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PROJECTOR OWNER'S MANUAL

Epson

PowerLite 810P

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EPSON® PowerLite® 600p/800p/810p 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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CPD-12788

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Welcome

The EPSON® PowerLite® 600p, 800p, and 810p are portable projectors that weigh less than 10 pounds and offer up to 2000 ANSI lumens of brightness. From classrooms to auditoriums, your full-color presentations and videos will be bright and visible even in ordinary room lighting.

Images are displayed at a resolution of 1024 × 768 pixels (PowerLite 800p and 810p) or 800 × 600 pixels (PowerLite 600p). The 0.9-inch LCD provides a high contrast ratio for incredibly vivid images and clear text. Improved color processing technology reduces "video noise" for rich, saturated images, while 5-watt amplified sound and whisper-quiet operation contribute to theater-quality video.

With EPSON's patented SizeWise™ chip, the projector supports computer displays ranging from VGA through UXGA (or SXGA on the PowerLite 600p). The projector also supports the new Digital Visual Interface (DVI) format.

You can connect the projector to a wide range of computers, including IBM® compatible PCs and laptops, Apple® Macintosh,® Power Macintosh™ series (including G3 and G4 systems), PowerBook® computers, many iMac™ and iBook™ series systems, and high-end workstations such as the Sun® SPARCstation.™

You can use any of the following video sources: VCR, DVD player, camcorder, digital camera, or laser disc player. The projector supports composite video, S-Video, and component video, and it automatically senses the video format (HDTV, NTSC, PAL, or SECAM).

Support for USB audio and new horizontal keystone control contribute to ease of setup in a wide variety of environments.

Getting the Most from Your Projector

note
You can connect a maximum of four sources at the same time.

Your EPSON PowerLite projector is a highly versatile presentation tool. You can connect it to one or two computer sources and up to three video sources and easily switch between them. You can also include sound for up to three of the sources.

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 to a PC laptop or Macintosh PowerBook, see page 12. To connect to a desktop computer, a workstation, a computer that outputs video in Digital Visual Interface (DVI) format, or more than one computer, see Appendix A.

- Connecting to video sources
  You can connect a DVD player, VCR, camcorder, laser disc player, digital camera, or any other video source to your projector. You can connect up to three video sources at the same time (with or without a computer) and easily switch between them. See page 15 for instructions.

- Using the remote control
  The remote control lets you switch from one computer or video source to another, with access to picture-in-picture, pointer, zoom, and many other projector features. For details, see Chapter 3.

  By connecting an additional cable, you can also use the remote control as a wireless mouse. This lets you click through slideshow-style presentations (such as PowerPoint®) from up to 30 feet away. For more information, see page 39.

- Including sound in your presentation
  If your presentation includes sound, you can connect the USB cable or an optional audio cable to use the projector's built-in speakers. For details, see page 14 (for laptops) or Appendix A (for other systems).

If you're permanently installing the projector, you may wish to connect external speakers or a public address system to the projector's Audio Out port; see page 83.

Using Your Documentation

To connect the projector to your laptop and get your presentation up and running fast, see the *Quick Setup* sheet in your *Owner's Kit*.

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.

Reading This Manual Online

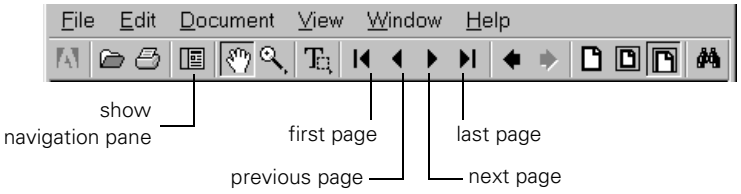
Your PowerLite CD-ROM includes an electronic copy of this manual. You may find it convenient to copy it onto your laptop's hard drive so it's always with you—for example, when taking your presentation on the road.

To view your electronic manual, you need to use Adobe® Acrobat® Reader. Just insert the CD-ROM in your CD-ROM drive, select the Install/View User's Guide button and click Install User's Guide or View User's Guide.

note

If you do not have Acrobat Reader, you can install it from the CD-ROM.

When you open the manual, you see this toolbar:



note
If the hand changes to an index finger while holding the mouse pointer over text, you can click to jump to a related topic.

You can move quickly to the topic of your choice by clicking in the table of contents on the left side of the screen. You can also use the arrow buttons in the toolbar or on the vertical scroll bar on the right side of the screen to move through the manual.

For more information, see your Acrobat Reader online guide.

Getting More Information

Need tips on giving presentations? Quick steps for setting up your projector? Here's where you can look for help:

- presentersonline.com
  Includes a library of articles covering presentation tips, tricks, and technology. The site provides templates, clip art and sound clips, as well as Presenters Services to use on the road. Even more resources and services are available if you register to join the Presenters Club®—and it's free.
- *Quick Setup* sheet
  Gives you all the instructions you need to get your projector set up and connected to a laptop or PowerBook computer.
- *Owner's Kit* folder
  Includes your *Quick Setup* sheet, warranty brochures, CD-ROM, and EPSON PrivateLine® Support card. Store this *User's Guide* in the folder and keep the folder with your projector at all times.
- Built-in help system
  Provides assistance for common problems. Available from the Help button on the projector or the remote control. See page 68 for details.
- support.epson.com
  Download FAQs and e-mail your questions to EPSON support.
- CD-ROM
  Your *Owner's Kit* includes the PowerLite 600p/800p/810p CD-ROM, which lets you register electronically and includes an electronic copy of this book as well as a link to *Presenters Online*.

note
You don't need to install any software to use your projector.

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 the card in your *Owner's Kit*. Or take advantage of EPSON's automated support services 24 hours a day. See page 79 for more information.

Registration and Warranty

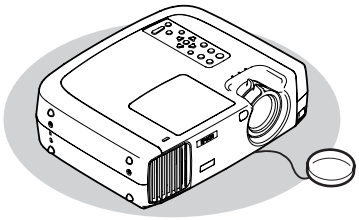
Your projector comes with a basic carry-in warranty (on page 100) as well as an international warranty that let you project with confidence anywhere in the world. For details, see the warranty brochure included in your *Owner's Kit*.

In addition, for customers who register their projector, EPSON offers free Extra Care℠ Road Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, EPSON will ship you a replacement unit anywhere in the United States or Canada, usually via overnight delivery. See the brochure in your *Owner's Kit* for details.

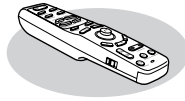
To register, simply insert the PowerLite 600p/800p/800p CD-ROM that came with your projector and select Register Online. Registering also lets you receive special updates on new accessories, products, and services. You can register through the Internet, by e-mail or 800-number modem connection, or by printing out the form to fax or mail.

Unpacking the Projector

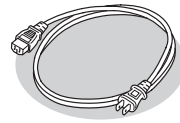
After unpacking the projector, make sure you have all the parts shown below:



projector



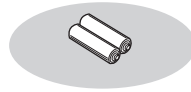
remote control



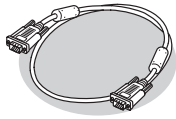
power cord



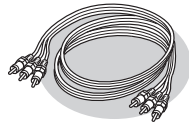
CD-ROM (not needed to use the projector)



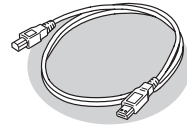
batteries



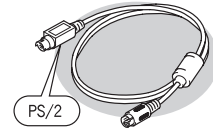
computer cable



A/V cable



USB cable



PS/2 mouse cable

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

If you are moving the projector by hand, use a carrying case (such as the optional cases available from EPSON). See page 8 for more information about cases.

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.)
- To receive a component video signal from a VCR or other video device, you need a VGA-to-component video cable. You can purchase this from EPSON; see page 8.
- To connect two computers to the projector at the same time, you need a DVI/analog interface cable. You can purchase this from EPSON; see page 8.
- Some older PowerBooks and Macintosh desktop models may need the Macintosh adapter set shown on page 89 (available from EPSON; see page 8). Older iMac systems may need a special adapter to provide a VGA output port; see your computer dealer.
- Some systems may need an additional cable to use the remote control as a wireless mouse. If your Macintosh doesn't have a USB port, you'll need a Macintosh mouse cable. If your PC doesn't have a USB or PS/2 port, you'll need a PC serial mouse cable. See your projector dealer to obtain the correct cable.
- To take advantage of the projector's Digital Visual Interface, you need a DVI cable, and your computer must be capable of producing video signals in DVI format (for details, see page 93). You can purchase this cable from EPSON; see page 8.
- To recieve an audio signal, you may need a stereo mini-jack cable, available from most electronics dealers.

Optional Accessories

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

Product	Product number
Replacement lamp and air filter	ELPLP15
Customized carrying cases: Samsonite® wheeled soft case ATA molded hard shell case ATA shipping case Soft shoulder bag	 ELPKS35 ELPKS40 ELPKS41 ELPKS13
Ceiling mount	ELPMB36
Kensington security lock	ELPSL01
Projection screens: 50-inch portable screen 60-inch Insta Theatre screen 80-inch Insta Theatre screen	 ELPSC06 ELPSC07 ELPSC08
Wireless microphone and two satellite speakers	ELPCVS1
Auxiliary audio system	ELPPAS1
Remote control receiver (plugs into projector to extend range of remote control)	ELPST02
Remote control receiver kit (includes standard receiver and clip-on receiver for attachment directly to remote control)	ELPST04
Macintosh adapter set (includes monitor adapter and desktop adapter)	ELPAP01
Component video cable (VGA to component video)	ELPKC19
Digital video cables: DVI to DVI, 10 feet (3 meters) DVI to DFP, 10 feet (3 meters) DVI to analog video, 10 feet (3 meters)	 ELPKC20 ELPKC21 ELPKC25

You can purchase these accessories from your dealer, by calling EPSON at (800) 873-7766, or by visiting the EPSON Store℠ at www.epsonstore.com (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

1 Setting Up the Projector

This chapter tells you how to set up the projector for a laptop computer or video presentation. If you need to set up the projector for a permanent installation or connect it to a desktop or workstation computer, see Appendix A.

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

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

Positioning the Projector

Before connecting the projector, you need to decide where to place it. The location you choose depends on the size of the room and what you are projecting.

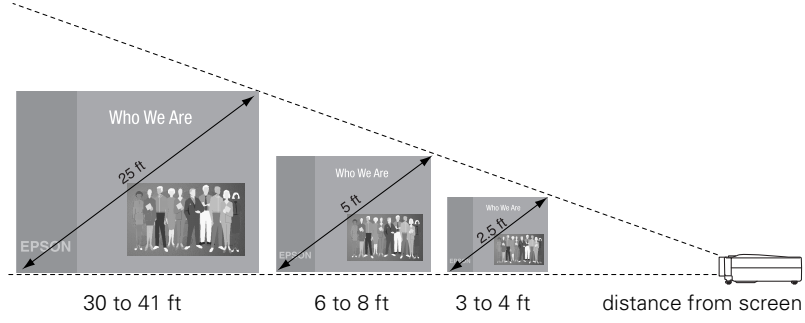
- Place the projector on a sturdy, level surface, approximately 2.85 to 41 feet from the screen.
- Make sure there is plenty of space for ventilation around and under the projector.
- Make sure the projector is within 10 feet of a grounded electrical outlet or extension cord, and within 5 feet of your computer and/or video source.
- Place the projector directly in front of the center of the screen, facing it toward the screen squarely.

note

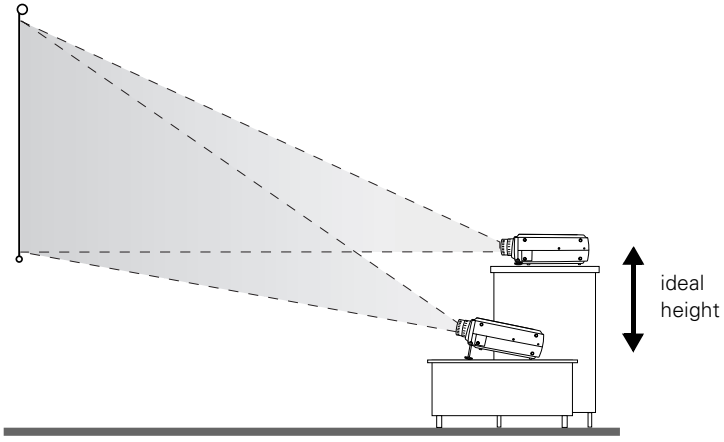
It's easier to position the projector when the screen is directly in front of the room. However, if you need to place it off-center, you can use the keystone correction feature to maintain a square image. See page 26 for more information.

Most presenters find it convenient to place the projector in front of the audience, leaving as much space as possible between the projector and the screen to get a good-sized image. This lets the presenter stand in the front of the room, face the audience, and remain close enough to the equipment to be able to control it.

Use the figure below as a guideline to help you determine how far from the screen to place the projector. Image size generally increases with distance, but may vary depending on how you position the zoom ring and whether you have adjusted the image size with other settings.



If you place the projector below the level of the screen, you'll have to tilt it up by extending the feet as shown. Tilting the projector upward causes the image to lose its square shape, but you can correct the distortion by pressing the Keystone button as described in the next chapter.



If you place the projector level with the bottom of the screen, the image will be square and you won't have to adjust it. If you place the projector higher than the bottom of the screen, the image will still be square, but you won't be able to fill the whole screen with the image.

note

After positioning the projector, you may want to connect a Kensington MicroSaver® anti-theft device to the lock port on the projector's left side. You can purchase this from EPSON; see "Optional Accessories" on page 8.

Connecting to a Laptop Computer

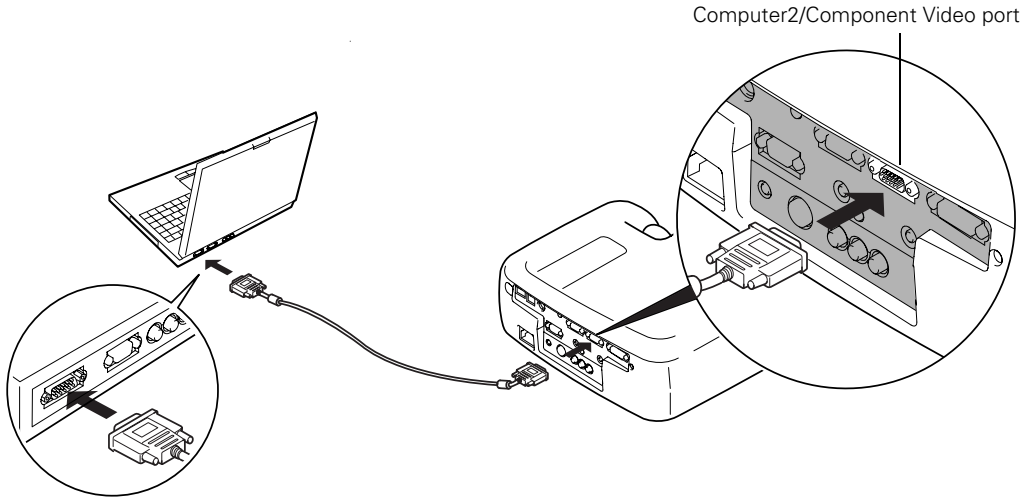
note
To connect to desktops and other computer systems, see Appendix A. If you have an iBook with an RCA video-out port, follow the instructions for connecting to a video device on page 16.

You can connect the PowerLite projector to any computer that has a standard video output (monitor) port, including PC notebook and laptop computers, Macintosh PowerBooks, and hand-held devices.

Connecting the Computer Cable

Before you start, make sure your computer and the projector are turned off.

1. Connect one end of the computer cable to the projector's Computer2/Component Video port.



note
Laptop configurations vary. See your computer manual for the location of the ports needed to connect your projector.

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

   If you're using a PowerBook and you can't connect the cable, you may need to use the Macintosh desktop adapter as shown on page 89 (available from EPSON; see page 8).

3. 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 20 for instructions.

Connecting the Cable for Remote Mouse Control

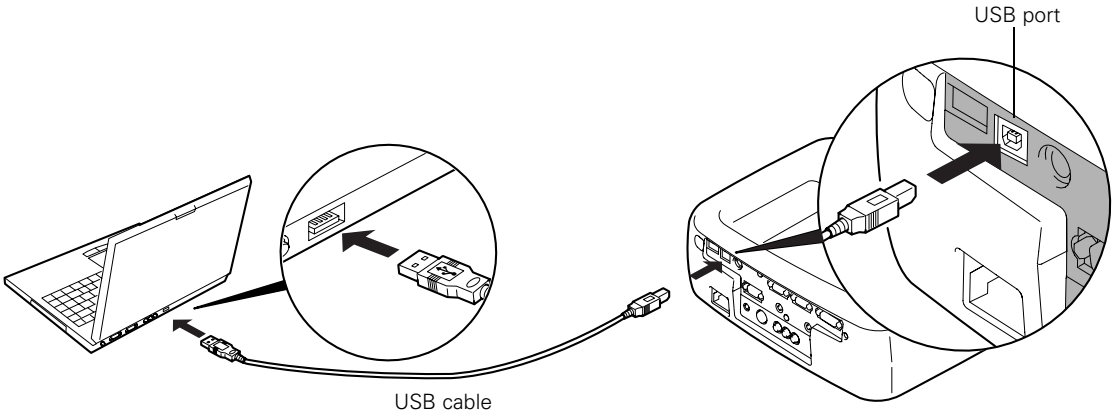
Using the remote control as a wireless mouse lets you control your computer and click through slideshow-style presentations, such as PowerPoint, from up to 30 feet away (for details, see page 39). This gives you more flexibility in delivering your presentation, since you won't need to stand near your computer.

