

**PowerLite® 1825
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 PowerLite® 1825 is an easy-to-use projector that weighs less than 7 pounds (3.2 kg). The projector offers up to 3500 lumens of brightness. You can connect it to a wide range of computers and video sources, or you can project from a USB or CompactFlash® storage device, or over an 802.11g, 802.11b, or 802.11a wireless or wired network.

Easy setup, control, and security:

- 5-second startup time and Instant Off® feature for fast setup and shut down
- Automatic digital keystone correction
- 1.6x optical zoom lens for flexible placement and positioning
- Security features include password, user's logo, and the ability to lock the projector buttons
- A/V mute slide (lens cover) to block the lens and save lamp life when you want to temporarily stop projecting

Additional enhancements:

- Connect three computers, one via USB 2.0 cable and another two via VGA cable for multi-source presentations
- With Windows Vista®, you can use the wireless Network Projector feature to quickly connect to the projector without installing any software
- Wirelessly send MPEG2, MPEG4, and WMV full-screen video from a PC
- Project up to four different images from one computer
- Color match images from up to four projectors for a uniform, wide-screen view

- Project only the PowerPoint® slide images while viewing handout notes and controls on the computer screen
- Perform six-axis color adjustment for fine art and photography

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:

- **Quick Setup sheet**
Gives you the instructions you need to get your projector up and running if you are connecting to a notebook, MacBook®, PowerBook®, or iBook® computer, or projecting over a wireless network.
- **Projector 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 182 for details.
- **epson.com/support**
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 PrivateLine card. Or take advantage of Epson's automated support services 24 hours a day. See page 197 for more information.
- 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.

Registration and Warranty

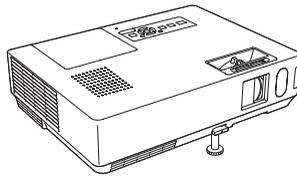
Your projector comes with a basic carry-in 2-year and 90-day lamp warranty that lets you project with confidence. For details, see the warranty brochure included with your projector.

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 included with your projector for details.

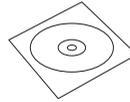
To register, simply fill out the registration card and mail it to Epson. Or you can register online at epson.com/webreg. Registering also lets you receive special updates on new accessories, products, and service.

Unpacking the Projector

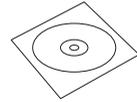
After unpacking the projector, make sure you have all these parts:



Projector



PDF manual and
registration CD-ROM



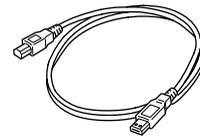
Projector software
CD-ROM



Wireless LAN module
and security screw



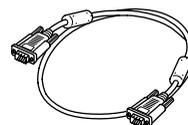
Remote control and
2 AAA batteries



USB cable



Power cable



VGA computer cable



Carrying case

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 180 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.
- To receive a component video signal from a VCR or other video device, you'll need an HD15 to component video cable.

You can purchase these items from Epson. See "Optional Accessories" on page 13.

Optional Accessories

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

Product	Part number
Replacement lamp	V13H010L40
Air filter replacement set (2 filters)	V13H134A08
Universal ceiling mount False ceiling plate Security bracket/cabling for gyro lock mounts Adjustable ceiling channel Suspension adapter	ELPMBUNI ELPMBFCP ELPMBSEC ELPMBACC ELPMBAPL
Kensington® security lock	ELPSL01
50-inch portable screen (4:3 aspect ratio) 60-inch portable pop-up screen (4:3 aspect ratio) 80-inch portable pop-up screen (4:3 aspect ratio) 83.6-inch hanging pull-down screen (4:3 aspect ratio) DUET Portable Projector Screen (4:3/16:9 combination)	ELPSC06 ELPSC07 ELPSC08 ELPSC09 ELPSC80
HD-15 to component video cable S-video cable	ELPKC19 ELPSV01
Distribution amplifier	ELPDA01
Image presentation camera (ELPDC05)	V12H162020

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

1 *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 on and off the projector
- Displaying an image
- Troubleshooting display problems
- Adjusting the image

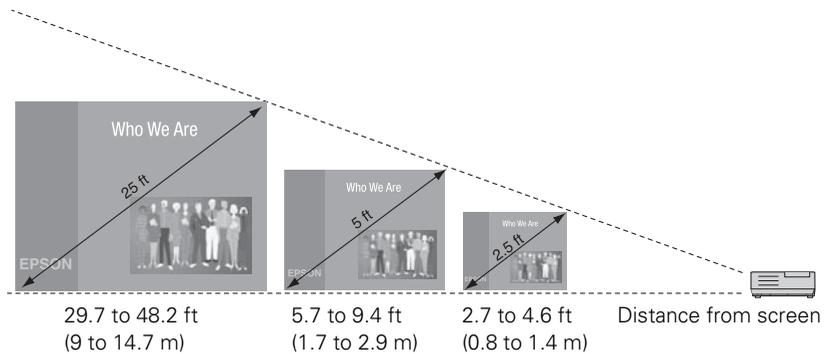
note

You can mount the projector on the ceiling, or place it behind a translucent screen for rear projection. See page 203 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.

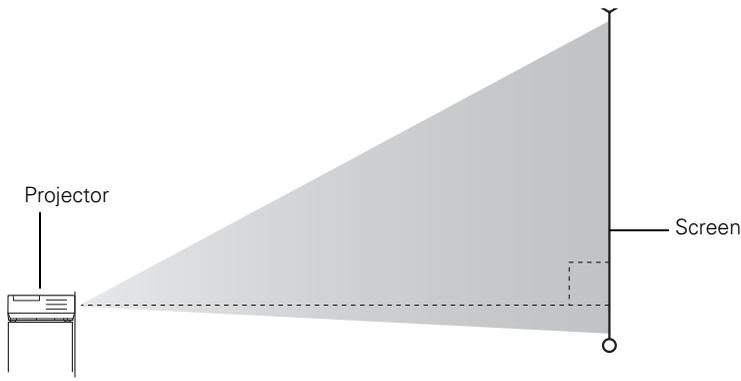
Use the figure below to help you determine placement. Image size increases with distance, but can vary depending on how you position the zoom ring and whether you've adjusted the image with other settings.



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 (3 meters) 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 (see page 24).

For instructions on installing the projector in a permanent location, such as a theater or conference room, see page 203.

Turning the Projector On and Off

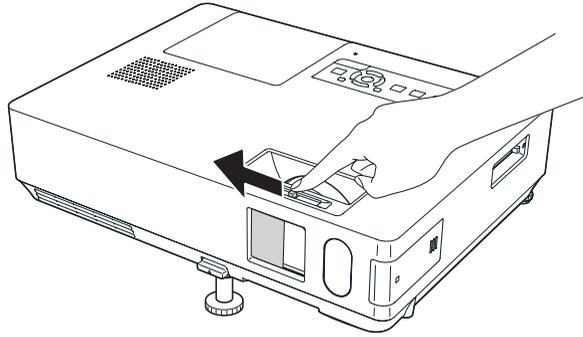
Turn on any connected computer or video equipment before starting the projector so it can automatically detect and display the image source. If you turn on the projector first, or have multiple pieces of connected equipment, you may have to select the image source manually (see page 20).

note

After positioning the projector, you may want to connect a Kensington MicroSaver® anti-theft device to the lock port on the projector. You can purchase this from Epson; see page 13.

Follow these steps to turn on the projector:

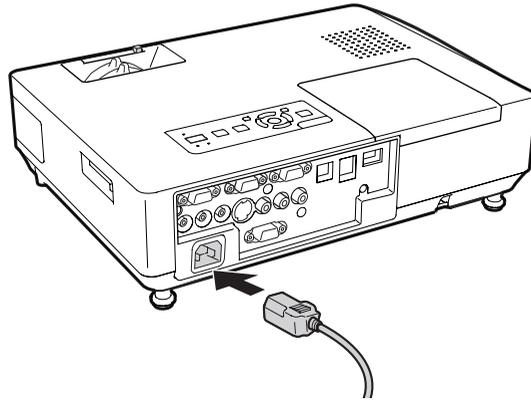
1. Open the A/V mute slide (lens cover).



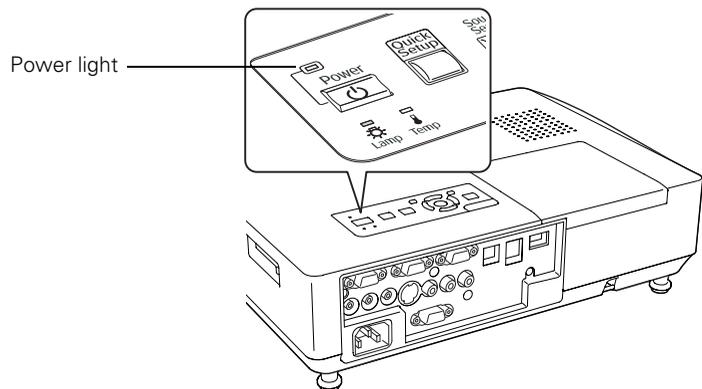
note

You can set the projector to automatically turn off the 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  Power button. If you are done using the projector, unplug the power cord. To enable sleep mode, see page 149.

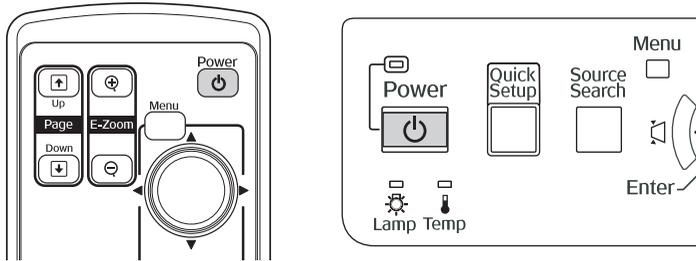
2. Plug one end of the power cable into the projector, and the other end into an electrical outlet.



The Power light turns orange.



3. Press the  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 are prompted to enter a password, see page 146.

warning

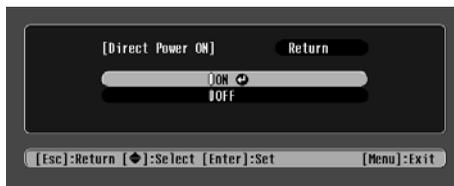
Never look into the lens when the lamp is on. This can damage your eyes, and is especially dangerous for children.

Using the Direct Power On Function

The Direct Power On function enables faster setup. The projector starts up automatically when you plug it in or turn it on with a wall switch. You don't have to press the  Power button.

Follow these steps to enable Direct Power On:

1. Press the **Menu** button on the remote control or projector 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 **Menu** to exit. The setting will take effect the next time you plug in the projector.

note

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

note

Lamp life results will vary depending on mode selected, environmental conditions, and usage.

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

Shutting Down the Projector

This projector incorporates Instant Off technology. To turn it off, you can press its  Power button as described below, unplug it, or turn off a power switch that supplies power to the projector. You don't have to wait for the projector to cool off first.

1. To turn off the projector, press the  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.)



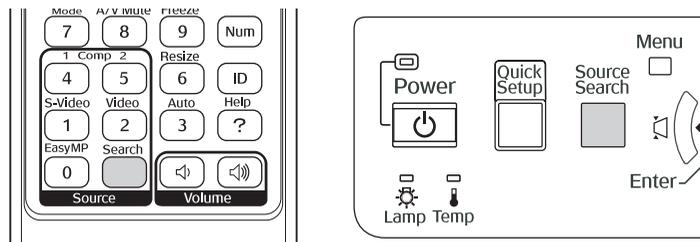
2. Press the  Power button again. The projection lamp turns off and you can unplug the power cord.

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

Displaying an Image

You may need to select the image source if you have multiple video sources connected to the projector (such as a computer or DVD player). Selecting the image source lets you switch between images input from different pieces of connected equipment.

If you don't see the image you want, press the **Search** button on the remote control or the **Source Search** button on the projector 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 USB drive.

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 39.
- Make sure the **Power** light is green and not flashing and the A/V mute slide (lens cover) is open.
- 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.

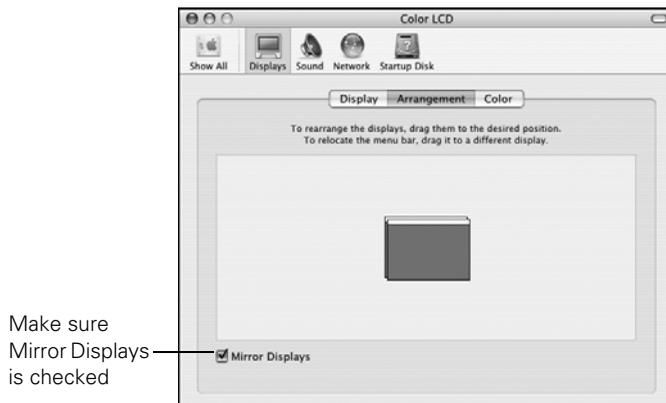
- If the function key doesn't permit you to display simultaneously on both screens, you should check your monitor settings to make sure both the LCD screen and the external monitor port are enabled.

