Epson[®] PowerLite[®] 755c/765c 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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Welcome

The Epson® PowerLite® 755c/765c is an easy-to-use projector that weighs less than 4 pounds. The projector offers up to 2500 lumens (765c) or 2000 lumens (755c) of brightness. You can connect it to a wide range of computers and video sources, or you can project from a USB storage device, memory card, or over an 802.11g or 802.11b wireless network.

Easy control

The projector's keystone correction feature automatically corrects image distortion, and you can use the remote control to take charge of your presentation from almost anywhere in the room. Freeze the action, zoom in on part of the picture, or use the remote as a pointer. You can even use it in place of your computer's mouse to control your computer and change slides in Microsoft® PowerPoint.®

EasyManagement

With the projector's EasyManagement[™] system, you can use a Windows[®] PC to remotely monitor and control the projector over a network.

Security

To prevent unauthorized use, this projector includes several security features including a password, user's logo, and the ability to lock the projector buttons.

Using Your Documentation

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.
- Tips contain additional projection hints.

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 the instructions you need to get your projector up and running if you are connecting to a notebook, PowerBook, or iBook, computer, or projecting over a wireless network.

Start Here kit

Includes this *User's Guide*, your *Quick Setup* sheet, warranty brochures, and Epson PrivateLine® Support card. Keep the kit 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 152 for details.

support.epson.com

Download FAQs and e-mail your questions to Epson support.

If you still need help after checking this *User's Guide* and the sources listed above, you can use the Epson PrivateLine Support service to get help fast. Call (800) 637-7661 and enter the PIN on the card in your Start Here kit. Or take advantage of Epson's automated support services 24 hours a day. See page 166 for more information.

Registration and Warranty

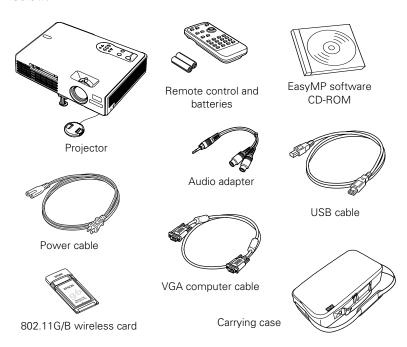
Your projector comes with a basic carry-in warranty as well as an international warranty that let you project with confidence anywhere in the world. For details, see page 184 and the warranty brochure included in your Start Here kit.

In addition, for customers who register their projector, Epson offers free Extra CareSM 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 Start Here kit for details.

To register, simply fill out the registration card included in your Start Here kit and mail it to Epson. Or you can register online at http://www.epson.com/webreg. Registering also lets you receive special updates on new accessories, products, and service.

Unpacking the Projector

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



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 the carrying case. See page 13 for ordering information, and page 150 for transportation instructions.

Additional Components

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

To receive an S-Video signal, you'll need an S-Video cable. One may be provided with your video equipment, or you can purchase one from Epson; see page 13.

- To receive a component video signal from a VCR or other video device, you'll need a component video cable. You can purchase one from Epson; see below.
- Some older PowerBooks® and Macintosh® desktop models may need the Macintosh desktop adapter set shown on page 39 (available from Epson; see below). Older iMac® systems may need a special adapter to provide a VGA output port; see your computer dealer.

Optional Accessories

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

Product	Part number
Replacement lamp	V13H010L32
Air filter replacement set (2 filters)	V13H134A08
ATA molded hardshell case Samsonite® wheeled soft case Notebook/projector soft shoulder bag	ELPKS42 ELPKS35-S ELPKS43
Universal ceiling mount False ceiling plate Security bracket/cabling for gyro lock mounts Adjustable ceiling channel	ELPMBUNI ELPMBFCP ELPMBSEC ELPMBACC
Kensington® security lock	ELPSL01
50-inch portable screen 60-inch portable pop-up screen 80-inch portable pop-up screen 83.6-inch hanging pull-down screen	ELPSC06 ELPSC07 ELPSC08 ELPSC09
Macintosh adapter set	ELPAP01
Component video cable S-Video cable	ELPKC19 ELPSV01
Distribution amplifier	ELPDA01
Image presentation camera (ELPDC05)	V12H162020

You can purchase these accessories from an authorized Epson reseller. To find the nearest reseller, please call 800-GO-EPSON (800-463-7766). To purchase online, visit www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for reseller referral.

Displaying and Adjusting the Image

Whether you're presenting from a computer or video equipment, you need to follow some basic steps to display your image on the screen.

Follow the guidelines in this chapter for:

- Positioning the projector
- Turning the projector on and selecting the image source
- Troubleshooting display problems
- Adjusting the image
- Turning off the projector

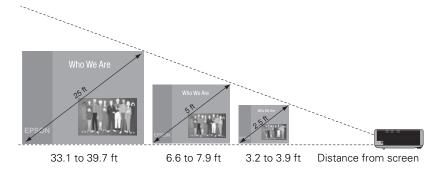
note

You can mount the projector on the ceiling, or place it behind a translucent screen for rear projection. See page 173 for details.

Positioning the Projector

If the projector isn't already installed in the room you're using, you'll probably want to place it on a table in front of the screen, as shown. This lets you stand in the front of the room, face the audience, and remain close enough to the equipment to be able to control it. Try to leave as much space as possible between the projector and the screen to get a good-size image.

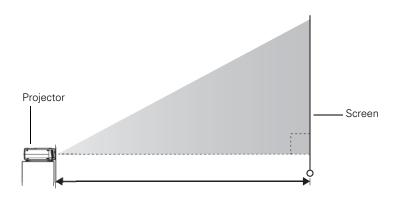
Use the figure below to help you determine placement. Image size increases with distance, but can vary depending on how you position the zoom ring and whether you've adjusted the image with other settings.



Also keep these considerations in mind:

- Place the projector on a sturdy, level surface.
- Make sure there is plenty of space for ventilation around and under the projector. Do not set the projector on top of anything that could block the vents under the projector.
- Make sure the projector is within 10 feet of a grounded electrical outlet or extension cord.

Ideally, you should place the projector directly in front of the center of the screen, facing it toward the screen squarely. The base of the lens should be at about the level of the bottom of the screen.



If you place the projector below screen level, you'll have to tilt it up by extending the front adjustable foot. This causes the image to become "keystone" shaped, but you can correct the distortion by pressing the buttons on the projector. See page 24 for detailed information about correcting the image shape.

For instructions on installing the projector in a permanent location, such as a theater or conference room, see page 173.

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 page 13.

Projecting the Image

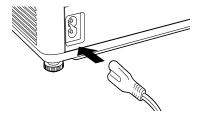
Make sure your projector and other equipment are set up as described on page 37. Then follow the instructions below to start the projector and display an image.

Turning On the Projector

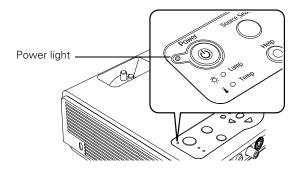
Turn on any connected computer or video equipment before starting the projector so it can automatically detect and display the image source. If you turn on the projector first, or have multiple pieces of connected equipment, you may have to select the image source manually (see page 19).

Follow these steps to turn on the projector:

- 1. Remove the lens cap.
- 2. Plug one end of the power cable into the projector, and the other end into an electrical outlet.



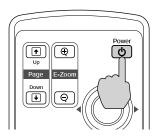
The Power light comes on.

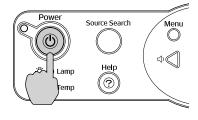


note

To shut down the projector, see page 26. Shutting down the projector correctly prevents premature lamp failure and possible damage from overheating.

3. Press the red \circlearrowleft **Power** button on the remote control or on top of the projector.





The projector beeps once and the Power light flashes green as the projector warms up, then an image begins to appear. When the Power light stops flashing and remains green, the projector is ready for use.

- 4. If you've connected a Windows®-based computer to the projector, you may see a New Hardware Wizard screen saying your computer has found a plug-and-play monitor; if so, click Cancel.
- 5. If you are prompted to enter a password, see page 114.

Selecting the Image Source

Selecting the image source lets you switch between images input from different pieces of connected equipment (such as a computer or DVD player).

If you don't see the image you want, press the Source Search button on the projector or the Search button on the remote control until you see the image you want to project.

You can also use the **Source** buttons on the remote control to switch between devices connected to the ports identified on each button, or select EasyMP to project wirelessly or from a memory card.

warning

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

note

To focus and adjust the image, see page 23. If a projected image fails to appear, see page 20 for help.

Troubleshooting Display Problems

Follow these guidelines if you're having trouble displaying an image.

You Can't Project an Image

If you don't see the image you are trying to project, try the following:

- Make sure the cables are connected correctly, as described beginning on page 37.
- Make sure the **Power** light is green and not flashing and the lens cap is off.
- If you've connected more than one computer and/or video source, you may need to press the Source Search button on the projector's control panel or Search 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 notebook, press the function key on your keyboard that lets you display on an external monitor. It may be labeled CRT/LCD or have an icon such as □. You may have to hold down the Fn key while pressing it. Allow a few seconds for the projector to sync up after changing the setting.

The Projector and Notebook Don't Display the Same Image

If you're projecting from a notebook, and you can't see your image on the projection screen and on your computer at the same time, follow these guidelines.

If you're using a PC notebook:

■ On most systems, there's a function key that lets you toggle between the LCD screen and the projector, or display on both at the same time. It may be labeled CRT/LCD or have an icon such as □/○. You may have to hold down the Fn key while pressing it. Allow a few seconds for the projector to sync up after changing the setting.

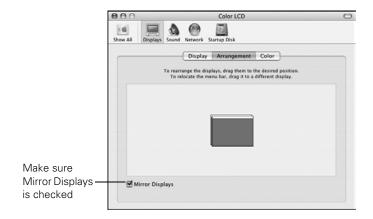
 If the function key doesn't permit you to display simultaneously on both screens, you should check your monitor settings to make sure both the LCD screen and the external monitor port are enabled.

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

If you're using Macintosh OS X:

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

- 1. From the Apple® menu, select System Preferences, then select Displays.
- 2. Make sure the VGA Display or Color LCD dialog box is selected.
- 3. Click the Arrangement (or Arrange) tab.

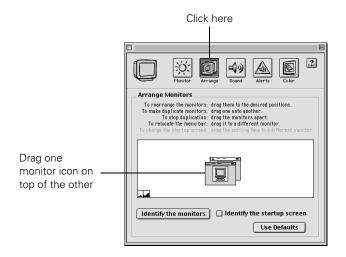


4. Make sure the Mirror Displays checkbox is selected.

If you're using OS 8.6 to OS 9.x:

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

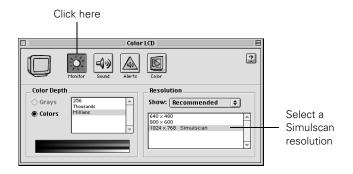
- 1. From the Apple menu, select Control Panels, then click Monitors or Monitors and Sound.
- Click the Arrange icon.



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.)

Adjusting the Image

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

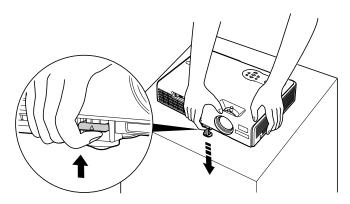
- If the image is too high or too low, you can reposition it. See below.
- To focus or zoom your image, see page 24.
- If the image isn't square, see page 24.
- If a computer image displays incorrectly, see page 26.

If you need to fine-tune the image and/or sound, see Chapter 6.

Adjusting the Height of Your Image

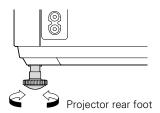
If the image is too low on the screen, you can use the front adjustable foot to raise it.

1. Stand behind the projector. Press the blue foot release lever up and lift the front of the projector.



- 2. Once the image is positioned where you want it, release the lever to lock the foot in position.
- 3. If necessary, you can fine-tune the height or level the image by turning the projector's rear foot.

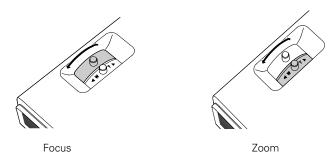
Raising the projector causes the image to distort or "keystone," but you can manually correct the shape as described on page 24.



Focusing and Zooming Your Image

Turn the focus ring on the projector to sharpen the image.

Turn the zoom ring on the projector to reduce or enlarge the image.

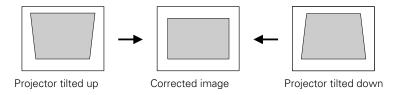


If the image still isn't large enough, you may need to move the projector farther away from the screen. You can also use the E-Zoom buttons on the remote control to zoom in on a portion of the image. See page 33 for instructions.

Adjusting the Image Shape

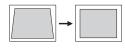
In most cases, you can maintain a square or rectangular image by placing the projector directly in front of the center of the screen with the base of the lens level with the bottom of the screen.

Even if the projector is slightly tilted (within a range of 30° up or down), the projector has an automatic keystone correction function that detects and corrects vertical keystone distortion.



It takes about one second after projection starts for the image to be corrected. During this time, a vertical keystone correction gauge appears on the screen.

If your image is still distorted, you can correct it using the Keystone buttons on the projector's control panel or the projector's Setting menu.

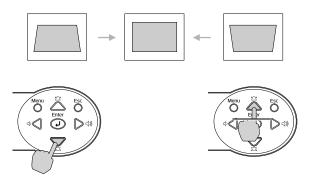


Keystone correction

Using Keystone Correction

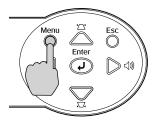
To adjust your image when it is wider on the top or bottom, do the following:

Press one of the two triangular buttons on the projector's control panel, as shown below. Continue pressing the button until you are satisfied with the shape of the image.



Or press the Menu button on the remote control or projector, select the Setting menu, and press Enter.





From the Setting menu, select **Keystone** and press **Enter**. Use the \bigcirc pointer button on the remote control to adjust the keystone setting as needed.

If the image becomes uneven, decrease the sharpness setting. (See page 111.)

note

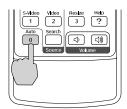
The image will be slightly smaller after adjusting. If it's important to maintain the correct aspect ratio, use the menu system to perform keystone correction, then use the remote's Resize button to adjust the aspect ratio. See page 34.

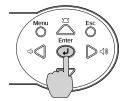
note

You must be projecting an image for this button to have any effect. The Auto button works only with computer images.

Correcting Computer Images

If you're connected to a computer and the image doesn't look right, press the Auto button on the remote control or the Enter button on the projector. This automatically resets the projector's tracking, sync, resolution, and position settings.





If the Auto button doesn't correct the problem, you may need to adjust the tracking or sync using the projector's Signal menu. See page 112 for more information.

note

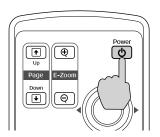
You can set the projector to automatically turn off the projector lamp and enter "sleep mode" when it has not received any signals for 30 minutes. This conserves electricity, cools the projector, and extends the life of the lamp. If you want to start projecting again, press the O Power button. If you are done using the projector, unplug the power cord. To enable sleep mode, see page 120.

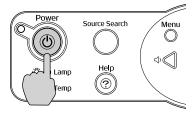


Shutting Down the Projector

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. Turn off any equipment plugged into the projector.
- 2. To turn off the projector, press the red \circlearrowleft Power button on the remote control or projector.





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

3. Press the **O Power** button again. The lamp turns off. When the projector beeps twice (after about 3 seconds), you can unplug the power cord.

(If the projector is mounted on the ceiling, you will need to wait 10 seconds for the projector to cool down before you can unplug the power cord.)

If you want to turn the projector on again, make sure the orange light is not flashing, then press the \bigcirc Power button.

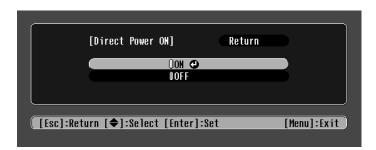
- 4. If you extended the adjustable front foot, press up on the blue foot release lever to retract it.
- 5. Replace the lens cap.

Using the Direct Power On Function

The Direct Power On function enables faster setup. The projector will start up automatically when you plug it in; you won't have to press the \bigcirc Power button.

Follow these steps to enable Direct Power On:

- 1. Press the Menu button on the remote control and select the Extended menu.
- 2. Choose Operation and press Enter.
- 3. Choose Direct Power On and press Enter.



- 4. Highlight On and press Enter.
- 5. Press Esc or Menu to exit.

The setting will take effect the next time you plug in the projector.

caution

Turn the projector off when not in use. Continuous 24-hour-a-day use may reduce the projector's overall life.

note

If a power outage occurs when Direct Power On is enabled and the projector is plugged in, the projector will start when the power is restored.

Using the Remote Control

The projector includes a number of tools to enhance your presentation. All of them can be accessed using the remote control, which lets you operate the projector from anywhere in the room—up to 20 feet away.

You can use the remote control to adjust the picture and sound (page 31) or as a pointer to highlight your presentation (page 36). You can also use it to adjust the color mode for various environments (page 34) or as a wireless mouse when projecting from a computer (page 35).

This chapter covers:

- Using the remote control
- Controlling the picture and sound
- Operating your computer with the remote control
- Highlighting your presentation

note

For information and resources to help you give the most professional presentation, be sure to visit presentersonline.com.

note

If a button is pressed longer than 30 seconds, the remote control stops operating to conserve power. When you release the button, normal operation resumes.

caution

When replacing batteries, take the following precautions:

- Replace the 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 immediately.
- Do not expose batteries to heat or flame.
- Dispose of used batteries according to local regulations.
- Remove the batteries if you won't be using the projector for a long period of time.

Using the Remote Control

Follow these tips for using the remote control:

- Point the remote control at the front of the projector or at the screen.
- Stand within 20 feet of the projector.
- Avoid using the remote under bright fluorescent lamps or in direct sunlight, or the projector may not respond properly.

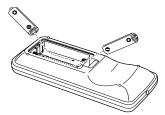
Replacing the Batteries

Replace the batteries as described below:

- 1. Turn the remote control over.
- Press down on the tab on the battery cover as you lift the cover off.



 Install two AAA batteries, inserting the + and - ends as shown.



Position the cover as shown, then press down until it snaps into place.



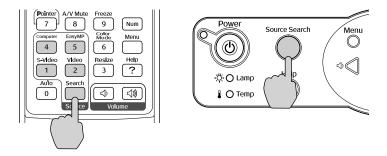
Controlling the Picture and Sound

You can use the remote control to preview and select your picture sources, temporarily turn off the picture and sound, freeze the action, zoom in on the picture, and adjust the volume.

Switching Between Picture Sources

If your projector is connected to more than one computer and/or video source, you can switch between the different sources:

■ The easiest way to select your source is to press the Search button on the remote control (or the Source Search button on the projector) repeatedly until you see the image you want on the screen.



On the remote control, there are four Source buttons. Use them to switch between equipment connected to the port identified on each button, or to use EasyMP to project wirelessly or from a memory card.

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

Turning Off the Picture and Sound

You can use the AV Mute button on the remote control to turn off the image and sound. This feature is useful if you want to temporarily redirect your audience's attention.

- To turn off the picture, press the A/V Mute button. The screen turns blue.
- To turn the image back on, press the button again.