The USB cable also provides audio support. If your presentation includes sound, you can play it through the projector's speakers by connecting the USB cable.

1. Locate the cable you need, depending on whether your laptop has a round PS/2 mouse port or a flat USB mouse port.
2. Connect one end of the cable to the projector's USB or Mouse port.

note

If you're using a PowerBook that has a round mouse port, you'll need a Macintosh mouse cable. If you have a PC laptop with a serial mouse port, you'll need a serial mouse cable. See your projector dealer to obtain the correct cable.



3. Connect the other end of the cable to the external mouse port or USB port on your laptop.
4. If necessary, configure your laptop to work with an external mouse.

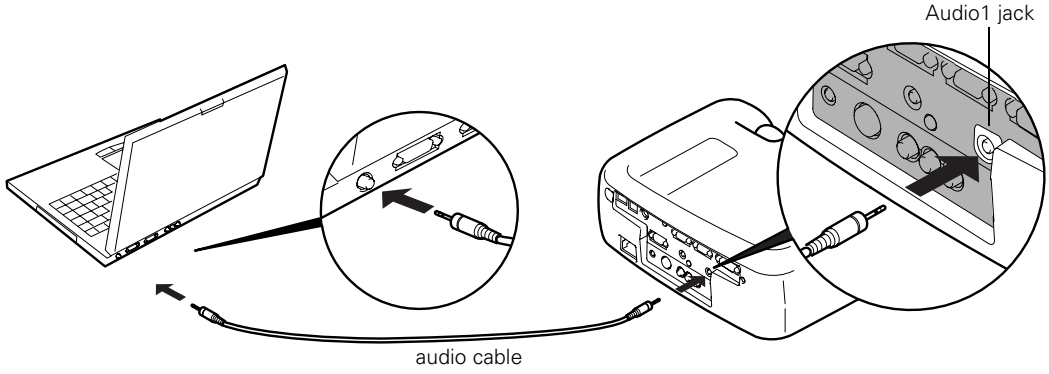
If you don't need to make any other connections, you can plug in your projector and turn it on. See page 20 for instructions.

Amplifying Computer Audio

note
If you connected the USB cable, you may not need a separate audio cable to amplify audio from your computer.

Your laptop probably has its own sound system; however, it may not be adequate for your presentation. If you need more volume or better sound quality, you can connect a stereo, mini-jack audio cable (not included).

1. Connect one end of the audio cable to the Audio1 jack on the projector.



2. Connect the other end of the audio cable to your laptop's headphone jack or audio-out jack. (Jack locations vary; see your computer manual if you're not sure which jack to use.)

If you don't need to make any other connections, you can plug in your projector and turn it on. See page 20 for instructions.

Connecting to Video Sources

You can connect a DVD player, VCR, camcorder, laser disc player, digital camera, or any other compatible video source to your projector.

The projector supports HDTV, NTSC, PAL, and SECAM, and automatically detects the video format.

The projector can receive composite video, S-Video, and component video. You can connect one or more of these video sources at the same time.

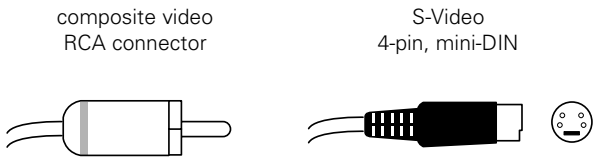
The type of cable you use depends on whether you have composite video, S-Video, or component video.

- For composite video, use the RCA A/V cable included with the projector.
- For S-Video, use the S-Video cable supplied with your video device or obtain one from your electronics dealer.
- For component video, you'll need a VGA-to-component video cable. You can purchase this from EPSON; see page 8. Component video connectors are usually colored green, blue, and red.

note

The projector does not support TV antenna cable F-connectors.

See the following illustration if you're not sure which type of connectors you have.

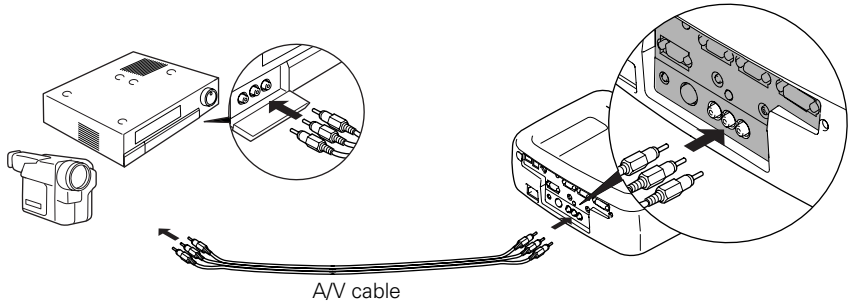


Follow the instructions below for your type of connection.

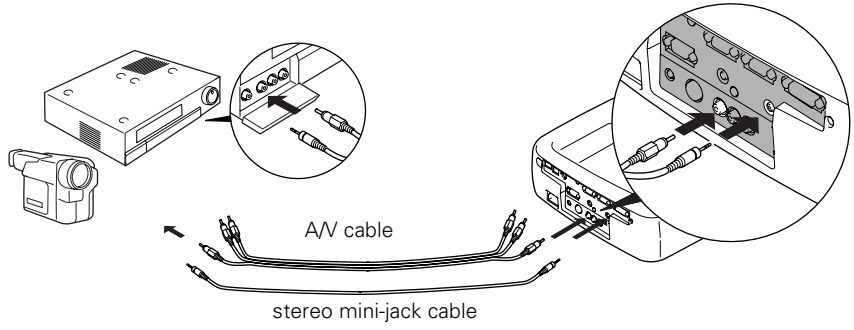
Connecting the RCA A/V Cable

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

1. Connect the yellow plug on one end of the A/V cable to the projector's yellow Video jack.
2. Connect the other yellow plug to the video-out jack on your video source.
3. Connect the red and white plugs on the A/V cable to the projector's Audio L (white) and R (red) jacks.
4. Connect the red and white plugs on the other end of the cable to the corresponding audio output jacks on your video source.



If your video source has a stereo mini-jack instead of RCA jacks, you can use a stereo mini-jack cable (not included). Connect it to the Audio 1 jack on the projector.

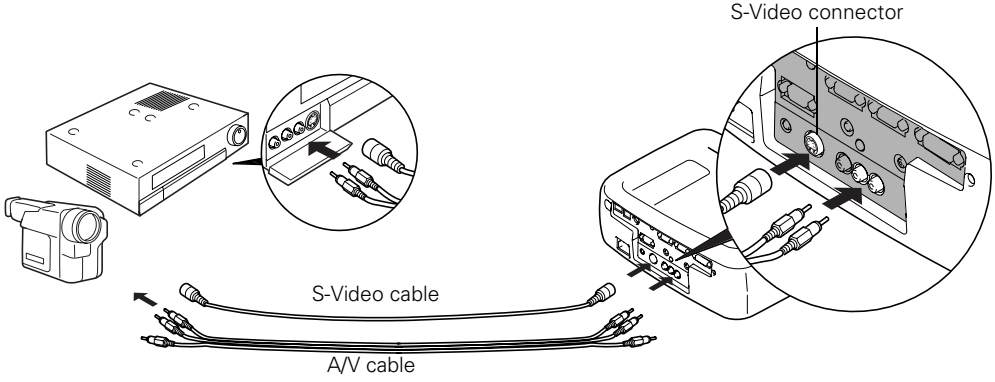


Connecting an S-Video Cable

If your video source has an S-Video jack, you can use it to project a higher quality video image. However, you'll need an S-Video cable, which may be included with your video source, or can be purchased separately.

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

1. Insert one end of an S-Video cable into the projector's S-Video connector.
2. Insert the other end into the S-Video output port of your video source.
3. If your video source has RCA audio, you can use the A/V cable to connect to the projector's Audio L (white) and R (red) jacks.



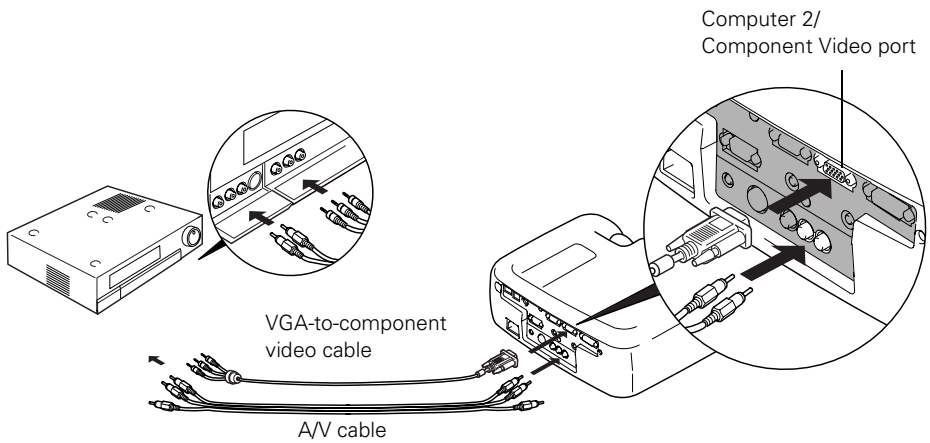
If your video source has a stereo mini-jack instead of RCA jacks, you can use a stereo mini-jack cable (not included). Connect it to the Audio 1 jack on the projector.

Connecting a Component Video Cable

If your video source has component (blue, green, and red) connectors, you can use them to project a higher quality video image. However, you'll need a VGA-to-component video cable, which is available from EPSON; see page 8.

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

1. Connect the VGA end of the cable to the projector's Computer 2/Component Video port.
2. Connect the red, green, and blue leads at the opposite end of the cable to the corresponding connectors on your video source.
3. If your video source has RCA audio, you can use the A/V cable to connect to the projector's Audio L (white) and R (red) jacks.



If your video source has a stereo mini-jack instead of RCA jacks, you can use a stereo mini-jack cable (not included). Connect it to the Audio 1 jack on the projector.

4. If the image doesn't display properly, you may need to change the Comp2/YCbCr option in the projector's Setting menu (see page 54).

2 Using the Projector

Once you've connected the projector to your computer or other equipment (as described in Chapter 1 or Appendix A), you're ready to turn on the projector, 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
- Controlling the projector
- Shutting down the projector

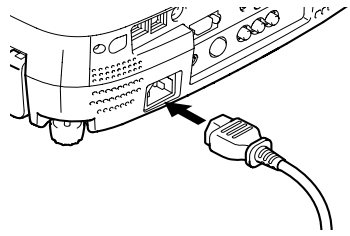
Turning On Your Equipment

Make sure your projector and other equipment are set up and connected correctly, as described in Chapter 1 or Appendix A. Then turn on your projector, as described below, followed by any equipment you've connected to it. You can turn on your computer and video equipment in any order, but if you have more than one computer or video source connected, you may have to switch to the desired source as described on page 28.

Turning On the Projector

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

1. If you're projecting video, first plug in and turn on your VCR, DVD player, or other video source. (If you're projecting from a computer, go to step 2.)
2. Connect one end of the power cord to the power inlet on the back of the projector.

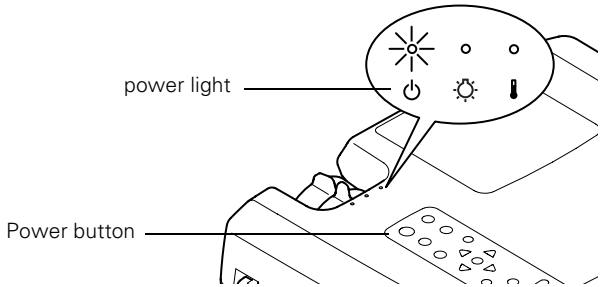


3. Connect the other end to a grounded electrical outlet.

   The ⏻ power light on top of the projector turns orange, indicating that the projector is receiving power but not yet turned on.
4. Remove the lens cap.

5. Press the red Power button on top of the projector.

   The power light flashes green as the projector warms up, and the projection lamp comes on in about 30 seconds. The power light stays green, and you may see a blue screen with the No Signal message displayed. This is normal.



warning

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

6. Do one of the following:

   - If you're projecting from a computer, turn on or restart your computer. In a few moments, you should see your computer display projected.

     If you see a New Hardware Wizard message saying that it has found a plug-and-play monitor, click Cancel. If you see a New Hardware Wizard message about USB audio, click Next and follow the instructions on the screen. (Windows only)

   - If you're projecting a video, press the Play button on your video source.

   If a projected image fails to appear, see the next section for help.

Once you see your image, turn to page 24 for instructions on focusing and making other image adjustments.

When you're done with your presentation, shut down the projector as described on page 29. Shutting down the projector correctly prevents premature lamp failure and possible damage to the projector from overheating.

What To Do If You See a Blank Screen



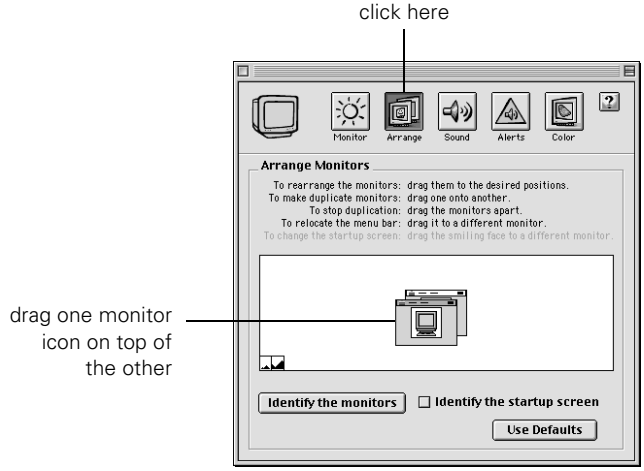
If you see a blank screen or a blue screen with the No Signal message after turning on your computer or video source, try the following:

- Make sure the cables are connected correctly, as described on page 12 (for laptops) or in Appendix A (for other systems).
- Make sure the power light is green and not flashing and the lens cover is off.
- Try restarting your computer.
- If you've connected more than one computer and/or video source, you may need to press the Computer/YCbCr or Video button on the projector's control panel to select the correct source. (Allow a few seconds for the projector to sync up after pressing the button.)

If you're using a PowerBook:

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

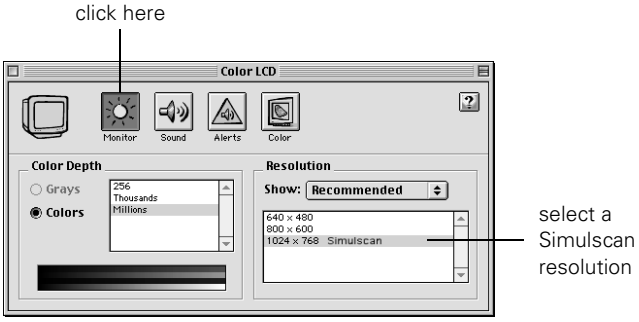
1. From the Apple menu, select Control Panels, then click Monitors and Sound.
2. Click the Arrange icon.



3. Drag one monitor icon on top of the other.

If the Arrange option isn't available, you may need to select one of the Simulscan resolution settings:

1. Click the Monitor icon.



2. Select a Simulscan resolution as shown. (Allow a few seconds for the projector to sync up after making the selection.)

If you're using a PC laptop:

- Press the function key that lets you display on an external monitor. It's often labelled with an icon such as ⌨/🖵 but it may also be labelled CRT/LCD. You may have to hold down the Fn key while pressing it. Check your laptop's manual or online help for details.

  On most systems, the ⌨/🖵 key lets you toggle between the LCD screen and the projector, or display on both at the same time. Allow a few seconds for the projector to sync up after pressing it.

- Depending on your computer's video card, you might need to use the Display utility in the Control Panel to make sure that both the LCD screen and external monitor port are enabled. See your computer's documentation or online help for details.