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 Mac OS X:

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

1. From the Apple® menu, select **System Preferences**, then 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.

Adjusting the Image

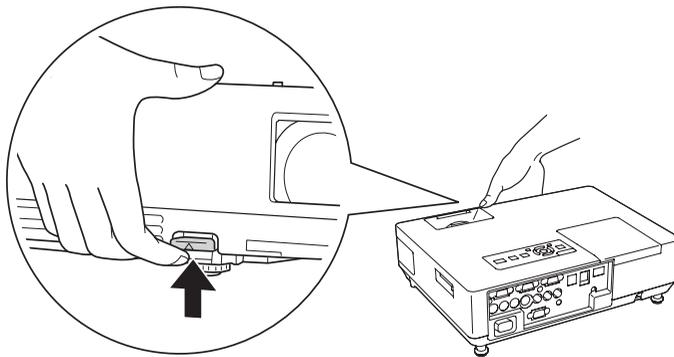
Once you see your image, you need to make certain adjustments:

- If the image is too high or too low, reposition it as described below.
- To focus or zoom your image, see page 24.
- If the image isn't square, see page 24.
- To quickly adjust the color, brightness, or contrast, see page 28.
- To change the image aspect ratio, see page 28.
- If you need to fine-tune the image and/or sound, see Chapter 6.

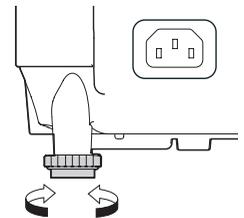
Adjusting the Height of the Image

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 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 any of the projector's adjustable feet.

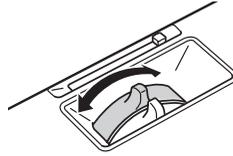


Raising the projector causes the image to distort or “keystone,” but you can correct the shape as described on page 24.

Focusing and Zooming the Image

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

Turn the zoom ring to reduce or enlarge the image.



Focus



Zoom

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 32 for instructions.

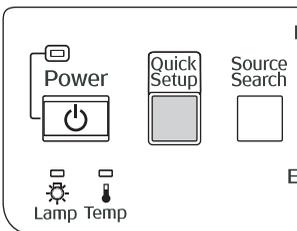
Adjusting the Image Shape

You can maintain a square or rectangular image by placing the projector directly in front of the screen and keeping it level. This also produces the best picture quality. If the projector is tilted up or placed at an angle, you'll need to correct the image shape by using one of the functions described below.

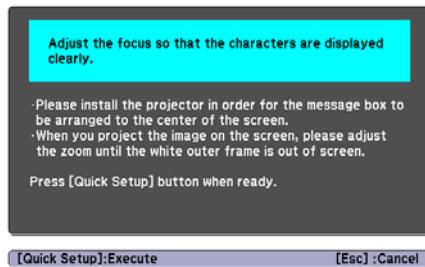
Automatic Image Adjustment

Use the projector's Quick Setup feature to set up quickly for a presentation. This function automatically corrects the shape and position of the image to fit on a screen with a 4:3 aspect ratio. It can correct image distortion when the projector is placed up to a 45° angle to the screen (vertically) and 20° (horizontally).

1. Press the **Quick Setup** button on the projector's control panel.



You see a projected message:



2. Aim the projector so the message appears near the middle of the screen. Then use the zoom ring to enlarge the image so the white frame (not shown above) extends beyond the edges of the screen on all sides.
3. Press the **Quick Setup** button again. Two white boxes flash momentarily onto the screen, and the adjustment is complete. Your projected image now fits on the screen (some slight overlap is normal).

The Quick Setup adjustment is retained when the projector is turned off. If the projector is installed in a fixed location, you won't need to repeat the adjustment each time you turn it on. To fine-tune the Quick Setup adjustment, use Quick Corner® (below).

Using Quick Corner

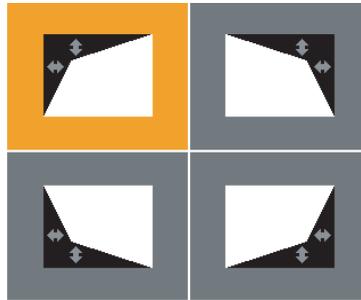
Use Quick Corner to adjust the shape and size of the image when it's uneven on all sides, or to finely adjust the image after performing Quick Setup. If you just used Quick Setup, you can use the projector's arrow buttons to make the Quick Corner adjustment. If not, you'll have to select Quick Corner as follows:

1. Press the **Menu** button on the remote control or on the projector's control panel.
2. Select the **Settings** menu and press **Enter**.
3. From the Settings menu, select **Keystone** and press **Enter**.
4. Select **Quick Corner** and press **Enter**.

note

If Quick Setup did not detect the edges of your screen (for example, if you're projecting on a wall), then the arrow buttons will be in Keystone correction mode after performing Quick Setup (see page 26).

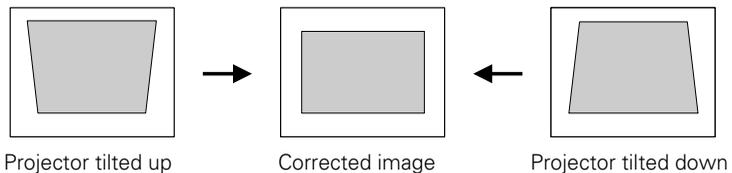
You see this screen:



5. Use the  pointer button on the remote control (or the arrow buttons on the projector) to select the corner you want to adjust, and press **Enter**.
6. Use the  pointer button on the remote control (or the arrow buttons on the projector) to adjust the shape.
7. Repeat steps 5 and 6 as needed to adjust any remaining corners.
8. When done, press **Menu** to exit the menu system.

Using Keystone Correction

The projector automatically corrects vertical keystone distortion when it is tilted within a range of 30° up or down.

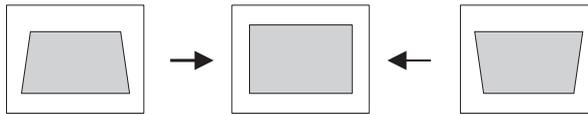


It takes about one second after projection starts for the image to be corrected. During this time, a vertical keystone correction gauge appears on the screen. If keystone correction isn't automatically performed, you may need to turn on the **Auto V-Keystone** setting in the projector's menu system (see page 143).

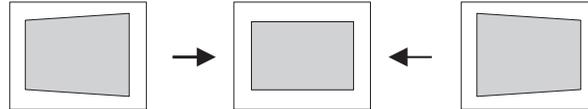
You can manually adjust the shape of the image to compensate for vertical and horizontal keystone distortion. First make sure the Keystone setting in the projector's menu system is set to **H-Keystone** or **V-Keystone**:

1. Press the **Menu** button on the remote control (or on the projector's control panel).
2. Select the **Settings** menu and press **Enter**.
3. From the Settings menu, select **Keystone** and press **Enter**.
4. Select **H/V-Keystone** and press **Enter**.
5. Select **H-Keystone** (for horizontal adjustment) or **V-Keystone** (for vertical adjustment) and use the ◀ and ▶ arrow buttons to adjust the shape of the image.

Vertical
keystone
adjustment



Horizontal
keystone adjustment



If the image becomes smaller, use the zoom ring to enlarge the image so it fits the screen. If the image contains faint lines or a gridlike pattern, decrease the sharpness setting (see page 139).

note

The projector's arrow buttons may already be in Keystone correction mode if you haven't used Quick Setup or Quick Corner.

Selecting the Color Mode

The Color Mode adjusts the brightness, contrast, and color for various common viewing environments. Use this setting to quickly obtain a good picture.

Press the Color Mode button on the remote control, and then select from one of these options:

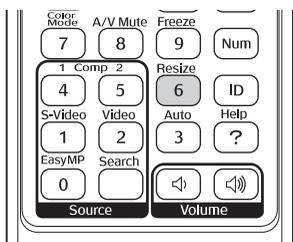
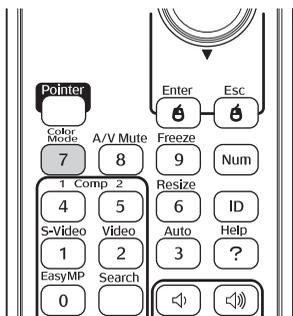
- **Presentation:** For making color presentations in a bright room.
- **Text:** For making black-and-white presentations in a bright room.
- **Theatre:** For watching movies in a darkened room; gives images a natural tone.
- **Photo:** For vivid, high-contrast still images in a bright room.
- **Sports:** For vivid TV images projected in a bright room (video, S-video, or composite video only).
- **sRGB:** Matches the color palette of standard sRGB computer displays.
- **Blackboard:** Projects accurate colors on a green chalkboard (adjusts the white point).
- **Customized:** For manual color adjustment (see page 139).
- **Game:** Increases brightness when playing video games or watching TV in a bright room. Emphasizes dark gradations.

Resizing Video Images

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

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. You can also select **16:9 (Up)** or **16:9 (Down)** to reposition videos to accommodate subtitles or supertitles.

For computer images, select **Normal** to automatically resize the image and make the best use of the display area.



2

Presenting With 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 (6 meters) away.

You can use the remote control to adjust the picture and sound (page 30) or as a pointer to highlight your presentation (page 33). You can also use it as a wireless mouse when projecting from a computer (page 35), or to control two or more projectors at the same time (page 36).

This chapter covers:

- Using the remote control
- Controlling the picture and sound
- Highlighting your presentation
- Operating your computer with the remote control
- Operating two or more projectors with the remote control

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.

Using the Remote Control

Make sure batteries are installed as described on page 179. 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 (6 meters) of the projector.
- Avoid using the remote under bright fluorescent lamps or in direct sunlight, or the projector may not respond properly.

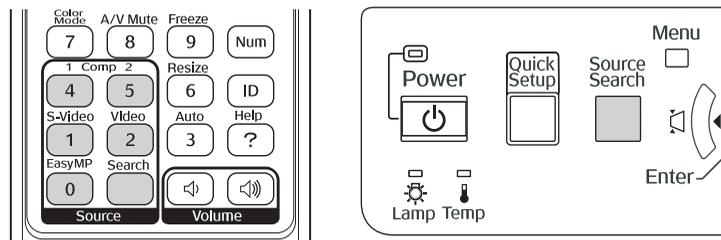
Controlling the Picture and Sound

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.



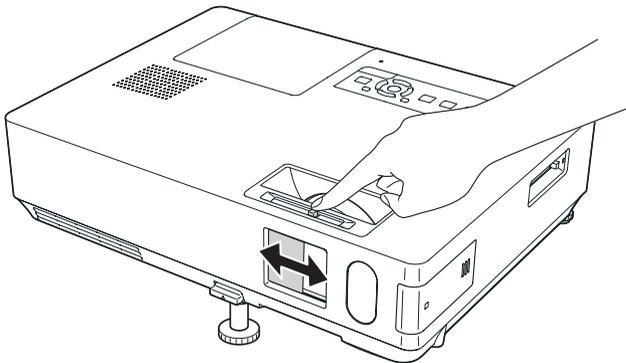
- On the remote control, there are several **Source** buttons. Use them to switch between equipment connected to the port identified on each button.

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

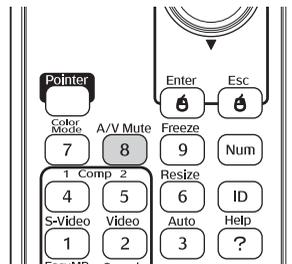
Turning Off the Picture and Sound

You can temporarily turn off the image and sound when you want to redirect your audience's attention. There are two ways to do this:

- Close the A/V mute slide, as shown below:



- Press the A/V Mute button on the remote control. This turns the image black and stops the sound. To turn the image and sound back on, press the button again.



You can have the screen turn blue 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 146).

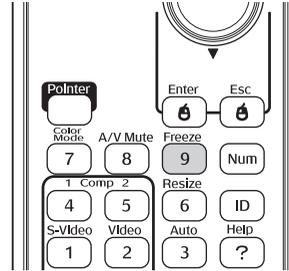
note

This function pauses the image, not the sound. Because the source continues to transmit signals, when you resume the action, it won't be at the point you stopped it.

Stopping Action

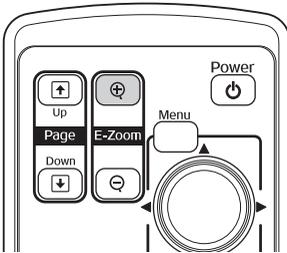
You can use the remote control to stop the action in your video or computer image.

- 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.