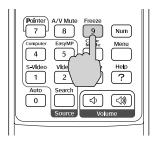


You can have the screen turn black when you press the A/V Mute button. You can also have an image, such as a company logo, display on the screen (see page 117).

Stopping Action

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

- To stop the action and keep the current image on the screen, press the Freeze button. The sound continues.
- To restart it, press the Freeze button again.



note

This function pauses the image, but not the sound. Also, because the source continues to transmit signals, you won't resume the action from the point you stopped it.

Zooming Part of Your Image

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

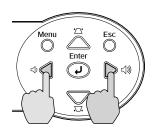
- Press the E-Zoom ⊕ button on the remote control.
 You see a crosshair indicating the center of the zoom-in area.
- 2. Use the
 opinter button to position the crosshair.
- 3. Continue pressing the E-Zoom ⊕ button to enlarge the selected area up to 4 times.
- 4. While the image is enlarged, you can:
 - Use the ∮ pointer button to move around the screen.
 - Press the E-Zoom

 button to zoom out.
- 5. When done, press the ESC button to return the image to its original size.

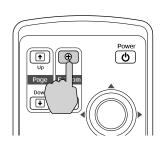
Controlling the Volume

To change the volume, press the \triangleleft or \triangleleft button on the remote control or projector.





You can also adjust the volume using the projector's menu system. See page 114.



note

To temporarily shut off the sound and picture, press the A/V Mute button.

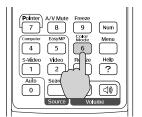


Resizing Video images

You can use the **Resize** button on the remote control to adjust how an image fits into the display area.

For video images, press **Resize** to switch the aspect ratio between 4:3 and 16:9. This lets you play certain digital video images or movies recorded on certain DVDs in 16:9 widescreen format.

For computer images, resizing is normally unnecessary, since the projector automatically resizes the image to make the best use of the display area. If you press the Resize button on the projector or remote control, the projector displays the image at the output resolution of the computer (which makes the image larger or smaller, depending on its resolution). If the resolution of the image is the same as the projector's (1024×768) , pressing Resize has no effect.



Adjusting the Color Mode

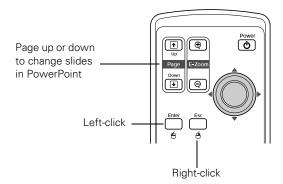
You can use the **Color Mode** button on the remote control to adjust the vividness of your image.

Press the button repeatedly to select from the following six settings:

- sRGB: To match the color palette of the sRGB standard for computer displays
- Blackboard: To adjust the white point so that colors appear natural when projecting on a green chalkboard
- **Dynamic:** To increase brightness in bright rooms (the default when projecting from non-computer sources)
- Presentation: To optimize the image for computer presentations (the default when projecting from a computer)
- Theatre: To optimize movie images for increased contrast
- Living Room: To increase brightness when projecting TV or video images in brightly lit rooms (best for videos)

Operating Your Computer with the Remote Control

If you've connected a computer to the projector with a USB cable, as described on page 40, you can use the remote control in place of your computer's mouse. This gives you more flexibility when delivering slideshow-style presentations, since you won't have to stand next to the computer to change slides.



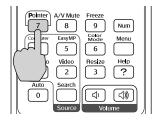
- Use the ⋄ pointer button to move the cursor on the screen.
- Press the Enter button once to left-click, or press it twice to double-click. Press the Esc button to right-click.

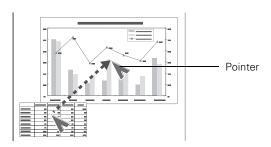
Highlighting Your Presentation

You can display a pointer to call out important information on the screen. If you want to customize the pointer tool, you can choose from three alternative shapes.

Using the Pointer Tool

1. To activate the pointer tool, press the **Pointer** button on the remote control. A pointer appears on the screen.





If you prefer to use a different style of pointer, see the instructions in the next section.

- 2. Use the \bigcirc pointer button on the remote control to position the pointer on the screen.
- 3. When done using the pointer, press Esc to clear the screen.

Customizing the Pointer Tool

You can change the appearance of the pointer by choosing from three alternative shapes.

- 1. Press the Menu button on the remote control, highlight the Setting menu, highlight Pointer Shape, and press Enter. You can select one of the pointer shapes shown at the left.
- Select the shape you want and press Enter.
- 3. Highlight Return and press Enter.
- 4. Press Menu to exit from the menu system.



Connecting to Computers, Cameras, and Other Equipment

This chapter tells you how to connect the projector to a notebook or desktop computer, and/or to video equipment, such as a VCR, DVD player, or video camera. You can also connect the projector to a USB storage device, digital camera, or external speakers.

Follow the instructions in this chapter on:

- Connecting to a computer
- Connecting video equipment
- Connecting to a digital camera or other USB device
- Playing sound through the projector

note

If you connect a Windowsbased computer to the projector, you may see a New Hardware Wizard saying your computer has found a plug-and-play monitor; if so, click Cancel.

note

For newer PowerBooks with DVI connectors, see your computer's documentation to see how to use a DVI to VGA adapter (usually included with the computer) to connect to the VGA computer port.

If you're using an older Macintosh and you can't connect the cable to your computer, you may need to use the Macintosh desktop adapter, as shown on page 39 (available from Epson; see page 13).

caution

Don't try to force a connector to fit a port with a different shape or number of pins. You may damage the port or connector.

Connecting to a Computer

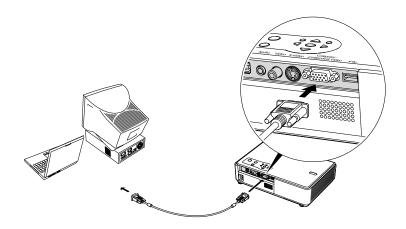
You can connect the PowerLite projector to any computer that has a standard video output (monitor) port, including desktop models, PC notebook and notebook computers, Macintosh PowerBooks and iBooks, and hand-held devices. To connect to the blue Computer/ Component Video port (standard VGA cable connection), see the instructions below. After connecting to the computer, you may also want to do one of the following:

- Connect a USB cable so you can use the remote control as a mouse; see page 40
- Connect an audio cable to play computer audio; see page 47

Connecting to the Computer Port

You can connect to the blue Computer/Component Video port using the VGA computer cable that came with the projector (the monitor port on your computer must be a mini D-sub 15-pin port).

1. If you're using the VGA computer cable, connect one end to the projector's blue Computer/Component Video port, and the other end to your computer's monitor port. Then go to step 3.



2. You can connect an optional stereo mini-jack audio cable to play sound through the projector (see page 47), or connect a USB cable to use the remote control as a mouse (see page 40).

3. When you've finished making any connections, see page 18 for instructions on turning on the projector and adjusting the image.

Using the Macintosh Desktop Adapter

If you have an older desktop Macintosh or PowerBook, the VGA cable may not fit when you try to connect it. If so, you'll need to use the Macintosh desktop adapter to connect the VGA cable to your computer. This is available from Epson (see page 13).

 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 VGA cable. Then plug the cable (with the adapter) into the video port on your Macintosh.
- 3. Tighten the screws on the connectors.

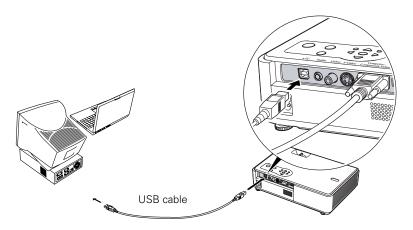


Connecting the Cable for Remote Mouse Control

If you've connected a computer as described in this chapter (using the Computer/Component Video port), you can use the projector's remote control as a wireless mouse. This lets you control your computer and click through slideshow-style presentations, such as PowerPoint, from up to 20 feet away.

The wireless mouse function is supported on systems with a USB port running Windows XP, 98SE, Me, or 2000, or Macintosh OS X 10.2.x to 10.3.x or OS 8.6 to OS 9.x. This function is not supported if you use an S-Video cable to connect your computer to the projector.

- 1. Locate the USB cable that came with your projector.
- 2. Connect the square end of the cable to the projector's USB port.



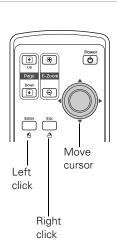
- 3. Connect the flat end of the cable to any available USB port on your notebook or desktop computer.
- 4. If necessary, configure your computer to work with an external USB mouse. See your computer documentation for details.

note

The remote mouse control function may not operate correctly on systems that have been upgraded from an earlier version of Windows.

note

For details on using the remote control in place of your computer's mouse, see page 35.



Connecting to Video Equipment

You can connect several video sources to the projector at the same time. Before starting, look at your video equipment to determine its available video output connections:

- If your video player has a yellow RCA-style video output connector, see "Connecting a Composite Video Source" on page 42.
- If your video player has an S-Video connector, see "Connecting an S-Video Source" on page 43.
- If your video player has a component video port (three connectors labeled either Y/Cb/Cr or Y/Pb/Pr), see "Connecting a Component Video Source" on page 44.
- If your video player has an RGB video port (either a single connector for a VGA-style monitor cable or three connectors labeled R/G/B), see "Connecting an RGB Video Source" on page 45.

After connecting video cables, you may also want to connect an audio cable to play sound through the projector; see page 47.



RCA connector (composite video)





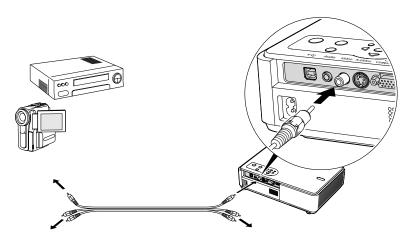
S-Video connector



VGA connector (RGB video)

Connecting a Composite Video Source

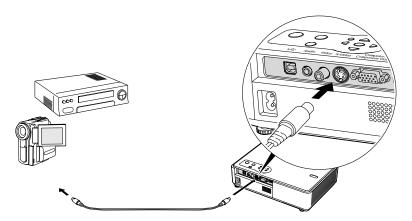
- 1. Locate an RCA-style video cable (one is usually provided with your video equipment or you can purchase one from an electronics dealer).
- 2. Connect the cable to the yellow video output connector on your player and the yellow Video connector on the projector:



- 3. If you want to play sound through the projector, see page 47 for instructions on connecting audio cables.
- 4. If you don't need to make any other connections, see page 18 or the *Quick Setup* sheet for instructions on turning on the projector and adjusting the image. Once the projector is turned on, select the image source: press the **Search** button on the remote control or press the **Source Search** button on the projector's control panel repeatedly until the image appears.

Connecting an S-Video Source

- 1. Locate an S-Video cable (one is usually provided with your video equipment or you can purchase one from Epson; see page 12).
- 2. Connect the cable to the S-Video connector on your player and the S-Video connector on the projector:

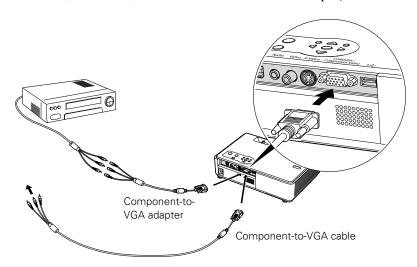


- 3. If you want to play sound through the projector, see page 47 for instructions on connecting audio cables.
- 4. If you don't need to make any other connections, see page 18 or the *Quick Setup* sheet for instructions on turning on the projector and adjusting the image. Once the projector is turned on, select the image source: press the **Search** button on the remote control or press the **Source Search** button on the projector's control panel repeatedly until the image appears.

Connecting a Component Video Source

You will need a component-to-VGA video cable or a component video-to-VGA adapter for this connection. You can order this cable (ELPKC19) from Epson; see page 13 for more information.

- 1. Locate a component-to-VGA video cable or adapter.
- Connect the cable to your player and the blue Computer/Component Video connector on the projector.



- 3. If you want to play sound through the projector, see page 47 for instructions on connecting audio cables.
- 4. If you don't need to make any other connections, see page 18 for instructions on turning on the projector and adjusting the image. Once the projector is turned on, select the image source: press the Search button on the remote control or press the Source Search button on the projector's control panel repeatedly until the image appears.

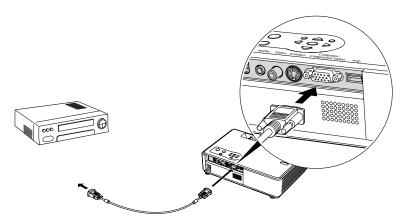
note

Be sure your video player is not an RGB video source. If you select the wrong source, image quality may suffer. Check your video player's documentation.

Also, make sure the Computer Input setting in the Signal menu is set to Auto or Component Video (see page 112).

Connecting an RGB Video Source

- 1. Locate the VGA computer cable provided with the projector.
- 2. Connect the cable to the video port on your player and the Computer/Component port on the projector.



- 3. If you want to play sound through the projector, see page 47 for instructions on connecting audio cables.
- 4. If you don't need to make any other connections, see page 18 for instructions on turning on the projector and adjusting the image. Once the projector is turned on, select the image source: press the Search button on the remote control or press the Source Search button on the projector's control panel repeatedly until the image appears.

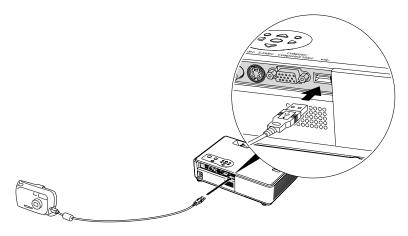
note

Be sure your video player is not a component video source. If you select the wrong source, image quality may suffer. Check your video player's documentation.

Connecting to a Digital Camera or Other Device

You can connect your digital camera, USB flash memory drive, USB hard drive, or multimedia storage viewer, such as the Epson P-2000 or iPod® photo. Use the USB cable specified for your device. Then you can use your device's slideshow function or the projector's EasyMP CardPlayer feature (see page 89) to present images.

- Make sure there is no card inserted in the projector's card slot.
- Connect the flat end of the USB cable to the flat USB port on the projector, as shown.



3. Connect the square end of the cable to your camera or other device.

Removing the USB Cable

If you're using CardPlayer to project your images, close the program before you remove the USB cable from the projector.

- Position the cursor over the EJECT button in the upper right corner of the CardPlayer screen.
- Press the Enter button on the remote control to close CardPlayer.
- Disconnect the USB cable.

note

Use a cable less than 10 feet long and connect the camera directly to the projector. Your projector may not function correctly if you use a longer cable or connect your camera to a USB hub.

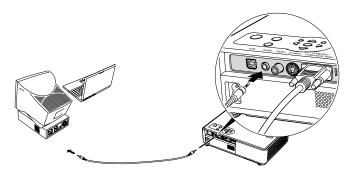
If you connect a USB hard drive, make sure you use the AC adapter to power the hard drive.

Playing Sound Through the Projector

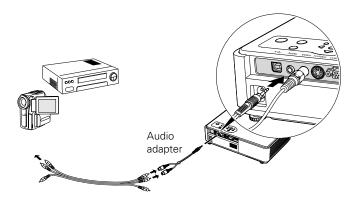
You can play sound through the projector's speaker system or attach an external speaker system.

To play sound through the projector, follow these steps:

- 1. Locate the appropriate cable and connect it to the Audio jack on the projector.
 - If you have a computer connected to the blue Computer/ Component Video port, use a stereo mini-jack cable.



■ If you have video equipment connected to the Video or S-Video port, use an RCA-style audio cable and the audio adapter included with the projector.



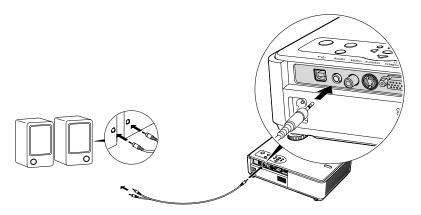
2. Connect the other end of the cable to the audio output connector(s) on your computer or video equipment.

Connecting External Speakers

When you use EasyMP, you can output the sound to external speakers with built-in amplifiers. First, you need to use the Settings menu to set the EasyMP Audio Out option to External. See page 114 for instructions.

To connect speakers to the projector, follow these steps:

- 1. Locate the appropriate cable to connect your speakers.
 - Depending on your speakers you may be able to use a commercially available audio cable with a stereo mini-jack connector on one end and pin jacks on the other end. For some speakers, you may have to purchase a special cable or use an adapter.
- 2. Connect the stereo mini-jack end of the audio cable to the Audio port on the projector.



3. Connect the other end(s) of the cable to your speakers.

The projector's internal speaker system is disabled while sound is output to external speakers, and you can't use the projector or remote control to control the volume.

Presenting Through a Wireless Network

This chapter tells you how to send pictures to the projector through a wireless network. Using EMP NS Connection, you can project images shown on your computer screen—including text and graphics—directly to your audience. Because images are displayed in real-time, any changes you make on your PC or notebook are automatically mirrored on the screen.

You'll find instructions in this chapter on:

- Starting EasyMP
- Connecting to the projector in Ad Hoc (computer-to-computer) mode or Access Point (infrastructure) mode
- Using wireless security options
- Projecting wirelessly
- Removing the wireless 802.11G/B card

Before starting, make sure you've installed EMP NS Connection as described on page 169 for each computer you want to connect to the projector. Then follow the steps in this chapter to start EasyMP, configure your projector and computer, and run EMP NS Connection.

Only the Epson 802.11G/B card is guaranteed to work. Other brands may not be compatible.

caution

note

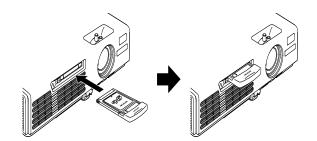
Be careful to insert the card correctly and never force the card in; doing so may damage it. The black end of the card protrudes from the slot when the card is fully inserted.

Always remove the card before transporting the projector. See page 84 for instructions.

Starting EasyMP

Before connecting to the projector, you have to switch it to EasyMP mode. Follow these steps:

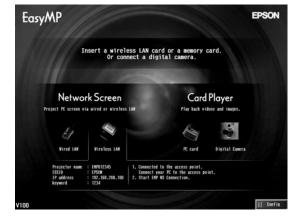
- 1. Turn on the remote control, as described on page 30. Point it at the projector and press the \circlearrowleft Power button.
- 2. Press the **EasyMP** button on the remote control to select EasyMP as the source.
- 3. Insert the Epson 802.11G/B card in the card slot with the label facing upward.



Once the card is inserted, you see one of these screens, depending on the currently selected mode:



Ad Hoc mode



Access Point mode

4. If you've already set up your computer and projector for the mode you want to use—Ad Hoc mode (also called computer-tocomputer mode) or Access Point mode (also called infrastructure mode)—skip to "Projecting Wirelessly" on page 74.

Otherwise, continue with the next section.

note

If you see a message asking you to insert a LAN or memory card, check to make sure your 802.11G/B card is properly inserted.

note

Make sure you've installed the NS Connection software as described on page 169.

To connect to the projector over a wireless network, your computer must be running Windows 98, Me, 2000, or XP. Your Macintosh must be running OS X 10.2.4 or later. See page 169 for complete system requirements for projecting wirelessly.

Access Point mode (infrastructure mode) is required to achieve transfer speeds up to 54MB/sec on an 802.11g network. Ad Hoc mode (computer-to-computer mode) limits network connections to 11MB/sec. This is a standard specification of 802.11g networking.