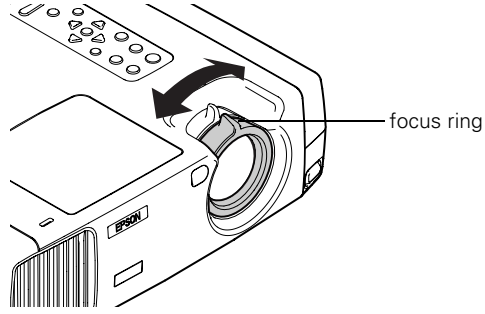
Adjusting the Image

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

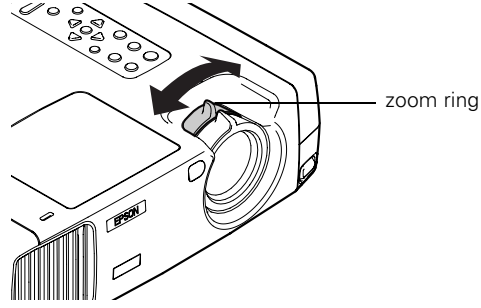
- To focus or zoom your image, see below.
- If the image is too high or too low, you can reposition it. See page 25.
- If the image isn't square, see page 26.
- If only part of a computer image is displayed, you may need to press the Resize button. See page 27 for more information.
- If the projected image is flickering or "noisy," see page 27.

Focusing and Zooming Your Image

Rotate the focus ring to sharpen the image.



Rotate the zoom ring to reduce or enlarge the image.

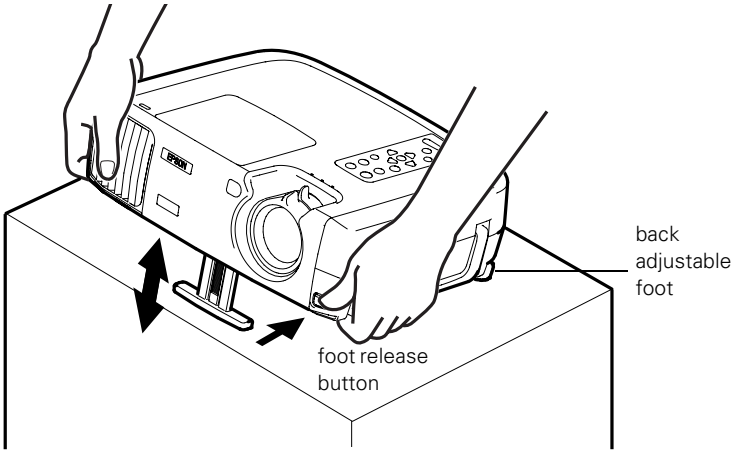


If the image still isn't large enough, you may need to move the projector farther away from the screen. You can also use the E-Zoom button on the remote control to zoom in on a portion of the image. See page 35 for instructions.

Adjusting the Height of Your Image

If the image is too low, you can raise it by extending the projector's foot.

1. Stand behind the projector. Press the foot release button and lift the front of the projector. This unlocks the foot.



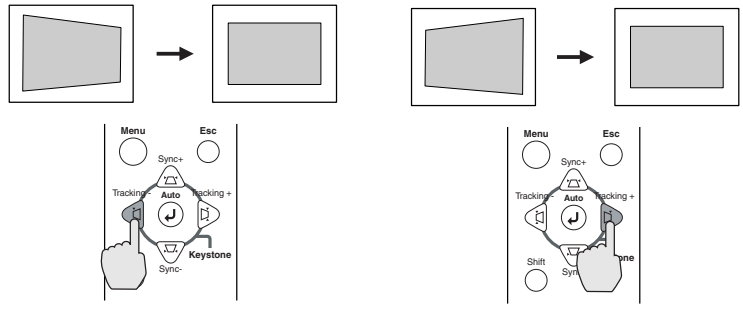
2. Once the image is positioned where you want it, release the button to lock the foot in position.
3. If you need to straighten the image, rotate the round adjustable foot at the back of the projector.

If the image is no longer square after raising it, see the next section.

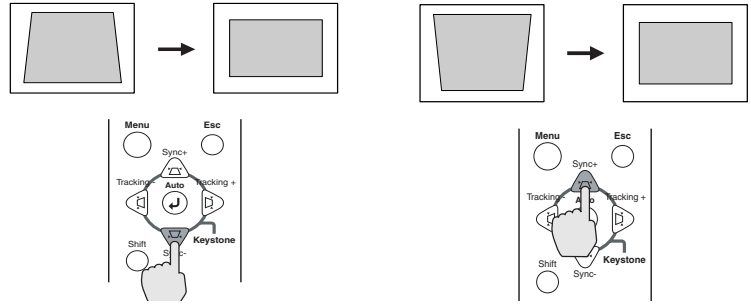
Adjusting the Image Shape

If the projected image isn't square or has a "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 you still can't get a square image, press the left or right Keystone button on the projector's control panel:



- If your image looks like  or , press the top or bottom Keystone button to correct the shape of the image. After correction, your image will be slightly smaller.

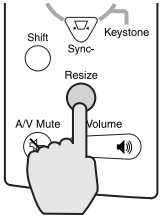


You can also perform electronic keystone correction using the projector's Setting menu. See page 53.

Resizing the Image

Some computer images need to be resized to display in the projector's native resolution. If only part of your computer image is displayed, you can correct it with the Resize button.

- Press the Resize button on the projector's control panel (or on the remote control). The screen image is automatically compressed.
- Continue pressing the Resize button to pan around the screen in the original resolution.

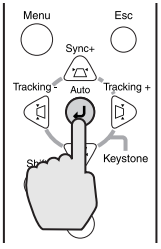


Resize button

If you're projecting from video equipment, pressing the Resize button switches the aspect ratio between 4:3 and 16:9. If you've zoomed in on your image (using the E-Zoom button on the remote), you can press the Resize button to return it to the original display size.

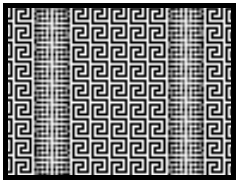
Adjusting the Tracking and Synchronization

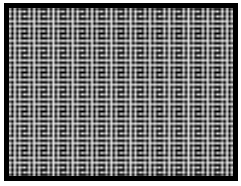
If you're projecting from a computer and displaying an image that contains a lot of detail (such as the text of a letter), you may notice one or more vertical stripes or bands, or some of the characters may look heavy or blurred. You can increase the clarity by pressing the ↵ Auto button on the projector's control panel (or the Auto button on the remote control). This resets the projector's tracking, sync, and position settings.



Auto button

If further adjustment is needed, you can correct the image manually using the Tracking and Sync buttons as described on page 76.

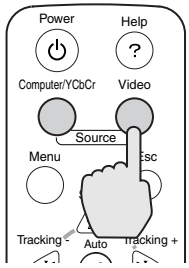

incorrect tracking


incorrect sync

Controlling the Projector

While giving your presentation, you may want to switch between picture sources, adjust the volume, or temporarily turn off the picture and sound. Follow the instructions below to access theses features from your projector's control panel. You can also access these features, plus many others, using the remote control as described in Chapter 3.

Switching Between Picture Sources

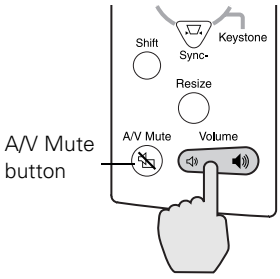


If your projector is connected to more than one computer and/or video source, you can use the buttons on the control panel (or remote control) to switch between the different sources.

On the projector's control panel, press the Computer/YCbCr button to switch between computer sources and component video. Press the Video button to switch between standard (composite) video and S-Video.

After you select a source, the screen goes dark for a moment before the image appears.

Adjusting the Volume



If your presentation includes sound, you can adjust the volume from the projector's control panel. Press the left or right side of the Volume button.

Turning Off the Picture and Sound

You can use the A/V Mute button on the control panel to darken your screen and turn off the sound. 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 picture and sound back on, press the button again.

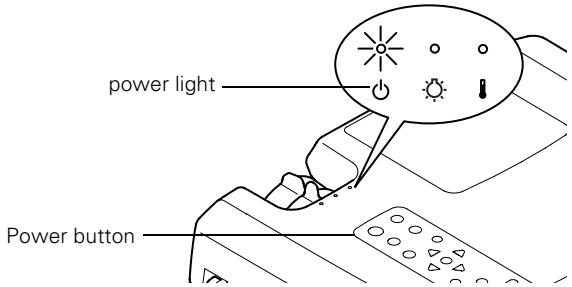
note

You can also have an image, such as a company logo, display on the screen whenever you press the A/V Mute *button. See page 51 for instructions.*

Shutting Down the Projector

When you've finished using the projector, follow the recommended procedure to shut it down. This extends the life of the lamp and protects the projector from possible overheating.

1. If you've connected a computer or laptop and it's displaying only through the projector (the computer's monitor is disconnected or turned off), shut down the computer 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 red Power button on the projector or remote control.



You see a confirmation message. (If you don't want to turn it off, press any other button.)



3. Press the Power button again. The power light flashes orange for about a minute as the projector cools down. When the projector has cooled, the orange light stays on and the exhaust fan shuts off.

   If you want to turn the projector on again, wait until the orange light stops flashing. Then press the Power button.
4. If you extended the front foot, press the foot adjust button to retract it.
5. Replace the lens cap and unplug the power cord.
6. If you're using a VCR or other video source, turn it off after you turn off the projector.
7. Disconnect all equipment, and store the projector in a protective case.

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.*

caution

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

3 Using the Remote Control

The remote control lets you access your projector's features from anywhere in the room—up to 30 feet away. You can use it to turn the projector on and off, zoom in on a portion of your image, and highlight your presentation.

If you're using a computer and you've connected the mouse cable (as described in Chapter 1 or Appendix A), you can use the remote control as a wireless mouse.

This chapter covers the following information:

- Turning on and using the remote control
- Controlling the picture and sound
- Highlighting your presentation
- Using the remote control as a wireless mouse

Turning On and Using the Remote Control

Before using the remote control, you need to install its batteries and turn it on as described below.

caution

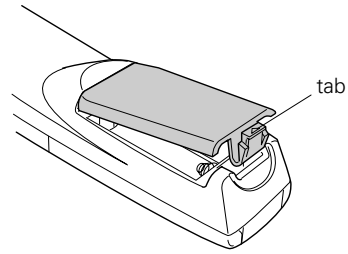
When replacing batteries, take the following precautions:

- *Don't mix old and new batteries.*
- *Replace batteries as soon as they run out. If the batteries leak, 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 batteries if you won't be using the projector for a long period of time.*

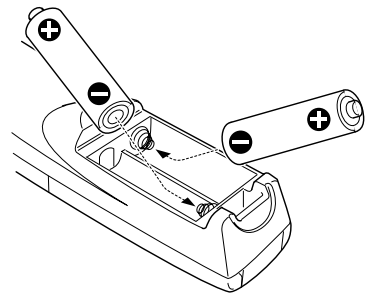
Installing Batteries

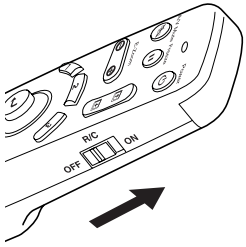
Follow these steps to install or replace the batteries:

1. Press the tab to release the battery compartment cover.



2. Remove the cover and insert the two AA batteries included with the projector as shown.
3. Replace the battery compartment cover.



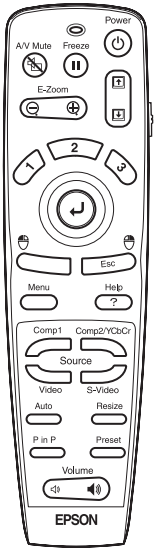


Turning On the Remote Control

Make sure batteries are installed. Then push up the on/off switch on the side of the remote control to turn it on.

Turn off the remote control before transporting it or storing it in a projector case. This prevents the batteries from discharging if something presses against one of the buttons.

Using the Remote Control



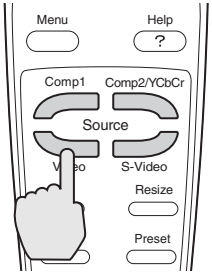
When using the remote control, stand within 30 feet of the projector. Point the remote control either at the front or back of the projector or at the screen (the projector's front sensor can detect signals bounced off the screen).

- Press the button for the function you want to use. See the following pages for instructions.
- For some functions, you need to use the ↵ button like a mouse to navigate on the screen. Press the edge of the button with your thumb—or grasp it between your thumb and finger and tilt it in the direction you want to move.

Controlling the Picture and Sound

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

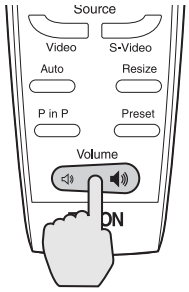
Switching Between Picture Sources



If you've connected your projector to a computer and/or video sources, you can use the buttons on the remote control to switch between the different sources.

- Press the Comp2/YCbCr button to select a computer or video source connected to the Computer 2/Component Video port on the projector.
- Press the Comp 1 button to select a computer connected to the DVI Computer 1 port on the projector.
- Press the Video button to select a composite video source.
- Press the S-Video button to select an S-video source.

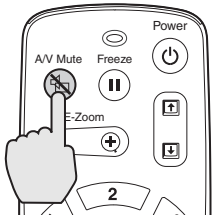
After you select a source, the screen goes dark for a moment before the image appears.



Adjusting the Volume

If you've connected an audio source to the projector, you can adjust the sound that's output through the projector's speakers.

- To increase the volume, press on the right side of the Volume button.
- To reduce the volume, press on the left side of the Volume button.

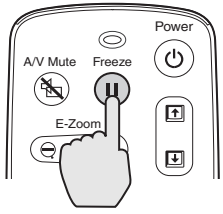


Turning Off the Picture and Sound

You can use 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, press the A/V Mute button. The screen goes dark.
- To turn the image back on, press the button again.

You can also have an image, such as a company logo, display on the screen whenever you press the A/V Mute button. See page 51 for instructions.

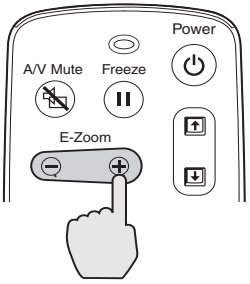


Stopping Action

You can use the remote control to stop the action in your video or computer image.

- Press the Freeze button to stop the action and keep the current image on the screen. The sound will continue.
- Press the Freeze button again to re-start it.

Zooming Your Image



You can zoom in on a portion of the image using the E-Zoom button on the remote control.

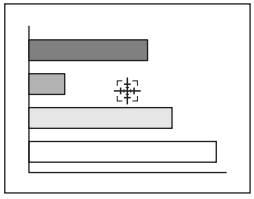
1. Press the E-Zoom button.

   A crosshair indicating the center of the zoom-in area appears on the screen.

2. Use the ↵ button to move the crosshair where you want it.

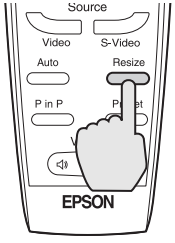
3. Press the right side of the E-Zoom button to enlarge the selected area.

   - Press the button repeatedly to enlarge it up to four times in 25 steps.
   - Press and hold the button to zoom in to the size you want.
   - You can use the ↵ button to scroll around the image.



4. Press the left side of the E-Zoom button to zoom out. You can also press the Resize or Esc button to return to the original size.

Resizing the Image



Some computer images need to be resized to display in the projector's native format—1024 × 768 pixels. If only part of your computer image is displayed, you can correct it with the Resize button.

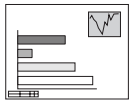
- Press the Resize button on the remote control (or on the projector's control panel). The screen image is automatically compressed.
- Continue pressing the Resize button to pan around the screen in the original resolution.

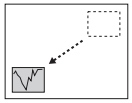
If you're projecting from video equipment, pressing the Resize button switches the aspect ratio between 4:3 and 16:9. If you've zoomed in on your image (using the E-Zoom button on the remote), you can press the Resize button to return it to the original display size.

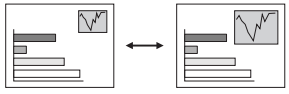
Displaying Picture-in-Picture Video

You can open a small video window on your computer image, and view a video at the same time as your computer presentation. If you're using component video, you can display a second video (from a composite or S-video source) in the window.

First make sure you have connected your VCR or other video sources as described in Chapter 1. If you're using S-video, you need to select it in the P in P menu option as described on page 53.







1. Press the P in P button on the remote control. The screen may go dark for a moment, and then your video image appears in a small window on the screen. A menu appears in the lower left corner of the screen, describing how to move and resize the image.
2. Use the ↵ button to reposition the video window on the screen. You can use the E-Zoom button to enlarge or reduce the video window.
3. When the window is located and sized the way you want, press the ↵ button. The menu disappears, and your video plays on the screen.



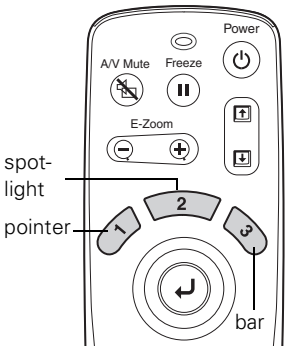
4. When you're finished viewing the picture-in-picture, press the P in P button again. The video window disappears.

