconds.

■ Operation


Direct Power On: When this feature is enabled, projection starts as soon as you plug in the power cord. You don't have to press the  **Power** button.

Sleep Mode: When enabled, the projector turns off the lamp if it has not received any input signals for a period of time (as defined in the Sleep Mode Timer setting).

Sleep Mode Timer: When Sleep Mode is on, you can set the period of time before the projector turns off automatically, from 1 to 30 minutes.

High Altitude Mode: When using the projector at an altitude above 4,921 feet (1,500 m), turn this setting on to ensure that the internal temperature of the projector is regulated properly. Turn this setting off for lower elevations.

■ Standby Mode

Select **Network On** to allow the projector to be monitored over a network when the projector is in standby mode (the  **Power** light is orange).

■ Language



Select the language to be used for the projector menus.

4. When you're finished, press **Esc** or **Menu**.

note

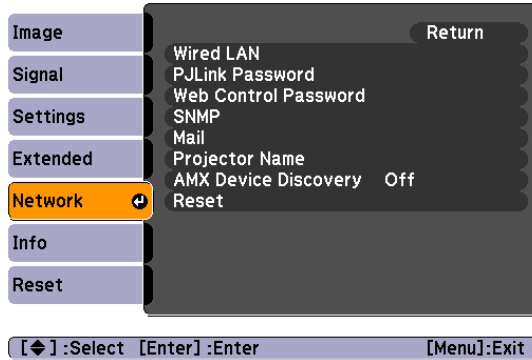
Logo settings cannot be changed if the User's Logo Protect feature has been turned on. See page 68.

note

*When Direct Power On is turned on, press the  **Power** button to turn the projector off; wait until the  **Power** light turns a steady orange, then unplug the power cord.*

Selecting Network Settings

For information connecting the projector to a network and monitoring the projector over a network, see “Monitoring the Projector Over a Network” on page 93.



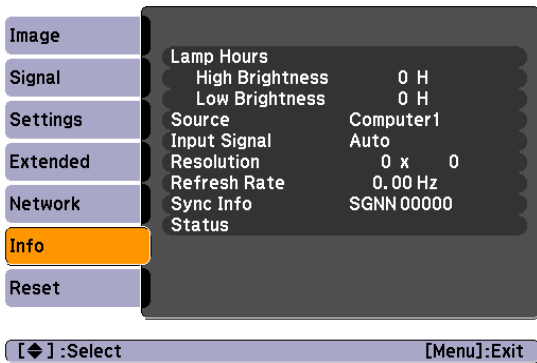
note

You can make changes to many of the signal settings on the Signal menu. See page 58 for details.

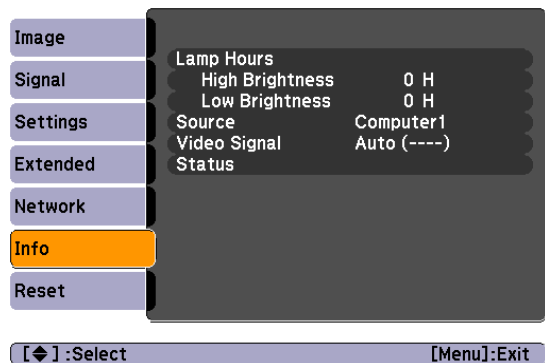
Viewing Lamp Usage and Other Information

Use the Info menu to view information about the display settings of your computer and the number of hours the lamp has been used.

1. Press the Menu button.
2. Select the Info menu. You see one of the following menus:



Computer (analog RGB, digital RGB, RGB Video/Component video)



Video (Composite video, S-Video)

- **Lamp Hours**

Displays the number of hours the lamp has been used. The life span of the lamp ranges from about 3000 hours in High brightness mode to about 4000 hours in Low brightness mode. If the number shown is close to 3000 or the information is displayed in red, make sure you have a spare lamp handy.

- **Source**

Displays the input source currently being projected.

- **Input Signal** (computer, RGB video, and component video)

Displays the input signal setting.

- **Resolution** (computer, RGB video, and component video)

Displays the input resolution.

- **Video Signal** (composite and S-Video)

Displays the video signal format.

- **Refresh Rate** (computer, RGB video, and component video)

Displays the refresh rate.

- **Sync Info** (computer, RGB video, and component video)

Provides information that may be needed by the service technician.

- **Status**

Displays informations about projector problems. This information may be needed if service is required.

3. When you're finished, press **Esc** or **Menu**.

note

The lamp usage timer doesn't register until you've used the lamp for at least 10 hours.

Using the Projector's Security Features

To prevent unauthorized use of the projector, you can do the following:

- Create an identifying user logo that is displayed at startup and/or when the **A/V Mute** button is pressed.
- Assign a password to prevent the projector from being turned on, prevent your startup screen from being changed, and lock network settings.
- Disable the projector's buttons; this is useful, for example, if you're projecting in a classroom and you want to ensure that no one touches the projector's buttons while you're using the remote control.
- Install an anti-theft lock or cable.

If you create a user's logo for the projector, you can lock the logo on so it is displayed as the startup screen and/or AV/Mute screen.

Unauthorized users cannot turn it off or change it. This feature is intended to discourage theft and provides a way to identify the projector should it be stolen.

If you assign the projector a password, a screen appears requesting the password whenever the projector is turned on. If you enter the password incorrectly three times in succession, the projector's operation is locked and you'll need to disconnect the power cord, then reconnect it to redisplay the password screen. If an incorrect password is entered 30 times in a row, the projector is locked and you'll need to contact Epson to unlock it. See "Where To Get Help" on page 91.

If someone else will be using the projector for awhile but you want to make sure that person returns it by a certain time, you can temporarily disable the password for a set period. When that time has elapsed, the password is reactivated and must be entered before the projector can be used.

When you enable the Control Panel Lock feature, all of the projector's buttons (**Full Lock**) or all of the buttons except the **Power** button (**Partial Lock**) are disabled.

note

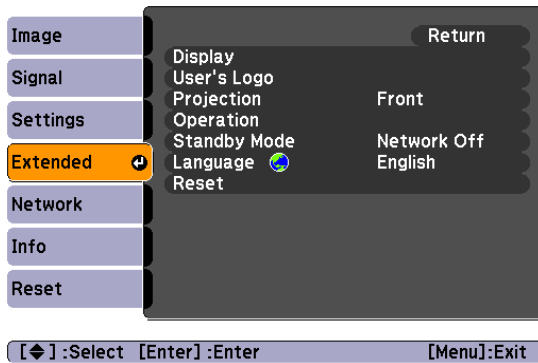
If you should happen to enable the password before you set one and you see the prompt to enter the password, enter the default password 0000 to proceed.

Creating Your Own Screen Logo

You can transfer any image on your computer to the projector, and then use it as the startup screen and/or the screen that is displayed when you press the **A/V Mute** button. The image can be a company logo, slogan, photograph, or any other image you want to use. The projector considers this image the “User’s Logo.”

Follow these steps to capture the image and transfer it to the projector:

1. Display the image you want to use on the projector. You can use an image from a computer or video source, such as a DVD player.
2. Press the **Menu** button and select the **Extended** menu.