Configuring the Connection

You can use NS Connection to connect to the projector and send images wirelessly in two modes: Ad Hoc mode or Access Point mode.

- Ad Hoc mode (computer-to-computer mode) lets you connect just one computer to the projector at a time; it's easy to set up, and the only equipment you need is a computer with a wireless (802.11g or 802.11b) network card or adapter, or a Macintosh with an AirPort® or AirPort Extreme card.
- Access Point mode (infrastructure mode) lets multiple computers access the projector at the same time and easily trade off control over the projector. To use Access Point mode, you need a wireless (802.11g or 802.11b) access point or an AirPort Extreme (or AirPort) base station, and one or more computers with wireless network cards or adapters.

Follow the instructions below for the mode you want to use.

Using Ad Hoc Mode

To use Ad Hoc (computer-to-computer) mode, adjust your projector and wireless card or adapter settings as described in this section.

Configuring the Projector

1. Switch the projector to EasyMP mode and insert the Epson 802.11G/B card (see page 50). You see this screen:



Confia button

Presenting Through a Wireless Network

- 2. To select **Config**, press the **Enter** button on the remote control.
- 3. Highlight Basic under Wireless LAN and press Enter.

You see the following screen:



Make sure Easy connect mode is selected, as shown above. If not, use the p pointer button on the remote control to highlight the checkbox next to Easy connect mode, then press Enter to select it.

4. Make sure the projector has a unique name, so you can identify it when connecting to it from your computer.



If you need to rename it, highlight the Projector name text box then press Enter. The text box turns yellow to indicate you are in input mode.

Press the © pointer button up to select individual letters in alphabetical order, or down to select letters in reverse order; then press the © pointer button to the right to move to the next

note

If you want to enter a blank space, use the space character that comes before the capital letter A.

If you want to enter numbers, use the numeric keypad while holding down the Num button on the remote control.



note

The projector keyword changes each time you turn the projector off and then on again, or remove and reinsert the 802.11g card. Check the keyword on the EasyMP Network screen whenever you start EasyMP and enter that keyword on your computer. You can't connect using a previous keyword.

It is recommended that the keyword setting is changed periodically.

- character position. When you're done typing the new name, press Enter.
- 5. If your network card supports an SSID or ESSID name (see page 57), highlight the ESSID text box, press Enter, and enter the name of your ad hoc network. When you're done, press Enter.

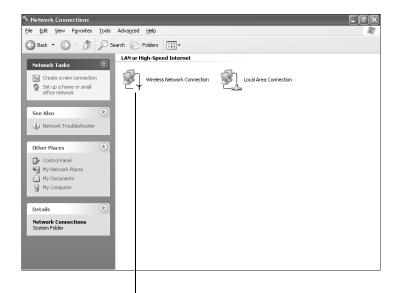
 Note that the ESSID is case-sensitive (if you enter the name in uppercase on the projector, you must type it the same way on the computer connecting to the projector).
- 6. If you want to create a password for remote access to the projector, highlight the Password for WEB control checkbox, press Enter, and enter a password of up to 8 alphanumeric characters. When you're done, press Enter.
- 7. If you want to set up a security keyword so that only people who are in the same room as the projector can access it, turn Projector keyword on. Then when you want to connect to the projector, it displays a randomized four-digit number or "keyword" on the screen. When prompted by NS Connection, you can enter the keyword on your computer to connect (see page 77).
- 8. When you're done making these settings, highlight the OK button at the top of the screen (you can either press the button on the remote control or use the pointer button to highlight it), then press Enter. Highlight the OK button again and press Enter to return to the main EasyMP Network Screen.

Now you're ready to set up your computer for wireless projecting. Go to "Configuring the Network Settings for Windows" below, or "Setting Up Your Macintosh for Ad Hoc Mode" on page 57.

Configuring the Network Settings for Windows

Before connecting to the projector, you need to make sure the settings for your notebook's or PC's network card match the settings you entered for the projector.

 Access your wireless network Properties window. For example, in Windows XP you would click Start > Control Panel > Network and Internet Connections. Then click the Network Connections icon. You see a screen similar to this:



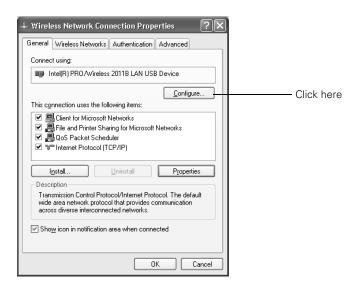
Right-click and select Properties

note

On some Windows systems, you can right-click
My Network Places or
Network Neighborhood on the desktop and select
Properties.

Settings may vary, depending on your wireless network adapter. See the documentation for your adapter for more information.

2. Right-click the Wireless Network Connection icon and select Properties. You see a screen similar to this:



- 3. Click the Configure button.
- 4. Click the Advanced tab. You see a screen similar to this:



- Check your wireless card's or adapter's device settings.
 (Depending on the type of card or adapter you're using, some of the settings may be different than those listed here.)
 - Set the Network Type to 802.11 Ad Hoc.
 - Set the SSID to match the name you assigned to the projector's ESSID.
 - Make sure Encryption is **Disabled**.
- 6. Click the **General** tab and make sure that your wireless card or adapter is enabled.
- 7. When you're done, click **OK** to close the Properties dialog box.

Now you're ready to connect to the projector. See "Projecting Wirelessly" on page 74.

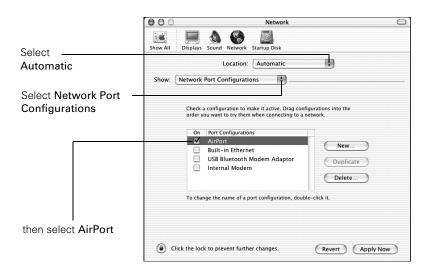
Setting Up Your Macintosh for Ad Hoc Mode

Your AirPort software is automatically configured to allow your Macintosh to detect both computer-to-computer (Ad Hoc) and Access Point networks.

Typically, you only need to select your projector's ESSID from the AirPort status menu on the Macintosh menu bar. If you're having problems detecting the projector, follow these steps:

- 1. From the Apple pull-down menu, select System Preferences.
- 2. Double-click the **Network** icon. You see the Network settings window.

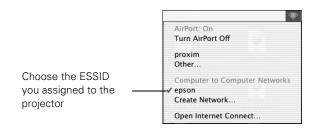
3. Make sure Location is set to Automatic.



note:

If you don't need the other network port configurations, disable them by deselecting their checkboxes. If more than one network port is enabled, the projector software warns you to turn off AirPort when you first connect the projector. Disregard this message.

- 4. Select **Network Port Configurations** in the Show pull-down menu.
- 5. Under Port Configurations, select AirPort.
- 6. Click Apply Now. Then close the window.
- 7. Click the AirPort icon on the menu bar at the top of the Macintosh desktop. You see the AirPort status menu:



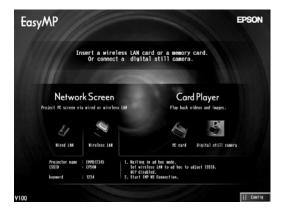
- 8. Check to make sure AirPort is turned on.
- 9. Select your projector's ESSID.

Using Access Point Mode

To use Access Point (infrastructure) mode, first adjust your projector and wireless access point or AirPort base station settings as described in this section.

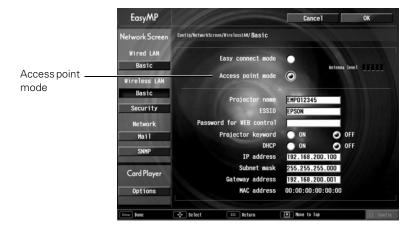
Configuring the Projector

1. Switch the projector to EasyMP and insert the Epson 802.11G/B card (see page 50). You see this screen:



- 2. To select Config, press the Enter button on the remote control.
- 3. Highlight Basic under Wireless LAN and press Enter.

You see the following screen:



note

If you want to enter a blank space, use the space character that comes before the capital letter A.

If you want to enter numbers, use the numeric keypad while holding down the Num button on the remote control. Press the Num button again to exit numeric keypad mode.

note

The projector keyword changes each time you turn the projector off and then on again, or remove and reinsert the 802.11g card. Check the keyword on the EasyMP Network screen whenever you start EasyMP, and enter that keyword on your computer. You can't connect using a previous keyword.

Make sure Access point mode is selected, as shown above. If not, use the pointer button on the remote control to highlight the checkbox next to Access point mode, then press Enter to select it.

- 4. Make sure the projector has a unique name so you can identify it when connecting to it from your computer.
 - If you need to rename it, highlight the Projector Name text box and press Enter. The text box turns yellow to indicate you are in input mode. Press the © pointer button up to select individual letters in alphabetical order, or down to select letters in reverse order; then press the © pointer button to the right to move to the next character position. When you're done typing the new name, press Enter.
- 5. To enable your computer to find the projector on the network, you need to enter an ESSID, which is the SSID name of your access point or the name of your AirPort network. (The name of your AirPort network may be different from that of your AirPort base station; select your base station in the AirPort Admin utility and click Configure to check the name of your network.)
 - Highlight the ESSID text box, press Enter, and enter a name. When you're done, press Enter. Note that the ESSID is case-sensitive (if you enter the name in uppercase on the projector, you must type it the same way on the computer connecting to the projector).
- 6. If you want to create a password for remote access to the projector, highlight the Password for WEB control text box and press Enter, and enter a password of up to 8 alphanumeric characters. When you're done, press Enter.
- 7. If you want to set up a security keyword so that only people who are in the same room as the projector can access it, turn Projector keyword on. Then when you want to connect to the projector, it displays a randomized four-digit number or "keyword" on the screen. When prompted by NS Connection, you can enter the keyword on your computer to connect (see page 77).

- 8. If your access point assigns IP addresses automatically, turn on DHCP. Otherwise, turn off DHCP and enter the following information manually:
 - IP address: Type in the IP address you want to assign to the projector. It must be formatted like other addresses on the network. The last section should be unique.
 - Subnet mask: For example: 255.255.255.000, but this depends on how your network is set up.
 - Gateway address: Enter the IP address that was assigned to the access point or AirPort base station when it was set up.
- If you want to monitor the projector using HP OpenView,[™] you'll need to enter at least one trap IP address. See page 122 for details on monitoring the projector.
- 10. When you're done making these settings, highlight the OK button at the top of the screen (you can either use the ⋄ button on the remote control or press ▶ to highlight it), then press Enter. Highlight the OK button again and press Enter to return to the main EasyMP Network Screen.

Now you're ready to set up your computer for wireless projecting. Go to "Configuring the Network Settings for Windows" below, or go to "Setting Up Your Macintosh for Access Point Mode" on page 68. If you need to use WEP, WPA, or LEAP security options, see page 70 to set up the option that your network uses on the projector.

note

For specific details about your network, please consult your network administrator.

If you don't know your gateway or access point address, see page 67. If you're using AirPort, start the AirPort Admin utility, select your base station and click Configure. Then click the Network tab to see your base station's IP address.

note

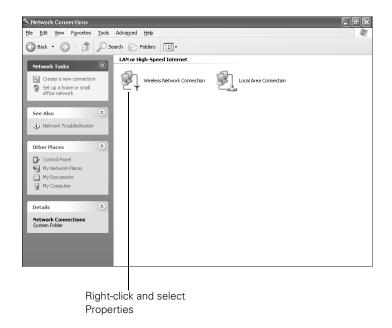
On some Windows systems, you can right-click
My Network Places or
Network Neighborhood on the desktop and select
Properties.

Settings may vary, depending on your wireless network adapter. See the documentation for your adapter for more information.

Configuring the Network Settings for Windows

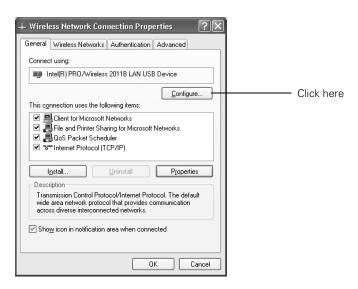
Before connecting to the projector, you need to make sure the settings for your computer's wireless card or adapter match the settings you entered for the projector.

 Access your wireless network Properties window. For example, in Windows XP you would click Start > Control Panel > Network and Internet Connections. Then click the Network Connections icon. You see a screen similar to this:



2. Right-click the Wireless Network Connection icon and select Properties.

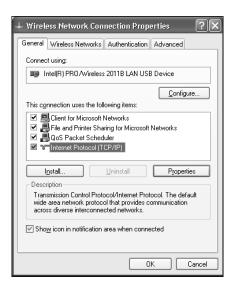
You see a screen similar to this:



- 3. Click the Configure button.
- 4. Click the Advanced tab. You see a screen like this:



- Check your wireless card's or adapter's device settings.
 (Depending on the type of card or adapter you're using, some of the settings may be different than those listed here.)
 - Set the Network Type to Infrastructure.
 - Set the SSID to match the name assigned to the access point (which should also be the projector's ESSID).
 - Make sure Encryption is **Disabled** if you have not set up encryption on the projector.
- 6. Click the **General** tab and make sure that your wireless card or adapter is enabled.
- 7. When you're done, click **OK** to close the wireless properties dialog box.
- 8. Right-click the Wireless Network Connection icon again and select Properties. You see this screen:



9. Select Internet Protocol and click the Properties button. You see this screen:



- 10. If your access point uses DHCP, select Obtain an IP address automatically. Otherwise select Use the following IP address and enter the required information:
 - IP address: Type in the IP address you want to assign to the computer. It must be formatted like other addresses on the network. The last section must be unique.
 - Subnet mask: For example: 255.255.255.000, but this depends on how your network is set up.
 - **Default gateway**: Enter the IP address that was assigned to the access point when it was set up.
- 11. When you're done, click OK.
- 12. Click the Wireless Networks tab.

(If you don't see this tab, you may need to enable your wireless card or adapter by clicking **Configure** to access the device settings; then follow any instructions on the screen to enable the device.)

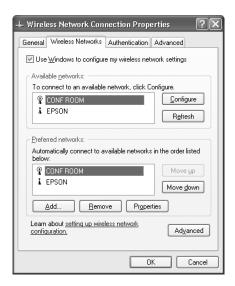
note

For specific details about your network, please consult your network administrator.

note

If you don't know your gateway or access point address, see page 67.

You see a screen like this:



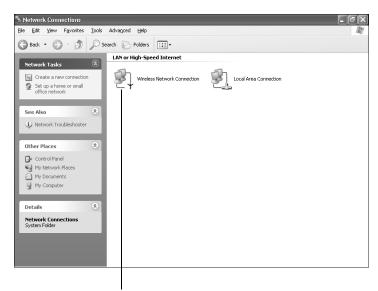
- 13. Verify that you've enabled your computer's connection to the access point. It should be listed with the small \P icon next to it, indicating a connection.
 - If it's not listed, click **Configure** and type the name of your access point.
- 14. When you're done making settings, click **OK** to close the dialog box.

Now you're ready to connect to the projector. See "Projecting Wirelessly" on page 74.

Checking the Gateway IP Address on Windows

If you're entering IP addresses manually and need to find out the gateway IP address (the IP address of your access point), make sure the wireless connection to the access point is currently active, as described in the previous section. Then follow these steps:

 Access your wireless network Properties window. For example, in Windows XP you would click Start > Control Panel > Network and Internet Connections. Then click the Network Connections icon. You see a screen similar to this:



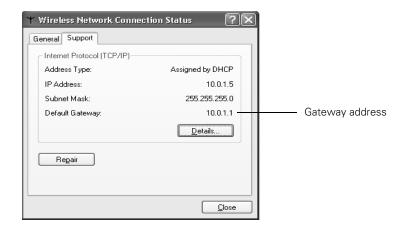
Right-click and select Status

Right-click the Wireless Network Connection icon and select Status.

note

If you cannot identify the gateway address using this Windows utility, use the administrator's utility software that came with your access point.

3. Click the **Support** tab. The gateway's IP address is listed as shown:



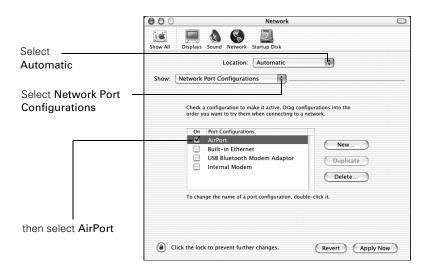
Setting Up Your Macintosh for Access Point Mode

Your AirPort software is automatically configured to allow your Macintosh to detect Access Point networks.

Typically, you only need to select your AirPort network name from the AirPort status menu on the Macintosh menu bar. If you're having problems connecting to the projector, follow these steps:

- 1. From the Apple pull-down menu, select System Preferences.
- 2. Click the Network icon. You see the Network settings window.

3. Make sure Location is set to Automatic.



- 4. Select **Network Port Configurations** in the Show pull-down menu.
- 5. Under Port Configurations, select AirPort.
- 6. Click Apply Now. Then close the window.
- 7. Start the AirPort Admin utility. Select your base station, then click Configure.
- 8. On the AirPort tab, make sure your AirPort network name matches your projector's ESSID. If not, enter the projector's ESSID in the AirPort Network text box and click Update.
- 9. If you turned DHCP on in your projector's advanced menu, click the Network tab and make sure the Distribute IP addresses checkbox is selected. If you need to select it, click Update.

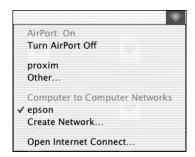
note

If you don't need the other network ports, disable them by deselecting their checkboxes. If more than one network port is enabled, the projector software warns you to turn off AirPort when you first connect the projector. Disregard this message.

Your AirPort network and base station names may be different. To check or change your AirPort network name, start the AirPort Admin utility, select your base station, and click Configure. Click Show All Settings, then make any changes you want on the AirPort tab.

If you're connecting to your projector in static IP mode, deselect the Distribute IP addresses checkbox. Make sure your projector's gateway address is identical to the base station's IP address, and the first three segments of the projector's IP address are identical to the first three segments of the base station's IP address.

10. Click the AirPort icon on the menu bar at the top of the Macintosh desktop. You see the AirPort status menu:



- 11. Check to make sure AirPort is turned on.
- 12. Select the name of your AirPort network.

Using Wireless Security Options

You can use the following security options when connecting to the projector wirelessly: WEP encryption, WPA security, or LEAP authentication. To set these security features up on your wireless network, see your documentation or get help from your network administrator. See the following sections to enable the security option on your projector:

- "Adding WEP Encryption" on page 71
- "Adding WPA Security" on page 72
- "Adding LEAP Authentication" on page 73

Adding WEP Encryption

When you click the **Security** button on the Network screen, you see this screen:



- 1. Highlight WEP and press Enter.
- 2. For the WEP encryption setting, highlight 128Bit or 64Bit and press Enter.
- 3. For Format, highlight HEX to enable hexadecimal input, then press Enter.
- 4. If you chose 64Bit, highlight Key ID 1, 2, 3, or 4.
- 5. Highlight the Encryption key text box and press Enter. The box turns yellow to indicate you are in input mode. Press the
 pointer button up to select individual letters in alphabetical order, or down to select letters in reverse order; then press the
 pointer button to the right to move to the next character position. When done typing your encryption key, press Enter.