Zooming Part of Your Image

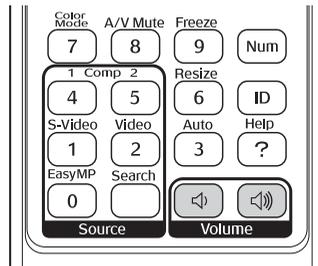
You can zoom in on a portion of the image using the E-Zoom buttons on the remote control.



1. Press the E-ZOOM \oplus button on the remote control.
You see a crosshair indicating the center of the zoom-in area.
2. Use the \odot pointer button to position the crosshair.
3. Continue pressing the E-ZOOM \oplus button to enlarge the selected area up to 4 times.
4. While the image is enlarged, you can:
 - Use the \odot pointer button to move around the screen.
 - Press the E-ZOOM \ominus 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  or  button on the remote control.



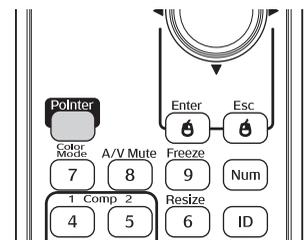
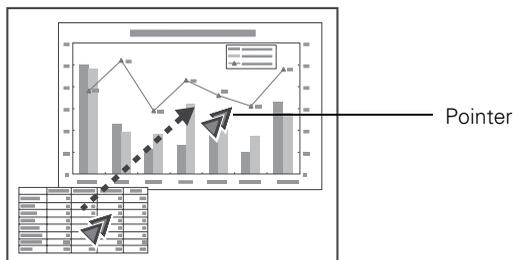
You can also adjust the volume using the projector's menu system. See page 143.

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.

note

To temporarily shut off the sound and picture, press the **A/V Mute** button or close the A/V mute slide.

2. Use the  pointer button on the remote control to position the pointer on the screen.
3. When you're 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.

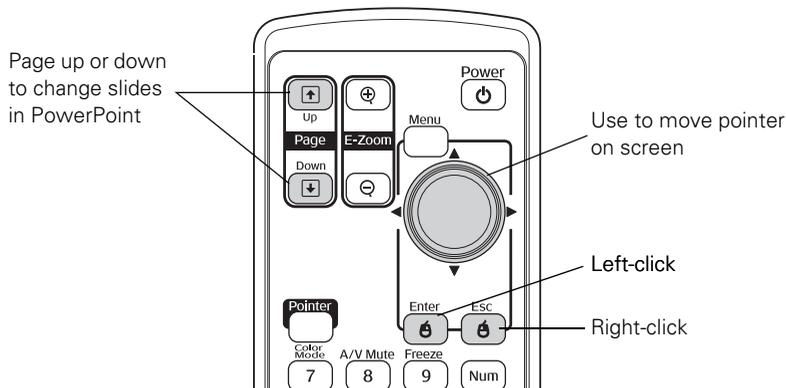


1. Press the **Menu** button on the remote control, highlight the **Settings** menu, highlight **Pointer Shape**, and press **Enter**. You can select one of the pointer shapes shown at the left.
2. Select the shape you want and press **Enter**.
3. Highlight **Return** and press **Enter**.
4. Press **Menu**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

Operating Your Computer With the Remote Control

If you connect a computer to the projector with a USB cable, as described on page 42, then select **Wireless Mouse** for the USB Type B setting in the Extended menu (see page 150), 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 **Up** and **Down** buttons to move through a Microsoft® PowerPoint slideshow.



- Use the **Pointer** button to move the pointer 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.
- To drag-and-drop, hold down the **Enter** button. Then use the **Pointer** button to drag the object. When it's where you want it, release the **Enter** button.

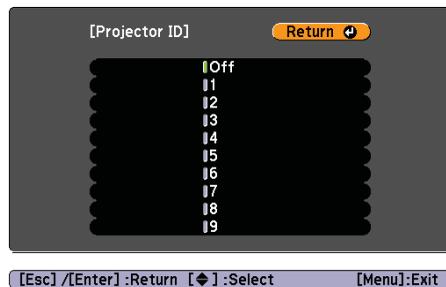
Operating Two or More Projectors With the Remote Control

If you're using more than one projector, you can control all the projectors—or just selected ones—by using the projector ID system. To operate a projector, you have to set the remote control's ID to match that of the projector. Or you can control all the projectors at once by setting the remote control's ID to zero.

Setting the Projector ID

The projector's default ID is set to Off. This lets it respond to commands from any remote control. To change the ID, follow these steps:

1. Press the **Menu** button on the remote control. You see the projector's menu screen.
2. Select **Extended**, then **Projector ID**.

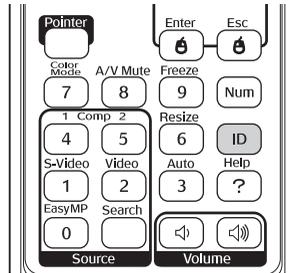


3. Use the  pointer button to highlight the new ID, and press **Enter** to select it.
4. When you're done, press **Menu** to exit the menu system.

Setting the Remote Control ID

The remote control's default ID is zero. This lets you operate any projector. To set it to operate a specific projector, follow these steps:

1. Point the remote control at the projector you want to be able to operate.
2. Press and hold the ID button on the remote control.



3. While holding the ID button, press a numbered button on the remote control (0 through 9) to select the desired ID. Select zero to control all projectors, or select a number to match the ID of the projector(s) you want to operate.

After setting the ID, you can check whether the remote control works with a specific projector:

1. Point the remote control at the projector you want to check.
2. Press the ID button on the remote control. You see a message on the screen like one of these:

Projector ID : 3
Remote Control: On

Projector ID : 3
Remote Control: Off

If the message says the remote control is “On,” then you can use the remote control to operate that projector. If it says “Off,” then you have to change the ID of the remote control and/or projector before operation is possible.

note

If you're using a remote control ID other than the default ID of zero, you have to set the ID each time you turn on the projector.

3

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 or digital camera, use it with a CompactFlash memory card, or connect it to your local area network.

Follow the instructions in this chapter on:

- Connecting to a computer
- Connecting video equipment
- Connecting an external monitor
- Playing sound through the projector
- Connecting to a digital camera or other USB device
- Inserting a CompactFlash card
- Inserting the wireless 802.11g/b/a module
- Connecting a network cable

Connecting to a Computer

You can connect the projector to any computer that has a standard video output (monitor) port, including desktop models, PC notebook computers, MacBook, PowerBook, and iBook computers, and hand-held devices.

You can also connect a Windows® computer to the Type B USB port on the projector (see page 41). This allows you to connect an additional computer to the projector. If you want to use the projector's remote control as a wireless mouse to operate your computer during presentations, see page 42.

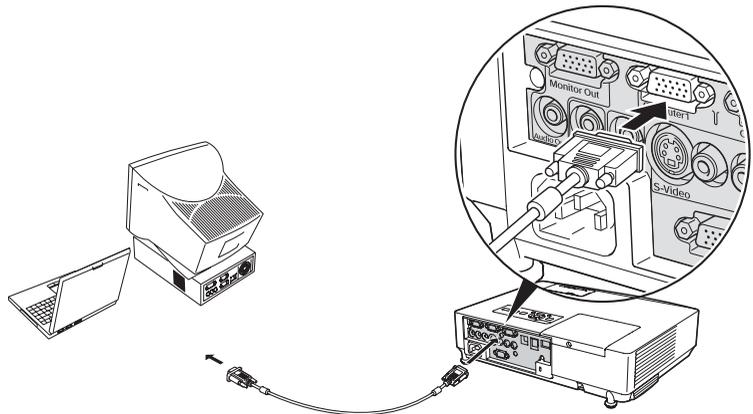
Connecting to the Computer Port

You can connect to the projector using the VGA computer cable that came with it (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 **Computer1** or **Computer 2** port, and the other end to your computer's monitor port.

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.



2. You may need to change the **Computer1 Input** or **Computer2 Input** setting in the projector's **Signal** menu to **RGB** (see page 142).

3. You can connect an optional stereo mini-jack audio cable to play sound through the projector (see page 50), or connect a USB cable to use the remote control as a mouse (see page 42).
4. When you've finished making any connections, see page 17 for instructions on turning on the projector and adjusting the image.

Connecting to the USB Port

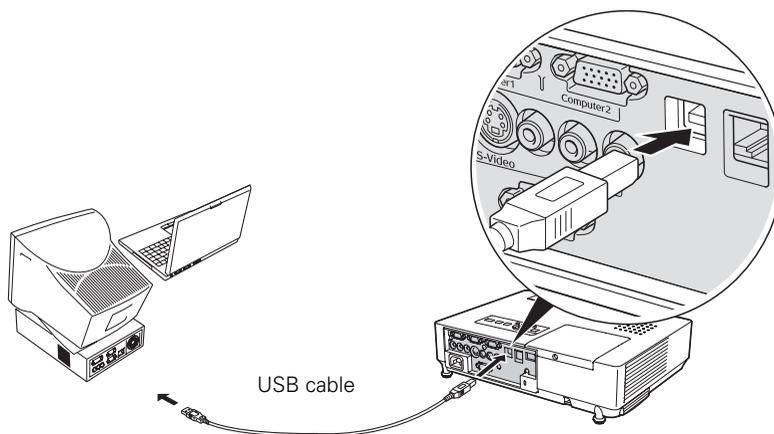
You can connect a Windows XP or Windows 2000 (SP4) computer to the projector's Type B (square)  USB port and project your computer's display. A USB 2.0 connection provides better picture quality and response than USB 1.1.

The first time you connect a computer to the projector's USB port, software from the projector installs on your computer.

1. Follow the instructions beginning on page 17 to turn on the projector and adjust the image.
2. Make sure the USB Type B setting under the projector's Extended menu is set to **USB Display** (see page 150).
3. Turn on your computer.
4. Locate the USB cable that came with your projector.
5. Connect the square end of the cable to the projector's Type B (square)  USB port.

note

You can't use the remote mouse control function when you use the USB port to project your computer's display.



6. Connect the flat end of the cable to any available USB port on your notebook or desktop computer.

Messages appear as the projector is recognized and the software installation begins.

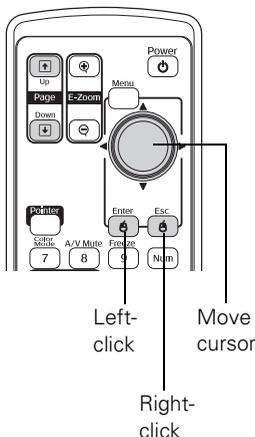
7. Follow the instructions on your computer screen to install the Epson USB Display software. If you see a “Digital Signature Warning,” select **Continue**. You will need to install the software only the first time you connect.

After the software has been installed, you see your computer’s desktop displayed by the projector. You can switch the projector to other image sources using the **Source** buttons on the remote control, and then switch back to your desktop display by pressing **EasyMP**.

When you’re done projecting from your computer, disconnect the USB cable.

note

For details on how to use the remote control in place of your computer’s mouse, see page 35.

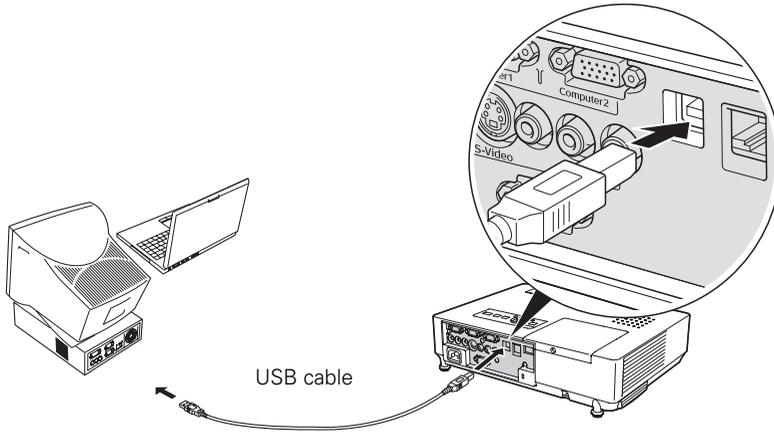


Connecting the Cable for Remote Mouse Control

If you’ve connected a computer as described in this chapter (using the **Computer 1** or **Computer 2** port) and set the USB Type B setting under the projector’s Extended menu to **Wireless Mouse** (see page 150), 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 (6 meters) away.

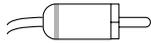
The wireless mouse function is supported on systems with a USB port running Windows Vista, Windows XP, 98SE, Me, or 2000, or Mac OS® X 10.2.x to 10.4.x.