Highlighting Your Presentation

You can highlight areas on the screen using the numbered buttons on the remote control. You can use these "special effects" features to annotate your presentation slides or call attention to your most important points. The following three highlighting tools are available:

- Pointer or cursor stamp (button 1)
- Spotlight (button 2)
- Bar (button 3)

You can customize the highlighting tools through the Effect menu. See page 50 for instructions.



Using the Pointer

You can choose from three types of pointers and place them anywhere on your screen.

1. To activate the pointer tool, press button 1 on the remote control. A pointing hand appears in the center of the screen. To change it to an arrow, press 1 again. Press 1 a third time to see a different arrow.
2. Press the side of the ↵ button (or grasp it between your thumb and finger) to move the arrow wherever you want it.
3. To "paste" the pointer on the screen, press down in the center of the ↵ button. You can then continue to work with another pointer, moving it around the screen or pasting it wherever you want.
4. To erase the pointer(s) pasted on the screen and cancel the effect, press Esc.

note

You can use the projector's Effect menu to select different pointers. See page 50.

Spotlighting Your Image

With the Spotlight tool, you can highlight part of the screen.

1. To activate the spotlight tool, press button 2 on the remote control. A square spotlight appears on the image.

   You can continue pressing button 3 to switch between three spotlight sizes.

2. Use the ↵ button to move the spotlight where you want it.
3. To remove the spotlight, press Esc.

You can change the default size of the spotlight using the Effect menu; see page 50.

Using Horizontal and Vertical Highlights

With the bar tool, you can draw bold horizontal or vertical lines on the screen to underline or highlight your presentation points. You can choose from three types of bars.

note

You can change the color and width of the bars using the Effect menu. See page 50.

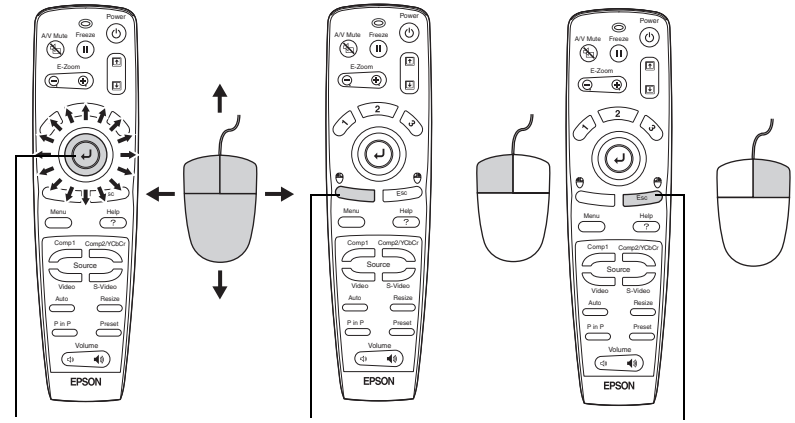
1. To activate the bar tool, press button 3 on the remote control. A horizontal bar appears across the screen. If you want a vertical bar, press 3 again. If you want to try another horizontal bar, press 3 again.
2. Use the ↵ button to move the bar up and down the screen (or left and right if you are using the vertical bar).
3. To cancel the bar drawing feature, press Esc.

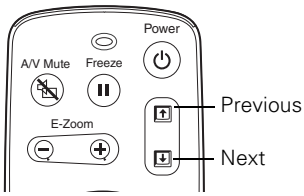
Using the Remote Control as a Wireless Mouse

When you use the remote control as a wireless mouse, you can control your computer or click through slideshow-style presentations (such as PowerPoint) from up to 30 feet away. This gives you more flexibility, since you won't need to stand near your computer to change slides, for example.

To control your computer with the remote, make sure you have connected the mouse cable between the projector and your computer as described on page 13 (for laptops) or in Appendix A (for other systems).

- To move the mouse pointer on the screen, aim the remote at the screen and press on the edge of the ↵ button with your thumb—or grasp it between your thumb and finger and tilt it in the direction you want to move. This button works like the mouse button on many laptop keyboards.
- To click (or left-click), press the left mouse button below the ↵ button. Or, press down on the center of the ↵ button. This changes slides in a PowerPoint presentation in Slide Show mode.
- To right-click, press the Esc button.





- To double-click, press down twice on the left mouse button.
- To click and drag, press down on the left mouse button and then tilt the ↵ button in the direction you want to drag.

You can use the up and down arrow buttons on the remote control to move the cursor or move through a PowerPoint presentation.

- Press the down arrow to move forward through a presentation or display the next slide.
- Press the up arrow to move backward or display the previous slide.

4 Fine-tuning the Projector

You can use the projector's on-screen menus to adjust the image, sound, and other features. You can also create your own startup screen, customize the highlighting tools, and find out how long your lamp has been in use. This chapter covers the following information:

- Using the menu system
- Adjusting the image
- Adjusting the sound
- Customizing the highlighting controls
- Creating your own startup screen
- Customizing projector features
- Viewing lamp usage and other information
- Restoring the default settings

Using the Projector's Menu System

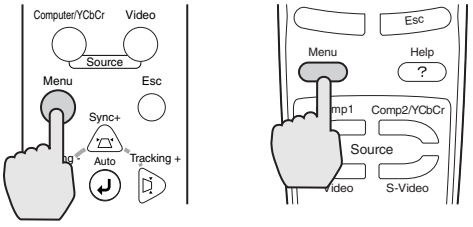
The eight projector menus let you adjust and customize the projector features from either the control panel or remote control:

- The Video menu controls the look and quality of the projected image. It lets you adjust the image position and fine-tune settings such as Brightness, Sharpness, and Contrast.
- The Audio menu controls the volume level, treble, and bass settings.
- The Effect menu lets you change the cursor speed and modify the highlighting tools available on the remote control.
- The Setting menu allows you to set or adjust features such as the Picture in Picture (P in P) video source, blank screen color, A/V Mute display option, and sleep mode.
- The User's Logo menu lets you capture and store a custom image or logo which you can then use as a startup screen or with the A/V Mute option.
- The Advanced menu lets you specify additional projector settings, including menu language, startup screen, color setting, and rear or ceiling projection.
- The About menu provides information about lamp status and computer or video settings.
- The Reset All menu lets you restore the factory defaults for all the projector settings.

Changing Menu Settings

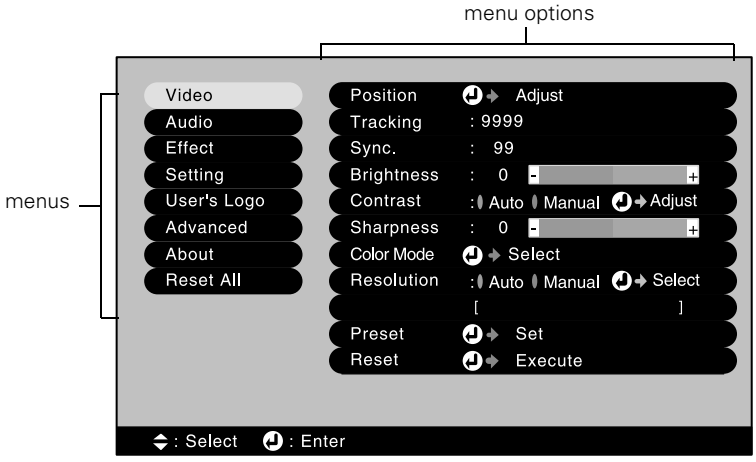
You can use the buttons on the control panel or remote control to access the menus and change settings. Follow these steps:

1. To display the menu screen, press the Menu button on the control panel or the remote control.



control panel remote control

You see the menu screen:



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

2. Press the Sync+ or Sync– button on the control panel, or press up or down on the ↵ button on the remote control, to scroll through the menu list.

3. When the menu you want is highlighted, press the ↵ button on the control panel or the remote control to select it. The highlight moves to the first option for that menu.
4. Use the Sync+ or Sync– button (control panel) or the ↵ button (remote control) to scroll through the list of options. (If a computer or video source isn't connected, certain options may be unavailable.)
5. Use the Tracking– or Tracking+ button (control panel) or the ↵ button (remote control) to change the setting for the selected option.

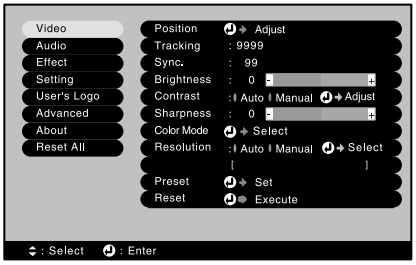
   Enabled settings are indicated by a green light, while disabled ones are blank.
6. Press the Esc button to return to the main menu. Your changes are saved automatically.
7. Press Esc again (or the Menu button) to exit the menu system.

note

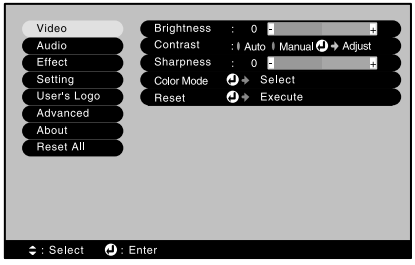
If you want to go back to the default settings on any menu, select Reset*, press ↵, select* Yes*, and then press ↵.*

Adjusting the Image

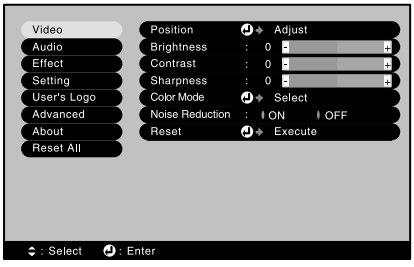
The Video menu lets you make adjustments to the projected image. The options available in the menu depend on which source is connected to the projector: standard computer video (analog RGB), DVI computer video (digital RGB), composite or S-Video, component video, or RGB video (standard TV).



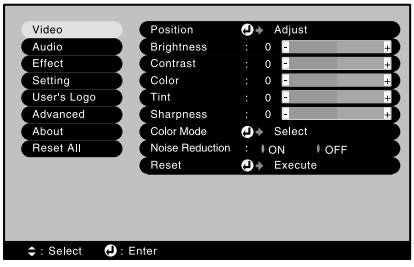
Video menu for standard computer display (Analog-RGB)



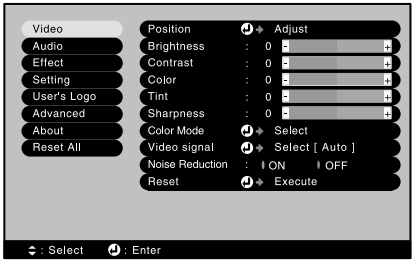
Video menu for DVI computer display (Digital-RGB)



Video menu for RGB-Video



Video menu for component video



Video menu for composite video or S-Video

Repositioning the Image

note
If you have repositioned the image or adjusted the sync setting, you can use the ↵ button on the control panel or the Auto button on the remote control to restore the default settings.

Follow these steps to move the image to a different position:

1. Press the Menu button. You see the menu screen.
2. Press the ↵ button to select the Video menu.
3. Press ↵ to select the Position option. You see a positioning screen.
4. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to move the image left, right, up, or down.
5. When the image is positioned the way you want, press Esc to exit.

Adjusting Image Appearance

Follow these steps to adjust the appearance of your image:

1. Press the Menu button. You see the menu screen.
2. Press the ↵ button to select the Video menu.
3. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to set the following options:

   - Tracking (analog computer images only)
     Removes unwanted vertical lines from a computer image by matching the projector's internal clock to the computer display signal.
   - Sync (analog computer images only)
     Corrects fuzziness by synchronizing the projector with the tracking signal sent from the computer.
   - Brightness
     Lightens or darkens the overall image.
   - Contrast
     Adjusts the difference between light and dark areas. When Auto is selected (the default), the projector performs gain adjustment periodically.
   - Color (video only)
     Adjusts the color depth or intensity of the image.

- Tint (NTSC video only)
  Adjusts the balance of green to magenta in the image.
- Sharpness
  Adjusts the sharpness of the image.
- Color Mode
  Corrects the vividness of image color. You can select from the following six settings, and save a different one for each computer and/or video source:

  sRGB: To use the sRGB standard for computer displays (the default when projecting from a computer with analog video)

  High Brightness: For presentations in bright rooms

  Meeting: For projecting without color enhancement

  Presentation: For presentations in dark rooms

  Theater: For optimizing movie images with natural color (the default for video or S-video display)

  Amusement: For optimizing games
- Resolution (analog computer images only)
  Leave this setting at Auto to allow the projector to detect the video signal automatically. If the projector is unable to sync up with the computer, select Manual and choose one of the settings.
- Video Signal (video only)
  Leave this setting at Auto unless you are using a 60-hertz PAL system (select PAL60).
- Noise Reduction (video only)
  Reduces visual "noise." This is especially useful when text and video images are combined, as in movies with subtitles.

4. When the image is set correctly, press Esc or Menu. Your settings are automatically saved.

Saving and Recalling Computer Settings

When you are projecting from an analog computer source, you can save and recall settings (resolution, tracking, sync signal, and position) in up to five different combinations. This is useful if you use more than one computer with the projector; you can save the settings for each one and recall them when necessary. Follow these steps to save the projector's current settings:

1. Press the Menu button to display the Main menu.
2. Press the ↵ button to select the Video menu.
3. Use the Sync– button (control panel) or the ↵ button (remote control) to move down to the Preset option.
4. Press ↵. You see the Preset Selection menu with the current resolution setting displayed.
5. Use the Sync– button (control panel) or the ↵ button (remote control) to select the number to which you want to assign the current settings.
6. Press ↵. If you see an Overwrite? prompt, select Yes and press ↵.
7. Press Esc or Menu to exit.

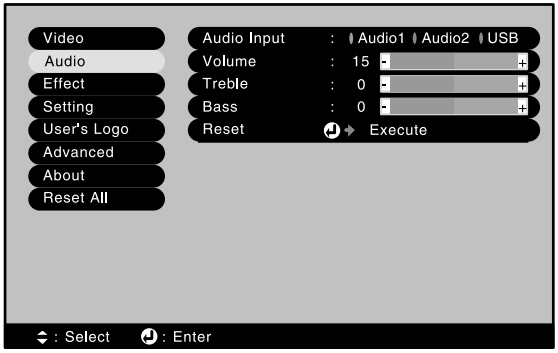
When you want to use a saved setting, press the Preset button on the remote control. You see the selected setting displayed on the screen.

To select another number, press the Preset button again until the setting number you want is displayed. The projector resets itself according to the selected setting.

Adjusting the Sound

You can use the Audio menu to select the audio source or adjust the sound volume or treble/bass balance.

1. Press the Menu button. You see the menu screen.
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight Audio. You see the following:

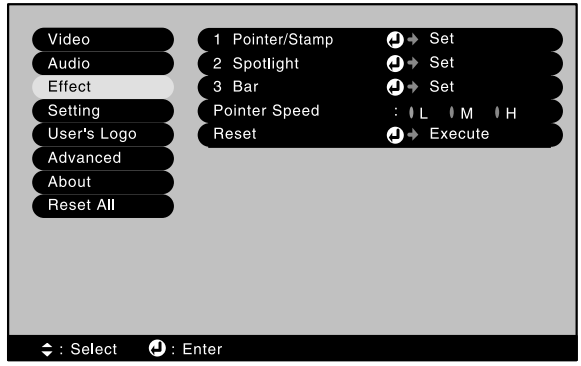


3. Press ↵ to select the Audio menu.
4. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to set the following options:
   - Audio Input
     Audio 1 is automatically selected for computer sound, and Audio2 for video. Select USB to amplify computer sound through a USB cable connected to the projector.
   - Volume
   - Treble
   - Bass
5. When you're finished adjusting the sound, press Esc or Menu.

Customizing the Highlighting Tools

The highlighting tools let you add pointers and other types of annotations to your image, as described on pages 37 to 39. You can use the Effect menu to customize these tools and set the pointer speed for highlighting. The Reset option lets you return all the highlighting tools to their default settings.

1. Press the Menu button. You see the main menu.
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight Effect. You see the Effect menu:



3. Press ↵ to select the Effect menu.
4. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to customize the following:

   - Pointer/Stamp
     Lets you define the shape and size for three different pointers.
   - Spotlight
     Lets you choose a large, medium, or small spotlight.
   - Bar
     Lets you define three different bars. For each one, you can set the color and width, and choose between vertical and horizontal.
   - Pointer speed
     Lets you choose low, medium, or high speed.