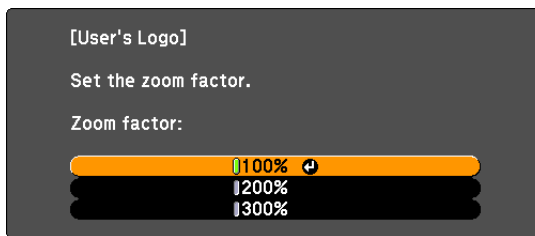


3. Use the down arrow button and press **Enter** to select **User’s Logo**.
4. When you see a message asking if you want to use the present image as a user’s logo, select **Yes** and press **Enter**. A selection box displays over the image.
5. Use the arrow buttons on the projector or remote control to select the area of the image you want to use. Once you have selected the area, press **Enter**.
6. When you see the message **Choose this image as the User’s Logo?**, choose **Yes** and press **Enter**. If you want to change the area selected, select **No**, press **Enter** and repeat steps 5 and 6.

note

If the User’s Logo Protect function is ON, you see a message that the logo cannot be recorded. You’ll need to disable the User’s Logo Protect function before you can create or change the User’s Logo. See page 69.

- When you see this screen, select a zoom rate (display size), and then press **Enter**.



[Esc]:Return [↕]:Select [Enter]:Set [Menu]:Exit

note

The default setting for the Startup Screen option menu is On. If the Startup Screen is set to Off, the logo will not display at startup.

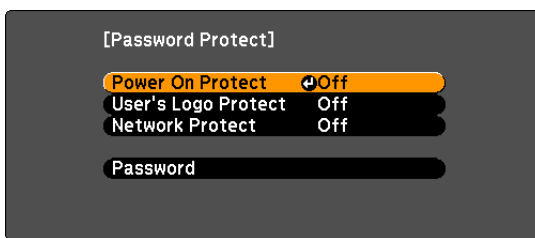
If the User's Logo Protect function has been set to On, the Display Background setting cannot be changed. You need to turn the protect function off first. See page 69 for details.

Once you've saved a user's logo, you cannot reset the logo setting to its factory default (no logo).

- When you see the message **Save image as user's logo?**, select **Yes** and press **Enter**. Saving the logo takes a few moments. Do not use the projector or other sources (computer, video, etc.) while the logo is being saved. When you see the message **Completed**, press **Esc**.
- To display the logo as the background screen when you press the **A/V Mute** button or when no image signal is available, select the **Extended** menu and press **Enter**. Then select **Display**, **Display Background**, and **Logo** and press **Enter**. Select **A/V Mute** and **Logo** and press **Enter**.
- When you're finished, press **Menu** to exit the menus.

Setting a Password

- Press the **Freeze** button on the remote control for about five seconds until you see the **Password Protect** menu:



[↕]:Select [Enter]:Enter [Menu]:Exit

- Select **Password** and press **Enter**.

note

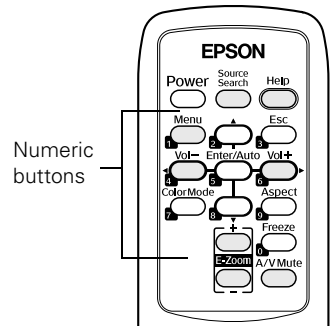
If a password has already been set, you see the **Password Protect Release** screen. See "Starting the Projector with a Password" on page 70.

- When you see the message **Change the password?**, select **Yes** and press **Enter**.
- Enter a 4-digit number using the numeric buttons on the remote control, as shown.

The password will be displayed as ****. After you enter the last digit, a confirmation screen appears. Enter the password again. You see the message **Password accepted**.

- After you finish setting the password, press the **Esc** button to return to the Password Protect menu.

Make a note of the password and keep it in a safe place in case you forget it.



Turning On the Password and User's Logo

- Press the **Freeze** button on the remote control for about five seconds until you see the Password Protect menu.
- To enable the password, select **Power On Protect** and press **Enter**. Select **On** then press **Esc**.
- To enable your screen logo, select **User's Logo Protect** and press **Enter**. Select **On** then press **Esc**.

When this feature is on the logo appears whenever the projector is turned on (if the **Startup Screen** is enabled in the Extended menu; see page 62) and as the A/V Mute screen (if you selected the **Logo** as the **Display Background** in the Extended menu). None of the User's Logo features can be changed when the User's Logo Protect function is enabled.

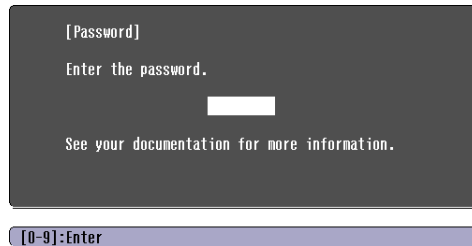
- To lock the network settings in the menu system, select **Network Protect** and press **Enter**. Select **On** and press **Enter**.
- Press **Menu** to close the Password Protect menu.

If you lose the remote control, you will not be able to enter the password, so keep the remote control in a safe place at all times.

You can attach the password protect sticker to the projector as an additional theft deterrent.

Starting the Projector with a Password

When the password function is enabled, you see this screen when you turn on the projector:



Use the numeric buttons on the remote control to enter the password. Once you have entered the password correctly, the password screen closes, and projection begins.


If the password is not correct, you see the message **Wrong password. Please try again.** If you enter an incorrect password three times in succession, you see the message **The projector's operation will be locked. Request code xxxxx** and the projector switches to standby mode for approximately 5 minutes. Write down the request code. Then disconnect the projector's power cord from the electrical outlet, reconnect it, and turn the projector back on.


When you see the Password Protect Release screen again, you can try to enter the correct password.

If you enter an incorrect password 30 times in succession, the projector remains locked and you must contact Epson for service.

If you have forgotten the password, contact Epson with the request code number that appears in the Password Protect Release screen for assistance. See "Where To Get Help" on page 91.

Disabling the Projector's Buttons

You can use the Control Panel Lock function to disable all the projector's buttons, or all the buttons except for the  Power button.

1. Press the **Menu** button.
2. Select the **Settings** menu and press **Enter**.
3. Use the up and down arrow buttons to select **Control Panel Lock** and press the **Enter** button.
4. Select **Full Lock** to disable all the buttons, or **Partial Lock** to disable all except the  Power button. Then press **Enter**.
5. Select **Yes** and press **Enter** to confirm the setting.
6. Press the **Menu** button.

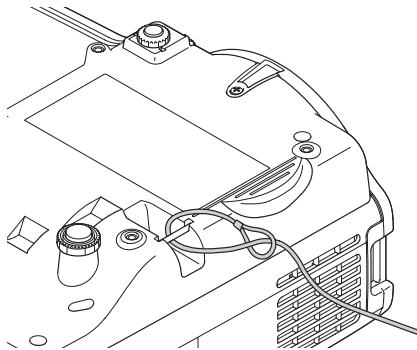
note

To cancel Control Panel Lock, press the projector's Enter button for 7 seconds.

Installing Security Locks

You can install two different types of security locks on the projector:

- You can use the security slot on the base of the projector to install a Kensington Microsaver Security System. See page 13.
- You can use a wire lock to secure the projector to a room fixture or heavy furniture, as shown below.