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



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

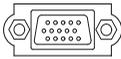
Connecting to Video Equipment



RCA connector
(composite video)



S-video
connector



VGA connector
(RGB video)

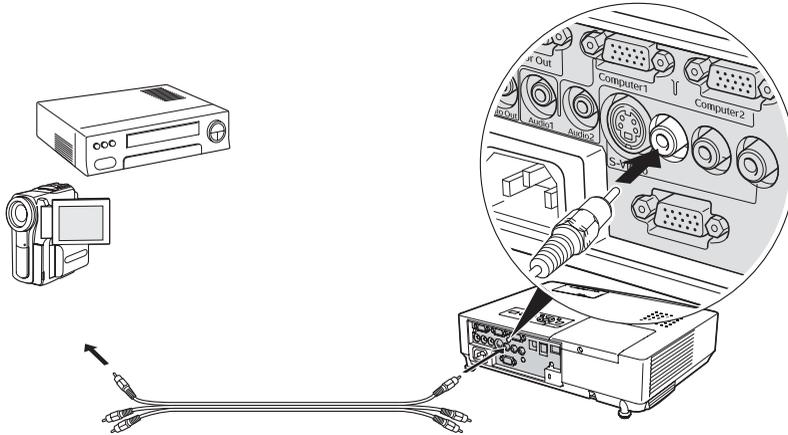
You can connect several video sources to the projector at the same time. Before starting, look at your video equipment to determine its available video output connections:

- If your video player has a yellow RCA-style video output connector, see “Connecting a Composite Video Source” on page 45.
- If your video player has an S-video connector, see “Connecting an S-Video Source” on page 46.
- 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 47.
- 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 48.

After connecting video cables, you may also want to connect an audio cable to play sound through the projector; see page 50.

Connecting a Composite Video Source

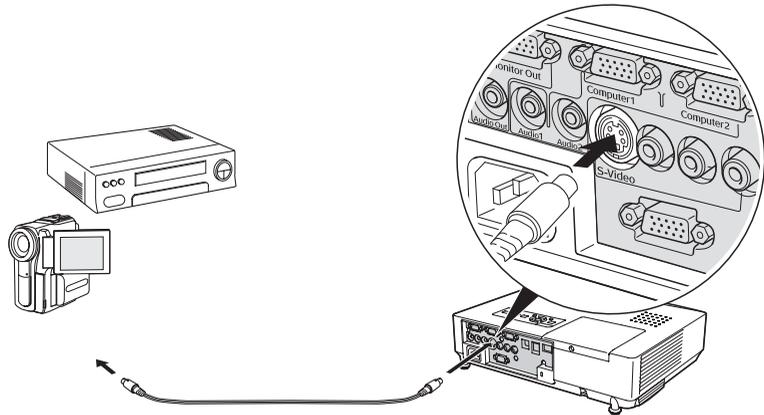
1. Locate an RCA-style video cable (one is usually provided with your video equipment or you can purchase one from an electronics dealer).
2. Connect the cable to the yellow video output connector on your player and the yellow **Video** connector on the projector:



3. If you want to play sound through the projector, see page 50 for instructions on connecting audio cables.
4. If you don't need to make any other connections, see page 17 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:

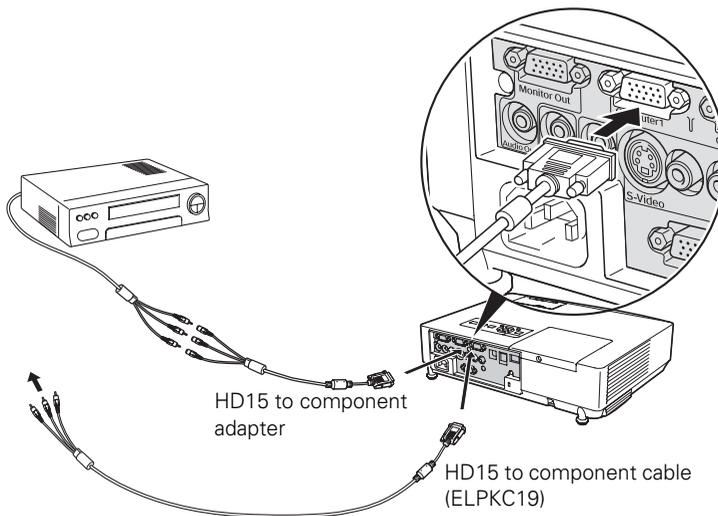


3. If you want to play sound through the projector, see page 50 for instructions on connecting audio cables.
4. If you don't need to make any other connections, see page 17 for instructions on turning on the projector and adjusting the image. Once the projector is turned on, select the image source: 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 special cable to connect your component video equipment to the HD15 (VGA-style) connector on the projector. You can order the HD15 to component cable (ELPKC19) from Epson; see page 13 for more information.

1. Locate an HD15 to component video cable or adapter.
2. Connect the cable to your player and the **Computer 1** or **Computer 2** connector on the projector.



3. You may need to change the **Computer1 Input** or **Computer2 Input** setting in the projector's **Signal** menu to **Component** (see page 142).
4. If you want to play sound through the projector, see page 50 for instructions on connecting audio cables.
5. If you don't need to make any other connections, see page 17 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.

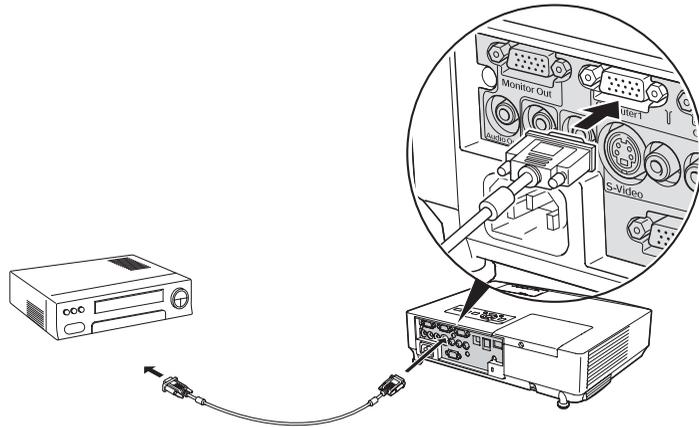
*Also, make sure the **Computer Input** setting in the **Signal** menu is set to **Auto** or **Component Video** (see page 142).*

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 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 Computer1 or Computer2 port on the projector.

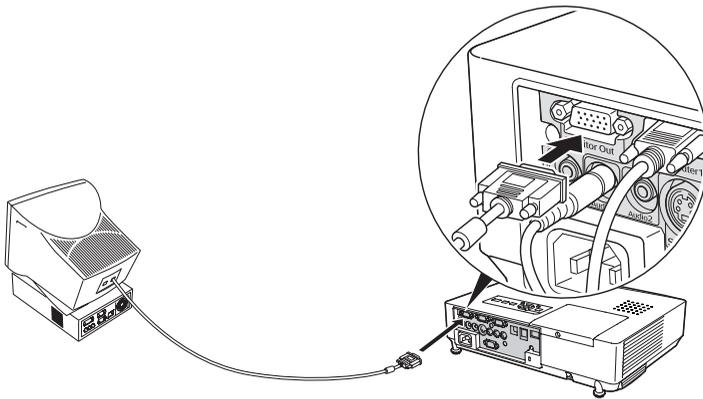


3. You may need to change the **Computer1 Input** or **Computer2 Input** setting in the projector's **Signal** menu to **RGB** (see page 142).
4. If you want to play sound through the projector, see page 50 for instructions on connecting audio cables.
5. If you don't need to make any other connections, see page 17 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 External Monitor

If you want to monitor your computer presentation close-up (on a monitor placed beside the projector) as well as on the screen, you can connect an external monitor. You can use it to check on your presentation even if you've pressed the **A/V Mute** button or switched to a different picture source.

First make sure your computer's VGA cable is connected to the projector's **Computer1** port (see page 40). Then connect your monitor to the projector's **Monitor Out** port, as shown:



note

The monitor cannot display component video, nor computer images via the Computer2 or USB port.

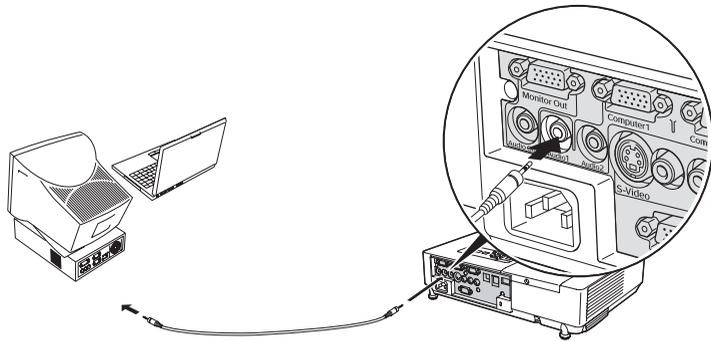
Some LCD monitors may not be able to display the image correctly. If you have trouble displaying the image, connect a multiscan monitor. If you're projecting computer images, make sure the computer's refresh rate is set to 65 Hz or greater.

Playing Sound Through the Projector

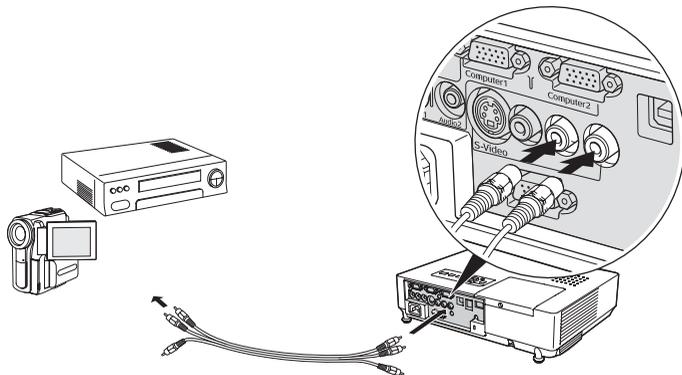
You can play sound through the projector's speaker system or attach an external speaker system.

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 equipment connected to the **Computer 1** or **Computer 2** port, use a stereo mini-jack cable. Connect the cable to the **Audio1** port (for Computer1) or the **Audio2** port (for Computer2).



- If you have equipment connected to the **Video** or **S-Video** port, connect an RCA-style audio cable to **L-Audio-R**.



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

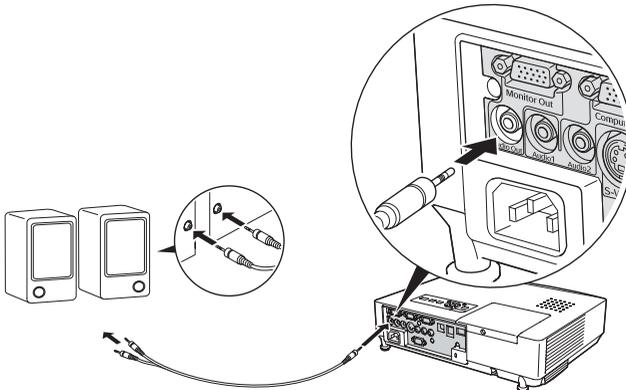
Connecting External Speakers

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

1. Locate the appropriate cable to connect your speakers.

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

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



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

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

Connecting to a Digital Camera or Other Device

note

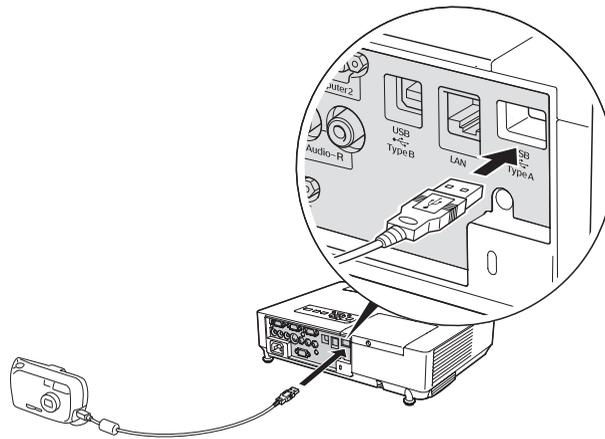
Use a cable less than 10 feet (3 meters) long and connect the camera directly to the projector. Your projector may not function correctly if you use a longer cable or connect your camera to a USB hub.

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

The slideshow function on some devices may not work with the USB connection.

You can connect your digital camera, USB flash memory drive, USB hard drive, or multimedia storage viewer, such as the Epson P-5000 or Apple® iPod.® Use the USB cable specified for your device. Then you can use your device's slideshow function or the projector's EasyMP PC Free feature (see page 111) to present images.

1. Connect the flat end of the USB cable to the flat  USB port on the projector, as shown.



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

Removing the USB Cable

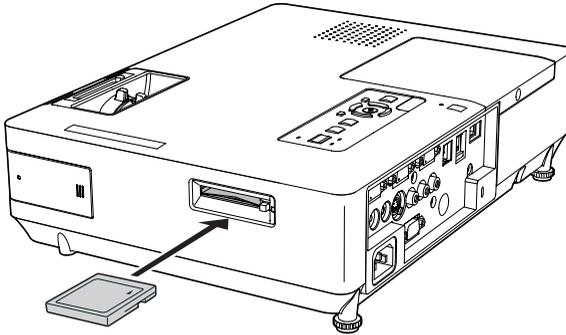
If you're using PC Free mode to project your images, exit PC Free mode before you remove the USB cable from the projector.