5. When you're finished customizing the highlighting tools, press Esc. Your selections are saved.

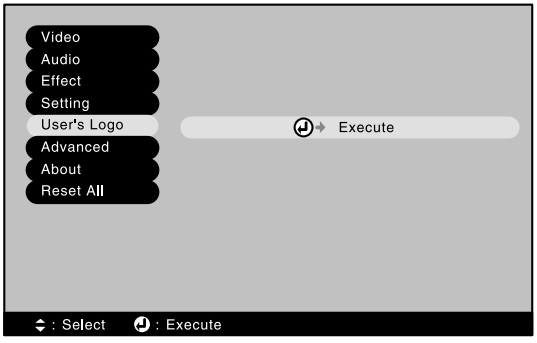
Creating Your Own Startup Screen

You can transfer any image from your computer or video source to the projector, and then use it as your startup screen. You can also use it as the screen displayed when the projector is not receiving a signal or 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.

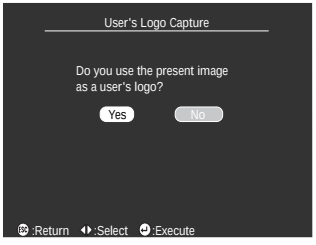
Capturing the Image

Start by displaying the image you want to use. It can be an image from either a computer or video source such as a DVD player or digital camera. Then follow these steps to capture the image and transfer it to the projector:

1. Press the Menu button on the control panel or remote control. You see the menu screen.
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight the User's Logo menu, then press ↵.

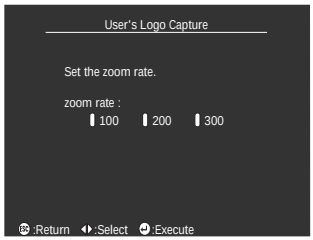


3. When you see the screen shown at right, select Yes and press ↵. A selection box displays over the image.



4. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to select the area of the image you want to use. Then press ↵.
5. When you see the message "Do you use this image?" select Yes and press ↵.

   You see the screen shown at the left.



6. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to select a zoom rate (display size), and then press ↵.
7. When the message "Do you save the user's logo?" appears, select Yes and press ↵.

   Saving the logo may take a few moments. Do not use your projector or video source (computer, DVD player, etc.) while the logo is being saved.
8. When you see the message "Saving the user's logo is completed," press Esc to return to the menu screen.

Choosing When to Display the Image

note

You can also set up your image as the startup screen using the Advanced menu; see page 55.

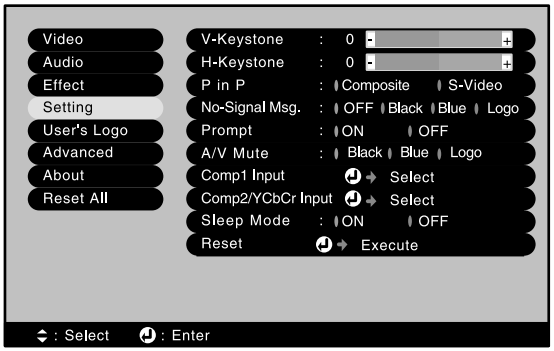
After your image is saved, you can set it up as the no-signal message and/or the screen that's displayed when you press A/V Mute.

1. Press the Menu button to display the menu screen (if not already displayed).
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight the Setting menu.
3. Press the ↵ button to select the Setting menu.
4. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight either No-Signal Msg. or A/V Mute, depending on when you want the image to display.
5. Use the Tracking+ button (control panel) or the ↵ button (remote control) to select Logo. This sets your image as the screen to be displayed.
6. When you're finished, press Esc or Menu to exit.

Customizing Projector Features

You can use the Setting menu to disable the projector's sleep mode, adjust the image shape, and customize several other features.

1. Press the Menu button.
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight Setting. You see the options and their settings on the right side:



3. Press ↵ to select the Setting menu.
4. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to set the following options:

   - V-Keystone or H-Keystone
     Correct the shape of the image. Keystone correction makes the image smaller, especially if you use both vertical (V-Keystone) and horizontal (H-Keystone) correction. If you need to adjust the shape in both directions, adjust the vertical first. If the image looks uneven after you adjust the shape, decrease the Sharpness setting (see page 47).
   - P in P
     Selects the source used by the picture-in-picture display (standard composite video or S-video).

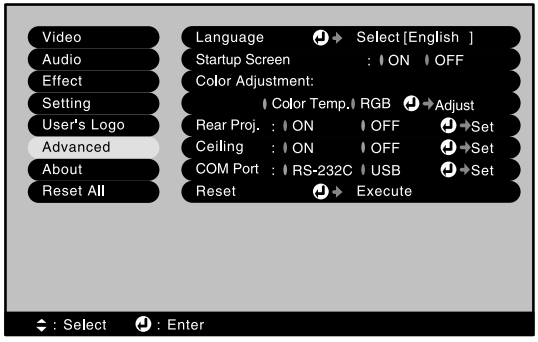
- No-Signal Msg.
  Selects a screen color or image to display when the projector is not receiving a signal. The logo setting displays an image that you have transferred to the projector (see page 51).
- Prompt
  Turns off the identifying text that appears briefly when you switch picture sources. (It's best to leave this on.)
- A/V Mute
  Selects the screen color or image to display when you press the A/V Mute button. The logo setting displays an image that you have transferred to the projector (see page 51).
- Comp1 Input
  Specifies the format for input to the Computer1 port. Select Digital-RGB/Analog-RGB, Analog-RGB, or RGB-Video.
- Comp2/YCbCr Input
  Specifies the format for input to the Computer 2/ Component Video port. If the source is a computer, select Analog-RGB. If the source is a video device, select YCbCr for DVD images or YPbPr for progressive scan DVD or HDTV images.
- Sleep mode
  When sleep mode is on, the projector turns off the lamp if it has not received any input signals for 30 minutes. Turn sleep mode off if you want the lamp to remain on all the time.

5. When you're finished, press Esc or Menu.

Setting Advanced Features

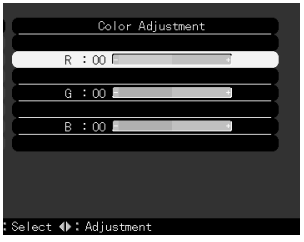
You can use the Advanced menu to configure the projector for rear projection or ceiling mounting, and adjust several other features.

1. Press the Menu button.
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight Advanced. You see the features and their settings on the right side:



3. Press ↵ to select the Advanced menu.
4. Use the Tracking and Sync buttons (control panel) or the ↵ button (remote control) to set the following options:

   - Language
     Select from 9 languages to be used for the projector menus.
   - Startup Screen
     Turn on to display your captured image or logo whenever the projector starts. (See page 51 for more information.)
   - Color Adjustment
     Adjusts the color temperature of the projected image. Select Color Temp. to set a temperature between 5000 and 10000 K. Select RGB to adjust individual red, green, and blue values, as shown. (Not available if sRGB is selected as the Color Mode setting in the Video menu. See page 47 for more information.)



   - Rear Proj.
     Turn on to project from behind onto a transparent screen.

- **Ceiling**
  Turn on when the projector is mounted upside-down from the ceiling.
- **COM Port**
  Switches between serial (**RS-232C**) and **USB** communication for programming/projector control.

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

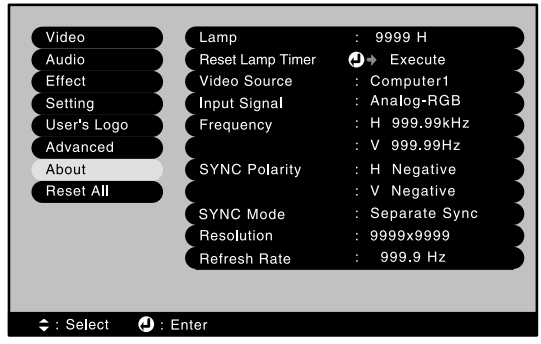
Viewing Lamp Usage and Other Information

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

note
If you access the About menu when the projector display is set to video, you see only the lamp life and the video signal setting.

1. Press the **Menu** button. You see the main menu.
2. Use the **Sync–** button (control panel) or the ↵ button (remote control) to highlight **About**.

   You see the lamp usage hours and computer display settings on the right:



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

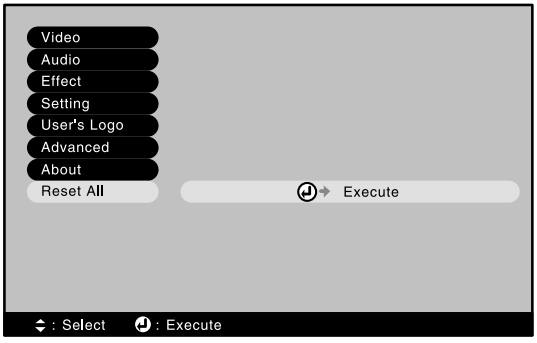
The life span of the lamp is about 1500 hours. If the number shown is close to 1500, make sure you have a spare lamp handy.

After you change the lamp, you need to reset the lamp timer.

3. If you have changed the lamp, press ↵ to select Reset Lamp Timer. Press ↵ again, then select Yes when you see the prompt. Press ↵ to confirm the reset.
4. When you're finished, press Esc or Menu.

Restoring the Default Settings

The Reset All option lets you return all the projector settings to their default values.



Select Reset All and press the ↵ button on the control panel or remote control to display the confirmation screen. Select Yes to reset all the default settings or No to cancel.

5 Maintaining and Transporting the Projector

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 also need to periodically clean the air filter on top of the projector. A clogged air filter can block ventilation needed to cool the projector and keep it from 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
- Transporting the projector

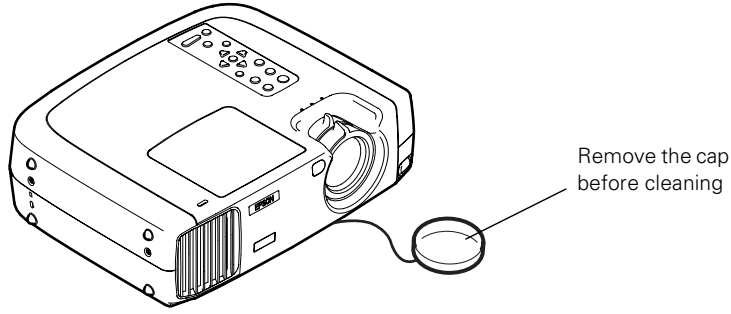
warning

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.*

Cleaning the Lens

Clean the lenses 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 lenses, use lens-cleaning paper. If necessary, moisten a soft cloth with lens cleaner and gently wipe the lens surface.



Cleaning the Projector Case

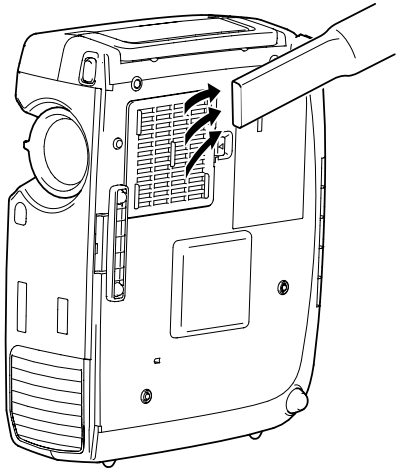
Before you clean the case, first turn off the projector and unplug the power cord.

- 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 neutral detergent. Then wipe the case.
- Do not use wax, alcohol, benzene, thinner, or other chemical detergents. These can damage the case.

Cleaning and Replacing the Air Filter

Clean the air filter on the bottom of the projector after every 100 hours of use. If it is not cleaned periodically, it can become clogged with dust, preventing proper ventilation. This can cause overheating and damage the projector. To clean the air filter, follow these steps:

1. Turn off the projector, allow it to cool down, and unplug the power cord.
2. Stand the projector on end with the handle on top to keep dust and dirt from falling inside.
3. To clean the filter, EPSON recommends using a small vacuum cleaner designed for computers and other office equipment. If you don't have one, gently clean the filter using a very soft brush (such as an artist's camel-hair brush).

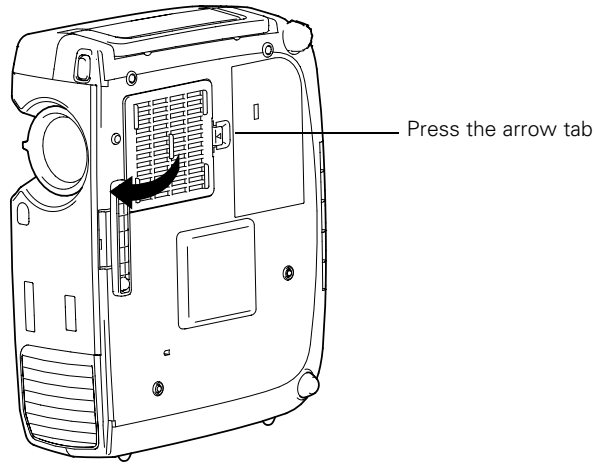


If the dirt is difficult to remove or if the filter is broken, replace it. Contact your dealer or call EPSON at (800) 873-7766 in the United States and Canada to obtain a new one.

note

When you get a replacement lamp for your projector, a new air filter is included. You should replace the filter when you replace the lamp.

4. If you need to replace the filter, press the arrow tab and lift up the filter to remove it.



5. To install a new filter, first insert the tabs, then press down until it clicks in place.

Replacing the Lamp

warning

Be extremely careful when removing the lamp module. In the unlikely event that the bulb has ruptured, small glass fragments may be present and should be removed with caution.

If your projector is mounted on the ceiling, you should unmount it before accessing the lamp compartment. This will make it easier for you to replace the lamp and minimize the chance of any small glass fragments dropping from the projector.

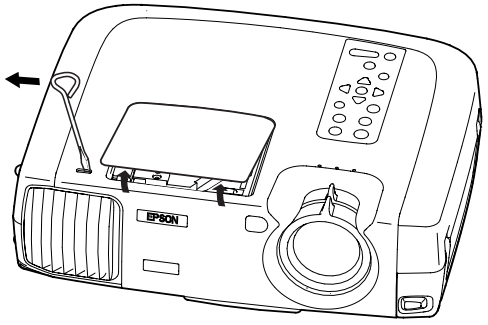
The projection lamp typically lasts for about 1500 hours of use. It is time to replace the lamp when:

- The projection image gets darker or starts to deteriorate.
- The lamp warning light is red or flashing red.
- The message LAMP REPLACE appears on the screen when the lamp comes on (after about 1400 hours of use). To maintain projector brightness and image quality, replace the lamp as soon as possible.

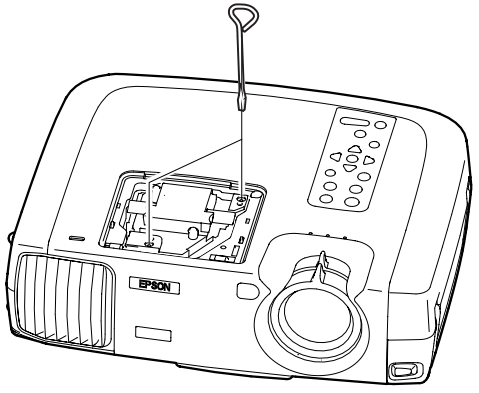
Contact your dealer or call EPSON at (800) 873-7766 in the United States and Canada for a replacement lamp. Request part number ELPLP15.

Follow these steps to replace the lamp:

1. Turn off the projector, wait for it to cool down (when the light stops flashing), then unplug the power cord.
2. Allow the projector to cool for at least half an hour (if it has been on).
3. Use a screwdriver to slide the latch and pop open the lamp cover. Then lift up and remove it.



4. Use a screwdriver to loosen the two silver screws holding the lamp in place. (You can't remove these screws.)



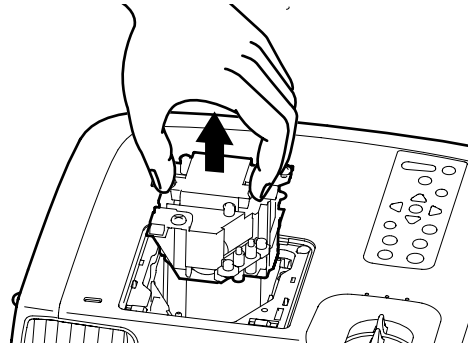
warning

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

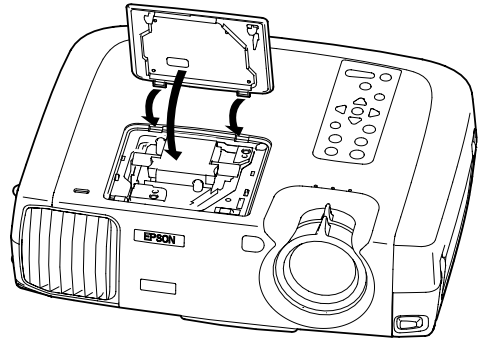
caution

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

5. Grasp the lamp as shown and pull it straight out.



6. Gently insert the new lamp.
7. Once the lamp is fully inserted, tighten its screws.
8. To replace the lamp cover, insert the tabs and then snap the cover into place. (The projector won't come on if the lamp cover is loose.)