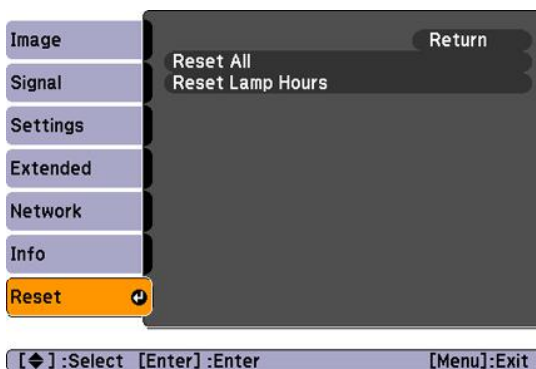


Restoring the Default Settings

note

The Computer Input (1 and 2), User's Logo, Network menu settings, Lamp Hours, and Language settings do not return to their defaults when you select **Reset All**. To reset the computer inputs, use the **Reset** option on the Signal menu; see page 58 for details. To reset the network settings, use the **Reset** option on the Network menu; see page 64 for details. To reset the Language settings, use the **Reset** option on the Extended menu; see page 62 for details.

The Reset menu lets you return most projector menu settings to their default values. It also lets you reset the lamp hours to their initial default value; see page 79 for instructions on resetting the lamp timer.



To reset most projector menu settings, select **Reset All** and press the **Enter** button to display the confirmation screen. Select **Yes** to reset all the default settings or **NO** to cancel.

5

Maintenance and Transportation

warning

Before you clean any part of the projector, turn it off and unplug the power cord.

Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages in the projector can injure you severely. Do not try to service this product yourself, except as specifically explained in this User's Guide. Refer all other servicing to qualified service personnel.

Your projector needs little maintenance. All you need to do on a regular basis is keep the lens clean. Any dirt or smears on the lens may show up on your projected image.

You may need to clean the air filter and air vents. A clogged air filter or air vent can block ventilation needed to cool the projector and cause overheating.

The only parts you should replace are the lamp and air filter. If any other part needs replacing, contact your dealer or a qualified servicer.

This chapter covers the following:

- Cleaning the lens
- Cleaning the projector case
- Cleaning and replacing the air filter
- Replacing the lamp
- Resetting the lamp timer
- Transporting the projector

Cleaning the Lens

Clean the lens whenever you notice dirt or dust on the surface.

- Use a canister of compressed air to remove dust.
- To remove dirt or smears on the lens, use lens-cleaning paper. If necessary, moisten a soft cloth with lens cleaner and gently wipe the lens surface.

caution

Do not use glass cleaner to clean the lens.

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

Cleaning the Projector Case

Before you clean the case, first turn off the projector and unplug the power cord.

- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a mild detergent. Then wipe the case.
- Do not use wax, alcohol, benzene, paint thinner, or other chemical detergents. These can damage the case.

Cleaning and Replacing the Air Filter

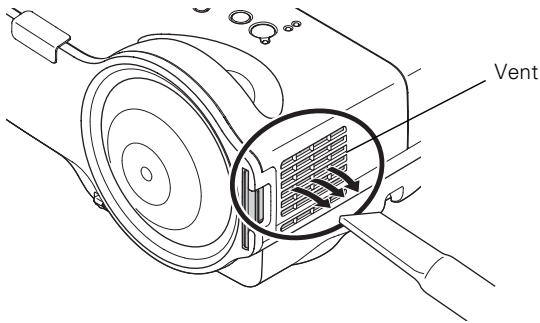
Your projector includes an air filter to ensure the best performance. If dust collects on the air filter or vent on the side of the projector, clean them as described below. Dust clogs prevent proper ventilation and can cause overheating and damage the projector.

When the filter and vent are clogged, the projector displays the message **The projector is overheating. Make sure nothing is blocking the air vent, and clean or replace the air filter.**

To clean the air filter and air vent, follow these steps:

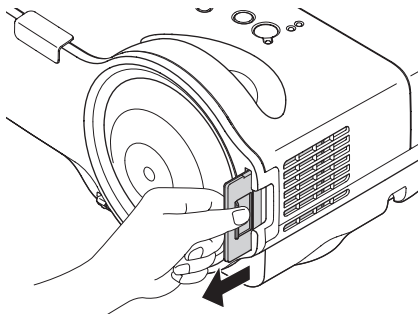
1. Turn off the projector, allow it to cool down, and unplug the power cord.
2. To clean the filter and vent, Epson recommends using a small vacuum cleaner designed for computers and other office equipment. If you don't have one, gently clean them using a very soft brush (such as an artist's paintbrush).

You can remove the air filter to clean both sides.



If the dirt is difficult to remove or if the filter is torn, replace it. Contact your dealer or call Epson at (800) 463-7766 to obtain a new one (part number V13H134A13).

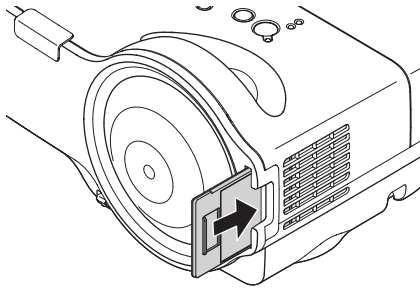
3. If you need to clean or replace the filter, slide it out, as shown.



note


Air filters contain polycarbonate, ABS resin, and polyurethane foam. Dispose of used air filters according to local regulations.

4. Align the new filter and slide it in until it clicks into place.




Replacing the Lamp

The projection lamp typically lasts for about 3000 hours of use (in high brightness mode) or 4000 hours (in low brightness mode). It is time to replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The  lamp light is flashing orange.
- The message **Replace the Lamp** appears on the screen when the lamp comes on. To maintain projector brightness and image quality, replace the lamp as soon as possible.

Contact your dealer or call Epson at (800) 463-7766 for a replacement lamp. Request part number V13H010L42.

Follow these steps to replace the lamp:

1. Press the  **Power** button twice to turn off the projector. When you hear the projector beep twice, unplug the power cord.
2. If the projector has been on, allow it to cool down for at least an hour (or until the lamp is cool).

note

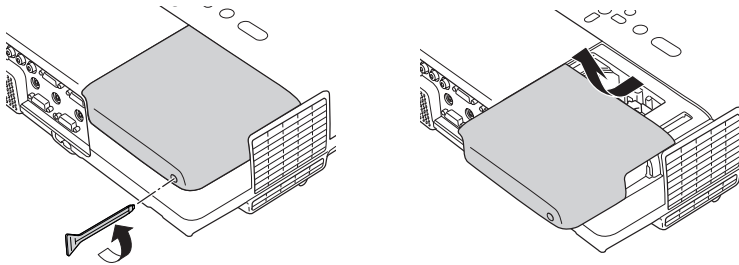
You can check to see how many hours the lamp has been used. See page 64.

Turn off this product when not in use to prolong the life of the projector.

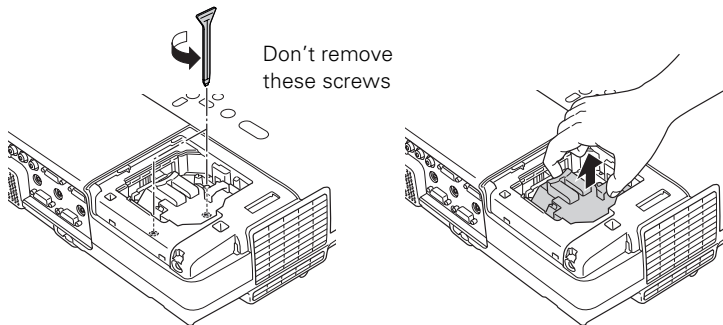
warning

Let the lamp cool before replacing it. If the lamp breaks, handle the shards carefully to avoid injury.