1. Position the cursor over the Exit button in the upper right corner of the PC Free screen.
2. Press the Enter button on the remote control to close PC Free mode.
3. Disconnect the USB cable.

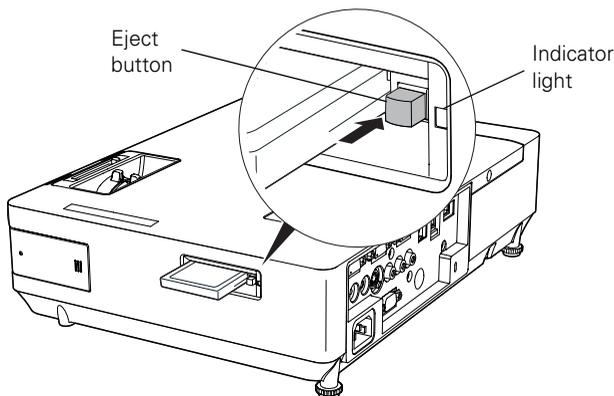
Inserting a CompactFlash Card

You can use a CompactFlash card to store images, movies, and Scenario files. This lets you project your files without connecting to a laptop or PC. To place your files on the card, copy them from your computer to the card using a card reader.

Insert the CompactFlash card face-up into the slot as shown:



The indicator light next to the slot comes on or flashes when the CompactFlash card is in use. Do not remove the card when the light is on or flashing.



To remove the card, press the eject button next to the card slot. The button pops out. Press the button again to eject the card.

note

The memory card slot also accepts Microdrive™ cards. You can also use an SD™ card, Memory Stick®, or xD-Picture Card™ by inserting it in a CompactFlash adapter.

caution

Do not remove the card when the indicator light is on or flashing, or you may damage the card or projector.

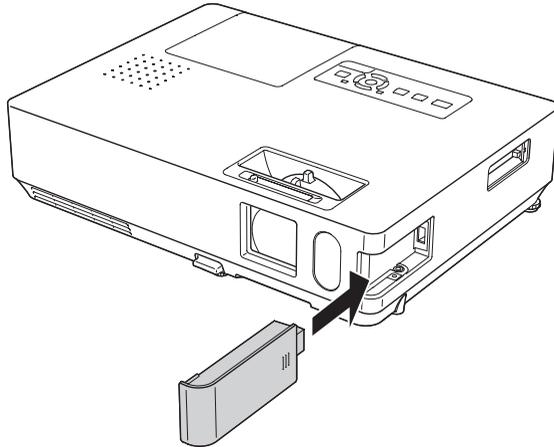
Inserting the Wireless 802.11g/b/a Module

caution

Use only the Epson 802.11g/b/a wireless module in the projector.

To use the projector over a wireless network, you need to install the projector's wireless LAN module (included). Once the module is installed, see page 57 to configure the projector and your network.

1. Insert the wireless LAN module that came with your projector.



caution

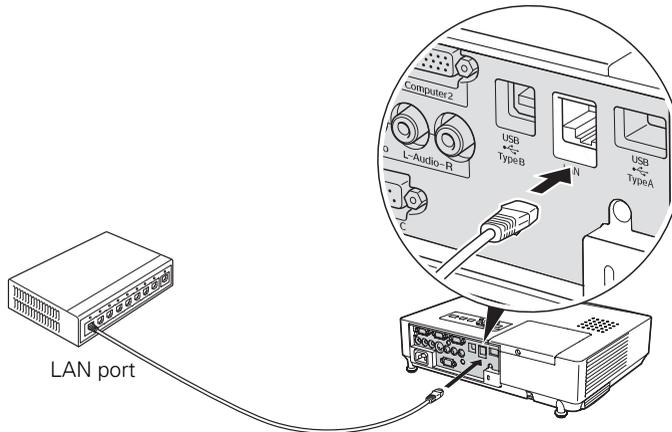
Never remove the module while its indicator light is green or when projecting wirelessly. You may damage the module or lose data.

2. Turn the projector over and insert the included screw to secure the module and keep it from being easily removed.

Connecting a Network Cable

To connect the projector to your local area network (LAN), use a commercially available 100baseTX or 10baseT network cable. To ensure proper data transmission, use a Category 5 shielded cable or better.

Connect the cable to the projector and your network port as shown:



4

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, graphics, and video—directly to your audience. If you have Windows Vista, you can also use the Network Projector feature to communicate with your network-connected projector without installing any software.

You'll find instructions in this chapter on:

- Starting EasyMP
- Configuring basic settings
- Connecting to the projector in Ad Hoc (computer-to-computer) mode or Access Point (infrastructure) mode
- Using wireless security options
- Projecting wirelessly
- Multi-screen projection
- Projecting video clips
- Using special presentation modes
- Using Windows Vista to connect to the projector

Before starting, make sure you've installed the wireless network module as described on page 54. You must also install the EMP NS Connection software as described on page 199 for each computer you connect to the projector. Then follow the steps in this chapter to start EasyMP, configure your projector and computer, and run EMP NS Connection.

Starting EasyMP

note

Use only the Epson 802.11a/b/g wireless module in the projector.

If you see a message asking you to insert a LAN or memory card, check to make sure your 802.11 a/b/g module is properly inserted (see page 54).

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

1. Point the remote control at the projector and press the  Power button.
2. Press the **EasyMP** button on the remote control to select EasyMP as the source.

You see this screen. The network settings appear in the lower left.



3. If you've already set up your computer and projector for the mode you want to use—Ad Hoc mode (also called computer-to-computer mode) or Access Point mode (also called infrastructure mode)—skip to “Projecting Over a Network” on page 89.

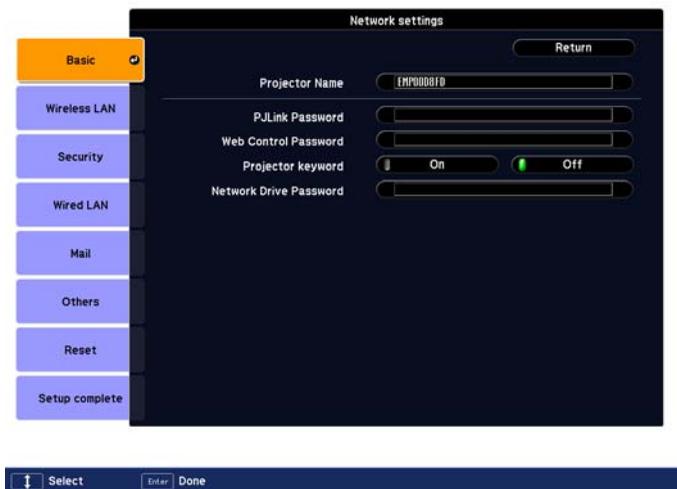
Otherwise, continue with the next section.

Configuring Basic Settings

You can give your projector a unique name, enable a projector keyword, or create a password for controlling the projector using your computer's Web browser.

1. Press the **Menu** button, then choose **Network** and press **Enter**.
2. Choose **Network Configuration** and press **Enter**.
3. Choose **Basic** and press **Enter**.

You see the following screen:



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**.

5. Press the  pointer button to select individual letters; then press **Enter** to input a character. To add a blank space or to navigate backward and forward through the input text, highlight the arrows and press **Enter**. To toggle symbol settings or capital letters, highlight the option and press **Enter**. When you're done, highlight **Finish** and press **Enter**.



6. If you want to create a password for remote access to the projector, highlight **Web Control Password**, press **Enter**, and enter a password of up to 8 alphanumeric characters. When you're done, highlight **Finish** and 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. When you connect to the projector, a randomized four-digit number or "keyword" is displayed on the screen. When prompted by NS Connection, enter the keyword on your computer to connect to the projector (see page 91).
8. If you want to prevent others from overwriting or deleting files on a CompactFlash card without permission, enter a password of up to 16 characters for the **Network Drive Password**.
9. When you're done making these settings, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

note

*You can interrupt projection even when a keyword is used. Press the **Esc** button on the remote control and select the **Close** option.*

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, 802.11b, or 802.11a) network card or adapter, or a Macintosh® with an AirPort® or AirPort Extreme card. When you connect to the projector in this mode, your connection to other wireless networks or devices is broken; you can connect to the projector only.
- **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 (802.11a, 802.11b, or 802.11g) 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. Press the **Menu** button, then choose **Network** and press **Enter**.
2. Choose **Network Configuration** and press **Enter**.
3. Choose **Wireless LAN** and press **Enter**.

note

Make sure you've installed the NS Connection software as described on page 199.

To connect to the projector over a wireless network, your computer must be running Windows 2000, XP, or Vista. Your Mac® must be running Mac OS X 10.3 or later. See page 199 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.

You see this screen:



4. Make sure **Quick** is selected for the **Connection mode**. If not, use the  pointer button on the remote control to highlight **Quick**, then press **Enter** to select it.
5. If your network is using **802.11a**, use the  pointer button on the remote control to highlight **802.11a**, then press **Enter** to select it.
6. If your computer's network card supports an **SSID** (or **ESSID**) name (see page 66), highlight the **SSID** text box, press **Enter**, and enter a name.

note

If you are using a WPS-compatible access point, see page 78 for connection information.

Press the  pointer button to select individual letters; then press **Enter** to input a character. To add a blank space or to navigate backward and forward through the input text, highlight the arrows and press **Enter**. To toggle symbol settings or capital letters, highlight the option and press **Enter**. When you're done, highlight **Finish** and press **Enter**.



Note that the SSID 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).

7. If you want to prevent the SSID from being displayed on the standby screen, set the **SSID Display** option to **Off**.
8. To prevent the IP address from appearing on the standby screen, set the **IP Address Display** setting to **Off**.
9. When you're done making these settings, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

Now you're ready to set up your computer to project wirelessly. Go to "Configuring the Network Settings for Windows" below, or "Setting Up Your Mac for Ad Hoc Mode" on page 66.

Configuring the Network Settings for Windows

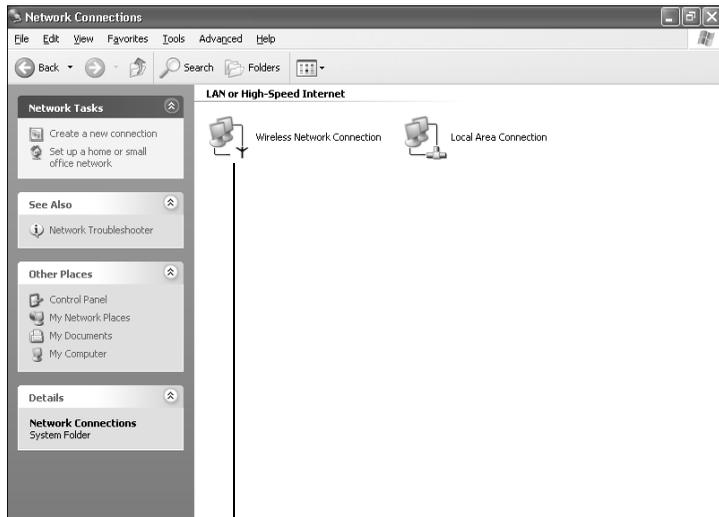
Before connecting to the projector, you need to make sure the settings for your notebook's or PC's network card match the settings you entered for the projector.

note

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

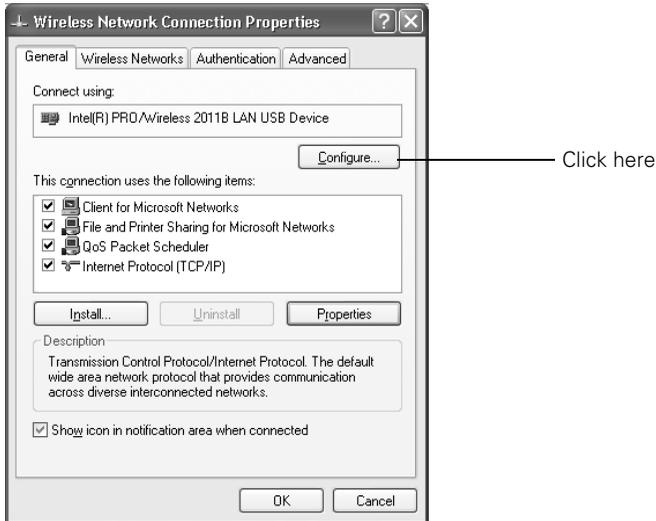
Settings may vary, depending on your wireless network adapter. See the documentation for your adapter for more information.