Check with your network administrator for directions on entering a key for your network, and follow these general guidelines:

■ For 128 bit WEP encryption with hexadecimal input, enter 26 characters, from 0 to 9 and from A to F.

note

Text input for WEP encryption varies with different access points; check with your network administrator. Try ASCII first. If that doesn't work, try Text2 and then Text3.

If you want to enter a blank space, use the space character that comes before the capital letter A.

If you want to enter numbers, use the numeric keypad while holding down the Num button on the remote control. Press the Num button again to exit numeric keypad mode.

- For 64 bit WEP encryption with hexadecimal input, enter 10 characters, from 0 to 9 and from A to F.
- For 128 bit WEP encryption with ASCII or text input, enter 13 alphanumeric characters.
- For 64 bit WEP encryption with ASCII or text input, enter 5 alphanumeric characters.
- 6. When you're done making settings, highlight the **OK** button at the top of the screen and press **Enter**.

Adding WPA Security

When you click the **Security** button on the Network screen, you see this screen:



note

If you want to enter a blank space, use the space character that comes before the capital letter A.

If you want to enter numbers, use the numeric keypad while holding down the Num button on the remote control. Press the Num button again to exit numeric keypad mode.

- 1. Highlight WPA and press Enter.
- 2. Highlight the PSK (pre-shared key) text box and press Enter. The text box turns yellow to indicate you are in input mode. Press the pointer button up to select individual letters in alphabetical order, or down to select letters in reverse order; then press the pointer button to the right to move to the next character position. When done typing the key, press Enter.

3. When you're done making settings, highlight the OK button at the top of the screen and press Enter.

Adding LEAP Authentication

When you click the **Security** button on the Network screen, you see this screen:



- 1. Highlight LEAP, then press Enter.
- 2. Enter the user name and password that match the settings on your authentication server:
 - Highlight the User name text box and press Enter. The box turns yellow to indicate you are in input mode. Press the
 ⑤ pointer button up to select individual letters in alphabetical order, or down to select letters in reverse order; then press the ⑤ pointer button to the right to move to the next character position. When done typing the user name, press Enter.
 - Highlight the Password text box and press Enter. The box turns yellow to indicate you are in input mode. Press the
 © pointer button up to select individual letters in alphabetical order, or down to select letters in reverse order;

note

If you want to enter a blank space, use the space character that comes before the capital letter A.

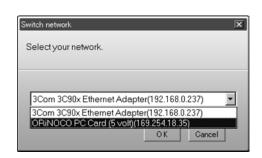
If you want to enter numbers, use the numeric keypad while holding down the Num button on the remote control. Press the Num button again to exit numeric keypad mode.

- then press the © pointer button to the right to move to the next character position. When done typing the password, press Enter.
- 3. When you're done making settings, highlight the **OK** button at the top of the screen and press **Enter**.

Projecting Wirelessly

Once you've started EasyMP and set up your projector and computer in either Ad Hoc mode or Access Point mode, follow these steps to start NS Connection and project wirelessly.

- 1. Make sure you've installed your 802.11G/B wireless card in your projector (see page 50).
- 2. Windows: Select EMP NS Connection from the Start menu.
 - Macintosh OS X: Double-click the EMP NS Connection icon in your Applications folder.
- The first time you start NS Connection, you may see a dialog box asking you to select your network. Select the IP address for your computer's network card and click OK.



note

If you don't see your network adapter's IP address, allow a minute for it to appear. If your access point or AirPort base station uses DHCP (Distribute IP addresses setting is enabled for AirPort), sometimes it takes a minute for the server to pick up the IP address.

Once you've selected the IP address for your network adapter, you won't see the Switch network dialog box when you start NS Connection. If you want to change to a different network adapter, click Extension on the EMP NS Connection dialog box, then click Switch LAN on the extension dialog box.

You see the screen below. (If you have previously started NS Connection, this is the first screen you see.)



If the connection is working properly, you see your projector listed. If you have additional Epson projectors on the network, they are also listed, along with their status.

The color of the status icon next to each projector's name indicates its status:

- Gray: the projector is not connected
- Orange: the projector is connected to another computer
- Green: the projector is connected to your computer

If you don't see your projector, check the following:

- Make sure your wireless signal is strong enough to establish a connection. If you have a Macintosh, check the AirPort icon on the Macintosh menu bar. For Windows, see the documentation for your access point or computer network card.
- Make sure you're trying to connect to the right network. In Windows, verify that you've enabled your computer's connection to the access point or that your wireless card or adapter is enabled, and that its SSID matches the projector's ESSID. In Macintosh, check the AirPort status menu (click

note

If a projector is in use and is "locked," you won't be able to select it.

note

If none of these suggestions work, see the troubleshooting information beginning on page 162.

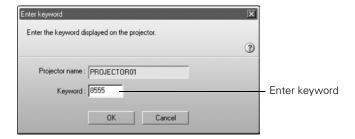
the AirPort icon on your menu bar) to make sure AirPort is turned on and the projector's ESSID or your AirPort network is selected.

- Make sure you aren't projecting one of the EasyMP configuration screens. (You should see a message that the projector is ready to connect.) If you have to exit a configuration screen, restart NS Connection.
- Make sure the ESSID for your projector matches the SSID for your wireless card, adapter, or access point. If you have an AirPort base station, make sure the projector's ESSID matches the AirPort network name. Remember that the ESSID is case-sensitive.
- Check the IP address for both your projector and your wireless card, adapter, access point, or AirPort base station. The first three segments of the IP address should be identical. The last segment of the projector's IP address should be close, but not identical, to the last segment of the IP address for your wireless interface, access point, or base station.
- Restart your computer and start NS Connection again.
- If you still don't see your projector, follow the instructions in "Connecting in IP Connect Mode" on page 80 to connect to the projector.

note

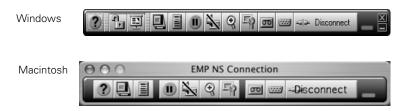
The AirPort network name may be different than the AirPort base station name. To check the network name, start the AirPort Admin utility, select your base station, and click Configure. Then click Show All Settings. The network name appears on the AirPort tab.

- 4. Once the name of your projector appears, select it and click **Connect**. If more than one projector is listed, you can select additional ones and connect to them at the same time.
 - If the selected projector is already being used by another person, you can still connect to it (unless it is "locked"); doing so automatically disconnects the other user. If a projector is locked, you won't be able to connect to it when it is in use.
- 5. If you set up the projector to prompt you for a keyword before connecting, you see a screen like this one:



Type in the four-digit number displayed on the EasyMP Network screen and click **OK**.

6. Once the connection is established, you see your computer's image transmitted to the screen, and a floating control bar on your computer desktop:



- 7. If necessary, you can drag the control bar out of the way on your screen.
- 8. When you're done with your presentation, click **Disconnect** on the control bar.

note

If you want your presentation encrypted, click Extension and select Use encrypted communication.

This step enhances security but decreases the data transmission speed.

Using the Control Bar

From the control bar, you can access these NS Connection features:

?	Provides help for NS Connection.	
T	Locks the projector while it is in use and prevents anyone else from connecting to it (Windows only)	
	Limits projection to PowerPoint presentations only (Windows only)	
	Lists projectors and specifies which ones are in use.	
	Lets you access the projector's menu system from an HTML browser window. See page 132 for more information.	
•	Lets you keep the projected image on screen, even if the image on your computer changes.	
*	Turns off the image and sound.	
•	Lets you zoom in on a part of your image.	
r.	Lets you change the brightness, contrast, and color mode.	
00	Lets you switch between the Video, and S-Video ports.	

Lets you switch between the computer

and EasyMP.

Clicking one of the buttons on the control bar may cause a submenu to appear above the control bar. For example, clicking the with button displays the following submenu:



If you're using more than one projector, you can use the **Projector** drop-down menu to select the projector on which you want to make any of the following changes:

Brightness

Increase or decrease brightness.

Keystone

Click + to narrow the top edge of the screen, or – to narrow the bottom edge (this option functions like the $\ ^{\ }$ and $\ ^{\ }$ buttons on the projector's control panel).

Contrast

Increase or decrease image contrast.

Color Mode

Lets you select from five preset modes to adjust the color and brightness for specific environments: sRGB for computer displays, Dynamic for presentations in bright rooms, Presentation for presentations in dark rooms, Theatre for optimizing movie images, and Living Room for video games.

When you're done, click the arrow in the upper right corner to close the submenu.

note

Depending on your network, your projector and computer may connect over different routers even if they are in the same room. Try this method if you are unable to connect automatically.

Connecting in IP Connect Mode

You can establish a connection manually using IP Connect Mode even if your projector and computer are on a different subnet (Access Point mode only) or connecting over different routers.

1. Start NS Connection (see page 74). You see this screen:



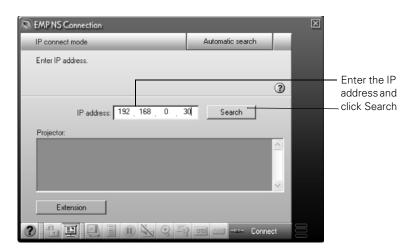
2. Click the Extension button. You see this screen:



3. Select Use IP connect mode and click OK. You see this screen:



4. Click IP connection. You see this screen:

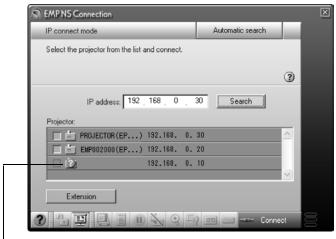


5. Enter the projector's IP address and click Search.

note

You can add up to 16 projectors to the list. If you add more, NS Connection begins to delete projectors from the list, starting with the first projector added.

The IP address appears in the Projector list and a searching icon displays. When the projector is found, its name appears in the list:



This icon appears if the search fails to find the projector

If the search fails to find a projector with the specified IP address, the searching icon turns into a question mark. If this happens, run EasyMP on your projector (see page 50) to check the projector's IP address, then repeat this step.

- 6. Click the projector you want to connect to and click the **Connect** button. If more than one projector is listed, you can select additional projectors and connect to them at the same time.
- 7. If you are prompted for a keyword, enter the four-digit number displayed on the EasyMP Network screen and click **OK**.

The computer's image is transmitted to the projector and appears on the screen. See page 77 for details about using the floating control bar on your computer desktop.

note

You can connect to a projector while another person is using it. Follow the steps on page 83.

Switching Between Users

To connect to the projector while another person is already using it (Access Point mode only), follow these steps.

1. Start NS Connection (see page 74). You see this screen:

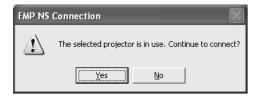


note

If a projector is in use and is "locked," you won't be able to select it.

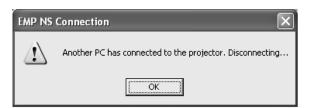
2. Select the projector you want to use and click Connect.

You see this message:



Click Yes to connect.

The other user is automatically disconnected and notified about the interruption:



Removing the Wireless 802.11g Card

Follow these steps to remove the card from your projector.

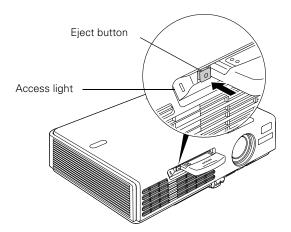
1. If you're running NS Connection, click **Disconnect** on the control bar.

caution

Never remove the card while the card indicator light is green or when projecting wirelessly. You may damage the card or lose data.



2. Check the card access light to make sure it isn't flashing. Then press the eject button. The button pops out.



- 3. Press the eject button again. The wireless card partially ejects.
- 4. Pull the card straight out. Then press the eject button back in to prevent it from being damaged.

Presenting from a Memory Card, Digital Camera, or External Drive

The projector's EasyMP feature lets you give presentations from a memory card or a digital camera connected to the projector with a USB cable. You can play movies, display graphics, or play a *scenario*, a format that lets you create your own slideshow using PowerPoint files, JPG image files, and BMP graphics files.

This chapter covers the following:

- Inserting the memory card in the projector and removing it
- Creating a slideshow on the fly
- Presenting image files from a digital camera
- Presenting image files from an external drive
- Creating a scenario
- Transferring your scenario to a memory card
- Presenting scenarios
- Supported file formats

note

To create a scenario, you need a memory card and a card reader on your computer. Also make sure you've installed the EMP SlideMaker software (available for Windows only), as described on page 171.

Depending on the type of card you have, you may also need an adapter to use it with the projector. See page 101.

note

If a digital camera is connected to the projector, disconnect it before inserting the memory card. The memory card is not functional when a digital camera is connected.

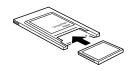
caution

Never force the card into the slot; you could damage the projector.

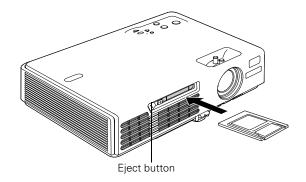
Inserting a Memory Card in the Projector

Follow these steps to insert the memory card in the projector:

1. If necessary, insert the card into a PC card adapter. (ATA flash cards don't require an adapter.)



Insert the card (with the adapter) into the projector with the label facing up. The projector does not have to be turned off before inserting the card.



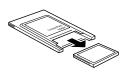
Removing a Memory Card

When you're done using the projector and want to remove the memory card, follow these steps.

- 1. Make sure the card is not in use (the indicator light next to the card slot should be off).
- 2. Press the eject button above the card slot.

The button pops out.

- 3. Press the button again. The memory card is released, and you can remove it from the slot in the projector.
- 4. To remove the card from the adapter, pull it out as shown:



note

If you are using CardPlayer, highlight the EJECT button and press Enter on the remote control. Then wait for the indicator light to go off before you eject the card.

Creating a Slideshow on the Fly

If you have a folder on your memory card containing an assortment of images, you can display them as a slideshow.

Displaying the Slideshow

First make sure the images are stored in a folder on the memory card. Then follow these steps:

1. Use the pointer button on the remote control to highlight the folder containing your images and press Enter.



 From the drop-down menu, use the pointer to select Play Slideshow and press Enter. The images contained in the folder are presented as a slideshow.

Use the remote control to run the slideshow as described in the next section.

Controlling Your Slideshow

While your slideshow is running, use the remote control as follows:

- Press Enter or Page down to display the next slide or image, or to begin playing a movie.
- Press → Page up to display the previous slide or image, or to replay a movie.

- Press the appropriate side of the © pointer button to rotate a slide or image on the screen.
- To exit the slideshow at any point, press the Esc button. Press the Enter button to confirm that you want to exit.

Changing Timing and Other Settings

For each folder on the memory card, you can set the display timing for your slides and change several other display settings.

- 1. Select the folder containing the images for the slideshow settings you want to change and press Enter.
- 2. From the drop-down menu, use the pointer to select **Options** and press Enter.

You see this screen:



- 3. Use the © pointer button to select from the following settings. After making a selection, press Enter to save the change.
 - Continuous Play
 Determines whether to repeat the display of images in the folder.
 - Screen switching time Sets the display time for each image. Choose No if you want to change slides manually.

Display order

Lets you choose between displaying alphabetically by file name or by image file date.

■ Effect

Lets you choose from various transitions between slides, such as Dissolve or Wipe.

Mode switching

Lets you choose the mode to use when presenting slideshows, movies, or images, or editing a scenario on the projector.

In Guide mode, a drop-down menu appears whenever you select an item and press Enter.

In Quick mode, selecting a scenario, movie, or image file and pressing Enter starts the presentation; selecting a folder and pressing Enter opens the folder. To access the menus in Quick mode, press the Esc key.

4. When you're done, highlight **OK** and press **Enter**. Your changes are permanently saved with each folder—even if you turn off the projector or remove the memory card.

Presenting Image Files From a Digital Camera

This section explains how to project individual image files on your digital camera using EasyMP CardPlayer and a USB cable connection.

Before you begin, make sure there is no memory card in the projector's card slot. You cannot have the camera connected while a memory card is inserted; neither the camera nor the card will function with EasyMP CardPlayer.

Follow these steps:

- 1. Connect your digital camera (see page 46).
- 2. Turn on your digital camera.
- 3. Turn on the projector and the remote control, if they're not already on.

note

Most digital cameras also have the ability to play internal slideshows. Depending on the kind of cable you have, you can connect a camera with a video or A/V out port to the projector's Video or S-Video port and transmit your camera's slideshow directly to the projector. You must press the Video or S-Video button on the remote control to select the correct signal source. See pages 42 or 43 for details.

note

Make sure your camera shows up on your desktop as a drive letter. If it does, it is probably a USB mounted device and will work with the projector software. The EasyMP software does not support TWAIN-compliant digital cameras.

If your camera's memory card is supported by the projector, you can insert it into the projector's card slot and project your images (see "Creating a Slideshow on the Fly" on page 87). You can't have your camera connected at the same time.

- Select EasyMP as the source by pressing the EasyMP button on the remote control. If your camera complies with the DCIM standard, you'll see a DCIM folder appear on the EasyMP CardPlayer screen.
- 5. Use the © pointer button on the remote control to position the cursor on the folder and press Enter.
- 6. Select **Open Folder** in the drop-down menu. When the folder opens, you see another folder with your manufacturer's name.
- 7. Position the cursor on the folder and press Enter.
- 8. Select **Open Folder**. You see your image files when the folder opens.
- 9. Position the cursor on the image file you want to project and press Enter.
- 10. Select View Image. The image is projected on the screen. If you want, you can press a side of the \odot pointer button to rotate the image while you're viewing it.

To end the slideshow, press the Esc button on the remote control, then select Exit and press Enter.

Presenting Image Files From an External Drive

This section explains how to project individual image or movie files from an external hard drive or flash memory drive using EasyMP and a USB connection.

Before you begin, make sure there is no memory card in the projector's card slot. You cannot have a drive connected while a memory card is inserted; neither the drive nor the card will function with EasyMP.

Follow these steps:

1. Connect your external hard drive or flash memory drive (see page 46).

- 2. Plug in your external hard drive.
- 3. Turn on the projector and the remote control, if they're not already on.
- 4. Select EasyMP as the source by pressing the **EasyMP** button on the remote control.
- 5. Use the © pointer button on the remote control to position the cursor on the folder where your photos or movies are stored and press Enter.
- 6. Select **Open Folder** in the drop-down menu. When the folder opens, you see another folder with your manufacturer's name.
- 7. Position the cursor on the folder and press Enter.
- 8. Select **Open Folder**. You see your image files when the folder opens.
- 9. Position the cursor on the image file you want to project and press Enter.
- 10. Select View Image. The image is projected on the screen. If you want, you can press a side of the ⊚ pointer button to rotate the image while you're viewing it.

To end the slideshow, press the Esc button on the remote control, then select Exit and press Enter.

note

To create a scenario, you need a memory card and a card reader on your computer. Also make sure you've installed the EMP SlideMaker software (available for Windows only), as described on page 171.

Depending on the type of card you have, you may also need an adapter to use it with the projector. See page 101.

Creating a Scenario

A scenario is a combination of images, movies, and/or audio files that you can present from a memory card. The easiest way to create a scenario is to drag and drop a PowerPoint file on the EMP SlideMaker2 icon on your desktop. This automatically converts the file to a scenario that you can save to the memory card. Use this method if you have an existing PowerPoint presentation that you want to transfer to the projector.