3. Use the screwdriver included with the replacement lamp or a #2 Phillips-head screwdriver to loosen the screw holding the lamp cover (the lamp cover is located on top of the projector).
4. Slide the cover out, then lift it off.



5. Use the screwdriver to loosen the two screws holding the lamp in place. (You can't remove the screws.)
6. Hold the lamp as shown and pull it straight out.



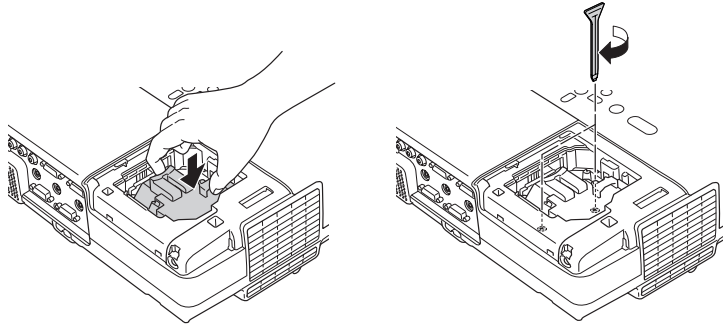
note

(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.*

caution

Do not touch the glass portion of the lamp assembly. Touching the glass could result in premature lamp failure.

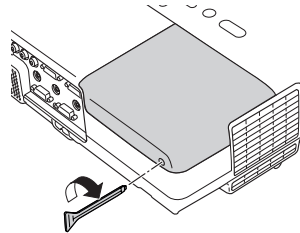
7. Gently insert the new lamp along the guide rail. If it doesn't fit easily, make sure it's facing the correct way. Push the lamp down firmly where the label **PUSH** appears.
8. Once the lamp is fully inserted, tighten its screws.



note

Be sure to seat the lamp fully and secure the lamp cover. If the lamp is not properly installed or the cover is loose, the lamp will not turn on.

9. Lower the lamp cover into place. (The opening should be almost covered, and the top of the cover should be flush with the top of the projector.) Then slide the cover closed and tighten the screw.

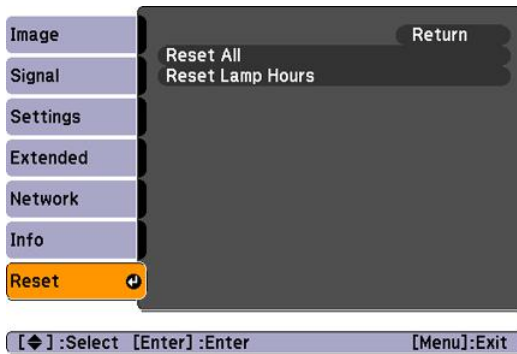


10. Reset the lamp timer as described in the next section.

Resetting the Lamp Timer

You must reset the lamp timer after replacing the lamp to clear the **Replace the Lamp** warning message. Follow these steps:

1. Connect the power cable and turn on the projector.
2. Press the **Menu** button on the remote control or projector and select the **Reset** menu. Then press **Enter**.



3. Select **Reset Lamp Hours** and press **Enter**. You see a confirmation screen.
4. Select **Yes** and press **Enter**.
5. Press **Esc** to return to the main menu or the **Menu** button to exit the menu system.

note

Do not reset the lamp timer if you have not replaced the lamp. If you do, the Lamp Hours will not accurately reflect the number of hours that the lamp has been used.

Transporting the Projector

The projector contains many glass and precision parts. If you need to transport it, please follow these packing guidelines to prevent damage to the projector:

- Whenever you transport the projector, always attach the lens cover and the protective pad that fits over the lens cover to protect the lens.
- When shipping the projector for repairs, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the projector.
- When transporting the projector as freight or checked luggage, first put it in a carrying case, then pack it in a firm box, using cushioning around the case. Make sure the shipping carrier is equipped to handle fragile equipment and mark the box “Fragile.”
- When you are hand-carrying the projector, be sure to use a carrying case.

note

Epson shall not be liable for any damage incurred during transportation.

6 *Solving Problems*

This chapter helps you solve problems with your projector, and tells you how to contact technical support for problems you can't solve yourself. This chapter explains the following:

- Using the projector's on-screen help system
- What to do when the projector's status lights flash
- Solving problems with the image or sound
- Solving password problems
- Solving problems with the remote control
- Solving problems monitoring the projector over a network
- Contacting technical support

Using On-Screen Help

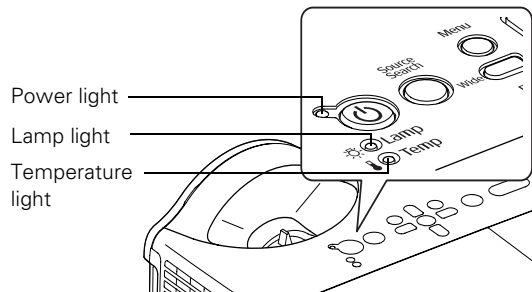
If the image doesn't look right or your audio isn't working, you can get help by pressing the ? Help button on the projector or remote control.

1. Press the ? Help button on the remote control or projector. You see the Help menu.
2. Use the up and down arrow buttons on the projector or remote control to highlight the problem you want to solve. Then press the Enter button to view the solution(s).
3. Press Esc to view another topic or press ? Help to exit.


If none of the suggestions solves your problem, see additional solutions to problems in the following sections.

What To Do When the Lights Flash

The lights on top of the projector indicate the projector's status and let you know when a problem occurs.






If the projector is not working correctly, first turn it off and unplug it. Then plug the power cord back in and turn on the projector. If this does not solve the problem, check the status lights on top of the projector and try the solutions recommended in the following table.




Power light	Lamp light	Temperature light	Description
Green	Off	Off	The projector is operating normally.
Flashing green	Off	Off	The projector is warming up. Wait for the image to appear.
Orange	Off	Off	The projector is in standby or sleep mode. You can unplug it or press the  Power button to turn it on.
Flashing orange	Off	Off	The projector is shutting down. Wait for the light to stop flashing and remain orange before unplugging it.
Red	Off	Flashing orange	The projector is too hot. Make sure the temperature surrounding the projector does not exceed 95 °F (35 °C) and there is plenty of space around and under the projector for ventilation. Clean the air filter and air vents, if necessary. See page 74 for instructions.
Red	Off	Red	The projector has overheated and turned itself off. Let it cool for about five minutes, then turn it back on. Make sure there is plenty of space around and under the projector for ventilation. If you are using the projector at an altitude above 4921 ft (1500 m), turn on High Altitude Mode as the Operation setting in the Extended menu; see page 62. Also clean the air filter and air vents; see page 74. If it continues to overheat, you may need to replace the air filter.
Red	Flashing red	Off	The lamp is burned out, broken, or not installed correctly; or the lamp cover is open. Close the cover or replace or reseal the lamp, if necessary, as described on page 76. Also clean the air filter and air vents; see page 74. If you are using the projector at an altitude above 4921 ft (1500 m), turn on High Altitude Mode as the Operation setting in the Extended menu; see page 62. If these suggestions don't work, contact Epson.
Orange	Flashing orange	Off	Replace the lamp with a new one as soon as possible; see page 76 for instructions. If you continue to use the lamp, there is a risk it may break.
Red	Off	Flashing red	There is a problem with the fan or a sensor. Turn the projector off and unplug it. Contact Epson for help; see page 91.
Flashing red	Flashing red	Flashing red	There is an internal error in the projector. Turn the projector off and unplug it. Contact Epson for help; see page 91.