1. 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:

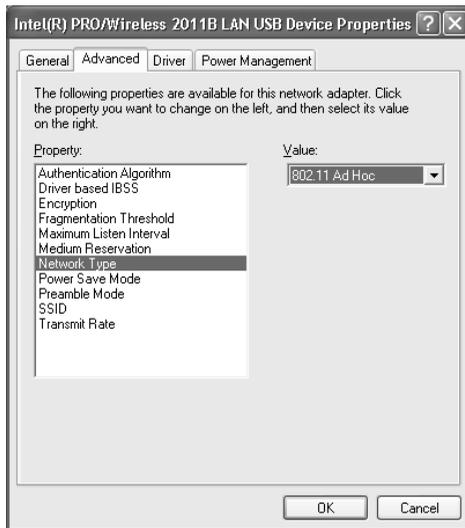


Right-click and select Properties

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:



note

When you connect in Ad Hoc mode, your connection to other wireless networks or devices is broken. If you need to remain connected to your wireless network, use Access Point mode, as described on page 68. Also, make sure you reconnect to your original wireless network when you are done using the projector.

5. Check your wireless card or adapter 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 SSID.
 - 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 Over a Network" on page 89.

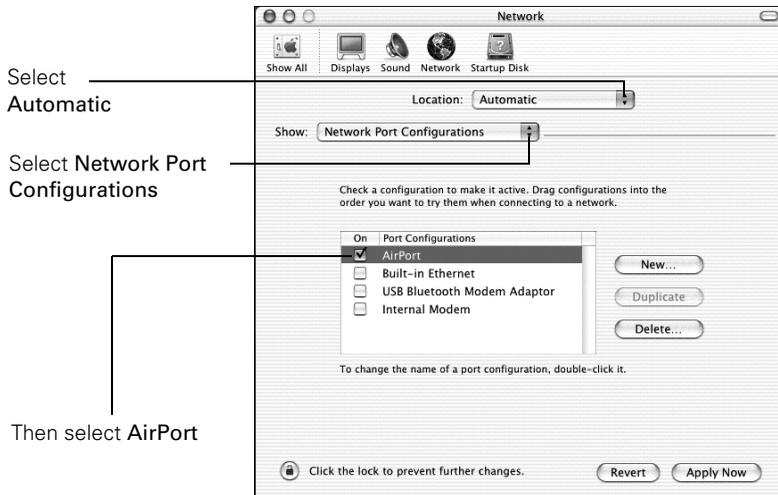
Setting Up Your Mac for Ad Hoc Mode

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

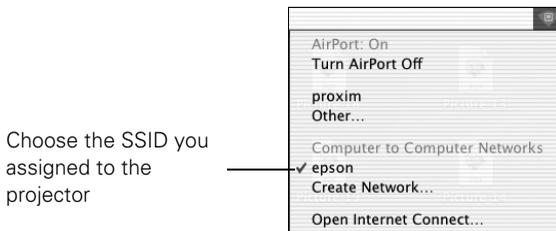
Typically, you only need to select your projector's ESSID from the AirPort status menu on the Mac menu bar. If you're having problems detecting the projector, follow these steps:

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.



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 Mac desktop. You see the AirPort status menu:



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

note

If you don't need the other network port configurations, disable them by deselecting their checkboxes.

When you connect in Ad Hoc mode, your connection to other wireless networks or devices is broken. If you need to remain connected to your wireless network, use Access Point mode, as described on page 68. Also, make sure you reconnect to your original wireless network when you are done using the projector.

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. Press the **Menu** button, then choose **Network** and press **Enter**.
2. Choose **Network Configuration** and press **Enter**.
3. Choose **Wireless LAN** and press **Enter**. You see this screen:



4. Make sure **Advanced** is selected for the **Connection mode**. If not, use the  pointer button on the remote control to highlight **Advanced**, then press **Enter** to select it.
5. If your network is using 802.11a, use the  pointer button on the remote control to highlight **802.11a**, then press **Enter** to select it.
6. To enable your computer to find the projector on the network, you need to enter the SSID name of your access point or AirPort network in the **SSID** text box. (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.)

note

If you are using a WPS-compatible access point, see page 78 for connection information.

Highlight the **SSID** text box, press **Enter**, and enter a name as follows:

Press the  pointer button to select individual letters; then press **Enter** to input a character. To add a blank space or to navigate backward and forward through the input text, highlight the arrows and press **Enter**. To toggle symbol settings or capital letters, highlight the option and press **Enter**. When you're done, highlight **Finish** and press **Enter**.



Note that the SSID 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).

7. If your access point assigns IP addresses automatically, turn on DHCP. Otherwise, turn off DHCP and enter the following information:
 - **IP address:** Enter 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.
8. If you want to prevent the SSID from being displayed on the standby screen, set the **SSID Display** option to **Off**.
9. To prevent the IP address from appearing on the standby screen, set the **IP Address Display** setting to **Off**.
10. When you're done making these settings, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

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 75. 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.*

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 Mac for Access Point Mode" on page 76. If you want to enable security options for your network, see page 84 to set up the option that your network uses on the projector.

Configuring the Network Settings for Windows

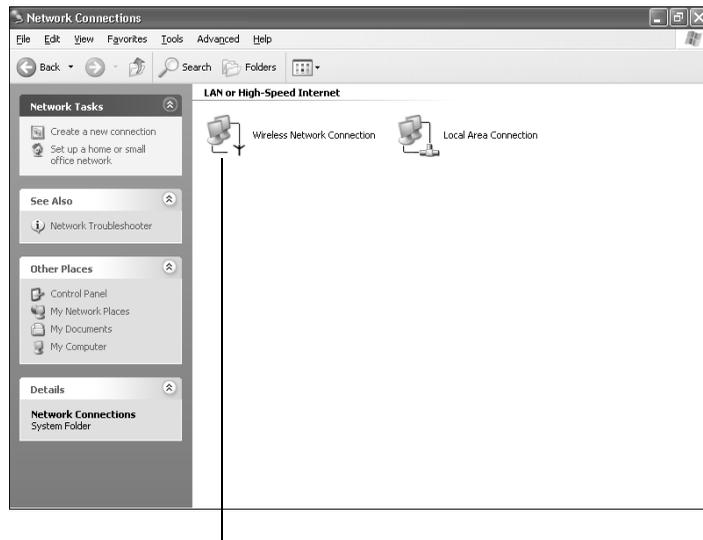
Before connecting to the projector, you need to make sure the settings for your computer's wireless card or adapter match the settings you entered for the projector.

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.

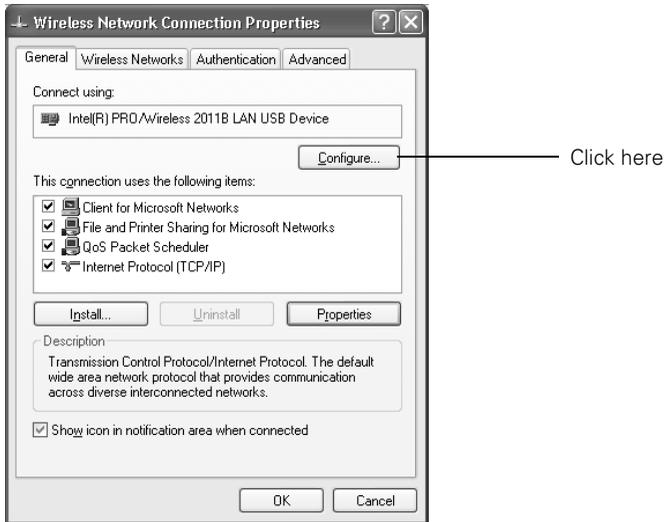
1. Access your wireless network Properties window. For example, in Windows XP you would click **Start > Control Panel > Network and Internet Connections**. Then click the **Network Connections** icon. You see a screen similar to this:



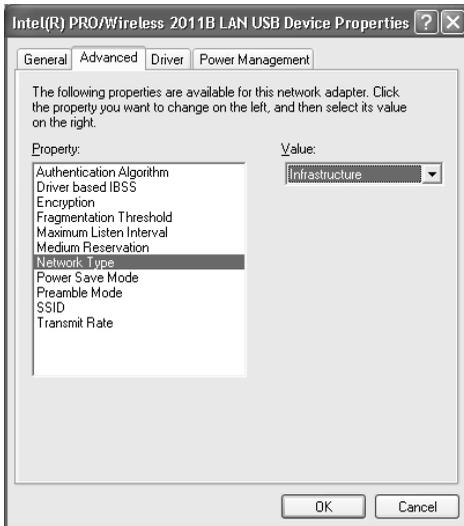
Right-click and select **Properties**

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

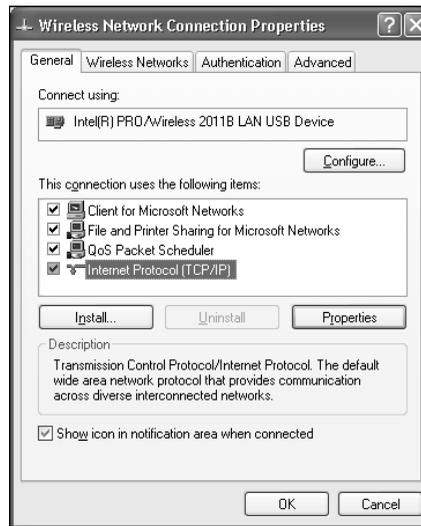
You see a screen similar to this:



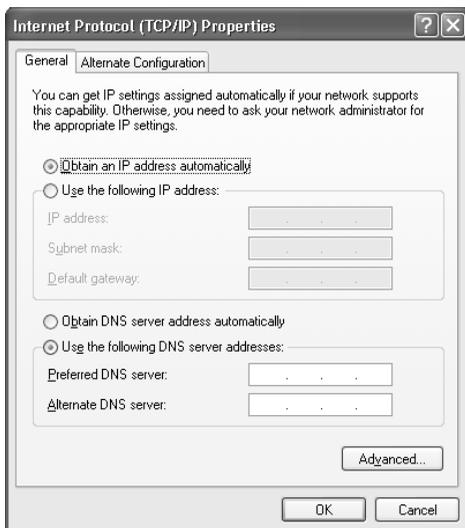
3. Click the **Configure** button.
4. Click the **Advanced** tab. You see a screen like this:



5. 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 match the projector's SSID).
 - 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 **Use the following DNS server addresses**, then 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.
- **Preferred DNS server/Alternate DNS server:** Enter the IP address of the DNS server(s) for your network.

11. When you're done, click OK.

note

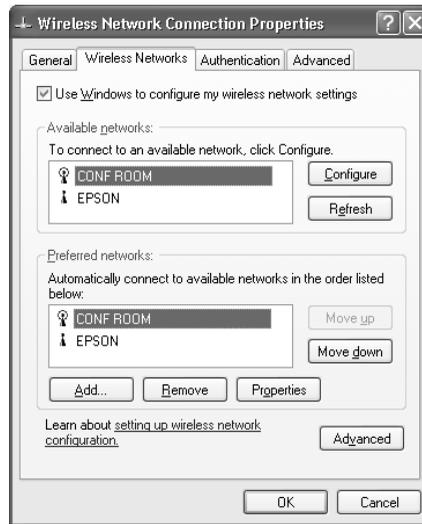
For specific details about your network, please consult your network administrator.

note

If you don't know your gateway or access point address, see page 75.

- 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.)

You see a screen like this:



- Verify that you've enabled your computer's connection to the access point. It should be listed with the small key icon next to it, indicating a connection.

If it's not listed, click **Configure** and type the name of your access point.

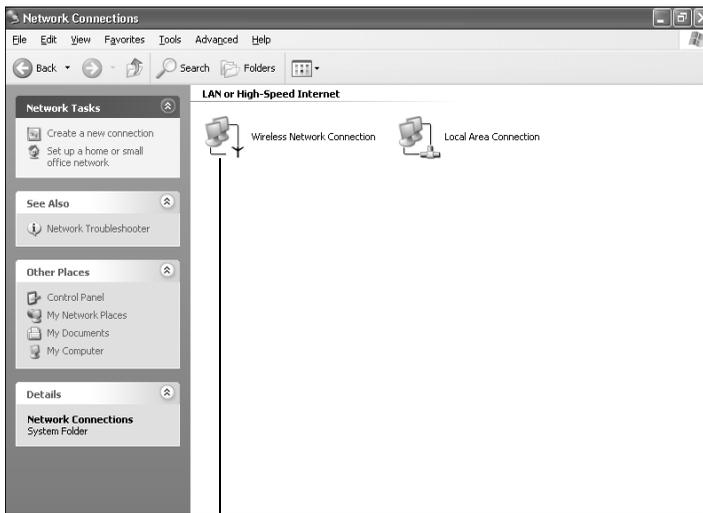
- When you're done making settings, click **OK** to close the dialog box.

Now you're ready to connect to the projector. See "Projecting Over a Network" on page 89.