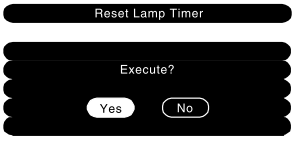


Resetting the Lamp Timer

After you replace the lamp, you need to reset the lamp timer using the projector's menu.

1. Press the Menu button on the control panel or the remote control. You see the main menu.
2. Use the Sync– button (control panel) or the ↵ button (remote control) to highlight About.

   You see the lamp usage hours and other settings.
3. Press ↵ to select Reset Lamp Timer. Press ↵ again. You see this prompt:



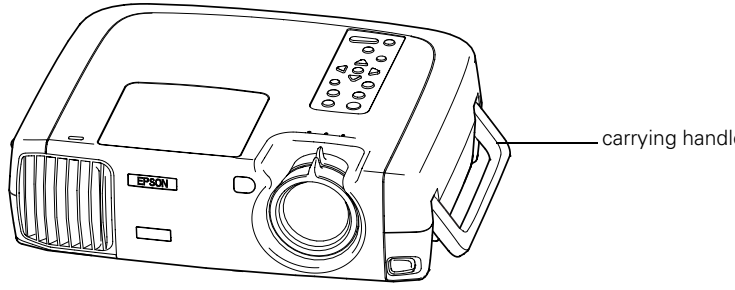
4. Select Yes, then press ↵.
5. When you're finished, press Esc or Menu.

Transporting the Projector

note
EPSON shall not be liable for any damages incurred during transportation.

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

- 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 a long distance, first put it in a carrying case (such as an optional EPSON case), then pack it in a firm box, using cushioning around the case.
- If you want to store the remote control inside the projector's carrying case, be sure to turn it off using the switch on its side. This prevents the batteries from discharging if something presses against one of the buttons.
- When you are hand-carrying the projector, use the carrying handle.



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 problems with the remote control
- Contacting technical support

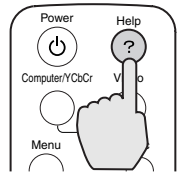
Using On-Screen Help

If the image doesn't look right or your audio isn't working, you can get help by pressing the blue ? Help button on top of the projector or on the remote control. The following choices are available:

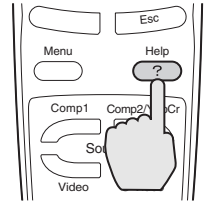
- Help for the image
- Help for the sound
- Language selection (Language)

Follow these steps to get help:

1. Press the blue ? Help button on the projector or the remote control.

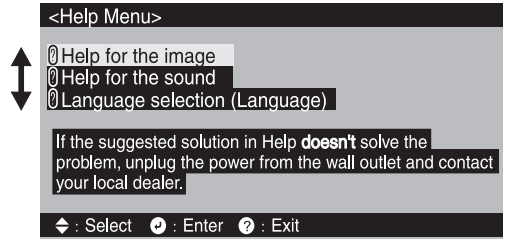


control panel



remote control

You see the Help menu:



2. Press the Sync+ or Sync– button on the projector (or use the ↵ button on the remote control) to highlight one of the options. Then press the ↵ button to select it.
3. Press the Tracking– or Tracking+ button on the projector (or use the ↵ button on the remote control) to highlight the problem you want to solve. Then press the ↵ button to view the solution(s).

4. Highlight a solution (if this choice is available). Then press the ↵ button to select the solution.

   Press the Esc button if you need to back up.

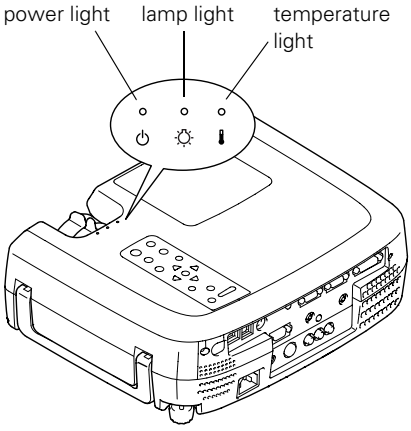
   If the solution is to adjust one of the settings, press either the Tracking– or Tracking+ button on the projector (or use the ↵ button on the remote control) to adjust it.

5. To exit the Help system, press the blue ? Help button.

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, let it cool, 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 on the following pages.

The ⏻ power light is flashing orange and you cannot turn on the projector.

The lamp is cooling down. Wait until the light turns off and then press the Power button to turn on the projector.

The ⏻ power light does not come on.

Make sure the power cord is connected securely both at the power outlet and the projector. If you have just replaced the lamp, make sure the cover is securely fastened.

The ☼ lamp warning light is red or flashing red.

Replace the lamp as described on page 62.

The ☼ lamp warning light is flashing orange.

The lamp is almost burned out. Make sure you have a replacement lamp ready.

The 🌡 temperature light is flashing orange.

- The projector is too hot, and is in a high-speed cooling cycle. Make sure the room temperature does not exceed 95 °F (35 °C) and there is plenty of space around and under the projector for ventilation.
- The air filter may be clogged. Clean or replace it as described on page 61.

The 🌡 temperature light is red.

- The projector is overheating, which turns the lamp off automatically. Wait until the cooling fan stops, then unplug the power cord. Plug the power cord back in and press the Power button. Make sure the room temperature is not above 95 °F (35 °C) and there is plenty of space around and under the projector for ventilation.
- The air filter may be clogged. Clean or replace it as described on page 61.

warning

Except as specifically explained in this User's Guide*, do not attempt to service this product yourself.*

- If the projector continues to overheat after you clean the air filter, the problem may be caused by damage to the cooling fan or temperature sensor. Contact EPSON for help.

Refer to the following table for a complete description of the projector's status lights and their meaning:

Status lights

Light	Status	Description
⏻	orange	The projector is in sleep mode. You can unplug it or press the **Power** button to turn it on.
⏻	flashing green	The projector is warming up. Wait for the image to appear.
⏻	green	The projector is operating normally.
⏻	flashing orange	The projector is cooling down. You can't turn it back on (and you should not unplug it) until the light stops flashing and remains orange.
⏻	flashing red	Power is cut off because of an internal problem. Remove the power cord and contact EPSON for help.
💡	red	The lamp is burned out. Replace it as described on page 62.
💡	flashing orange	The lamp is almost burned out. Make sure you have a replacement lamp ready.
💡	flashing red	There is a problem with the lamp, power supply, fan, or circuit. If necessary, replace the lamp as described on page 62.
🌡	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 if necessary. See page 61 for instructions.
🌡	red	The projector is overheating, which turns off the lamp automatically. Let it cool for a few minutes, then turn it back on. Make sure there is plenty of space around and under the projector for ventilation. If it continues to overheat, you may need to change the air filter. See page 61 for instructions.
🌡	flashing red	There is a problem with the cooling fan or temperature sensor. Turn off the projector and unplug it. Contact EPSON for help.

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 cap is off.
- The projector may be in sleep mode. If the ⏻ power light is orange, press the Power button to turn the projector on.
- If the power was switched off and then on again, the projector may still be cooling down. Wait until the power light stops flashing and remains orange; then press the Power button again.
- Try pressing the Power button on the remote control.
- Make sure the Brightness setting on the Video menu is correct. See page 46 for more information. Try selecting the Reset All setting to return all setup menus to their default values.
- Press the A/V Mute button to make sure the picture has not been turned off temporarily.
- The attached computer may be in sleep mode or displaying a black screen saver. Try pressing a key on the computer.

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

- Make sure the cables are connected correctly, as described in Chapter 1.
- Try restarting your computer.
- If you've connected a computer and one or more video sources, you may need to press the Computer/YCbCr or Video button (on the projector) or the Comp1, Comp2/YCbCr, Video, or S-Video button (on the remote control) to select the correct source. Allow a few seconds for the projector to sync up after pressing the button.

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 🖳/🖵 key lets you toggle between the LCD screen and the projector, or display on both at the same time.

- Depending on your computer's video card, you might need to use the Display utility in the Control Panel to make sure that both the LCD screen and external monitor port are enabled. See your computer's documentation or online help for details.

If you're using a PowerBook:

1. From the Apple menu, select Control Panels, then click Monitors and Sound.
2. Click the Arrange icon.
3. Drag one monitor icon on top of the other. This lets you display on the projector screen as well as the LCD screen.
4. If this option isn't available, click the Monitor icon.
5. Select one of the listed SimulScan resolutions. (Allow a few seconds for the projector to sync up after making the selection.)

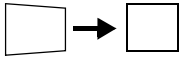
The message Not Supported is displayed.

- Make sure the Comp1 Input and Comp2/ YCbCr options in the Setting menu are correct. See page 54.
- Make sure your computer's resolution doesn't exceed UXGA (1600 × 1200), and the frequency is supported by the projector (see page 106). If necessary, change your computer's resolution setting as described on the following page.

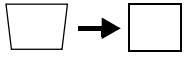
Only part of the computer image is displayed.

- Press the Resize button on the remote control.
- Make sure the image Position setting is correct on the Video menu. See page 46 for more information.
- Make sure your computer's resolution setting is correct. Ideally, it should be 1024 × 768 (800p and 810p) or 800 × 600 (600p) to match the projector's native resolution. If this option isn't available, select one of the other compatible video formats listed on page 106.
  - **Windows**:
    Right-click the desktop, select Properties, click the Settings tab, and select a different resolution.
  - **Macintosh**:
    On the Apple menu, choose Control Panels, then click Monitors and Sound. 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 square, but trapezoid-shaped.



- If the projector isn't directly in front of the screen, facing the screen squarely, the image will be broader at the left or right side. Hold down the or button on top of the projector until the image is square.



- If you've tilted the projector upward by extending the legs, the image will be broader at the top. Hold down the or button on top of the projector until the image is square.

The image contains static or noise.

- Make sure the Comp1 Input and Comp2/ YCbCr options in the Setting menu are correct. See page 54.
- If you're using a computer cable longer than 6 feet (2 meters), or an extension cable, the image quality may be reduced.
- Keep your computer and video cables away 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.

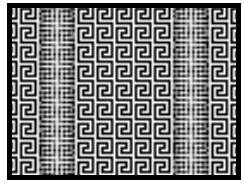
The image is blurry.

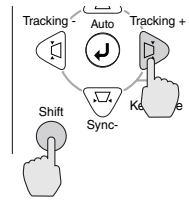
- There may be dirt or smears on the lens. Clean the lens as described on page 60.
- Adjust the focus using the focus ring.
- Make sure the lens is not fogged by condensation. You may need to wait before using the projector after moving it from a cold environment to a warm environment.
- Adjust the Sharpness setting on the Video menu (see page 46). When you change video settings, you should be able to see the effect on the screen immediately. If you're projecting from a computer, you may also need to adjust the tracking and sync as described in the next section. If you don't like the new settings, you can always select Reset to return to the factory default settings.

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 ↵ button on the projector or the Auto button on the remote control. This resets the projector's tracking and sync settings.
- If further adjustment is needed, you can fine-tune the Tracking and Sync settings manually using the buttons on the projector's control panel (or using the Video menu as described on page 46).

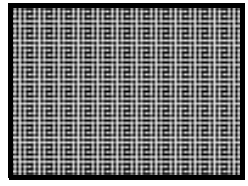
  1. Fill the screen with an image containing fine detail when making these adjustments. For example, in Windows you can select a pattern to appear as your desktop background. If this option isn't available, try projecting black text on a white background.
  2. Hold down the Shift button and press the Tracking– or Tracking+ buttons to eliminate vertical stripes.

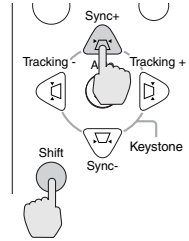




  (If you don't see any changes on screen while pressing the buttons, select Reset All in the projector's menu system as described on page 56; then repeat the tracking adjustment.)

  3. Hold down the Shift button and press the Sync– and Sync+ buttons to increase the sharpness of the image.





The colors of the image are not right.

- If you're displaying a computer image, use the Color Mode option in the projector's Video menu to adjust the color. If you're displaying video, adjust the Color, Tint, and Color Mode settings on the Video menu.
- Try changing the Color Adjustment setting on the Advanced menu.
- Check your computer display settings to correct the color balance.

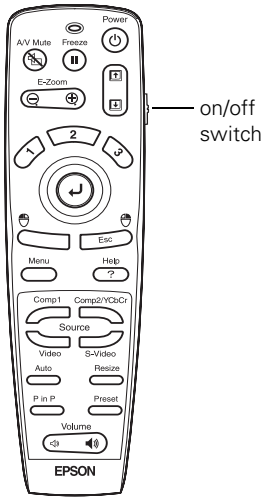
note

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.

- Try turning up the volume. Press the right side of the Volume button on the remote control or the projector's control panel.
- If you're using a VCR or other video source, make sure the volume is not turned all the way down or muted. Also, make sure the cables are connected correctly, as described in Chapter 1.
- 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 USB cable is securely connected to the projector and your computer, and the drivers are installed. If you're using the audio cable, make sure it is securely connected to both the projector and your computer's headphone jack or audio out jack. See page 14 (for laptops) or Appendix A (for other systems).
- Make sure the Windows volume controls on your computer are not turned all the way down or set to Mute. You may be able to check this by clicking the volume control in your Windows System Tray (lower right corner of the screen).
- Make sure the A/V Mute button is not enabled.
- The wrong source may be selected. Press the Computer/YCbCr or Video button on the projector—or the Comp1, Comp2/YCbCr, Video, or S-Video button on the remote control—to select the correct source.

Solving Problems with the Remote Control



The projector doesn't respond to remote control commands.

- Make sure the remote control is turned on.
- Make sure you are within 30 feet (9 meters) of the projector, and within range of the projector's front or back sensor (approximately 30° to left or right and 15° above or below).
- The remote control batteries may not be installed correctly or may be low on power. To change the batteries, see page 32.
- Dim the room lights and turn off any fluorescents. Make sure the projector is not in direct sunlight. Strong lighting, especially fluorescent lights, may affect the projector's infrared receivers.
- Turn off any nearby equipment that emits infrared energy, such as a radiant room heater.

You can't control the mouse pointer with the remote control.

Make sure the cable is securely connected to both your computer's mouse or USB port and the projector's mouse or USB port. For details, see page 13 (for laptops) or Appendix A (for other systems).

Where To Get Help

EPSON provides technical assistance through electronic support services and automated telephone services 24 hours a day, as listed in the following table.

Electronic support services

Service	Access
World Wide Web	From the Internet, you can reach EPSON's product support page at **http://support.epson.com.** After selecting your product, you can access troubleshooting information, download product documentation, and receive technical advice through e-mail.
Presenters Online	Access tips, templates, and training for developing successful presentations at **http://www.presentersonline.com**

Telephone Support Services

To use the EPSON PrivateLine Support service, call (800) 637-7661 and enter the PIN on the EPSON PrivateLine Support card included in your *Owner's Kit*. 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

Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name (EPSON PowerLite 600p, 800p, or 810p)
- Product serial number (located on the bottom of the projector)
- Computer configuration
- Description of the problem

You can purchase screens, carrying cases, or other accessories from EPSON at (800) 873-7766 or by visiting the EPSON Store at www.epsonstore.com (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

A Appendix A: Connecting to Additional Equipment

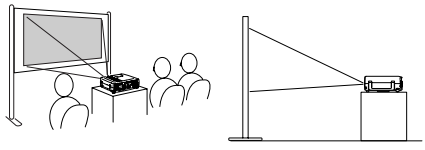
This appendix explains how to connect the projector to a desktop PC or Macintosh, high-end workstation, more than one computer, or a DVI video source. It also provides guidance on setting up the projector in a permanent installation.

The following information is covered:

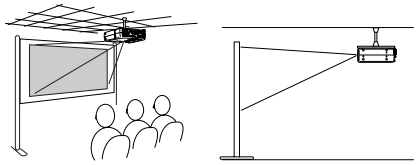
- Installing the projector
- Connecting to a PC desktop computer
- Connecting to a desktop Macintosh
- Connecting to a second computer
- Connecting to a high-end workstation
- Connecting to a DVI video source

Installing the Projector

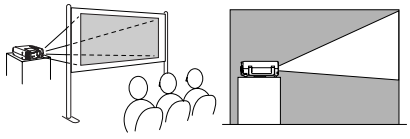
The projector can be installed for four different viewing setups: front projection, ceiling mounting, rear projection onto a semi-transparent screen, or rear/ceiling projection, as shown:



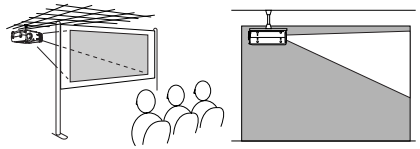
front projection



ceiling mounting



rear projection



rear/ceiling projection

To project from overhead, you'll need to select Ceiling in the projector's Advanced menu. To project from the rear, select Rear Proj. See "Setting Advanced Features" on page 55.