If you prefer, you can create a scenario from scratch by combining a selection of PowerPoint slides, other graphics, and even movies (see page 94).

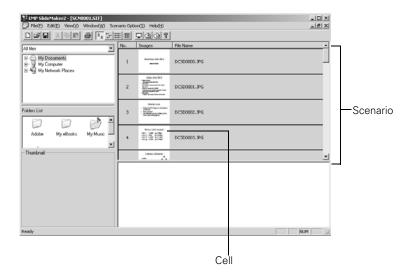
Converting a PowerPoint File to a Scenario

Follow these steps to convert a PowerPoint file to a scenario. Once the scenario is created, you can set up transitions as described on page 98.

- 1. Make sure the EMP SlideMaker program is closed.
- 2. Locate the PowerPoint file you want to use in My Computer or Windows Explorer.
- 3. Drag the file icon on top of the EMP SlideMaker2 icon on your desktop.
- 4. You see a message that some transitions are not supported. Click **OK**.

EMP SlideMaker 2 starts and your PowerPoint slides open one-by-one as they are converted. Do not interrupt this process or your PowerPoint file won't be completely converted.

5. When you see a message that the slideshow is complete, left mouse-click or press Enter as prompted. You see your scenario as shown below. The scenario is made up of individual cells for each of the PowerPoint slides.



 At this point, you can insert additional images or create transition effects between slides. (See "Building a Scenario from Different Files" on page 96 and "Setting Up Transitions" on page 98 for details.)

If there are slides in the scenario that you don't want to use, right-click those cells and select **Inactivate**.

7. Choose **Save** from the File menu.

EMP SlideMaker 2 automatically names your scenario SCNnnnn.sit (where nnnn is an automatically assigned number). It also creates a folder for it within your \Program Files\EMP SlideMaker2 folder. However, you can choose Save As from the File menu and enter a new scenario name and folder location if you want.

Once your scenario is saved, you can transfer it to the memory card in your computer's PC card (PCMCIA) slot (see page 101).

note

You have to save the scenario on your computer's hard drive before transferring it. Don't save it directly to the memory card, or it may not play correctly.

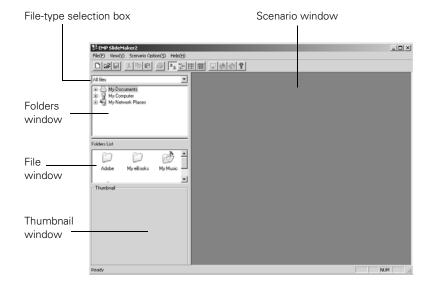
Creating a Scenario from Scratch

Use this method when you want to create a scenario from a selection of PowerPoint slides, graphics, or movie files. You'll need to set up your scenario file and folder, build the scenario, set up transitions, and check the scenario.

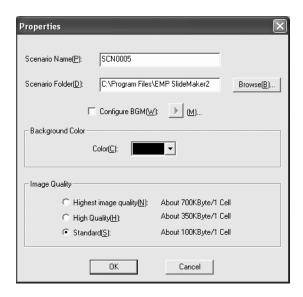
Setting Up the Scenario File and Folder

1. Double-click the EMP SlideMaker2 icon on your computer's desktop (or click Start > Programs or All Programs > Epson Projector > EMP SlideMaker2).

You see the EMP SlideMaker 2 screen:



2. Choose **New** from the File menu. You see the scenario Properties dialog box:



- 3. Type a name for your scenario file and folder that's easy to remember, using up to eight capital letters and numbers. Then select from the following options:
 - The default location for the scenario file and folder is in the \Program Files\EMP SlideMaker2 folder. Click Browse to choose a new location.
 - Click Configure BGM(W) to play an audio file during the scenario. A selection screen appears letting you choose a .WAV file. After you select the file you want, click the arrow button to the right of the option to play it.
 - The Background Color appears around images that don't fill the entire screen area. Select a new color, if desired.
 - Select the Image Quality for imported PowerPoint slides. Higher-quality images look better on the screen but may take longer to appear.
- 4. Click **OK**. You return to the EMP SlideMaker 2 screen.

Continue with the instructions in the next section to build your scenario.

note

The scenario name you enter is also the name of the folder for your scenario on your hard drive.

note

You can also use the instructions in this section to add files to an existing scenario.

Building a Scenario from Different Files

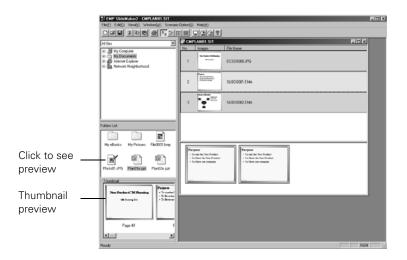
You can build your scenario from any of the following file types, either alone or in combination with other file types:

- PowerPoint slides, version 2000 through 2003 (file names have .PPT extension)
- JPEG files (with .JPG extension)
- Bitmap files (with .BMP or .DIB extension)
- Movie files (with .MPG extension); must be MPEG 2 (MPEG1 is not supported)

Follow these steps:

1. Use the navigation tools on the left side of the EMP SlideMaker 2 screen to locate the files you want to include in your scenario.

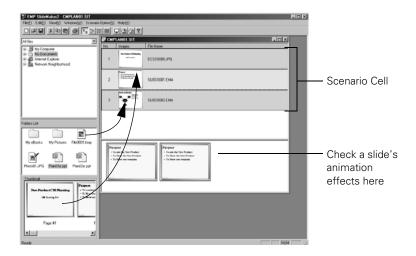
PowerPoint, JPEG, bitmap, and movie files appear as icons in the file window.



note

Thumbnail previews for PowerPoint slides will not appear if PowerPoint is not installed on your computer. 2. Click the icon for each file that you want to preview. The preview appears in the thumbnail preview window. If you click a PowerPoint icon, thumbnail images are generated for all the slides in the PowerPoint file. If you click a movie file, an illustration of a film strip appears.

3. Drag and drop the files you want to include in your scenario from either the file window or thumbnail window into the scenario window. (You can also double-click a thumbnail to add the file to the scenario.)



To include a whole PowerPoint file (instead of individual slides), drag the PowerPoint icon itself into the scenario window. Dragging an entire file preserves the transitions set in PowerPoint.

- 4. Continue dragging files into the scenario window to build your presentation. Each slide appears in a numbered cell. The cell background color varies according to the type of file in the cell.
- 5. If you want, you can make changes to the scenario:
 - To rearrange cells, drag and drop them as necessary within the scenario window.
 - To delete a cell, right-click the cell and select Cut.
 - To check the animation for a slide, click its cell. A section appears at the bottom of the scenario window displaying each animation operation. (Slides using animation have an .EMA extension.)

You can also create transitions between slides, as described in the next section.

note

Transition effects created in PowerPoint look smoother than those you add with EMP SlideMaker 2.

note

Unless you change the transition setting, your slides will automatically advance after 30 seconds.

6. When you're done, click the Save button or choose Save from the File menu. Then see page 101 to transfer the scenario to your memory card.

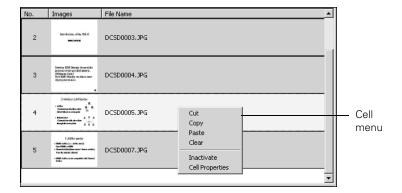
Setting Up Transitions

EMP SlideMaker 2 lets you set your slides to advance manually or automatically after a specified period of time. You can also choose from a variety of transition effects between slides.

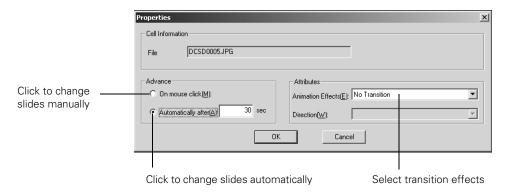
1. Click the cell or cells for which you want to set up in the scenario window.

To select more than one cell, hold down the Ctrl key while you click. To select all the cells, choose Select All from the Edit menu. Selected cells turn yellow.

2. Right-click the selected cell or cells. The cell menu appears:



3. Click Cell Properties. You see this dialog box:



- 4. Choose how you want to advance to the next cell.
 - If you want to change slides manually using the remote control, select On mouse click.
 - If you want your slides to advance automatically, set the timing in the Automatically after box. You can set any length of time between 1 and 1800 seconds (30 minutes). Even if you select this setting, you can still change slides manually using the remote control.
- To add a transition effect (such as a dissolve, fade, or wipe), select one of the Animation Effects settings and choose a Direction setting, if applicable.
- 6. When you're finished setting up the transition for the selected cell or cells, click **OK**.
- 7. Click the Save button or choose Save from the File menu.

Continue with the steps in the next section when you're ready to transfer your scenario to a memory card.

note

Transition effects look smoother when you create them in the PowerPoint file itself and use that file to create a scenario.

Checking Your Scenario

You can play your scenario before you transfer it to a memory card to make sure it looks and sounds the way you want it to.

- Use the navigation tools in the folders window to locate the scenario file you want to review. Click the file, then click File > Open to open the scenario.
- 2. Click Scenario Option(s) > Scenario Preview. The Scenario Preview window displays.

If the scenario is set to advance automatically (see page 99), it begins to play. If it is set to advance each time you click the mouse, click the play button to go through your slides one by one.



3. Use the controls in the Scenario Preview window to pause, stop, rewind, or fast forward your scenario. When you're done, close the window.

Transferring Your Scenario to a Memory Card

Once your scenario is saved, you can transfer it to a memory card or USB storage device. You can use any of the following standard cards. Most require a PC card adapter to allow insertion into the projector (check with your computer dealer to purchase a PC card adapter).

- CompactFlash[™]
- SmartMedia[™]
- SD[™] (Secure Digital
- Memory Stick[™]
- MicroDriveTM
- MMC (Multimedia)
- ATA flash (does not require a PC card adapter)

Be sure to use the transfer process described below to ensure that the scenario plays properly:

- 1. Insert the memory card in your computer's PCMCIA slot or connect the USB storage device.
- 2. Start EMP SlideMaker 2 (see page 94).
- Use the navigation tools in the folders window to locate the scenario file you want to review. Click the file, then click File > Open to open the scenario.
- 4. From the Scenario Option(s) menu, choose Send Scenario. You see a drive selection window:



- 5. Choose the drive where your card is located and click OK.
- Click OK again to confirm. Your scenario is transferred to the card.

note

You have to save the scenario on your computer's hard drive before transferring it. Don't use Windows to copy the scenario to your memory card, or it may not play properly.

You must insert the memory card in your computer's PCMCIA slot (or connect the USB device) before you select Send Scenario from the Scenario Option(s) menu. If you don't, you won't be able to see the card's drive in the drive selection window. If this happens, close and restart EMP SlideMaker 2.

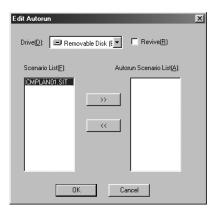
Once the scenario is transferred, you see this message about your scenario's autorun setting:



The autorun setting means that the scenario will start playing whenever the projector is turned on (with the memory card in the projector).

- 7. Do one of the following:
 - If you don't want the scenario to run automatically, click Cancel. Skip to step 11 to remove the card and insert it in the projector.
 - If you want it to run automatically, click **OK** and continue with the following instructions.

You see the Edit Autorun window:



note

If more than one scenario is set to run automatically, they will play in the order listed on this screen.

- 8. To set a scenario to run automatically, select it from the list on the left side of the screen and use the >> arrow button to move it to the list on the right.
- 9. Click the **Revive** box if you want your scenario to repeat continuously. Clear the checkbox if you want it to play only once.

- 10. When done, click OK.
- 11. Remove the card from your computer or disconnect the USB device. See your computer's documentation if you need instructions on removing the card. If you're using Windows 2000 or Me, you may first need to click an icon to stop or disconnect the card.

Presenting Scenarios

Before you begin, insert the memory card containing the scenario into your projector, as described on page 86.

The follow these steps to present your scenario:

- 1. Turn on the projector, if it's not already on.
 - If your scenario is set to autorun, it will start as soon as the projector warms up.
 - If your scenario is not set to autorun, you need to start it manually. Continue with the following steps.
- 2. Select EasyMP as the source by pressing the EasyMP button on the remote control. You see a screen like the one below.



JPEG files are displayed as thumbnails. Other files or folders are displayed as icons. A scenario icon identifies a scenario file.

note

You cannot have a digital camera connected while the memory card is inserted. If you do, neither the camera nor the card will function with your projector's software.

note

Your files may take up more than one screen. If so, use the Page up and Page down buttons on the remote control to view all your files.

note

Even if your scenario is set to change slides automatically, you can still change slides manually as described here.

- 3. Use the © pointer button on the remote control to highlight your scenario file and press Enter. A drop-down menu appears under the scenario.
- 4. Use the pointer button to select Play Scenario and press Enter. In a moment, your scenario begins playing.
- 5. When you're done with your presentation, use the © pointer button to highlight EJECT in the upper right corner of the screen, and press Enter on the remote control. When you see a message asking you to insert a LAN card or memory card, it's safe to remove your memory card (see page 86 for instructions).

Controlling Your Scenario

While your scenario is running, use the remote control as follows:

- Press Enter or Page down to display the next slide or image, or to begin playing a movie.
- Press → Page up to display the previous slide or image, or to replay a movie.
- Press the appropriate side of the © pointer button to rotate a slide or image on the screen.
- To exit the scenario at any point, press the Esc button. Press the Enter button to confirm that you want to exit.

Editing Your Scenario on the Projector

You can modify your scenario using EasyMP on the projector. This lets you make last-minute changes, such as changing the order of your slides or hiding individual slides. These changes are not permanently saved with the scenario, but remain in effect only as long as the card is in the projector and the projector is turned on.

- 1. Highlight the scenario you want to edit, then press Enter.
- 2. From the drop-down menu, select **Edit Scenario**. You see thumbnail images of the slides in your scenario:



Indicates slide to be moved

- 3. To move a slide, select the slide you want to move and press Enter. From the drop-down menu, select Move Files. A yellow line (or "I-beam") appears beside the slide.
 - Use the \odot pointer button to move the I-beam where you want to insert the slide and press **Enter**. The slide moves to the new position.
- 4. To hide a slide, highlight the slide you want to hide and press Enter. From the drop-down menu, select Show/Hide.
 - If you change your mind and want to display the slide again, repeat this step to make the slide visible.
- 5. When done, highlight the OK button and press Enter.

Supported File Formats

The following file types may be projected from a memory card, digital camera, external hard drive, or flash memory drive:

File Type	Extension	Notes
Scenario	.sit	These are scenario files created using the EMP SlideMaker 2 program that is included with the projector.
Graphics	.bmp	Only 24-bit color files can be played.
	.gif	Images with a resolution greater than 1024 × 768 cannot be projected.
	.jpg	Projection is not possible for CMYK color formats, progressive formats, and images with a resolution in excess of 2560 × 1920.
	.png	Projection is not possible for images with a resolution in excess of 2560 × 1920.
Movie	.mpg	MPEG2-PS If the movie exceeds a maximum size of 720 × 576, or is not in the same form as a DVD (sequence header arranged for each GOP) it cannot be played back. The reproducible audio format is MPEG-1 Layer 2. Linear PCM and AC- 3 audio cannot
		be played back.
DPOF	.mrk	For DPOF version 1.10, only files named AUTPLAYx.mrk (where x is a number between 0 and 9) can be projected.

JPEG files with the extension ".jpeg" and ".mpeg" can't be projected. Rename or save files as ".jpg" or ".mpg." JPEG files with high compression will not look good. Movie files may not look as good from media with a slow access speed.

Fine-Tuning the Projector

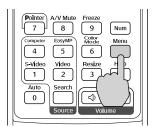
You can use the projector's on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

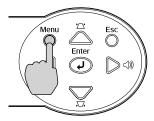
- Using the menu system
- Adjusting the image
- Adjusting signal settings
- Customizing projector features
- Using the projector security features
- Customizing power and operation

Using the Menu System

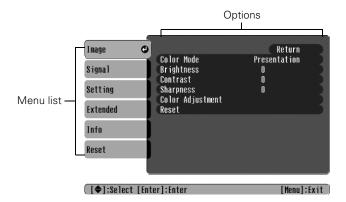
You can use the remote control or the projector's control panel to access the menus and change settings. Follow these steps:

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





You see a menu screen similar to the one below:



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

- Use the pointer button on the remote control (or the arrow buttons on the projector) to scroll through the menu list. When you've highlighted the desired menu, press the Enter button to select it.
- 3. Once you've selected the menu, use the � pointer button to scroll through the list of options. (Some of the options may be grayed out or unavailable, depending on the selected source.)

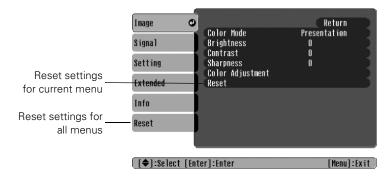
- 4. After highlighting the option you want to adjust, use the pointer button to change the setting. In some cases, you may have to press the Enter button to view a sub-screen for changing the setting.
 - Press the left or right side of the ۞ pointer button to adjust a slider bar.
 - To select from two or more settings, use the ⋄ pointer button to highlight the desired setting and press Enter.
- 5. After changing the settings, press the Esc button to save your changes and return to the previous menu (or press it repeatedly to exit the menu system).

You can also press the Menu button to exit.

Restoring the Default Settings

You can use the menu system's Reset options to restore the factorydefault settings for all the settings listed in a specific menu, or all the settings in all menus.

To restore the settings in a specific menu, enter the menu whose settings you want to change, select **Reset**, and confirm as needed. (The example below shows how to reset the Image menu.)



To restore all the projector settings to their factory-default values, select the Reset menu, highlight All Reset, and press Enter.



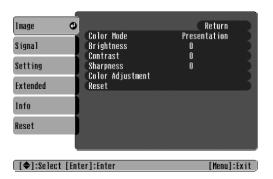
note

When you select Reset All in the Reset menu, it does not reset the Computer Input, Video Signal, User's Logo, Language, and Lamp settings.

Adjusting the Image

You can use the Image menu to adjust the brightness, sharpness, color, tint, and contrast.

1. Press the Menu button on the projector or remote control and select the Image menu. You see the Image menu screen.



2. Use the opinter button to highlight the desired option, then adjust it as needed:

Color Mode

Lets you quickly adjust the color and brightness for various environments. Use either the remote control or the Color Mode setting in the Image menu. You can save a different setting for each source. Select from these settings:

Dynamic: For increased brightness in bright rooms (the default for non-computer display).

Presentation: For computer presentations (the default when projecting from a computer with analog video).

Theatre: For optimizing movie images with increased contrast.

Living Room: For increased brightness when playing video games or watching TV in a bright room.

sRGB: For matching the color palette of standard sRGB computer displays.

Blackboard: For projecting accurate colors on a green chalkboard (adjusts the white point).

- Brightness
 Lightens or darkens the overall image.
- Contrast
 Adjusts the difference between light and dark areas.
- Color Intensity (video only)
 Adjusts the color depth of the image.
- Tint (video only)
 Adjusts the balance of green to magenta in the image (available only for component video or NTSC signals).
- Sharpness
 Adjusts the sharpness of the image.
- Color Adjustment Adjusts the color temperature. Select Color Temp. to set a temperature between 5000 and 10000 °K. Or select RGB to adjust individual red, green, and blue values. (Not available if sRGB is selected as the Color Mode setting.)