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:

1. 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:



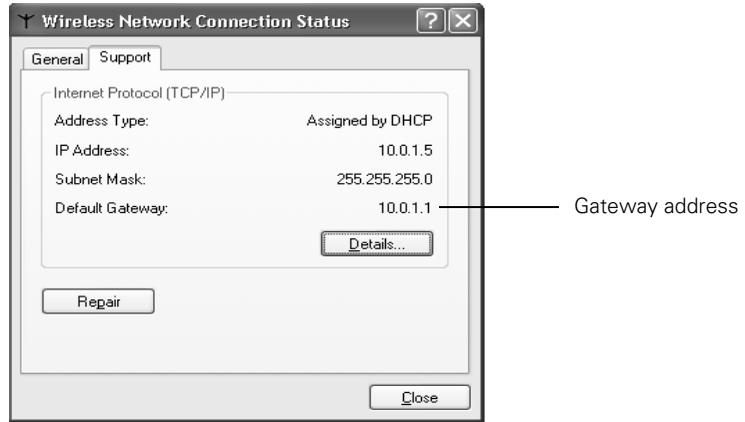
Right-click and select **Status**

2. 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:



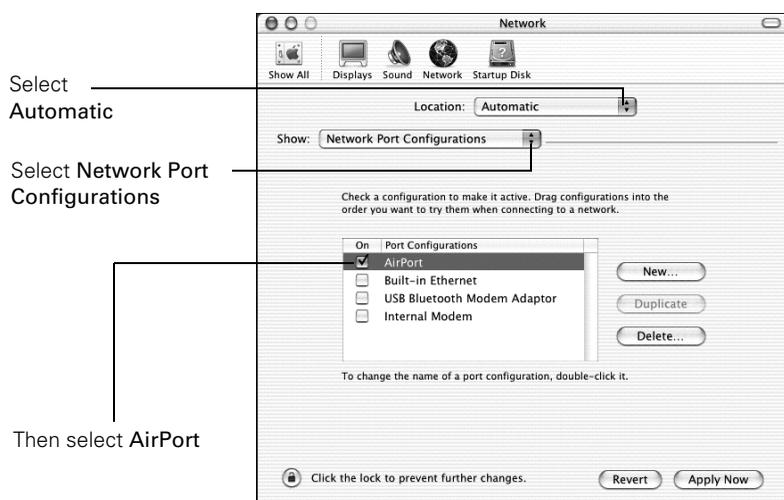
Setting Up Your Mac for Access Point Mode

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

Typically, you only need to select your AirPort network name from the AirPort status menu on the Mac 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 SSID. If not, enter the projector's SSID 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.

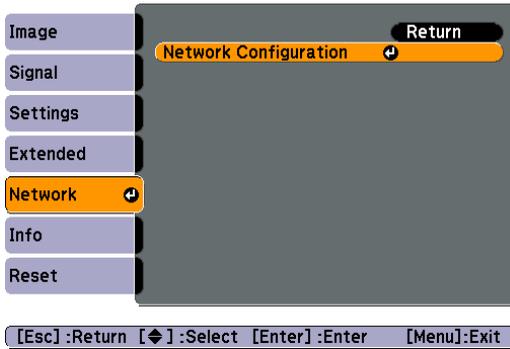
Making a WPS (Wi-Fi Protected Setup) Connection

If you are using a WPS-compatible access point, you can configure the settings for the connection between the projector and the access point from the projector's Configuration menu using one of these methods:

- **Push Button Method**
Press both the **Enter** button on the projector and the button on the access point to make the SSID and security settings. This method is recommended when the projector and access point are close together.
- **PIN Code Method**
With the PIN code method, you enter an 8-digit code from the computer to enable the SSID and security settings. The connection between the computer and the access point must have already been established. (For connection instructions, refer to the manual provided with the access point.) This method lets you make the settings without having to press any buttons on the projector, and is recommended when the projector is mounted on the ceiling.

Follow these steps to open the WPS connection screen:

1. Press the **Menu** button to open the projector menu.
2. Select **Network**, then **Network Configuration**, and press **Enter**.

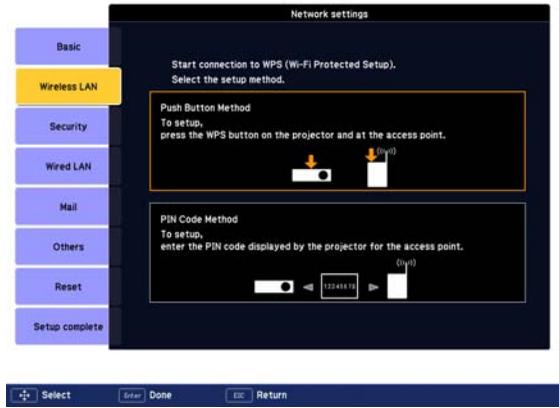


The Network Configuration screen is displayed.

3. Select **Wireless LAN** and press **Enter**.



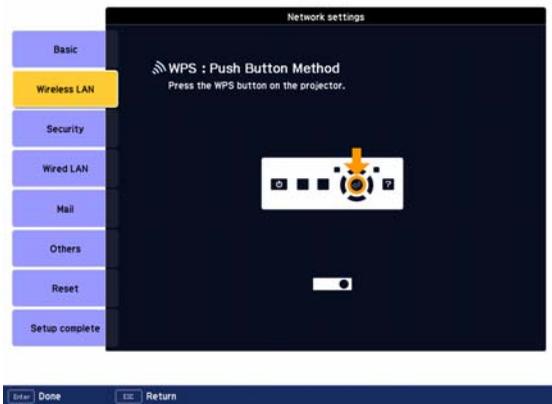
4. Select **To Setup Wizard**, then press **Enter**. You see the WPS (Wi-Fi Protected Setup) connection screen:



5. For the Push Button Method, follow the instructions below. For the PIN Code Method, follow the instructions on page 82.

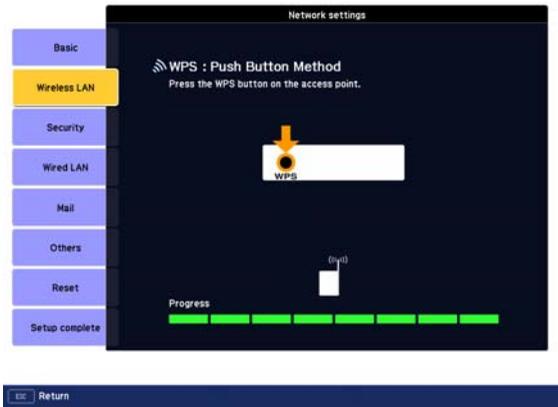
Using the Push Button Method

1. Select **Push Button Method** and press **Enter**. You see this screen:



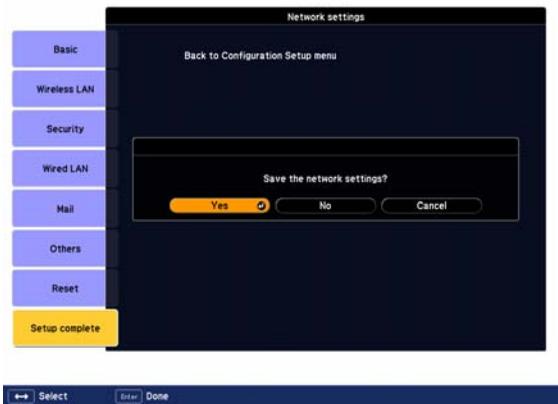
2. Press the **Enter** button on the projector.

- When prompted by the screen, press the WPS button on the access point.



You see a message that WPS setup is complete.

- Press the Enter button or the Esc button to return to the wireless LAN setting page.
- Select Setup Complete and press Enter.



- Make sure Yes is selected and press Enter.
- Press the Menu button to exit.

Using the PIN Code Method

Before you can make a connection using the PIN Code Method, a connection must have already been established between the computer and the access point. For details on how to make this connection, refer to the manual provided with the access point.

1. Follow steps 1 through 4 on page 79 to access the WPS Connection Screen.
2. Select **PIN Code Method** and press **Enter**. You see this screen:



3. From the computer, enter the displayed PIN code for the access point, select **Start Setup** and then press **Enter**.
You see a progress meter on the screen.

- When you see a message that WPS Setup is complete, press the **Enter** or **Esc** button.



- When you see the wireless LAN setting page, select **Setup Complete** and press **Enter**. You see this screen:



- Select **Yes** and press **Enter** to save the settings.
- Press the **Menu** button and then close the configuration menu to exit.

Using Wireless Security Options

You can use the following security options when connecting to the projector wirelessly: WEP encryption, WPA security, EAP-TLS certificate validation, or LEAP, EAP, or PEAP authentication. To set these security features 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:

- “Enabling WEP Encryption” below
- “Enabling WPA Security” on page 86
- “Enabling EAP, LEAP, or PEAP Authentication” on page 87
- “Enabling EAP-TLS Certificate Validation” on page 88

Enabling WEP Encryption

1. Press **Menu** on the remote control, then highlight **Network** and press **Enter**.
2. Choose **Network Configuration** and press **Enter**.
3. Highlight **Security** and press **Enter**. Then press **Enter** again to display the security options:



4. Highlight **WEP** and press **Enter**.

5. For the WEP encryption setting, highlight 128Bit or 64Bit and press **Enter**.
6. For Format, highlight **ASCII** to enable text input or **HEX** to enable hexadecimal input. Then press **Enter**.
7. If you chose **64Bit**, choose Key ID 1, 2, 3, or 4.

Highlight the **Encryption key** text box that corresponds to the Key ID you selected, then press **Enter**. Press the  pointer button to select individual letters; then press **Enter** to input a character. To add a blank space or to navigate backward and forward through the input text, highlight the arrows and press **Enter**. To toggle symbol settings or capital letters, highlight the option and press **Enter**. When you're done, highlight **Finish** and press **Enter**.



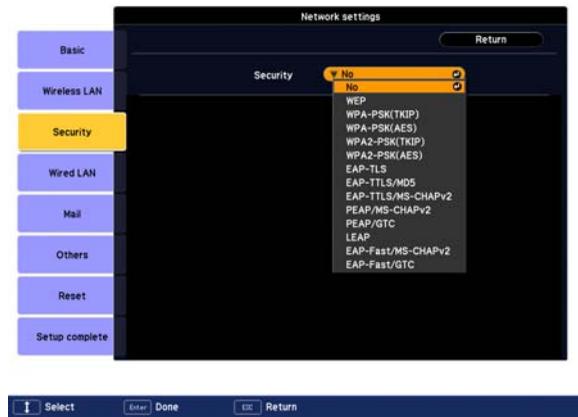
8. Check with your network administrator for directions on entering a key for your network, and follow these general guidelines:
 - For 128 bit WEP encryption with hexadecimal input, enter 26 characters, from 0 to 9 and from A to F.
 - For 64 bit WEP encryption with hexadecimal input, enter 10 characters, 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.
9. When you're done making these settings, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

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.

Enabling WPA Security

1. Press **Menu**. Highlight **Network** and then press **Enter**.
2. Choose **Network Configuration** and press **Enter**.
3. Highlight **Security** and press **Enter**. Then press **Enter** again to display the security options:



4. Choose **WPA-PSK(TKIP)**, **WPA-PSK(AES)**, **WPA2-PSK(TKIP)**, or **WPA2-PSK(AES)** and press **Enter**.

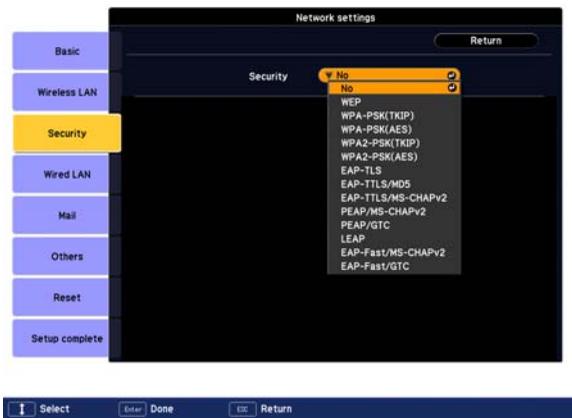
Highlight the **PSK** (pre-shared key) text box and press **Enter**. Press the  pointer button to select individual letters; then press **Enter** to input a character. To add a blank space or to navigate backward and forward through the input text, highlight the arrows and press **Enter**. To toggle symbol settings or capital letters, highlight the option and press **Enter**. When you're done, highlight **Finish** and press **Enter**.



5. When you're done making these settings, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

Enabling EAP, LEAP, or PEAP Authentication

1. Press Menu. Highlight Network and then press Enter.
2. Choose Network Configuration and press Enter.
3. Highlight Security and press Enter. Then press Enter again to display the security options:



4. Choose EAP-TTLS/MD5, EAP-TTLS/MS-CHAPv2, PEAP/MS-CHAPv2, PEAP/GTC, LEAP, EAP-Fast/MS-CHAPv2, or EAP-FAST/GTC. Then press Enter.
5. Enter the user name and password that match the settings on your authentication server.