Solving Problems with the Image or Sound

No image appears on the screen.

- Check that the  **Power** light is green, not flashing, and the lens cover is removed. Also press the **A/V Mute** button on the remote control to see if the picture was turned off temporarily.
- If the projector doesn't turn on, the Control Panel Lock may be enabled. Press and hold the **Enter** button on the projector for 7 seconds to release the lock.
- The projector may be in standby or sleep mode. If the projector has not received any signal for 30 minutes, it turns off the lamp to conserve the lamp life and save energy. If the  **Power** light is orange, press the  **Power** button to turn on the projector.

The attached computer may also be in sleep mode or displaying a black screen saver. Try pressing a key on the computer.

- If the power was switched off and then on again, wait until the  **Power** light stops flashing and remains orange. Then press the  **Power** button again.
- Check the **Video Signal**, **Computer1 Input**, or **Computer2 Input** setting in the **Signal** menu to make sure it is correct for the selected source. See page 58 for more information.
- Messages may have been turned off in the **Display** setting of the **Extended** menu. See page 62 for details.
- Adjust the **Brightness** setting on the **Image** menu (see page 57) or select **High** for the **Brightness Control** setting in the **Settings** menu (see page 61).
- With **Direct Power On** enabled in the **Operation** setting of the **Extended** menu, if you unplug the projector and then plug it right back in, you must press the  **Power** button to turn on the projector. See page 62 for details.
- Make sure at least one of the projector's remote receivers are turned on in the **Settings** menu. See page 60 for details.

Nothing appears on the external monitor.

- Make sure the VGA computer cable is connected to your computer's video port and the projector's **Computer1** port.
- Make sure the cable from your monitor is connected to the projector's **Monitor Out** port.

You see a blue screen with the message No Signal displayed.

- Make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the power to your computer or video source is turned on.
- If you've connected a computer and one or more video sources, you may need to press the **Source Search** button on the projector or the remote control to select the correct source. Allow a few seconds for the projector to sync up after pressing the button.
- If you've connected a laptop computer, make sure it's set to display on an external monitor. See page 38.

The message Not Supported is displayed.

- Make sure your computer's resolution doesn't exceed WXGA+ and the frequency is supported by the projector; see page 106. If necessary, change your computer's resolution setting as described on page 86.
- Make sure the correct **Video Signal** is selected in the **Signal** menu. See page 60. It should normally be set to **Auto**.

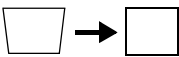
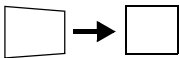
The buttons on the projector don't work.



The Control Panel Lock may be enabled. Press and hold the **Enter** button on the projector for 7 seconds to release the lock.

Only part of the computer image is displayed.

- If you're projecting from a computer or RGB video device, press the **Enter/Auto** button on the remote control. If this doesn't work, you may need to adjust the **Position** setting in the Signal menu. See page 59 for more information.
- If you've enlarged part of the image using the **E-ZOOM** button on the remote control, press the **Esc** button to cancel zooming and return to full display.
- Try pressing the **Aspect** button on the remote control to select a different aspect ratio. See page 49 for details.
- Make sure your computer's resolution setting is correct and dual display is not activated. Ideally, it should be 1280 × 800 to match the projector's native resolution. If this option isn't available, select another compatible video format. See page 106.
 - **Windows:**
Right-click the desktop, select **Properties**, click the **Settings** tab, and select a different resolution.
 - **Mac OS X:**
On the Apple menu, choose **System Preferences**, then click **Display** or **Displays**. Select a different resolution.
- You also may need to modify existing presentation files if you created them for a different resolution. See your software documentation for specific information.

The image isn't rectangular, but trapezoid-shaped.



- Make sure the projector isn't placed off to one side of the screen, at an angle, or the image won't be rectangular. Place it directly in front of the center of the screen, facing the screen squarely.
- If you've tilted the projector upward, the image will be broader at the top. Hold down the  or  buttons on top of the projector until the image is rectangular.

The image contains static or noise.

- If you're using a computer cable longer than 6 feet (2 m), or an extension cable, the image quality may be reduced.
- Keep your computer and video cables separated from the power cord as much as possible to prevent interference.
- The video signal may be split between the computer and the projector. If you notice a decline in the projected image quality when the image is displayed simultaneously on your laptop computer and the projector, turn off the laptop's LCD display.
- If you're projecting from a composite or S-Video source, check the **Video Signal** setting in the Signal menu. In most cases, leave it set at **Auto**. If you're using a 60-Hz PAL video source, change this setting to **PAL60**. Also make sure the **Progressive** setting is **On**. See page 60 for details.
- Make sure the cables are securely connected at both ends.
- Select the correct resolution; see "Compatible Video Formats" on page 106.
- If you're projecting from a computer, press the **Enter/Auto** button on the remote control or the **Enter** button on the projector to adjust tracking and sync automatically. If that doesn't work, try adjusting the **Sync** and **Tracking** settings in the Signal menu. See page 59.

The image is blurry.

- Adjust the focus using the focus ring. See page 40.
- Try cleaning the lens as described on page 74.
- Make sure the lens is not fogged by condensation. You may need to wait before using the projector after moving it from a cold environment.
- Make sure the projection distance is within the ranges described on page 16 through page 18.
- Adjust the **Sharpness** setting on the Image menu (see page 58). You should be able to see the effect on the screen immediately.

You see vertical stripes or the image still looks blurry after trying the solutions in the previous section.

- If you're projecting from a computer and displaying an image that contains a lot of fine detail, you may notice one or more vertical stripes or bands, or some of the characters may look heavy or blurred. Press the **Enter/Auto** button on the remote control to automatically reset the projector's tracking and sync settings.
- If necessary, you can manually adjust the **Tracking** and **Sync** settings on the **Signal** menu as described on page 59.

To help you adjust these settings, fill the screen with a detailed image, such as a desktop background pattern or black text on a white background. Adjust the **Tracking** setting to eliminate vertical stripes; adjust the **Sync** setting to increase the sharpness.

The colors of the image are not right.

- Try selecting a different **Color Mode**. See page 57 for instructions.
- If you're displaying video, adjust the **Color Saturation** and **Tint** settings on the **Image** menu. See page 57 for instructions.
- Adjust the **Brightness**, **Contrast**, and **Color Adjustment** settings on the **Image** menu. See page 57.
- Make sure the input signal setting on the **Signal** menu matches the signal from the connected device. See page 58 for details.

If the image is too purple and you've connected a computer or other RGB device to the **Computer1** or **Computer2** port, select **RGB** as the input source. If you've connected a component video device to one of these ports, select **Component**.

If you're projecting from a composite video or S-Video source, select the correct **Video Signal** in the **Signal** menu.