Adjusting Signal Settings

Although the projector normally detects and optimizes the input signal automatically, you can use the Signal menu to make manual adjustments. In addition to changing the position of the projected image, you can correct tracking and sync for computer images, or change the aspect ratio to widescreen format for video images.

1. Press the Menu button and select the Signal menu.

You see a screen similar to one of those below. (The settings will be different depending on the source you are projecting from.)



Computer/RGB Video



Component Video

note

The Brightness setting changes the opacity of the projector's LCD panels. You can also change the lamp's brightness. Select Brightness Control in the Setting menu, then choose High or Low (the default setting is High).

note

You can also use the remote control's Auto button to automatically reset the projector's tracking, sync, resolution, and position settings. See page 26 for details



Composite Video/S-Video

2. Use the \bigcirc pointer button to highlight the desired option, then adjust it as needed:

tip

Before adjusting tracking or sync, fill the screen with an image containing fine detail. 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.

Auto Setup

Leave this setting **ON** to automatically optimize the computer image. Turn it off if you want to save adjustments you have made to the video settings.

■ Tracking

Adjust this value to eliminate vertical stripes in the image.

■ Sync

Adjust this value if the image appears blurry or flickers.

Progressive

Turn this setting **ON** to convert composite video signals into progressive signals (best for still images). Leave the setting **OFF** for moving images.

■ Position

If the image is slightly cut off on one or more sides, it may not be centered exactly. Select this setting and use the \bigcirc pointer button to center it.

■ Computer Input

If the colors don't look right on the Auto setting, select the setting for the type of equipment you've connected to the Computer/Component Video port:

RGB: For a computer connection.

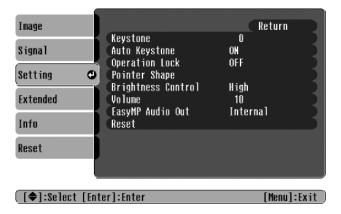
Component Video: For a video player that outputs a component video signal.

■ Video Signal

Leave this setting at Auto unless you are using a 60-Hz PAL system (then select PAL60).

Customizing Projector Features

You can use the Settings menu to lock the buttons on the projector, adjust audio volume, and customize several other features.



Keystone

Squares up the shape of the image after the projector has been tilted upward. If you notice lines or edges looking jagged after adjusting the shape, decrease the Sharpness setting (see page 110).

Auto Keystone

Automatically compensates for keystone distortion when the projector is tilted upward. This feature is available only when the projector is set for front projection (and enabled by default).

Operation Lock

Lets you disable all of the buttons on the projector except the Power button. See page 119 for more information.

Pointer Shape

Lets you choose from three alternative pointer shapes. See page 36 for more information.

Brightness Control

Lets you select from two levels of brightness. The **Low** setting reduces power consumption and noise, and extends the lamp's operating life.

note

You can also adjust the volume using the remote control.

■ Volume

Raises or lowers the volume of the projector's speaker.

■ EasyMP Audio Out

Lets you output sound from EasyMP scenarios (.wav files) or MPEG files to external speakers with built-in amplifiers. Connect the speakers as shown on page 48.

Using the Projector Security Features

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

- Assign a password; this can be disabled for a set period if you want to loan the projector to someone.
- Create an identifying user logo that is displayed at startup and/or when the A/V Mute button is pressed. See page 117.
- Disable the projector's buttons; this is useful, for example, if you're projecting in a classroom and you want to ensure that no one touches the projector's buttons while you're using the remote control. See page 119.

If you create a user's logo for the projector, you can set up the logo so it is displayed as the startup screen and/or AV/Mute screen. Unauthorized users cannot turn it off or change it. This feature is intended to discourage theft and provides a way to identify the projector should it be stolen.

note

It's a good idea to write down your password.

If you leave the projector plugged in, the Password Protect Release screen will not appear. You only need a password if you unplug and reconnect the power cable.

Enabling Password Protection

To prevent unauthorized use, you can assign the projector a password. If you do, a screen will appear requesting the password whenever the projector is plugged in and turned on. If an incorrect password is entered three times in succession, the projector's operation is locked and the power cord must be disconnected and reinserted to redisplay the password screen. If an incorrect password is entered thirty times in succession, the user must contact Epson to unlock the projector.

The default setting for the Password Protect function is **OFF**. Follow these steps to turn password protection on:

1. Press the Freeze button on the remote control for about five seconds.

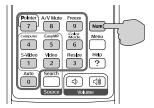
You see this screen:



- Press Esc.
- 4. Select Password and press Enter.
- 5. When you see a message asking if you want to change the password, select **Yes** and press **Enter**.
- 6. Hold down the Num button on the remote control and use the numeric keypad to enter a four digit password. (The default setting is 0000.)
- 7. When you see a confirmation message, reenter the password. Then press the **Menu** button to exit the screen.
- 8. Press the **Num** button on the remote control to deactivate the numeric keypad.
- 9. If you want to disable the password temporarily, select Timer and press Enter. Then hold down the Num button while you use the numeric keypad to enter the number of hours (from 0 to 9999) that you want the password feature disabled. If you want the projector to request the password every time it is turned on, set the timer to 0H.

caution

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



The countdown for the elapsed time begins as soon as you close the Password Protect menu. (You can check the elapsed time in this menu next to Time elapsed.)

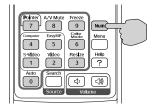
10. To enable your screen logo, select User's Logo Protect and press Enter. Select ON and press Enter.

When this feature is on, the logo appears whenever you turn on the projector (if the **Startup Screen** is enabled in the Extended menu; see page 117). It also appears when you press the A/V Mute button (if you selected the **Logo** as the Background Color in the Extended menu). None of the User's Logo features in the Extended menu can be changed when the User's Logo Protect function is enabled.

Starting the Projector with a Password

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





Hold down the Num button on the remote control and use the numeric keypad to enter the four digit password.

The password screen closes, the numeric keypad is automatically deactivated, and projection begins.

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

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

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

If you have forgotten the password, contact Epson with the request code number that appears in the Password Protect Release screen for assistance. See "Where To Get Help" on page 166.

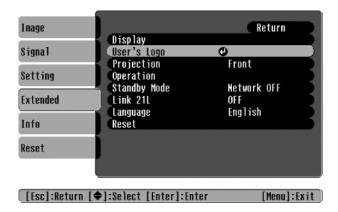
Creating Your Own Startup Screen

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 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:

- Press the Menu button on the remote control, highlight the Extended menu, and press Enter.
- 2. Highlight User's Logo and press Enter.



- 3. When you see a message asking whether you accept the present image as the user's logo, select **Yes** and press **Enter**. A selection box displays over the image.
- 4. Use the \bigcirc pointer button to select the area of the image you want to use. Then press **Enter**.
- 5. When you see the message Select this Image?, highlight Yes and press Enter.
- 6. Use the arrow buttons to select a zoom rate (display size) and press Enter.
- 7. When the message Save image as user's logo? appears, select Yes and press Enter. Saving the logo may take a few moments. Do not use your projector, remote control, or video source while the logo is being saved.
- 8. When you see the message **Completed**, press **Esc** to return to the menu screen.

Choosing When to Display the Image

After your image is saved, it is automatically set as the startup screen. You can also set it to display as the screen you see when there's no signal or when you press the A/V Mute button (see page 32).

- 1. Press the Menu button, highlight the Extended menu, and press Enter.
- Select Display and press Enter.
- 3. Highlight Background Color and press Enter.
- 4. Select Logo and press Enter.
- 5. When you're finished, press **Esc** to exit.

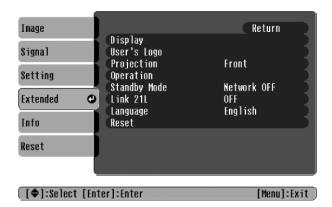
Disabling the Projector's Buttons

When you enable the Operation Lock function, you can lock all the projector's buttons except the **Power** button.

- Press the Menu button, highlight the Setting menu, and press Enter.
- 2. Select Operation Lock and press the Enter button.
- 3. Select ON and press Enter.
- 4. Select Yes and press Enter to confirm the setting.
- 5. Press the Menu button to exit.

Customizing Power and Operation

You can use the Extended menu to customize the way the projector displays images, enable quick startup, turn sleep mode on or off, and customize other projector operations.



Display

Use this setting to turn off the display of messages, change the background color, enable logo display, or turn off the startup screen display.

■ User's Logo

Create a custom startup screen, as described on page 117.

■ Projection

Select Front (to project from the front of a screen and right side up), Front/Ceiling (when the projector is mounted upside-down from the ceiling), Rear (to project from behind onto a transparent screen), or Rear/Ceiling (to project from behind onto a transparent screen when the projector is mounted upside-down from the ceiling).

When you select one of the Ceiling projection methods, the projector requires a 10-second cool-down after you turn it off. You need to wait until you hear the projector beep before unplugging it.

Operation

Enable Direct Power ON if you want to have the projector start when the power cable is connected (without pressing the Power button). Enable Sleep Mode if you want to have the projector turn off automatically if it is idle (and no signal is received) for 30 minutes.

Standby Mode

Select **Network ON** to enable the projector to be monitored over a network when it is in standby mode (the power light is orange).

■ Link 21L

Enable this setting if you want to be able to control the projector from a USB-connected computer.

Language

Select from nine languages to be used for the projector menus.

note

If Direct Power ON is enabled, the power cable is connected, and a power outage occurs, the projector will start when the power is restored.

Managing Projectors

The software included with your projector lets you monitor and control your projectors from a remote computer:

- Use EMP Monitor (available for Windows only) to see your projectors' status, switch image sources, and control basic settings.
- Use the mail notification function to receive e-mail alerts about possible problems.
- Use a network management utility running SNMP, such as HP OpenView, to manage your facility's equipment from a pre-existing system (requires an optional plug-in available on request from Epson).

You can also use NS Connection to register up to 16 projectors as a group. This allows you to provide quick and easy access to these projectors from other computers.

To use the software to manage your projectors, first install EMP Monitor as described on page 171. If you plan to create projector groups, also install EMP NS Connection. Then connect and configure each projector you want to monitor. You can connect the projector wirelessly in Access Point mode or over a wired network (as described on page 59).

This chapter covers the following information:

- Monitoring and controlling your projector with EMP Monitor
- Using e-mail alerts to warn you of problems
- Understanding notification messages
- Using a browser to monitor the projector
- Using projector groups

note

If you want to monitor projectors while they are in standby mode, select Standby Mode in the Extended menu, then select Network ON. See page 120.

Using EMP Monitor

EMP Monitor lets you use a remote computer to manage your projectors, whether connected wirelessly or over a wired network. It lets you easily turn the projectors on or off (together or individually), switch image sources, and check their status.

Before using EMP Monitor, make sure you've installed the software (available for Windows only) as described on page 171. The computer you're using to monitor the projector should already be connected to your network.

Opening and Closing EMP Monitor

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

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



To close EMP Monitor, right-click the program icon shown above and select Exit.

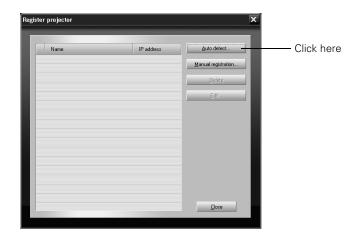
Registering Your Projectors

Before you can monitor your projectors, follow these steps to register them:

1. Click Start > Programs or All Programs > Epson Projector > EMP Monitor or click the EMP Monitor icon in the taskbar. You see this screen:



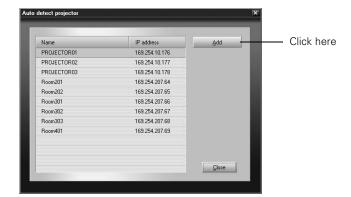
2. Click Register projector. You see this screen:



 Click Auto detect to locate projectors currently operating on the network. Or click Manual registration and enter the projector's network IP address.

note

If Auto detect fails to find the projector, your projector may not be connected or configured correctly for the network. See page 52 to configure the projector for a wireless network. Any projectors found on the network are listed as shown below:



4. Select each projector you want to add by clicking its name, then clicking the Add button. When you're done, click Close.

You see this screen with a list of all registered projectors.



5. Click Close.

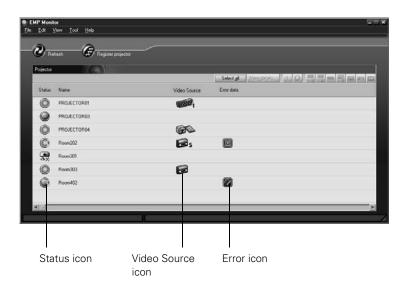
note

To delete a projector from the list, highlight the projector name, and click Delete. You see the status of each of your registered projectors on the main EMP Monitor screen:



Monitoring Your Projectors

The EMP Monitor screen lets you monitor your projectors using the Status, Video Source, and Error icons shown below. These let you see which projectors are currently being used, from which source (or port) they are projecting an image, and if a problem occurs.



For detailed status information, select the projector and click View details.

note

To monitor a projector when it's in standby mode (plugged in but not turned on), you must select Network ON as the Standby Mode setting in the projector's Extended menu (see page 120).

Remember that when Standby Mode is set to Network ON, the exhaust fan continues to operate after the projector has cooled down. This is normal.

The following table explains the meaning of the status icons:

Status icons

(green)	Projecting; no problems
(dark)	Turned off; no problems
(green)	Projecting; problems detected
(dark)	Turned off; problems detected
a x	Network error (for example, not connected to the network or power cable disconnected). You may also see this error if Network OFF is selected in Standby Mode (see page 120).

The following table explains the meaning of the video source icons:

Video source icons

6 /501	Computer/Component 1
6 /5 22	Computer/Component 2
a s	S-Video
	Video
	EasyMP

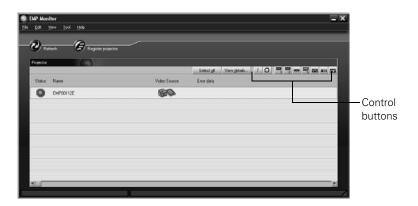
The following table explains the meaning of the error icons. See page 151 for recommended solutions to problems.

Error icons

	Lamp replacement notification (the lamp is nearing the end of its life; see page 146)
8	High-speed cooling in progress (the projector is getting too hot but continues to operate)
1	Overheating (projection turned off automatically)
	Lamp out or lamp cover open
35	Fan error
	Sensor error
	Internal problem

Controlling Your Projectors

The control buttons in the upper-right let you select video signals and turn projectors on or off. (Hold the mouse pointer over a button to see a description of its function.) Select the projector you want to operate (with the mouse pointer) before clicking one of the buttons.



note

To turn on a projector when it's in standby mode (plugged in but not projecting), you must have selected Network ON as the Standby Mode setting in the projector's Extended menu (see page 120).

Remember that when Standby Mode is set to Network ON, the exhaust fan continues to operate after the projector has cooled down. This is normal. The following table explains the functions of the control buttons:

Control buttons

1	Turns the projector on
0	Turns the projector off
W	Changes the video signal to the Computer/Component 1 port
2 2	Changes the video signal to the Computer/Component 2 port
	Changes the video signal to the S-Video port
<u></u>	Changes the video signal to the Video port
MP	Switches the display to EasyMP

Using E-Mail Alerts

You can set up e-mail alerts to warn you of problems with the projector on either a wireless network or a wired LAN connection.

- 1. Insert the Epson 802.11g wireless card and set up your projector to work in Access Point mode, as described on page 59.
- 2. Turn on your projector and remote control.
- 3. Press the **EasyMP** button on the remote control to switch to EasyMP.

note

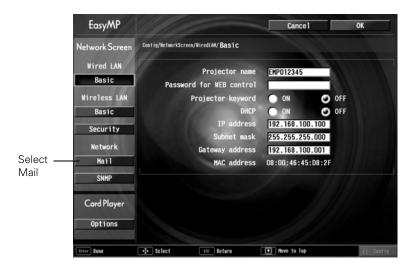
The projector must be plugged in (projecting or in standby mode) for you to be able to connect to it. To access a projector in standby mode, you must select Network ON as the Standby Mode setting in the projector's menu system (see page 120.)

Remember that when Standby Mode is set to Network ON, the exhaust fan continues to operate after the projector enters standby mode.

You see the following screen:



- 4. Select **Config** in the lower right corner of the screen and press **Enter** on the remote control.
- 5. When you see the screen below, select Mail and press Enter.



You see the following screen:



note

To enter numbers with the remote control, hold the Num button and use the numeric keypad. Press the Num button again to exit numeric keypad mode.

- 6. For Mail Notification Settings, select ON and press Enter.
- 7. Highlight the IP address of SMTP server box and press Enter. The box turns yellow to indicate you are in input mode. You can enter numbers between 0 and 255. However, you cannot use the following IP addresses: 255.255.255, 224.0.0.0, or 127.x.x.x (where x is a number between 0 and 255).
- 8. Highlight the Port Number box and press Enter. Then enter the SMTP server port number. The default value is 25, but you can enter numbers between 1 and 65535.
- 9. Highlight the **Destination address 1** box and press **Enter**. Enter the e-mail address for the first computer that you want to receive e-mail alerts. You can enter a maximum of 53 single-byte alphanumeric characters.

Use the pointer button on the remote control to enter letters. Press the top of the button to scroll through capital letters, and the bottom of the button to scroll through lowercase letters. You will also see punctuation marks, such as a period (.) and symbols, such as @. When you see the letter or symbol you want, press Enter. Then press the right side of the button to move to the next position. To correct a mistake, press the left side of the button to return to the previous position.

- 10. If you want to send e-mail alerts to other computers, enter addresses for those computers in the Destination address 2 and Destination address 3 boxes.
- 11. Select the conditions under which an e-mail alert will be sent.
- 12. When you're done, highlight the OK button at the top of the screen (you can either use the 🌣 pointer button on the remote control or press Esc) and press Enter. Highlight the OK button again and press Enter to return to the main EasyMP Network Screen.

For help understanding e-mail alerts, see the next section.

Understanding the Notification Messages

If a projector experiences a problem, it sends an e-mail message to each of the addresses you provided using EMP NetworkManager. The message includes "Epson Projector" in the subject line.

The body of the message contains:

- The name of the projector
- The projector's IP address
- A description of the problem

The problem descriptions are similar to the errors reported by EMP Monitor listed on page 127.

If a plus (+) sign appears, it indicates that a problem has occurred. A minus (–) sign appears when the problem is resolved.

note

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

note

You can't use your browser to monitor projectors if it is set up to connect via a proxy server.

If you are using Microsoft Internet Explorer, use version 6.0 or later.

The projector must be plugged in (projecting or in standby mode) for you to be able to monitor it. To access a projector in standby mode, you must select Network ON as the Standby Mode setting in the projector's menu system (see page 120.)

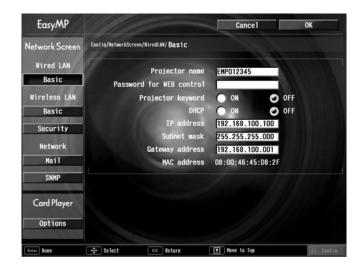
Remember that when Standby Mode is set to Network ON, the exhaust fan continues to operate after the projector enters standby mode.