If you're mounting the projector on the ceiling and you place it above screen level, you'll have to tilt it down to position the image on-screen. This causes the image to lose its square shape. You can then correct the distortion by using the V Keystone function in the projector's menu system (see "Customizing Projector Features" on page 53) or by using the Keystone buttons on the projector's control panel.

If you place the projector's lens so it's level with the top of the screen, the image will be square and you won't have to adjust it. If you place the lens lower than the top of the screen, you'll have to tilt the projector upward if you want to fill the whole screen with the image.

note

See "Positioning the Projector" on page 10 for more information.

Connecting to an External Audio System

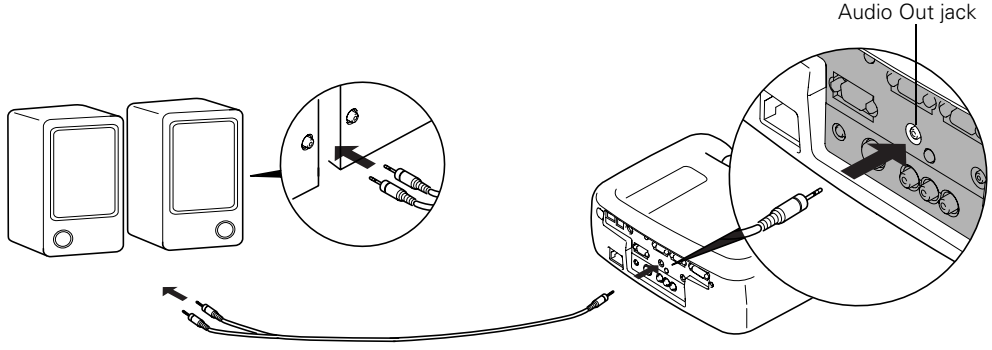
The projector's internal speakers are loud enough for most rooms. However, if your installation requires maximum volume and sound quality, you can connect the projector to external speakers or a public address (PA) system. This disables the projector's internal speakers.

If you've connected multiple audio and video sources to the projector, the projector will automatically switch the audio along with the video source whenever you choose a different video source. (See "Switching Between Picture Sources" on page 28 or page 33.)

To connect the projector to an external sound system, you will need an RCA-to-3.5 mm stereo audio cable, which may be included with your sound system, or may be purchased from an electronics store.

Before you start, make sure the projector and speakers or PA system are turned off.

1. Connect the cable's 3.5-mm stereo miniplug to the projector's Audio Out jack.



2. Connect the RCA plugs on the opposite end of the cable to the left and right jacks of your speaker or PA system.

Connecting to a PC Desktop Computer

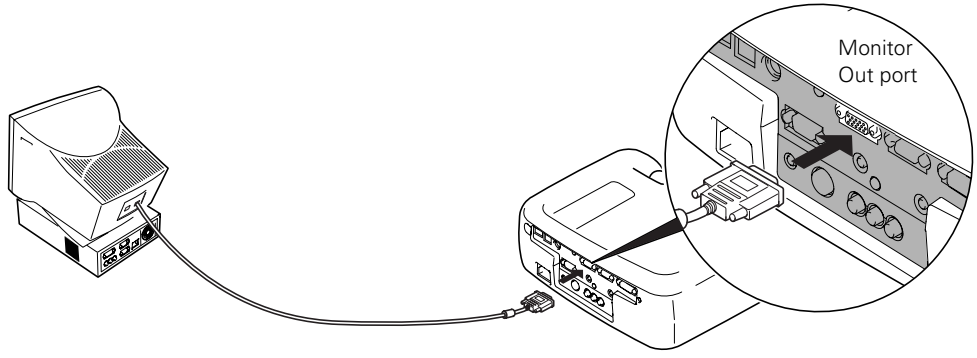
You can connect the projector to any IBM-compatible PC. This section includes instructions for the following:

- Connecting the computer cable
- Connecting the mouse cable (if you want to use the remote control as a mouse or use USB audio)
- Connecting the audio cable (if you'll be projecting with audio)

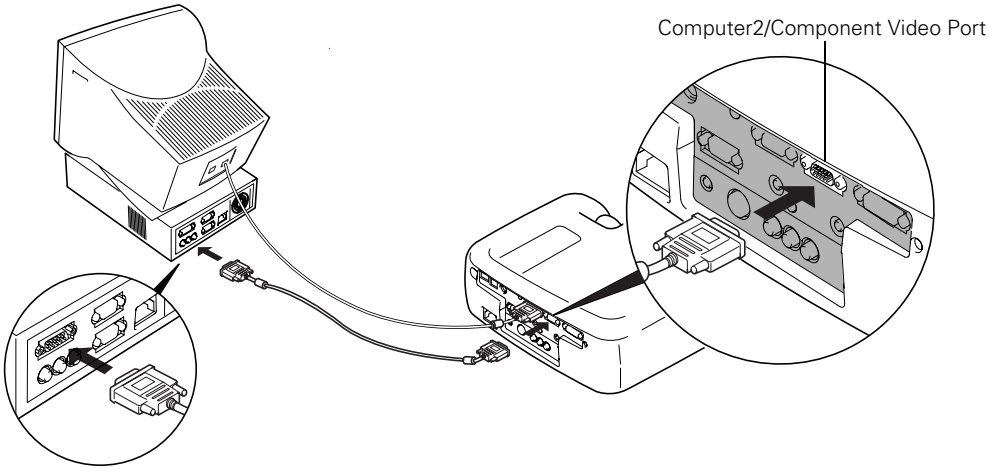
Follow the steps in each section for the cables you need to connect. Before beginning, make sure the projector and computer are turned off. If you need help with positioning the projector, see page 10.

Connecting the Computer Cable

1. Disconnect the monitor cable from the video port on the back of the computer.
2. If you'll be viewing the display on your computer monitor as well as the projector screen, connect the monitor cable to the projector's Monitor Out port, as shown.



3. Connect one end of the computer cable to the projector's Computer2/Component Video port, as shown.



4. Connect the other end of the cable to the computer's video port.
5. Tighten the screws on the connectors.

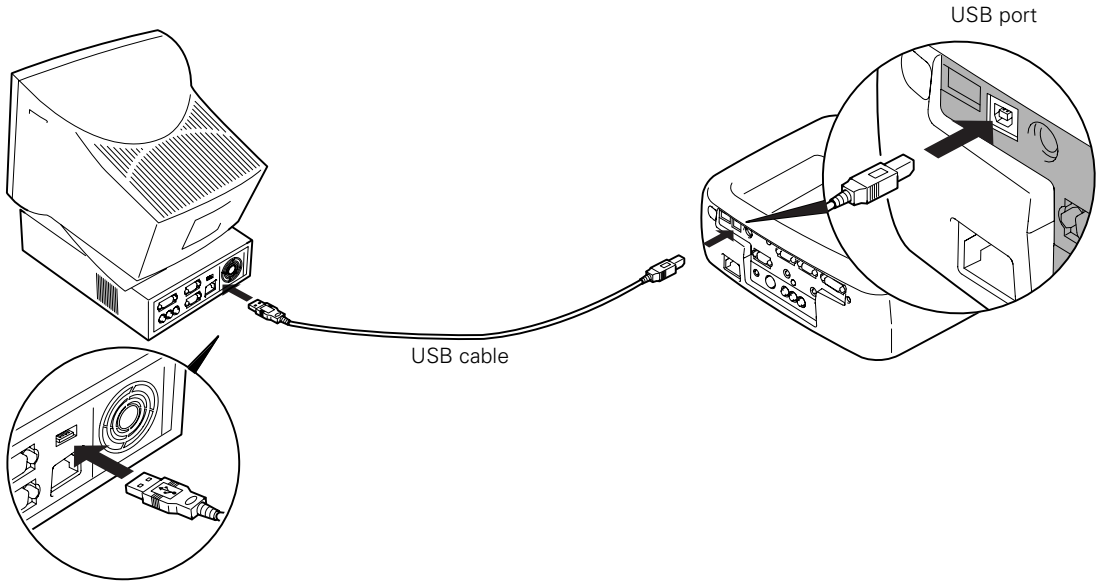
Connecting the Mouse Cable

note
If you have a PC with a serial mouse port, you'll need a serial mouse cable. See your projector dealer to obtain the correct cable.

To use the remote control as a mouse, follow the steps below. You'll use a different mouse cable, depending on whether your computer has a round PS/2 mouse port or a flat USB port.

The USB cable also provides audio support. If your computer supports USB and your presentation includes sound, you can play it through the projector's speakers by connecting the USB cable.

1. Connect the square end of the USB cable to the projector's USB port as shown.

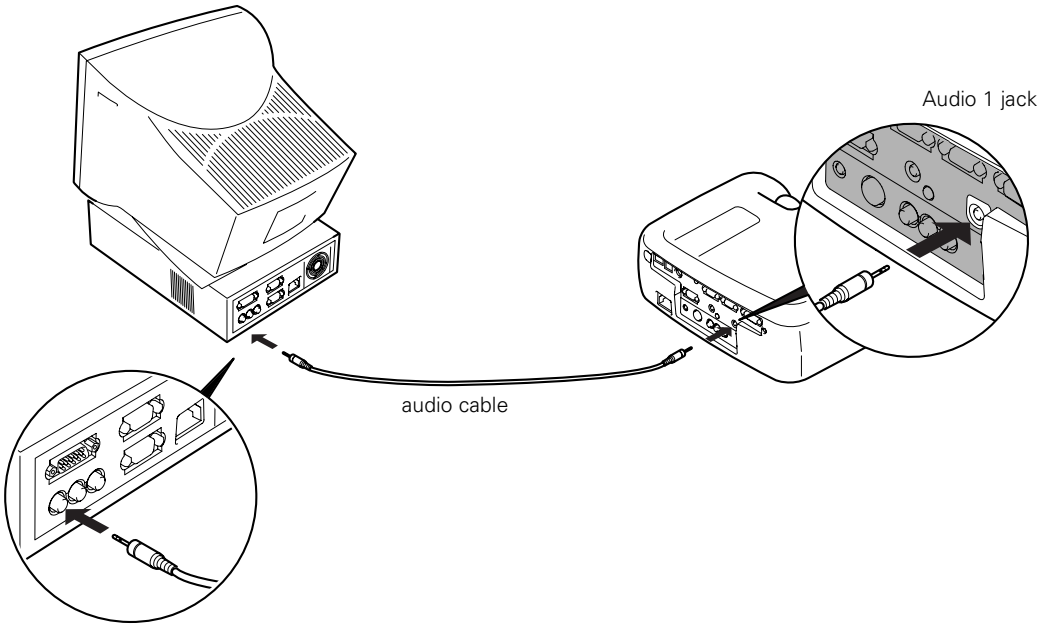


2. Disconnect your mouse from the port on the back of your computer and replace it with the other end of the cable. (Your computer's mouse will be disabled while you are using the remote control as a mouse.)

Connecting the Audio Cable

If your presentation includes sound and you want to use the projector's built-in speakers, you'll need to connect a stereo, mini-jack audio cable (not included). If you connected the USB cable, you may not need a separate audio cable.

1. Connect one end of the audio cable to the Audio 1 jack on the projector.



2. Connect the other end of the audio cable to the speaker or audio out port on the computer's sound card.

Connecting to a Desktop Macintosh

note

Macintosh configurations vary. See your computer manual for the location of the ports needed to connect your projector. Older models may require a Macintosh adapter set, which you may purchase from EPSON; see page 8.

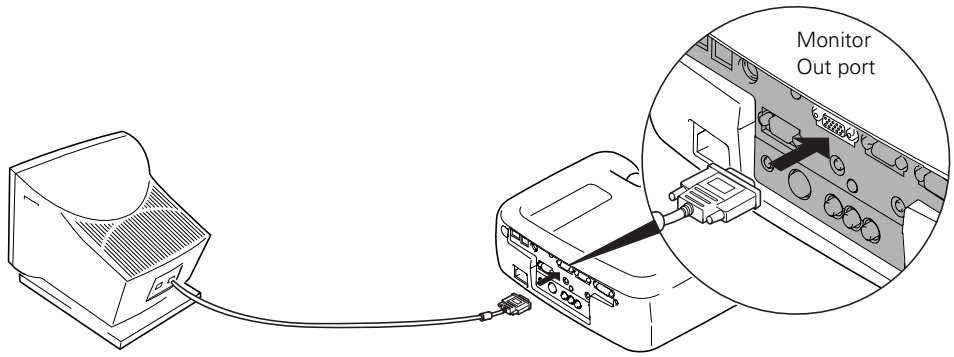
You can connect the projector to any desktop Macintosh. This section includes instructions for the following:

- Connecting the computer cable
- Connecting the mouse cable (if you want to use your remote control as a mouse or use USB audio)
- Connecting the audio cable (if you'll be projecting with audio)

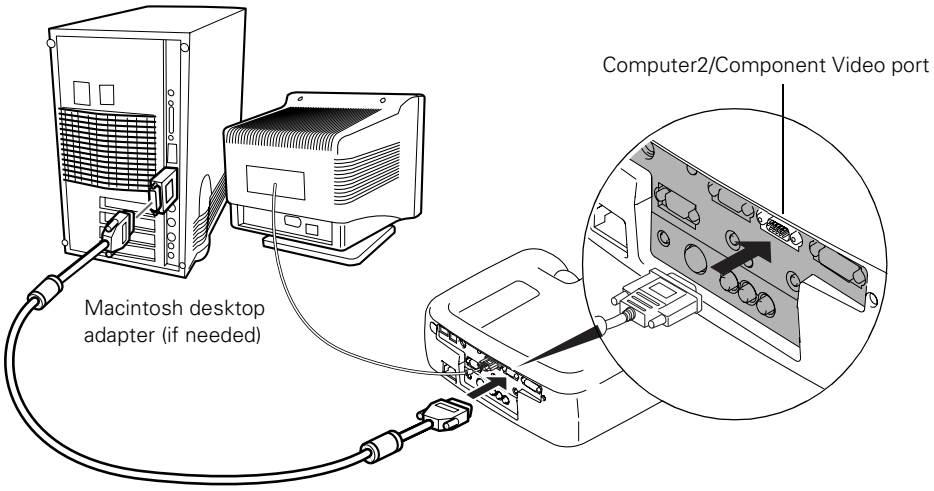
Follow the steps in each section for the cables you need to connect. Before beginning, make sure the projector and computer are turned off. If you need help with positioning the projector, see page 10.

Connecting the Computer Cable

1. Disconnect the monitor cable from the video port on the back of the Macintosh.
2. If you'll be viewing the display on your computer monitor as well as the projector screen, connect the monitor cable to the projector's Monitor Out port, as shown.

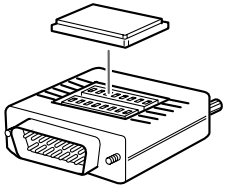


3. Connect one end of the computer cable to the projector's Computer 2/ Component Video port, as shown.

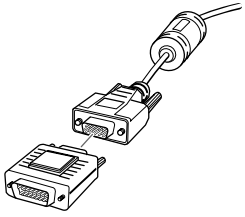


4. Connect the other end of the computer cable to the video port on the Macintosh. If it doesn't fit, you may have to use a Macintosh desktop adapter, which you can buy from EPSON (see page 8).

   To use the adapter, remove its cover as shown and set its DIP switches according to the resolution you want to use, such as 16-inch mode. See your Macintosh documentation for instructions.



   Replace the cover and connect the adapter to the free end of the computer video cable. Then plug the cable (with the adapter) into the video port on your Macintosh.



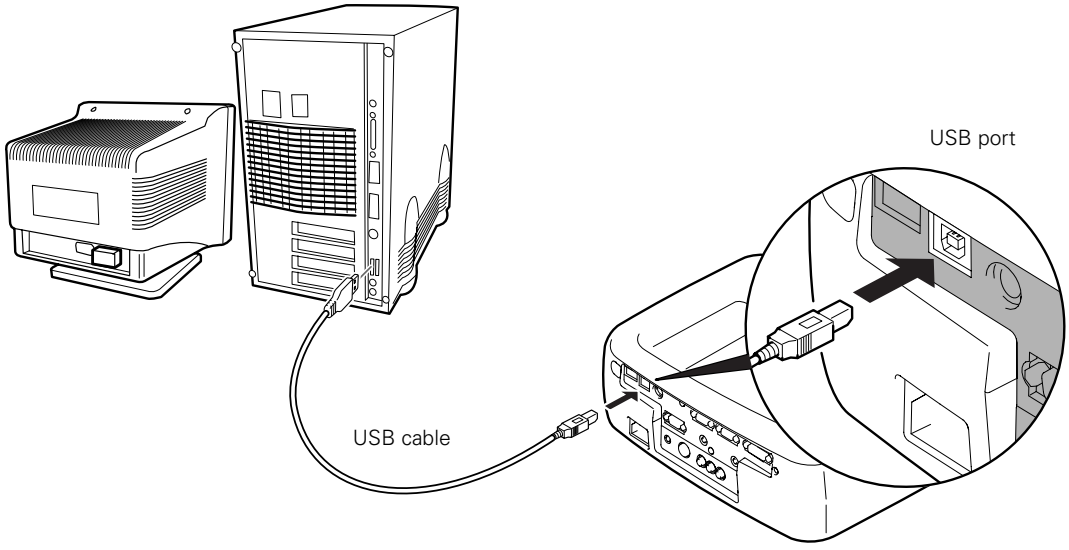
5. Tighten the screws on the connectors.