- Check your computer display settings to correct the color balance.
- If the image seems dark, the lamp may be nearing time for replacement. Check the lamp hours as described on page 64 and replace the lamp, if necessary, as described on page 76.

note

Because of the different technologies used, your projected image may not exactly match the colors on your laptop or computer monitor.

There is no sound.

- Press the **Vol+** button on the remote control to turn up the volume.
- If you've turned off the picture and sound, press the **A/V Mute** button on the remote control to turn them on again.
- If you're using a DVD player or other video source, make sure its volume is not turned all the way down or muted. Also, make sure the cables are connected correctly, as described in Chapter 1.
- Make sure the audio cable is connected to the correct audio port. See page 24 or page 31.
- If your presentation includes computer audio, make sure the volume control on your computer is not turned all the way down or muted. Make sure the audio cable is securely connected to both the projector and your computer. See page 24.
- The wrong source may be selected. Press the **Source Search** button on the projector or the remote control.

Solving Password Problems

You have forgotten the password.

- Write down the request code that appears in the Password Protect Release screen and contact Epson. See page 91.
- If you turned on the password protect feature before setting the password and no password was set before, try using the default password: 0000.

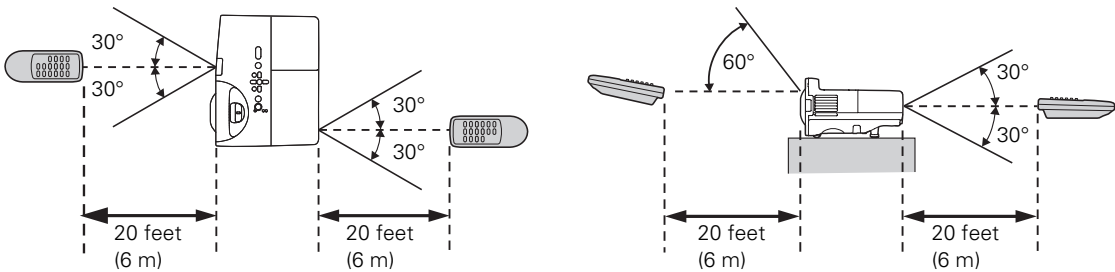
The remote control is not available.

You must have the remote control to enter the password. You can purchase a replacement remote control from Epson. See page 92.

Solving Problems with the Remote Control

The projector doesn't respond to remote control commands.

- Make sure you are within 20 feet (6 m) of the projector, and within range of the projector's front or back sensor. The effective range is approximately 30° to the left or right, 30° above or below the rear sensor, and 60° above the front sensor (below, if mounted upside-down).



- If a button on the remote control is held for more than 30 seconds, the remote enters sleep mode. Press another button for normal operation.
- The remote control batteries may not be installed correctly or may be low on power. Replace the batteries as described on page 51.
- Dim the room lights and turn off any fluorescent lights. Make sure the projector is not in direct sunlight. Strong lighting, especially fluorescent lights, may affect the projector's infrared receivers. If you still have trouble using the remote control, disable one of the remote receivers using the Settings menu to block interference from bright light. See page 60 for details.
- Turn off any nearby equipment that emits infrared energy, such as a radiant room heater.

You have lost the remote control.

You need the remote control to access many projector features. If you have lost it, you can order another from Epson; see page 92 for details.

Solving Network Problems

You don't see your projector in the EMP Monitor window.

- Make sure that you've connected the projector to the network and configured it correctly; see page 95. Also, make sure you've registered the projector with EMP Monitor; see page 99.
- Make sure that Standby Mode in the projector's Extended menu is set to **Network On**; see page 62.
- If the computer you are using is running Windows XP or 2000, or Windows Vista,[®] you must be logged in as the Administrator.
- Try restarting your computer.

You don't receive an e-mail over the network when a projector problem occurs.

- Make sure that Standby Mode in the projector's Extended menu is set to **Network On**; see page 62.
- Make sure that you've connected the projector to the network and configured it correctly; see page 95.
- Make sure you set up projector e-mail alerts correctly in the Network menu (see page 97) or in EMP Monitor (see page 100).

Where To Get Help

Epson provides these technical support services:

Internet Support

Visit Epson's support website (U.S. or **Canada**) for solutions to common problems with the PowerLite 410W. 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 and enter the PIN on the included Epson PrivateLine Support card. This is the fastest way of speaking to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

You may also speak with a projector support specialist by dialing one of these numbers:

- U.S.: (562) 276-4394, 6 AM to 6 PM, Pacific Time, Monday through Friday
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday

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

Before you call, please have the following information ready:

- Product name (PowerLite 410W)
- Product serial number (located on the bottom of the projector)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

note

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

Purchase Supplies and Accessories

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

7

Monitoring the Projector Over a Network

The software included with your projector lets you monitor and control your projector over a network.

- Use EMP Monitor (available for Windows only) to see your projector's status, switch image sources, and control basic settings.
- Use the mail notification function to receive e-mail alerts about possible problems.

To use the software to manage your projectors, first install EMP Monitor. Then connect and configure the projector you want to monitor as described here.

This chapter covers the following information:

- Installing the network software
- Connecting your projector to a network
- Selecting network settings
- Monitoring and controlling your projector with EMP Monitor
- Using a browser to monitor the projector

Installing the Network Software

The network software CD-ROM includes the software you need to monitor the projector from a remote location.

Windows System Requirements

Before you install the software, make sure your computer meets these requirements:

- Microsoft Windows 98SE, Me, or 2000 (SP4), Windows XP, or Windows Vista
- IBM compatible PC with at least a Pentium® III 1.2 GHz processor
- At least 256MB of RAM (512 recommended)
- At least 128MB of free hard disk space
- XGA (1024 × 768) or better display adapter and monitor, 16-bit color or higher

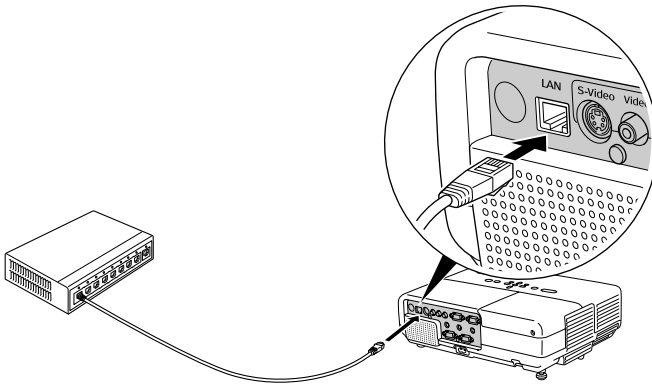
Installing the Software on a Windows System

1. Insert the network software CD-ROM in your computer's CD-ROM or DVD drive.
2. Click **Custom**, then make sure **EMP Monitor** is selected.
3. Click **Install**, then follow the on-screen instructions to install your projector software.
4. When installation is complete, click **Exit**.

Connecting to the Network

Follow these steps to connect the projector to your network and configure it with an IP address.

1. Connect the projector to your network using a commercially available 100BaseTX or 10BaseT network cable. Connect the cable to the LAN port on the projector.