Using a Browser to Monitor Projectors

If your projectors are connected to a network (802.11g or 802.11b wireless or wired LAN), you can use a standard web browser to monitor and control each one.

- 1. Make sure the Epson 802.11g wireless card is inserted in the projector's card slot and the projector is configured for Access Point mode, as described on page 59.
- 2. Open the web browser and enter the IP address of the projector you want to monitor in the browser window.

If you're not sure what address the projector is using, turn it on and switch it to EasyMP. Then choose **Basic** under Wired LAN or Wireless LAN and press **Enter**. You see a screen like this, which shows you the IP address:



3. If you're connected over a wired network, the projector's web screen opens in the browser window, as shown below.

If you're connected over an 802.11g wireless network, start NS Connection (see page 74) and connect to the projector you want to monitor. Then click on the control bar that appears on the screen. The projector's web screen opens in the browser window.



Functions corresponding to remote control buttons

- 4. Select one of the menu options listed on the left, then change any settings as needed in the main part of the screen. These settings correspond to those found in the projector's menu system; for details, see page 108.
- 5. Use the controls at the bottom of the screen just as you would the corresponding remote control buttons: choose a source, stop the action, control the volume, size the image, turn off the picture and sound, or turn the projector's power on or off.
 - For details about the remote control, see page 30.

Using Projector Groups

You can register projectors as a group if you want to provide quick and tip easy access to other computers. You can also export or import group Use a static IP address when information as a file to another computer. Projectors must be connected to the network in Access Point mode, and must be on the same network segment as the computer used to create the group, or the computers that import or export group information.

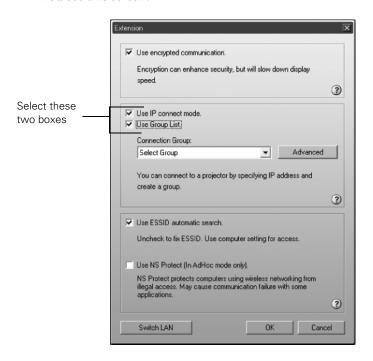
configuring a projector for the network if you plan to use it in a group. If you use DHCP, the projector's IP address will change every time you turn it off and on again, and you will have to recreate the projector group.

If any of the octets in a static IP address are less than 100, the first digit of the octet should be zero (0).

Creating a Group

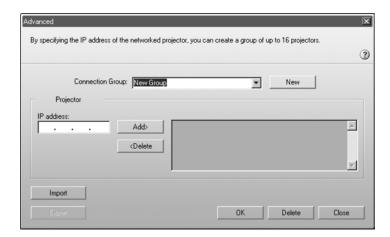
You can register up to 16 projectors as a group, and all projectors must be part of your wireless network.

- Start NS Connection. (See page 74.)
- 2. Click the Extension button on the EMP NS Connection screen. You see this screen:



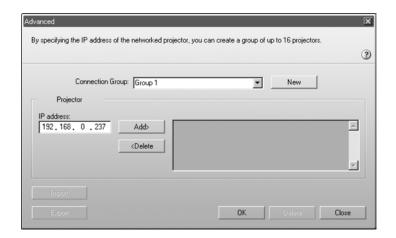
3. Select Use IP connect mode and Use Group List.

4. Click the Advanced button. You see this screen:



5. Enter a name for the group in the Connection Group box.

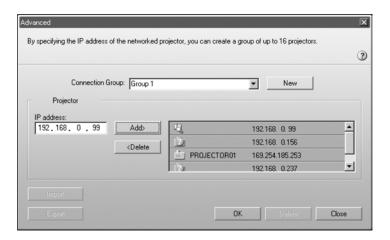
Then enter the IP address of the projector you want to register in the IP address box:



note

You cannot use the addresses 0.0.0.0 or 255.255.255.

6. Click Add. The IP address appears in the list of registered projectors and the searching icon appears beside it. If the projector is found, its name appears in the projector list.



note

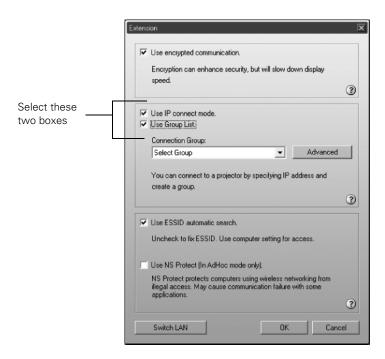
To remove a projector from the group, select it from the projector list and click Delete.

- 7. Repeat steps 5 and 6 for each projector you want to add to the group.
- 8. Click **OK** to save the projectors as a group. When you see a confirmation message, click **Yes**.
- 9. Click Close to close the Advanced screen.
- 10. Click **OK** to close the Extension screen, then close NS Connection.

Connecting to a Projector in a Group

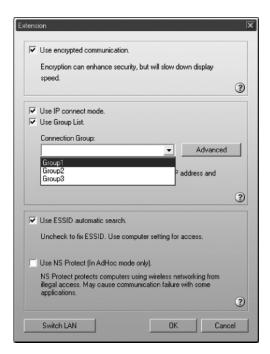
Follow these steps to connect to a projector in a group:

- 1. Start NS Connection. (See page 74.)
- 2. Click the Extension button on the EMP NS Connection screen. You see this screen:



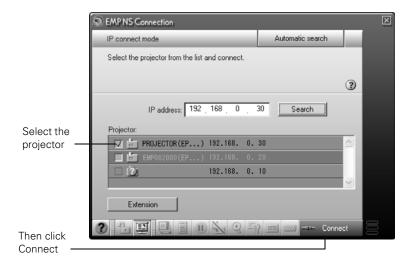
3. Select Use IP connect mode and Use Group List.

4. From the Connection Group list, choose the group you want to connect to and click **OK**.



5. When you see the next screen, click IP connection. (If the upper left button on the screen says IP connect mode rather than Automatic search mode, skip this step.)

You see this screen:



- 6. Select the projector you want to connect to and click **Connect**.
- 7. If you want, repeat step 5 to connect to additional projectors.

 The computer's image appears on the projector screen.

Exporting a Projector Group

You can export group information as a file to another computer on the wireless network. This is useful if you want to share group access with multiple users.

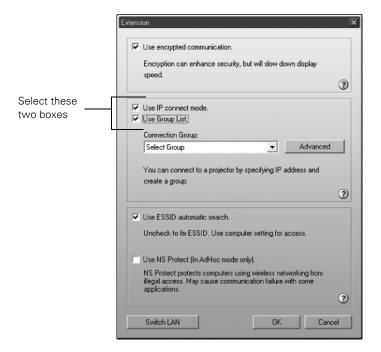
- 1. Start NS Connection. (See page 74.)
- 2. Click the Extension button on the EMP NS Connection screen.

note

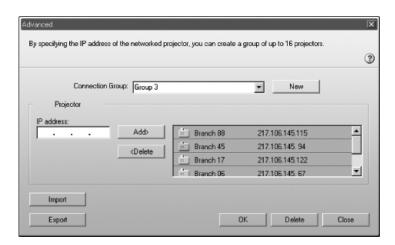
You must export all of the groups in the Connection Group list. You can't export individual groups.

Even if a projector is registered in a group, you don't have to use the group to connect to it. If your notebook is configured for your wireless network, you can connect to a projector as described on page 38.

You see this screen:



- 3. Select Use IP connect mode and Use Group List.
- 4. Click the Advanced button. You see this screen.



5. Click **Export** to export a file for all groups in the Connection Group list.

note

If you haven't created any groups, the Export button will be grayed out. You must create at least one group before the Export button is active.

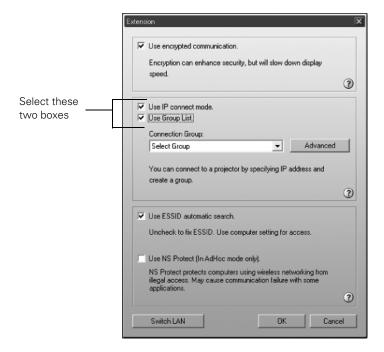
- 6. Highlight the file name (NSGroup.ini) and select Save to.
- 7. Choose a location on the second computer and click **Save**.

To connect to the projector from the new computer, follow the steps beginning on page 137.

Importing a Projector Group

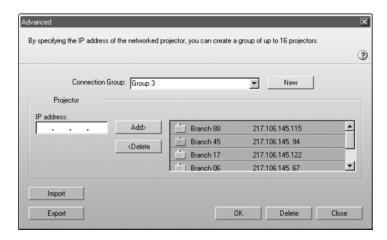
You can also import group information as a file to another computer on the wireless network.

- 1. Start NS Connection. (See page 74.)
- 2. Then click the **Extension** button on the EMP NS Connection screen. You see this screen:



3. Select Use IP connect mode and Use Group List.

4. Click the Advanced button. You see this screen.



- 5. Click Import.
- 6. On the next screen, select the file you want to import and click Open.

The names of all of the groups in the file are added to the Connection Group list on the Advanced screen.

To connect to the projector from the new computer, follow the steps beginning on page 137.

Maintaining 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 cover. Dangerous electrical voltages in the projector can injure you severely. Do not try to service this product yourself, except as specifically explained in this User's Guide. Refer all other servicing to qualified service personnel.

Your projector needs little maintenance. All you have to do is keep the lens clean and periodically clean the air filters at the side and bottom of the projector. A clogged air filter can block ventilation needed to cool the projector.

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:

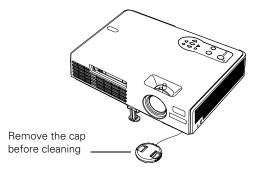
- Cleaning the lens
- Cleaning the projector case
- Cleaning the air filters and vents
- Replacing the lamp and air filter
- Transporting the projector

Cleaning the Lens

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

Use a canister of compressed air to remove dust.

To remove dirt or smears on the lens, use lens-cleaning tissue. If necessary, moisten a soft cloth with lens cleaner and gently wipe the lens.



Cleaning the Projector Case

Before you clean the case, 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.

caution

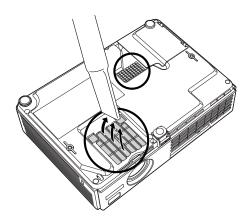
Do not use wax, alcohol, benzene, thinner, or other chemical detergents. These can damage the case.

Cleaning the Air Filters and Vents

Clean the air filters and air intake vents after every 100 hours of use. If they are not cleaned periodically, they can become clogged with dust, preventing proper ventilation. This can cause overheating and damage the projector.

Follow these steps:

- 1. Turn off the projector. Wait for the **Power** light to stop flashing, then unplug the power cord.
- 2. Turn the projector upside down.
- 3. To clean the intake vents, use a small vacuum cleaner designed for computers and other office equipment. If you don't have one, gently clean the vents with a soft brush (such as an artist's paintbrush).



4. If the dirt is difficult to remove or the filter is broken, replace the filter as described on page 148. Contact your dealer or call Epson at 800-GO-EPSON (800-873-7766) to obtain a new filter.

note

To order replacement air filters, request part number V13H134A08. See page 13 for ordering information.

note

When you get a replacement lamp for your projector, you should replace the filters.

To check how long the lamp has been in use, see page 155.

warning

Let the lamp cool fully before replacing it.

In the unlikely event that the lamp has broken, small glass fragments may be present and should be removed carefully to avoid injury.

Replacing the Lamp and Air Filter

The life span of the projection lamp is about 2000 hours if Brightness Control in the Setting menu is set to High (default), and 3000 hours if Brightness Control is set to Low.

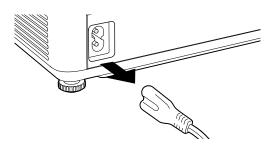
It is time to replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The message Replace the lamp appears on the screen when the lamp comes on and the lamp warning light '♣' flashes orange. To maintain projector brightness and image quality, replace the lamp as soon as possible.
- The lamp warning light 🔆 flashes red (the lamp is burnt out).

Contact your dealer or call Epson at 800-GO-EPSON (800-873-7766). Request part number V13H010L32.

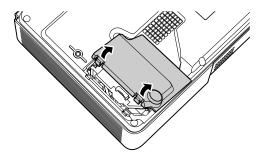
Follow these steps to replace the lamp and air filter:

- Turn off the projector.
- 2. When the Power light stops flashing, unplug the power cord.

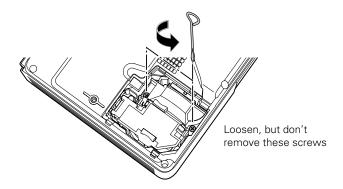


3. Let the projector cool for at least an hour (if it has been on). The lamp is extremely hot immediately after use.

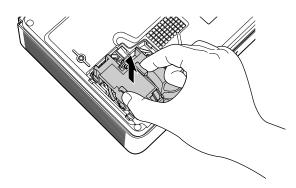
4. Turn the projector over. Press in on the tabs and lift up the lamp cover.



5. Loosen the two screws holding the lamp in place (you don't need to remove them).



6. Hold the lamp as shown and pull it straight out.

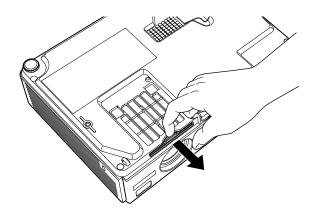


7. Gently insert the new lamp. (If it doesn't fit easily, make sure it is facing the right way.)

note

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

- 8. Once the lamp is fully inserted, tighten its screws.
- 9. Slide the air filter out and remove it.



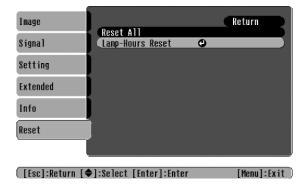
- 10. Slide in the new air filter until it clicks in place.
- 11. Insert the two cover tabs, then press down on the cover until it snaps into place.
- 12. Reset the lamp timer as described in the next section.

Resetting the Lamp Timer

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

- 1. Press the Menu button on the remote control or on the projector's control panel. You see the main menu.
- 2. Use the © pointer button on the remote control (or the arrow buttons on the projector) to highlight Reset, then press Enter.

You see this screen:



3. Select Lamp Hours Reset and press Enter. You see this prompt:



- 4. Select Yes and press Enter.
- 5. When you're finished, press Esc or Menu to exit.

Transporting the Projector

The projector contains many glass and precision parts. Follow these guidelines to prevent damage:

- 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 place it in a hard-shell shipping case, then pack it in a firm box with cushioning around the case. (An optional case is available from Epson; see page 13.)

note

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

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. The following information is included:

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

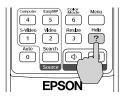
Using On-Screen Help

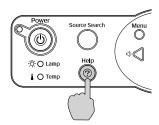
If the image doesn't look right or your audio isn't working, you can get help by pressing the blue ? Help button on top of the projector or on the remote control. The following choices are available:

- Problems with image
- Problems with sound
- Problems with source search
- Language change

Follow these steps to get help:

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





You see the Help Menu.

- 2. Use the pointer button on the remote control or the arrow buttons on the projector to highlight menu items.
- 3. Press the Enter button on the remote control or on the projector to select the menu item.
- 4. To exit the help system, press the ? Help button.

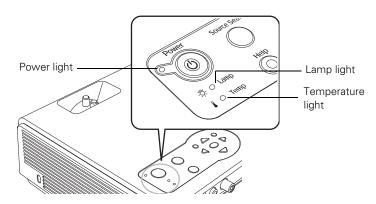
If none of the suggestions solve your problem, see additional solutions to problems in the following sections.

Checking Projector Status

If your projector isn't working correctly, first turn it off, wait for it to cool (the **Power** light stops flashing orange), and unplug it. Then plug the power cord back in and turn on the projector. If this doesn't solve the problem, check the lights on top of the projector.

What To Do When the Lights Flash

The lights on top of the projector indicate the projector's status.



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

Status lights

Light	Status	Description	
Ф	Orange	The projector is in sleep or standby mode. You can unplug it or press the \circlearrowleft Power button to turn it on.	
ტ	Flashing green	The projector is warming up. Wait for the image to appear.	
Ф	Green	The projector is operating normally.	
Ф	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.	
Ф	Red	There is a problem with the projector. Check the other two lights and the information on page 154 to diagnose the problem.	

Status lights

Light	Status	Description	
ı	Flashing red	There is a problem with the fan or temperature sensor. Stop using the projector, disconnect the power cable, and contact Epson as described on page 166.	
i	Flashing orange	Rapid cooling is in progress. Although this is not an abnormal condition, projection will stop automatically if the temperature rises higher. Make sure there is plenty of space around and under the projector for ventilation, and that the air filters and vents are clear.	
ı	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 ${}^{\circlearrowleft}$ 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 filters may be clogged. Clean or replace them as described on page 145.	
		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 as described on page 166.	
		Warning: Except as specifically explained in this <i>User's Guide</i> , do not attempt to service this product yourself.	
-¦Ç;-	Flashing orange	It's time to replace the lamp. See page 146 for instructions. If you continue to use the lamp after the replacement warning, there is an increased possibility that the lamp may break.	
-¤-	Flashing red	The lamp may be burnt out. First make sure the lamp cover is securely installed. If that's not the problem, let the lamp cool, remove the lamp, and replace it as described on page 146. If this does not resolve the problem, contact Epson as described on page 166.	
↓ -¤-	Flashing red	Power is cut off because of an internal problem. Unplug the power cord and contact Epson for help, as described on page 166.	

Viewing Lamp Usage and Other Information

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

Press the Menu button and highlight the Info menu.

You see the lamp usage hours and various input signal settings on the right.

The life span of the lamp is about 2000 hours if the Brightness Control setting in the Setting menu is set to High (default), and 3000 hours if the Brightness Control setting is set to Low. Make sure you have a spare lamp handy if the usage hours on this menu are close to the life span of your lamp.

Solving Projector Operation Problems

The power doesn't turn on.

- If the projector doesn't turn on when you press the **② Power** button, make sure the power cable is connected to the projector and plugged into a working electrical outlet.
- The power cable may be defective. Disconnect the cable from the outlet and contact Epson as described on page 166.

The buttons on the projector don't work.

If the Operation Lock function has been enabled, you can't use the buttons on the projector. Try using the remote control instead. See page 119 for information about the Operation Lock function.

You hear the projector's fan after the power has been turned off.

If Standby Mode is set to Network ON, the fans continue to operate after the projector has cooled down. See page 120 for more information about this setting.

note

The information displayed depends on the input signal currently selected.

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 standby or sleep mode. If the Power light is orange, press the O Power button to turn the projector on.
- If the power was switched off and then on again, the projector may be cooling down. Wait until the Power light stops flashing and remains orange; then press the \circlearrowleft Power button again.
- Press the A/V Mute button on the remote control 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.
- If you are projecting from a DVD player or other video source, make sure you turn it on and press its Play button.

You've connected a computer and see a blue screen with the message No Signal displayed.

- Make sure the cables are connected correctly, as described on page 38.
- Try restarting your computer.
- If you've connected a computer and one or more video sources, you may need to press the Source Search button on the projector or one of the source buttons 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 notebook:

- Hold down the Fn key on the keyboard 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 notebook's manual or online help for details.
- 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 Macintosh OS X:

- 1. Open System Preferences.
- 2. Click Displays.
- 3. Make sure the VGA Display or Color LCD dialog box is selected.
- 4. Click the Arrangement or Arrange tab.
- 5. Make sure the Mirror Displays checkbox is selected.