Connecting the Mouse Cable

To use the remote control as a mouse follow the steps below. If the Macintosh has a USB port, you can use the USB mouse cable included with the projector. If it has a round mouse port, you'll need a Macintosh mouse cable; see your projector dealer for help in obtaining the correct cable.

The USB cable also provides audio suport. If your Macintosh supports USB and your presentation includes sound, you can play it through the projector's speakers by connecting the USB cable.

1. Connect the square end of the USB cable to the projector's USB port.

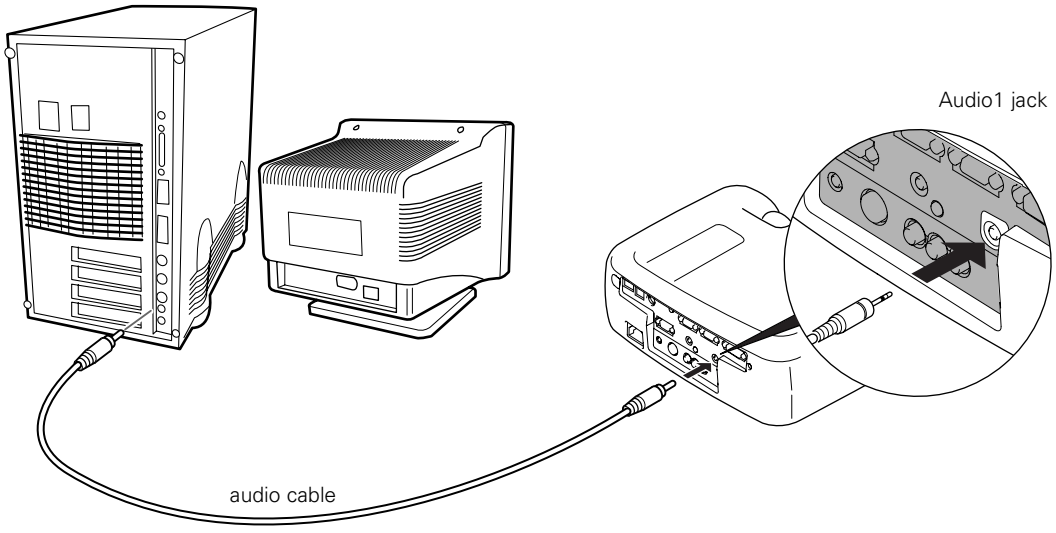


2. Disconnect your Macintosh's mouse cable. Connect the other end of the projector's mouse cable to a USB port on your Macintosh.

Connecting the Audio Cable

If your presentation includes sound and you want to use the projector's built-in speakers, you'll need to connect a stereo, mini-jack audio cable (not included). If you connected the USB cable, you may not need a separate audio cable.

1. Connect one end of the audio cable to the Audio 1 jack on the projector.

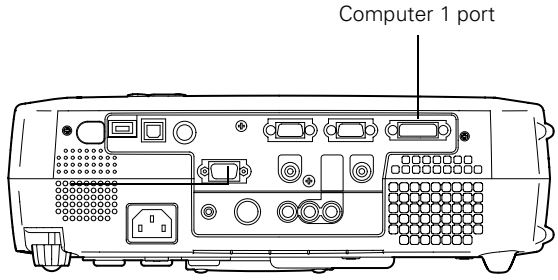


2. Connect the other end of the audio cable to the speaker or audio out port on the Macintosh.

Connecting to a Second Computer

To connect a second computer to the projector, you need to use the projector's Computer1 port. You'll need an optional DVI-analog cable, unless the computer supports DVI (Digital Visual Interface) video.

1. Connect one end of the cable to the computer's video port.
2. Connect the other end to the projector's Computer1 port as shown.



3. To display images properly, make sure the Comp1 Input option in the projector's Setting menu is set correctly. See page 54 for instructions.
4. If you want to hear the computer's audio through the projector, you'll need to connect the USB cable or purchase an RCA-to-3.5 mm stereo cable (available from your electronics store or video dealer).

   Insert the cable's 3.5-mm plug into your computer's audio-out port. Then attach the connectors at the other end of the cable to the projector's Audio 2 jacks, matching the white plug to the L jack and the red plug to the R jack.

Connecting to a High-End Workstation

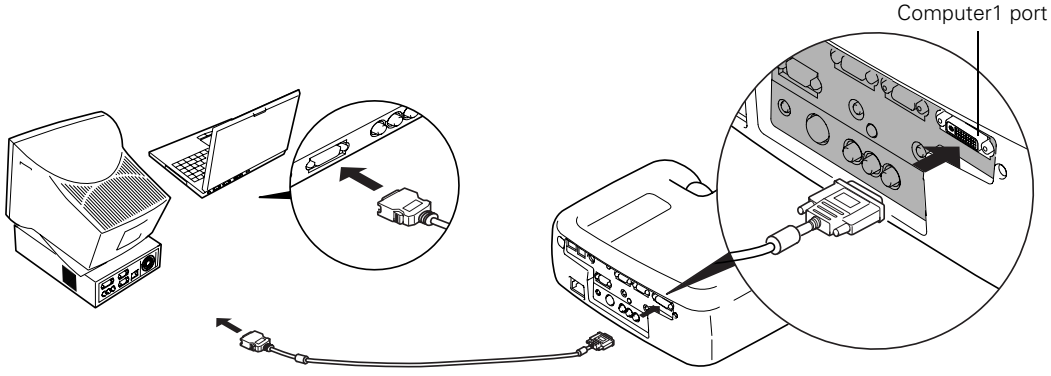
There is no across-the-board standard for workstation video output. However, your PowerLite projector is capable of remapping input resolutions up to 1600 × 1200 pixels. Workstations that follow the SXGA standard and use the HD15 (standard VGA) connector won't need an adapter cable or any special connection device. If your system varies, contact your computer dealer for help in connecting your workstation.

Connecting to a DVI Video Source

The projector's DVI (Digital Visual Interface) port receives pictures directly from your computer in digital format. This lets the projector display images of greater clarity than can be achieved using a standard analog VGA connection.

To project images in digital video format, follow these steps:

1. Connect the computer's DVI cable to the projector's Computer1 port.



2. To display images properly, make sure the Comp1 Input option in the projector's Setting menu is set correctly. See page 54 for instructions.

If you want to connect audio for this computer, use the projector's Audio 1 port; if you want to connect a mouse cable (to use the remote control as a wireless mouse), use the Mouse or USB port.

Appendix B: Notices

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

  Placez l'appareil près d'une prise de courant où la fiche peut être débranchée facilement.
- Insert the projector's three-wire grounding-type plug into a properly grounded outlet. If you have a two-prong outlet, contact an electrician to replace it. 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 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.
- 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.
- 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.

Remote Control Information

You can operate the projector by remote control via a line-of-sight infrared (IR) receiver at the front and rear of the projector. The projector may not respond to remote control commands under the following conditions:

- There is an object between the remote control IR emitter and the IR receiver on the projector.
- Ambient light is too bright.
- Certain types of fluorescent lighting are used.
- A strong light source shines into the IR receiver.
- Other equipment that emits infrared energy, such as a radiant room heater, is in the room.

These conditions commonly cause problems for most infrared-controlled equipment. Try the following:

- Make sure the remote control is turned on.
- The remote control unit's batteries may be low on power; replace them.
- Dim the ambient lighting and/or turn off any fluorescent lights.
- Close any window coverings and/or move the projector out of direct sunlight.
- Turn off other equipment that emits infrared energy.

If the remote control still does not work properly, remember you can always control your computer-based presentation directly from the computer, even in an environment containing one of the conditions listed above.

Declaration of Conformity

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers

We:	EPSON AMERICA, INC.
Located at:	3840 Kilroy Airport Way MS: 6-43 Long Beach, CA 90806-2469
Telephone:	(562) 290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name:	EPSON
Type of Product:	Multimedia Projector
Model:	EMP-600/800/810

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 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 materiel brouilleur du Canada.

Warranty

Epson America, Inc. Limited Warranty

Basic Two-Year Warranty and 90-Day Lamp Warranty

What Is Covered: Epson America, Inc. ("EPSON") warrants to the first end user customer of the EPSON product enclosed with this limited warranty statement that the product, if purchased and used in the United States or Canada, conforms to the manufacturer's specifications and will be free from defects in workmanship and materials for a period of two (2) years from the date of original purchase (except that the warranty period is 90 days for projector lamps).

What EPSON Will Do To Correct Problems: If you elect carry-in warranty service, please bring the product securely packaged in its original container or an equivalent, along with proof of the date of original purchase, to your EPSON Dealer or EPSON Customer Care Center. EPSON will, at its option, repair or replace on an exchange basis the defective unit, without charge for parts or labor. When warranty service involves the exchange of the product or of a part, the item replaced becomes EPSON property. The exchanged product or part may be new or previously repaired to the EPSON standard of quality. Exchange or replacement products or parts assume the remaining warranty period of the product covered by this limited warranty. However, each replacement lamp carries the limited 90-day warranty stated above.

What This Warranty Does Not Cover: This warranty covers only normal consumer use in the United States and Canada. For lamps, 24-hour-per-day use causes unusual strain and is not considered normal use. This warranty does not cover consumables (e.g., fuses), other than lamps. EPSON is not responsible for warranty service should the EPSON label or logo or the rating label or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, improper electrical current, software problems, interaction with non-EPSON products, or service other than by an EPSON Authorized Servicer. Postage, insurance, or shipping costs incurred in presenting your EPSON product for carry-in warranty service are your responsibility. If a claimed defect cannot be identified or reproduced in service, you will be held responsible for costs incurred.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS

FOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES. IF THESE LAWS APPLY, THEN ALL EXPRESS AND IMPLIED WARRANTIES ARE LIMITED TO THE WARRANTY PERIOD IDENTIFIED ABOVE. UNLESS STATED HEREIN, ANY STATEMENTS OR REPRESENTATIONS MADE BY ANY OTHER PERSON OR FIRM ARE VOID. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY, NEITHER EPSON AMERICA, INC. NOR ITS AFFILIATES SHALL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR INABILITY TO USE THE EPSON PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY. IF THE REMEDY ABOVE FAILS, EPSON'S ENTIRE LIABILITY SHALL BE LIMITED TO A REFUND OF THE PRICE PAID FOR THE EPSON PRODUCTS COVERED BY THIS LIMITED WARRANTY.

In Canada, warranties include both warranties and conditions.

Some jurisdictions do not allow limitations on how long an implied warranty lasts and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from jurisdiction to jurisdiction.

To locate the Authorized EPSON Servicer nearest you, call the EPSON Connection[SM] at (800) 637-7661 + PIN or (562) 276-4394 in the U.S. and (905) 709-3839 in Canada or write to: Epson America, Inc., P.O. Box 93012, Long Beach, CA 90809-3012.

C Appendix C: Technical Specifications

General

Type of display	Poly-silicon TFT active matrix
Size of LCD panels	Diagonal: 0.9 inches (22.9 mm)
Lens	F=1.74 to 2.06, f=28.3 mm to 37.98 mm
Resolution (native format)	800p and 810p: 1024 × 768 pixels (XGA) 600p: 800 × 600 pixels (SVGA)
Color reproduction	24 bit, 16.7 million colors
Brightness	810p: 2000 lumens (ANSI) 800p: 1500 lumens (ANSI) 600p: 1700 lumens (ANSI)
Contrast ratio	400:1
Image size	30 to 300 inches
Projection distance	2.85 to 40.7 feet (0.87 to 12.4 meters)
Projection methods	Front, rear, upside-down (ceiling mount)
Internal sound system	5 W monaural
Optical aspect ratio	4:3 (horizontal : vertical)
Zoom ratio	1:135
Noise level	38 dB
Keystone correction angle	Vertical: ± 30° (maximum) Horizontal: ± 10° (maximum)

Projection Lamp

Type	UHE (Ultra High Efficiency)
Power consumption	200 W
Lamp life	About 1500 hours
Part number	ELPLP15

Remote Control

Range	32.8 feet (10 meters)
Batteries	Alkaline AA (2)

Mouse Compatibility

Supports PS/2 and USB

Dimensions

Height	4.1 inches (104 mm)
Width	13.7 inches (348 mm)
Depth	10.8 inches (274 mm)
Weight	9.3 lb (4.2 kg)

Electrical

Rated frequency	50/60 Hz AC
Power supply	100 to 120 VAC, 3.1A 200 to 240 VAC, 1.5 A
Power consumption	Operating: 280 W Standby: 5.5 W

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

Safety

United States	FCC Part 15J Class B UL1950 Rev. 3
Canada	DOC SOR/88-475 CSA C22.2 No. 950 Rev. 3 (cUL)
CE Marking	Directive 73/23/EEC EN 60950 Directive 89/336/EEC EN 55022, EN 55024

Compatible Video Formats

The projector supports NTSC, PAL, and SECAM international video standards, as well as the monitor display formats listed below.

To project images output from a computer, the computer's video card must be set at a refresh rate (vertical frequency) that's compatible with the projector; see the following table for compatible formats. As noted below, some images are automatically resized to display in one of the projector's "native" formats (such as XGA). In addition, the frequencies of some computers may not allow images to display correctly; see your computer's documentation for details.

Mode	Refresh Rate (Hz)	Resolution
PC98	57	640 × 400
VGAEGA	70	640 × 350
VGA60	60	640 × 480
VESA72	72	640 × 480
VESA75	75	640 × 480
VESA85	85	640 × 480
VGA120	120	640 × 480
SVGA56	56	800 × 600
SVGA60	60	800 × 600
SVGA72	72	800 × 600
SVGA75	75	800 × 600
SVGA85	85	800 × 600
SVGA120	120	800 × 600
XGA43i	43	1024 × 768[1]
XGA60	60	1024 × 768[1]
XGA70	70	1024 × 768[1]
XGA75	75	1024 × 768[1]
XGA85	85	1024 × 768[1]
XGA120	120	1024 × 768[1]
SXGA1—70	70	1152 × 864[2]
SXGA1—75	75	1152 × 864[2]
SXGA1—85	85	1152 × 864[2]
SXGA1—100	100	1152 × 864[2]
SXGA2—60	60	1280 × 960[2]
SXGA2—75	75	1280 × 960[2]
SXGA2—85	85	1280 × 960[2]
SXGA3—43i	43	1280 × 1024[2]
SXGA3—60	60	1280 × 1024[2]

Mode	Refresh Rate (Hz)	Resolution
SXGA3—75	75	1280 × 1024[2]
SXGA3—85	85	1280 × 1024[2]
SXGA+60	60	1400 × 1050[2]
SXGA+75	75	1400 × 1050[2]
SXGA+85	85	1400 × 1050[2]
UXGA48i	48	1600 × 1200[2,3]
UXGA60	60	1600 × 1200[2,3]
UXGA65	65	1600 × 1200[2,3]
UXGA70	70	1600 × 1200[2,3]
UXGA75	75	1600 × 1200[2,3]
UXGA80	80	1600 × 1200[2,3]
UXGA85	85	1600 × 1200[2,3]
iMAC VGA	117	640 × 480
iMAC SVGA	95	800 × 600
iMAC XGA	75	1024 × 768[1]
MAC II 13	67	640 × 480
MAC16	75	832 × 624
MAC19	75	1024 × 768[1]
MAC21	75	1152 × 870[2]
TV525i	60	[2]
TV625i	50	[2]
SDTV525p	60	[2]
HDTV750p	60	[2]
HDTV1125i	60	[2]
NTSC	60	[2]
NTSC4.43	60	[2]
PAL	50	[2]
M-PAL	60	[2]
N-PAL	50	[2]
PAL60	60	[2]
SECAM	50	[2]

[1] The image is resized so that it displays using one of the projector's native formats. (PowerLite 600p only.)

[2] The image is resized so that it displays using one of the projector's native formats.

[3] Not supported on the PowerLite 600p

Computer Video Port Pin Assignments

The Computer2/Component Video port is a female video RGB, 15-pin micro-D-style connector. Here are its pin assignments:

Pin no.	Computer port
1	Red video
2	Green video
3	Blue video
4	GND
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	Reserved
10	Synchronous GND
11	GND
12	SDA
13	Horizontal sync / composite sync
14	Vertical sync
15	SCL

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