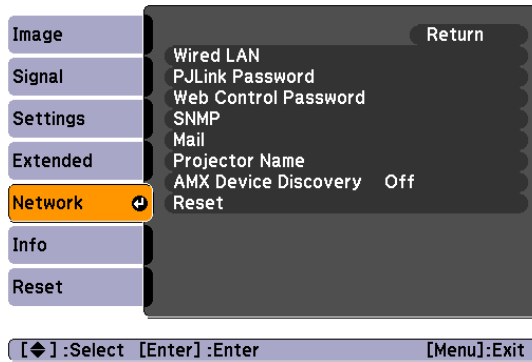


2. Press the projector's  Power button to turn it on.

Selecting Network Settings

Follow the instructions in this section to set up the projector's network settings in the menu system.

1. Press the **Menu** button.
2. Select the **Network** menu.



3. Press **Enter**. Then use the up and down arrow buttons and the **Enter** button to set the following options:
 - **Wired LAN**
If your network assigns addresses automatically, turn on the DHCP setting.

If your network does not assign addresses automatically, turn off DHCP and enter the projector's IP Address, Subnet Mask, and Gateway Address as needed.

To enter numbers, use the numeric buttons on the remote control.
 - **PLink Password**
Lets you enter a password for using the PLink™ protocol to control the projector.
 - **Web Control Password**
Lets you enter a password for accessing the projector over the web from a computer running the EMP Monitor software.

- **SNMP**

If you're a network administrator, you can use the SNMP option to enter trap IP addresses. This lets you receive trap alerts for the projector on a computer running the SNMP Manager software.

- **Mail**

When enabled, the projector sends you an e-mail alert if it has any problems. For instructions on setting up e-mail alerts, see the next section.

- **Projector Name**

Enter a name for identifying the projector over the network.

- **AMX Device Discovery**

Turn on to allow the projector to be detected by AMX® Device Discovery-enabled software, if you are using it on your network.

Setting Up Projector E-mail Alerts

When this feature is enabled, the projector sends you an e-mail alert if it has any problems.

1. Press the **Menu** button, select the **Network** menu, and press **Enter**.
2. Select **Mail** and press **Enter**.
3. Select the following settings as necessary:
 - **Mail Notification**
Select **On** to enable sending of an e-mail if there is a problem with the projector.
 - **SMTP Server**
Enter the IP address for the SMTP server for the projector. You can enter a number from 0 to 255 in each field of the address.
 - **Port Number**
Enter the SMTP server's port number. The default value is 25. You can enter a numeric value from 1 to 65535.

note
You can also set e-mail alerts from EMP Monitor (see page 100).

note

If a critical problem develops with a projector which causes it to suddenly stop working, it may not be possible for the projector to send a message.

If Standby Mode is set to Network On in the Extended menu, the projector can still be monitored even if the projector is in standby mode (when the power is off).

note

If you want to monitor the projector while it is in standby mode, select Standby Mode in the Extended menu, then select Network On. See page 62.

■ Address 1/2/3 Setting

Choose one of the **Address** numbers, then enter the e-mail address where you want to receive a message when a problem occurs and select the condition under which you want to receive a message.

4. When you're done, press **Menu** to exit the menu system.

When a problem occurs, an e-mail message is sent to the specified addresses with the subject line **EPSON Projector** and the following information:

- Line 1: The name of the projector where the problem has occurred
- Line 2: The IP address of the projector where the problem has occurred
- Line 3: Details of the problem

Using EMP Monitor

EMP Monitor lets you use a remote computer to manage your projectors. It lets you easily turn the projector on or off, switch image sources, and check its status.

Before using EMP Monitor, make sure you've installed the software (available for Windows only) as described on page 94. The computer you're using to monitor the projector should already be connected to your network.

Opening and Closing EMP Monitor

To start EMP Monitor, click **Start > Programs** or **All Programs > EPSON Projector > EMP Monitor**.

If you've added the program to the Startup programs folder, it may already be open. If so, click the icon in the system tray on the lower-right corner of your screen to start EMP Monitor:



To close EMP Monitor, select **Exit** from the File menu or right-click the program icon shown above, then select **Exit**.

Registering a Projector

Before you can monitor a projector, you have to register it. Follow these steps to automatically search for your projector.

1. Open EMP Monitor.
2. Select **Edit > New > Projector (automatic search)**.
3. Click **Search** to locate projectors currently operating on the network.
4. Select the projector you want to add by clicking its name, then click the **Edit** button.
5. Enter a Display name, select a Parent group, if necessary, enter a Monitor Password, if necessary, and a Description for the projector.
6. Click the **Register** button.
7. Repeat steps 2 through 5 to register any additional projectors on the network.
8. When you're done adding the projector, click **Cancel**. You see a screen with a list of all registered projectors:

Monitoring Your Projector

The EMP Monitor screen lets you monitor your projector status and check if a problem has occurred.

For the most current status, click the **Refresh** button.

For additional information on monitoring your projector, see the *EMP Monitor Operation Guide* on the network software CD-ROM.

note

If the projector is not automatically found, your projector may not be connected or configured correctly for the network. See page 95.

*To delete a projector from the list, right-click the projector name, and click **Delete**.*

note

*To monitor a projector when it's in standby mode (plugged in but not turned on), you must select **Network On as the Standby Mode** setting in the projector's *Extended menu* (see page 62).*

*For detailed status information, right-click the projector and click **Property**.*

note

You can also set e-mail alerts from the projector's menu system (see page 97).

Using E-mail Alerts

You can set up e-mail alerts to warn you of problems with the projector.

1. Open EMP Monitor.
2. From the Tool menu, select **Mail notification function**.
3. Turn the Mail notification function setting **On**.
4. Enter the IP address and port number of your network's SMTP (outgoing) mail server.
5. Enter the Sender (projector) mail address.
6. Enter up to three e-mail addresses to send alerts to in the Recipient mail address boxes.
7. Click the **Notification event** buttons to select the conditions under which an e-mail alert will be sent.
8. When you're done, click the **OK** button.

If a projector experiences a problem, EMP Monitor sends an e-mail message to each of the addresses you entered in the Set mail notification function window. The subject line and body of the message includes the projector's name and the warning or error (similar to the those listed on page 99).

When the problem has been fixed, EMP Monitor sends a message indicating the problem has been resolved.

note

If a projector develops a critical problem, it may not be possible for it to report the error.

Using a Browser to Monitor the Projector

If your projector is connected to a network, you can use a standard web browser to monitor and control it. When using a browser to access the projector, you cannot connect through a proxy server.

1. Make sure that the projector is connected to your network, as described on page 95.
2. Follow the instructions on page 62 to set **Standby Mode to Network On** in the Extended menu so you can monitor the projector in standby mode.
3. Open your web browser and enter the IP address of the projector you want to monitor in the browser window.

If you're not sure what the address of the projector is, turn the projector on and select **Wired LAN** from the Network menu to display the IP address of the projector. See page 96.

You see a login screen.

4. Do one of the following:
 - If you didn't set a Web Control Password in the Network menu, click **OK**.
 - If you set a Web Control Password in the Network menu, enter it in the **Password** box, then click **OK**.

You see a screen displaying the settings you can change.

5. Select one of the menu options, then change any settings as needed. These settings correspond to those found in the projector's menu system. See page 54 for details.

You cannot change the **User's Logo**, **High Altitude Mode**, and **Language** settings in the Extended menu or select the **Reset All** and **Reset Lamp Hours** in the Reset menu.

Use the controls at the bottom of the screen to choose a source, stop the action, turn off the picture and sound, or turn the projector's power on or off.