If you're using Macintosh OS 8.6 to 9.x:

- 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 correct input signal is selected in the Signal menu (see page 111).
- Make sure your computer's resolution doesn't exceed UXGA (1600 × 1200) and the frequency is supported by the projector (see page 177). If necessary, change your computer's resolution setting as described below.

Only part of the computer image is displayed.

- Press the Auto button on the remote control.
- Make sure the image **Position** setting is correct on the Signal menu. See page 112 for more information.
- Press the Resize button on the remote control.
- Press the Esc button on the remote control to cancel the E-Zoom function.
- Make sure your computer's resolution setting is correct. Ideally, it should be 1024×768 to match the projector's native resolution. If this option isn't available, select one of the other compatible video formats listed on page 177.

■ Windows:

Right-click the desktop, select **Properties**, click the **Settings** tab, and select a different resolution.

■ Macintosh OS X:

Open System Preferences, click Displays, and select a different resolution.

■ Macintosh OS 8.6 to 9.x:

On the Apple menu, choose Control Panels, and 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 keystone-shaped.

■ If the top or bottom of the image is broader, press the △ or □ button on the projector until the image is square.



If the projector is angled toward the screen from the left or right, the image will be broader on one side. Center the projector in front of the middle of the screen, facing the screen squarely.



The image contains static or noise.

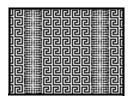
- If you're using a computer cable longer than 6 feet, or an extension cable, the image quality may be reduced.
- Keep your computer and video cables away from the power cord as much as possible to prevent interference.
- The video signal may be split between the computer and the projector. If you notice a decline in the projected image quality when the image is displayed simultaneously on your notebook computer and the projector, turn off the notebook's LCD display.
- Make sure the correct input signal is selected in the Signal menu (see page 112).

The image is blurry.

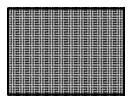
- There may be dirt or smears on the lens. Clean the lens as described on page 144.
- Adjust the focus using the focus ring (see page 24).
- Make sure the lens is not fogged by condensation. You may need to wait before using the projector after moving it from a cold environment to a warm environment.
- Adjust the Sharpness setting on the Image menu (see page 111). 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 bands 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 vertical bands or some of the characters may look heavy or blurred. Press the Auto button on the remote control to reset the projector's tracking and sync settings.
- If further adjustment is needed, you can fine-tune the Tracking and Sync settings manually using the Signal menu, as described on page 112.
 - 1. Fill the screen with an image containing fine detail, such as a pattern to appear as your desktop background, or try projecting black text on a white background.
 - 2. Adjust the Tracking to eliminate vertical bands.



3. Adjust the Sync setting to increase the image sharpness.



note

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

The image is too light or dark, or colors are incorrect.

- If you're displaying a computer image, use the Color Mode option in the projector's Image menu to adjust the color (see page 110).
- If you're displaying video, adjust the Color Adjustment and Color Mode settings on the Image menu. You can also try adjusting the Color Intensity and Tint settings on the Image menu.

- Try adjusting the Brightness and Contrast settings on the Image menu.
- Check your computer display settings to correct the color balance.
- The projector's lamp may need to be replaced. See page 146 for instructions.

There is no sound, or the sound is not loud enough.

- Press the 🖏 button on the projector or remote control to increase the volume.
- Make sure A/V Mute is not enabled. (The A/V Mute button may have been pressed.)
- Try adjusting the **Volume** setting in the Setting menu (see page 114).
- 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 on page 47.
- If your presentation includes computer audio, make sure the volume control on your computer is not turned all the way down or muted. 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.
- 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).
- If you are using external speakers, you need to set the EasyMP Audio Out option to External. When this setting is enabled, you can't use the buttons on the projector or remote to control the volume. See page 48 or page 114 for more information.

Solving Network Problems

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

- Make sure that you've connected the projector to the network and configured it correctly; see page 52. Also, make sure you've registered the projector with EMP Monitor; see page 122.
- Make sure that Standby Mode in the projector's Extended menu is set to Network ON.
- If the computer you are using is running Windows XP or 2000, you must be logged in as the Administrator.
- Try restarting your computer.

You can't connect to the projector using NS Connection.

- Make sure you've installed the Epson 802.11g card correctly in the projector; see page 50. If you have to reinstall the card, restart NS Connection or the program will not be able to detect the projector.
- Restart your computer.
- Make sure your projector and computer are configured correctly; see page 52 (Ad Hoc mode) or page 59 (Access Point mode).
- Make sure that you have sufficient wireless signal strength (above 50 percent). On a Macintosh, check the AirPort icon on the Macintosh menu bar. In Windows, see the documentation for your computer's wireless card or adapter for details.
- Make sure you aren't projecting one of the EasyMP configuration screens. (You should see a message that the projector is ready to connect.) If you have to exit a configuration screen, restart NS Connection.
- If the projector is configured for Access Point mode and you're using DHCP, allow time for your projector to appear. It takes the server a little while to pick up the IP address.

- If you've changed any settings for your projector or network, or restarted your computer, allow a minute or two for the connection to appear. If you're using AirPort, try turning AirPort off and then on again.
- Make sure that you're trying to connect to the right network. In Windows, verify that you've enabled your computer's connection to the access point (see page 66) or that your wireless card or adapter is enabled and its SSID is set to match the projector's ESSID (see page 57). On a Macintosh, click the AirPort icon at the top of your Macintosh desktop to make sure AirPort is turned on and the projector's ESSID or your AirPort network is selected.
- If you have an access point or AirPort base station and you're not using DHCP, check your projector's IP address on the Access Point mode advanced settings screen. The first three segments of the IP address should be identical to the first three segments of the IP address of your access point or base station. The last segment of the projector's IP address should be close, but not identical, to the last segment of the IP address of the access point or base station.
- If you're not using DHCP, check your projector's Gateway address on the projector's Access Point mode advanced settings screen. It should be identical to the IP address for your access point or AirPort base station.
- If you're using a projector keyword, it changes each time you turn the projector off and then on again, or remove and reinsert the 802.11g wireless card. Check the projector's keyword on the EasyMP Network screen and enter it at the prompt.
- If you're using AirPort, check the configuration of your network. Start the AirPort Admin utility, select your base station, click Configure and click Show All Settings. Click the Network tab. If you set up your projector to connect in DHCP mode, turn on Distribute IP Addresses and Share a Single IP Address.
- If you're using AirPort and DHCP is turned off on your projector's Access Point mode advanced settings screen, make sure Distribute IP Addresses is off.

- If you're using Access Point mode and you're connecting to the wrong network, you may be experiencing signal interference from another network. Try resetting your access point or base station, then restart NS Connection.
- If you're using AirPort, the projector's ESSID should match the AirPort network name, not the name of the AirPort base station. To check the network name, start the AirPort Admin utility, select your base station, and click Configure. Then click Show All Settings. The network name appears on the AirPort tab.
- If you're prompted for a password when you connect, enter the WEP encryption key (if you're using WEP encryption).
- Try connecting using IP Connect Mode; see page 80.

Solving EasyMP Problems

An image displayed with EasyMP appears distorted.

Because of their resolution, some JPEG images cannot be displayed correctly. Some JPEG files from digital cameras cannot be previewed. Files with a high compression ratio may appear blurry.

In EMP SlideMaker 2, PowerPoint files don't appear in the file window.

EMP SlideMaker 2 does not support PowerPoint 95 or 97. Files created in these versions of PowerPoint must be opened and resaved in PowerPoint 2000 or later.

In EMP SlideMaker 2, your PowerPoint files don't display thumbnails and can't be pasted into scenarios.

Make sure the MS Office JPEG converter has been installed. Run the Office installer, display the Converters and Filters option, and install the JPEG filter. Also, make sure PowerPoint is installed on the computer you're using to build the scenario.

You can't edit scenario files in EMP SlideMaker after they have been transferred to the memory card.

You can only edit scenarios before they are transferred. Open the scenario files saved on your hard drive, make any changes, then transfer the scenario to your memory card.

You can't transfer your slideshow to the memory card because you aren't able to see the card's drive letter.

You must insert the memory card in your computer's PCMCIA slot before you select **Send Scenario** from the Scenario Option(s) menu. If this happens, close and restart EMP SlideMaker 2. Make sure your card is inserted before you select **Send Scenario**.

You can't play your movies on the projector.

- The projector only supports MPEG2 files. It does not support MPEG1 files.
- Movie files included in a PowerPoint presentation can't be played back in a scenario.

EasyMP is unable to see the image files on your camera or external drive.

Make sure your camera or drive shows up on your desktop as a drive letter when you connect it to your computer. If it does, it is probably a USB-mounted device and will work with your projector. The projector does not support TWAIN-compliant digital cameras.

Solving Problems with the Remote Control

The projector doesn't respond to remote control commands.

- The remote control's batteries may not be installed correctly or may be low on power. To change the batteries, see page 30.
- Make sure you are within about 20 feet (6 meters) of the projector and within range of the projector's front or back sensor (approximately 30° to the left or right and 15° above or below).
- Dim the room lights and turn off any fluorescent lights. Make sure the projector is not in direct sunlight. Strong lighting, especially fluorescent lights, may affect the projector's infrared receivers. Also, turn off any nearby equipment that emits infrared energy, such as a radiant room heater.

Where To Get Help

Epson provides technical assistance through electronic support services 24 hours a day, as listed in the following table.

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 Start Here 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 755c/765c)
- 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 an authorized Epson reseller. To find the nearest reseller, please call 800-GO-EPSON (800-463-7766). To purchase online, visit www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for reseller referral.

Software Installation

note:

You can present over a wireless network from a Macintosh running OS X, but you can only monitor the projector from a remote location using a Windows system.

The EasyMP software CD-ROM includes the software you need to use the projector's EasyMP features—for presenting over a wireless network, transferring PowerPoint presentations to a memory card, and monitoring the projector from a remote location. Epson Projector Software CD-ROM includes EMP Monitor and EMP Network Manager for presenting and monitoring the projector from a remote location.

Windows System Requirements

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

- Microsoft Windows 98, 2000, Me, or XP
- 802.11g or 802.11b network card or wireless adapter (to use EMP NS Connection)
- IBM® compatible PC with at least a Pentium® III 700 MHz processor
- At least 256MB of RAM
- At least 128MB of free hard disk space
- SVGA (800 × 600) or better display adapter and monitor (XGA or 1024 × 768 recommended)

Macintosh System Requirements

Before you install the software, make sure your Macintosh meets the following requirements:

- Macintosh OS X 10.2.4 or later
- AirPort (802.11b) or AirPort Extreme (802.11g) wireless network interface
- Power Macintosh® series, iMac,® PowerBook,® or iBook® series
- At least 256MB of RAM
- At least 128MB of free hard disk space
- SVGA (800 × 600) or better display adapter and monitor (XGA or 1024 × 768 recommended)

Installing the Software on a Windows System

Follow these steps:

1. Insert the EasyMP CD-ROM in your computer's CD-ROM or DVD drive. You see this screen:



- 2. Click Install, then follow the on-screen instructions to install your projector software.
 - If you see a message that the Epson GDI Monitor Driver has not passed Windows Logo testing, click Continue Anyway.
- 3. When installation is complete, close the installation window.

Installing the Software on a Macintosh

Follow these steps to install EMP NS Connection:

- 1. Insert the EasyMP software CD-ROM in your drive.
- 2. If necessary, double-click the **Epson** CD-ROM icon to open its window.
- 3. Double-click the Installer for Mac OS X icon. You see this screen:

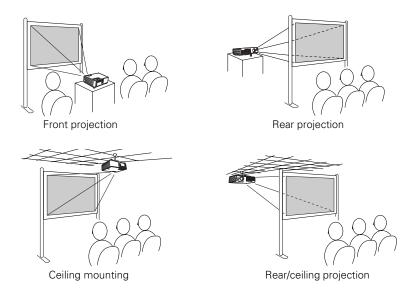


- 4. Click Install, then follow the on-screen instructions to install the software.
- 5. When installation is complete, close the installation window.

Projector Installation

This appendix provides guidelines on installing the projector in a permanent location, such as a theater or conference room.

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:



To project from overhead, you'll need the optional ceiling mounting hardware; see page 13 for ordering information. You'll also need to select Front/Ceiling or Rear/Ceiling as the Projection option of the projector's Extended menu to flip the image upside-down. To project from the rear, onto a semi-transparent screen, select Rear or Rear/Ceiling (see page 120).

If you're mounting the projector on the ceiling and you place it above screen level, you'll have to tilt the projector down to position the image on the screen. This causes the image to lose its square shape. You can correct the distortion using the Keystone function in the projector's menu system (see page 113).

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

Technical Specifications

General

Type of display Epson poly-silicon TFT active matrix

Resolution

(native format) 1024×768 pixels (XGA) Color reproduction 24 bit, 16.8 million colors

Brightness

755c 2000 lumens (High Brightness mode)

1500 lumens (Low Brightness mode)

765c 2500 lumens (High Brightness mode)

2000 lumens (Low Brightness mode)

Contrast ratio 400:1

Image size 30 to 300 inches

Projection distance 3.2 to 39.7 feet (1.0 to 12.1 meters)

Projection methods Front, rear, upside-down (ceiling mount)

Internal sound system 1 W monaural

Optical aspect ratio 4:3 (horizontal:vertical)

Zoom ratio 1:1.2

Noise level 35 dB in Low Brightness mode, 40 dB in

High Brightness mode

Keystone correction Automatic (manual adjustment capability

±30° vertical keystone correction)

Mouse compatibility Supports USB (type B)

Projection Lamp

Type UHE (Ultra High Efficiency)

Power consumption 170 W

Lamp life Approx. 2000 hours (High Brightness

mode)

Approx. 3000 hours (Low Brightness mode)

Part number V13H010L32

Remote Control

Range 20 feet (6 meters)

Batteries (2) Alkaline AAA

Dimensions

Height 2.7 inches (70 mm), feet retracted

Width 10.9 inches (276 mm)

Depth 7.6 inches (193 mm)

Weight 3.9 lb (1.8 kg)

Electrical

Rated frequency 50/60 Hz AC

Power supply 100 to 120 VAC, 2.7 A

200 to 240 VAC, 1.1 A

Power consumption Operating: 240 W

Environmental

Temperature Operating: 41 to 95 °F (5 to 35 °C)

Storage: 14 to 140 °F (-10 to 60 °C)

Humidity

(non-condensing) Operating: 20 to 80% RH

Storage: 10 to 90% RH

Operating altitude 0 to 7,500 ft (0 to 2,286 m)

Safety

United States FCC 47CFR Part 15B Class B (DoC)

UL60950 Third Edition

Canada ICES-003 Class B

CSA C22.2 No. 60950

CE Marking Directive 73/23/EEC

Directive 89/336/EEC IEC 60950 Third Edition EN 55022, EN 55024



Pixelworks[™] DNX[™] ICs are used in this projector.

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. Some images are automatically resized to display in the projector's "native" format (XGA). The frequencies of some computers may not allow images to display correctly; see your computer's documentation for details.

Mode	Refresh Rate (Hz)	Resolution
VGA EGA	70	640 × 350*
VGA—60	60	640 × 480*
VESA—72	72	640 × 480*
VESA—75	75	640 × 480*
VESA—85	85	640 × 480*
SVGA—56	56	800 × 600*
SVGA—60	60	800 × 600*
SVGA—72	72	800 × 600*
SVGA—75	75	800 × 600*
SVGA—85	85	800 × 600*

Mode	Refresh Rate (Hz)	Resolution
XGA—60	60	1024 × 768
XGA—70	70	1024 × 768
XGA—75	75	1024 × 768
XGA—85	85	1024 × 768
SXGA1—70	70	1152 × 864*
SXGA1—75	75	1152 × 864*
SXGA1—85	85	1152 × 864*
SXGA2—60	60	1280 × 960*
SXGA2—75	75	1280 × 960*
SXGA2—85	85	1280 × 960*
SXGA+60	60	1400 × 1050*
SXGA+75	75	1400 × 1050*
SXGA+85	85	1400 × 1050*
SXGA3—60	60	1280 × 1024*
SXGA3—75	75	1280 × 1024*
SXGA3—85	85	1280 × 1024*
UXGA—60	60	1600 × 1200*
iMAC VGA	117	640 × 480*
iMAC SVGA	95	800 × 600*
iMAC XGA	75	1024 × 768
MAC13	67	640 × 480*
MAC16	75	832 × 624*
MAC19	75	1024 × 768
MAC19-60	59	1024 × 768
MAC21	75	1152 × 870*
NTSC	60	_
NTSC 4:43	60	_
PAL	50	_
N-PAL	50	_
M-PAL	60	_
PAL—60	60	_
SECAM	50	_
HDTV (720p)	60	_
HDTV (720p)	50	_
HDTV (1080i)	60	_
HDTV (1080i)	50	_
TV480i	60	_
TV480i	50	_
SDTV (480p)	60	_
SDTV (480p)	50	_

 $^{^*}$ The image is resized using Epson's SizeWise[™] Technology.

Notices

This appendix 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.
- Do not hold the plug with wet hands.
- Take the following precautions for the plug. Failure to comply with these precautions could result in sparks or fire: Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
- Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause fire or electric shock.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- Unplug the projector from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or in a closed-in cabinet unless proper ventilation is provided.
- Never push objects of any kind through the cabinet slots. Never spill liquid of any kind into the projector.

- Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: When the power cord or plug is damaged or frayed. If liquid has been spilled into the projector, or if it has been exposed to rain or water. If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service. If it has been dropped or the housing has been damaged.
- (hg) The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.
- Unplug the projector during lightning storms or when it will not be used for extended periods.
- Do not place the projector and/or remote control on top of heat-producing equipment or in a hot location.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector outside of the required temperature range of 41 to 95 °F (5 to 35 °C). Doing so may cause an unstable display and could lead to projector damage.
- Do not store the projector outside of the required temperature range of 14 to 140 °F (−10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

WARNING: The cords included with this product contain chemicals, including lead, known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling. (Provided in accordance with Proposition 65 in Cal. Health & Safety Code \$25249.5 et seq.)

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:

- The remote control'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.

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: 3-13

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: Projector

Model: EMP-755/765

Marketing Name: PowerLite 755c/765c

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 original retail purchaser of the Epson product enclosed with this limited warranty statement that the product, if purchased new and operated 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). For warranty service, you must provide proof of the date of original purchase.

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 refurbished to the Epson standard of quality, and at Epson's option, the replacement may be another model of like kind and quality. Epson's liability for replacement of the covered product will not exceed the original retail selling price of the covered product. 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 does not apply to refurbished or reconditioned products. This warranty covers only normal consumer use in the United States and Canada. 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. This warranty is not transferable. 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. IN THE EVENT THE REMEDIES ABOVE FAIL, EPSON'S ENTIRE LIABILITY SHALL BE LIMITED TO A REFUND OF THE PRICE PAID FOR THE EPSON PRODUCT COVERED BY THIS LIMITED WARRANTY. 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.

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 ConnectionSM 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.

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