A *Technical Specifications*

General

Type of display	Poly-silicon TFT active matrix
Lens	F=1.8 Focal length: 6.48 mm
Resolution	1280 × 800 pixels (WXGA)
Color reproduction	Full color, 16.77 million colors
Light output (brightness)	High mode: White light output 2000 lumens (ISO 21118 standard) Color light output 2000 lumens (ISO 21118 standard) Low mode: White light output 1600 lumens (ISO 21118 standard) Color light output 1600 lumens (ISO 21118 standard)
Contrast ratio	500:1
Image size	50 to 116 inches (1.27 to 2.95 m)
Projection distance	22 to 48 inches (0.56 to 1.22 m)
Projection methods	Front, rear, ceiling
Focus adjustment	Manual
Zoom adjustment	Digital
Internal sound system	10 W monaural
Optical aspect ratio	16:10 (horizontal:vertical)
Zoom ratio	1:1.35

Noise level 35 dB (High brightness mode)
28 dB (Low brightness mode)

Keystone correction angle $\pm 15^\circ$ vertical (maximum)

note

Lamp life results will vary depending upon mode selected, environmental conditions and usage. Lamp brightness decreases over time.

Projection Lamp

Power consumption 170 W UHE

Lamp life About 3000 hours (High brightness mode);
4000 hours (Low brightness mode)

Remote Control

Range 20 feet (6 m)

Batteries (2) Alkaline AA

Dimensions

Height 6.2 inches (157 mm)

Width 12.9 inches (327 mm)

Depth 10.7 inches (272 mm)

Weight 7.9 lb (3.6 kg)

Electrical

Rated frequency 50/60 Hz

Power supply 100 to 120 VAC, 2.8 A
200 to 240 VAC, 1.2 A

Power consumption Operating: 251 W
Standby: 4.2 W (network off)
4.9 W (network on)

Environmental

Temperature	Operating: 41 to 95 °F (5 to 35 °C) Storage: 14 to 140 °F (-10 to 60 °C)
Humidity	Operating: 20 to 80% RH, non-condensing Storage: 10 to 90% RH, non-condensing
Altitude	Up to 4,900 feet (1,500 m) Up to 7,500 feet (2,286 m) with High Altitude Mode enabled; see page 62

Safety and Approvals

United States	FCC Part15B Class B (DoC) UL60950-1
Canada	ICES-003 Class B CSA C22.2 No. 60950-1



Pixelworks™ DNX™ ICs are used in this projector.

Compatible Video Formats

The projector supports composite video, S-Video, component video, and RGB video, and it automatically senses the video format (HDTV, SDTV, NTSC, PAL, or SECAM).

The projector supports these international video standards:

Mode	Refresh Rate (Hz)
NTSC	60
NTSC 4:3	60
PAL	50
M-PAL	60
N-PAL	50
PAL60	60
SECAM	50
TV525i (480i)	60
TV625i (576i)	50
SDTV525p (480p)	60
SDTV625p (576p)	50
HDTV750p (720p)	60
HDTV750p (720p)	50
HDTV1125i (1080i)	60
HDTV1125i (1080i)	50

Compatible Computer Display Formats

You can connect the projector to a wide range of computers, including PCs, Macintoshes, notebooks, and high-end workstations such as the Sun® SPARCstation.™

Although images are displayed at the projector's native resolution of 1280 × 800 pixels, Epson's patented SizeWise chip supports computer display formats ranging from VGA through WSXGA+.

To project images output from a computer, the computer's external monitor signal must be set at a refresh rate (vertical frequency) that's compatible with the projector; see the following table for compatible formats. For best results, the computer's resolution should be set to match the projector's native resolution (1280 × 800). If this resolution isn't available, select one of the other compatible formats:

■ **Windows:**

Right-click the desktop, select **Properties**, click the **Settings** tab, and select a compatible resolution. (For a notebook displaying through an external monitor port, you'll need to click the **Advanced** button on the Settings tab, then adjust the resolution of the external monitor.)

■ **Mac OS X:**

From the Apple menu, select **System Preferences**, then click **Displays**. Make sure the **VGA Display** or **Color LCD** dialog box is selected, then click the **Display** tab and select a compatible resolution.

You may need to modify existing presentation files if you created them for a different resolution. See your software documentation for details.

The projector supports these monitor display formats:

Mode	Refresh rate (Hz)	Resolution
VGAEGA	70	640 × 350
VGA—60	60	640 × 480 (640 × 360*)
VESA—72	72	
VESA—75	75	
VESA—85	85	
VGA120	120	
SVGA—56	56	800 × 600 (800 × 450*)
SVGA—60	60	
SVGA—72	72	
SVGA—75	75	
SVGA—85	85	
SVGA—120	120	

Mode	Refresh rate (Hz)	Resolution
XGA—60 XGA—70 XGA—75 XGA—85 XGA—120	60 70 75 85 120	1024 × 768 (1024 × 576*)
SXGA1—70 SXGA1—75 SXGA1—85 SXGA1—100	70 75 85 100	1152 × 864
WXGA60-1	60	1280 × 768
WXGA60-2	60	1360 × 768
WXGA—60 WXGA—75 WXGA—85	60 75 85	1280 × 800
WXGA+	60 75 85	1440 × 900
WSXGA+**	60	1680 × 1050
SXGA2—60 SXGA2—75 SXGA2—85	60 75 85	1280 × 960
SXGA3—60 SXGA3—75 SXGA3—85	60 75 85	1280 × 1024
SXGA+60 SXGA+75 SXGA+85	60 75 85	1400 × 1050
UXGA60	60	1600 × 1200
iMAC VGA iMAC SVGA iMAC XGA MAC13 MAC16 MAC19 MAC19-60 MAC21	117 95 75 67 75 75 60 75	640 × 480 (640 × 360*) 800 × 600 (800 × 450*) 1024 × 768 (1024 × 576*) 640 × 480 832 × 624 1024 × 768 1024 × 768 1152 × 870

* Letterbox signal

** Available only when Resolution is set to Wide in the Signal menu.

B

Notices

This chapter includes safety instructions and other important information about your PowerLite projector.

Important Safety Instructions

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

- Do not place the projector on an unstable cart, stand, or table.
- Do not use the projector near water or sources of heat.
- Use the type of power source indicated on the projector. 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.
- Insert the projector's two-prong plug into a properly grounded outlet. Do not hold the plug with wet hands.
- Take the following precautions for the plug. Failure to comply with these precautions could result in sparks or fire: Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
- Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause 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 before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- 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 in a closed-in cabinet unless proper ventilation is provided.
- Never push objects of any kind through the cabinet slots. Never spill liquid of any kind into the projector.

- Except as specifically explained in this *User's Guide*, 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.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: When the power cord or plug is damaged or frayed. If liquid has been spilled into the projector, or if it has been exposed to rain or water. If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service. If it has been dropped or the housing has been damaged.
- (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.
- Unplug the projector during lightning storms or when it will not be used for extended periods.
- Do not place the projector and/or remote control on top of heat-producing equipment or in a hot location.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range of 41 to 95 °F (5 to 35 °C). Doing so may cause an unstable display and could lead to projector damage.
- 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.

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.* (provided in accordance with Proposition 65 in Cal. Health & Safety Code § 25249.5 et seq).

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 or television reception. 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

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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