Highlight the User name text box and press Enter. Press the  pointer button to select individual letters; then press Enter to input a character. To add a blank space or to navigate backward and forward through the input text, highlight the arrows and press Enter. To toggle symbol settings or capital letters, highlight the option and press Enter. When you're done, highlight Finish and press Enter.



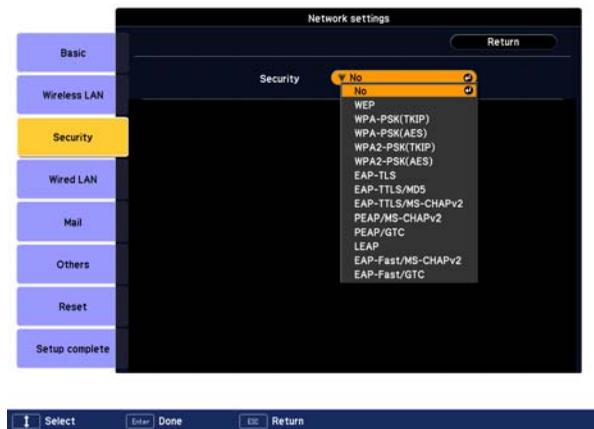
Highlight the **Password** text box and press **Enter**. Enter the password as you entered the User name.

- When you're done making these settings, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

Enabling EAP-TLS Certificate Validation

Once you have created an EAP-TLS certificate, follow the steps below to enable it. (Contact your Network Administrator for more information on obtaining or creating the certificate.)

- Press **Menu**. Highlight **Network** and then press **Enter**.
- Choose **Network Configuration** and press **Enter**.
- Highlight **Security** and press **Enter**. Then press **Enter** again to display the security options:



- Choose **EAP-TLS** and press **Enter**. The certificate information appears on the screen.
- When you're done, select **Return**, **Setup complete**, and then **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

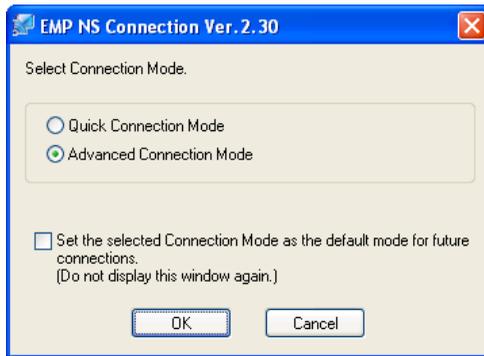
Projecting Over a Network

Once you've started EasyMP and set up your projector and computer in either Ad Hoc (Quick) mode or Access Point (Advanced) mode, or in the optional wired LAN mode, as described on page 154, follow these steps to start NS Connection and project wirelessly over the network:

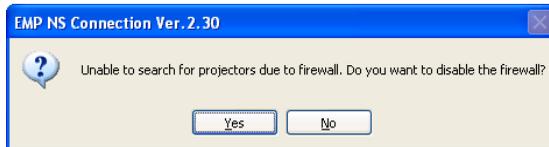
1. Make sure you've set up your projector (see page 58).
2. **Windows:** Select Start > Programs or All Programs > EPSON Projector > EMP NS Connection.

Macintosh: Double-click the EMP NS Connection icon in your Applications folder.

3. The first time you start NS Connection, you see this dialog box. Choose a connection mode and click OK.



4. If you see a message asking you to disable the firewall, click Yes to make an exception for the projector and allow projection.



In Windows Vista, click Continue when the User Account Control screen appears.

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.

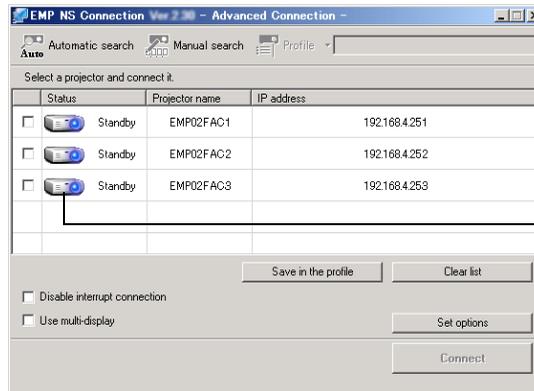
You see the screen below. (If you have previously started NS Connection, this may be the first screen you see.)

note

If a projector is in use and is “locked,” you won’t be able to select it.

*To lock the projector from connection by other users while you are connected, click the **Disable interrupt connection** checkbox. De-select it to disable the lock and allow connection by other users.*

If Microsoft PowerPoint is already running when you start the projection and you see a message that says you need to restart PowerPoint, close and reopen PowerPoint after starting NS Connection.



Select projector

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.

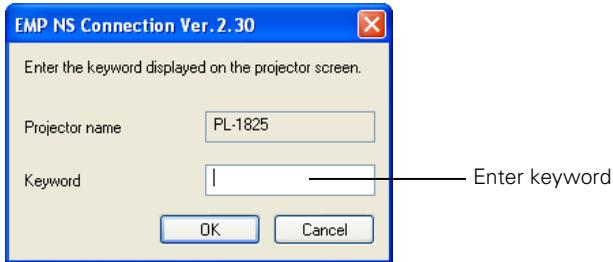
The status is indicated next to each projector’s name.

5. 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 (up to four) 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.

If you don’t see the projector, follow the suggestions on page 92.

6. 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**.

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



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

Solving Connection Problems

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

1. Make sure your wireless signal is strong enough to establish a connection. If you have a Mac, check the AirPort icon on the Mac menu bar. For Windows, see the documentation for your access point or wireless network card or adapter.
2. 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 SSID (or ESSID). On a Macintosh, check the AirPort status menu (click the AirPort icon on your menu bar) to make sure AirPort is turned on and the projector's SSID or your AirPort network is selected.
3. 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.
4. Make sure the SSID 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 SSID matches the AirPort network name. Remember that the SSID is case-sensitive.
5. 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.
6. Restart your computer and start NS Connection again.
7. If you still don't see your projector, follow the instructions in "Connecting in Advanced Connection Mode" on page 94 to connect to the projector.

note

If none of these suggestions work, see the troubleshooting information beginning on page 191.

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.

Using the Control Bar

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

	Displays the Select target projector dialog box.
	Stops projection of computer images while connecting to the projector.
	The projector projects the computer image.
	Pauses projection of computer images. Click again to restart projection.
	Starts Presentation Mode for the selected projector. In Presentation Mode, only your slideshow images are projected. See page 103.
	Displays the Projector Control screen, which allows you to enable A/V Mute, switch the PC source, or switch the video source.
	Allows you to set up Multi-screen display and see a preview of how the images will appear on each screen. See page 98.
	Displays the Projector Settings dialog box.
	Starts Movie Sending Mode for projecting MPEG2 and WMV videos from your computer. See page 102.
	Disconnects the connection to the projector.
	Changes which buttons are displayed on the control bar.

Clicking one of the buttons on the control bar may cause a submenu to appear above the control bar.

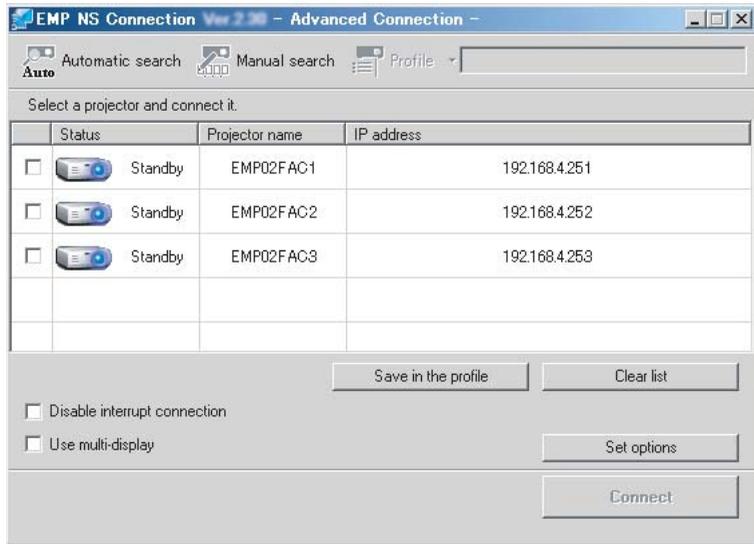
When you're done, click the arrow in the upper right corner to close the submenu.

note

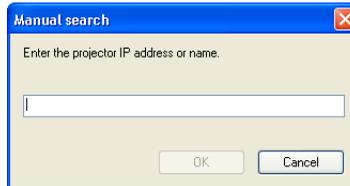
Movie Sending Mode does not work with DVD movies.

Connecting in Advanced Connection Mode

1. Click Manual search on the NS Connection screen.



2. Enter the IP address or the projector name for the projector you want to connect to, and click OK.



The Projector is added to the EMP NS Connection screen.

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 58) to check the projector's IP address, then repeat this step.

3. 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.

4. 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 91 for details about using the floating control bar on your computer desktop.

Enabling Network Security

The projector includes the following network security options which you can enable for network projection:

- **Data encryption**
Encode and transmit data. Even if data is intercepted, it cannot be deciphered. See page 96 to enable encryption.
- **Connection limitation (Authentication)**
A user's name and a password are registered in advance, which means that only the registered wireless port can connect to the network and prevents unauthorized third parties from connecting to the network.
- **Firewall**
Prevents unauthorized computer access by closing ports that are not used. The security functions that can be used with this projector vary depending on the connection mode of the wireless LAN. Use the firewall function provided with your OS.

The security functions that can be used with this projector vary depending on the connection mode:

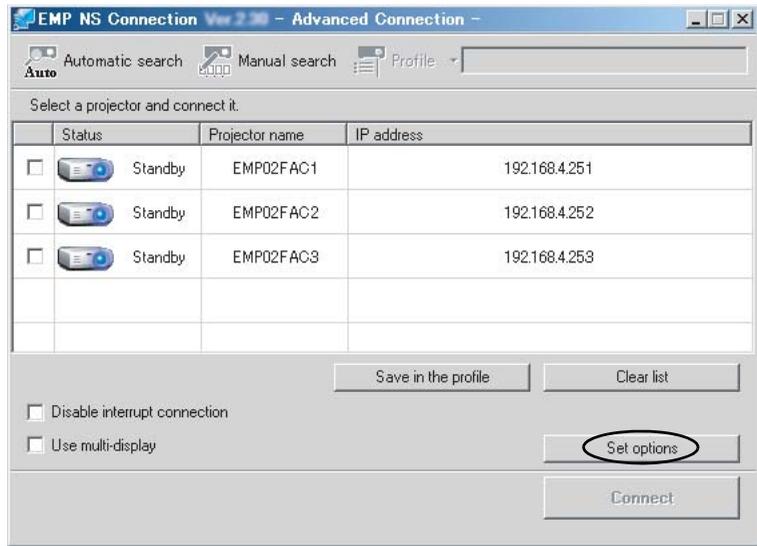
- **Quick Connection Mode**
Encrypted communication
- **Advanced Connection Mode**
Encrypted communication, WEP, WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES), EAP-TLS, EAP-TTLS/MD5, EAP-TTLS/MS-CHAPv2, PEAP/MS-CHAPv2, PEAP/GTC, LEAP, EAP-FAST/MS-CHAPv2, EAP-FAST/GTC

note

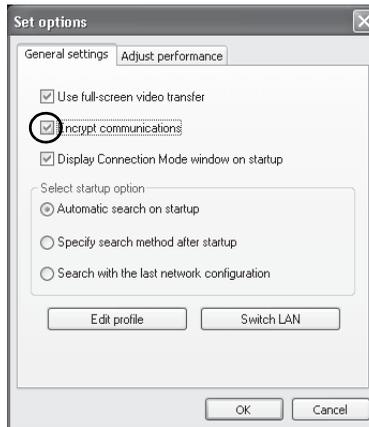
The authentication and firewall features are only effective when the access point for the connection destination supports the same functions.

Enabling Data Encryption

1. Click **Set options** on the main screen.



2. Click the **General Settings** tab and select the **Encrypt communications** checkbox.



3. Click **OK**.

Enabling Network Security Options

You need to enable network security including WEP, WPA, EAP, LEAP, or PEAP, or firewall settings on your network and on the projector (see page 84). For network setting details, follow the directions from your network administrator.

If using EAP, you need to make settings at the projector that match the authentication server settings. Check with your network administrator for details on RADIUS settings.

Multi-screen Projection

note

For a Mac, you have to connect a monitor to the computer and use the multi-screen display function. For Windows, even if a monitor is not connected, you can set a virtual display by installing the virtual display driver in EMP NS Connection. See page 201.

For Windows, when the real monitor is connected as a secondary monitor, the image for that screen cannot be projected.

You can adjust each projector's color to match the images as closely as possible. See page 151.

When using Multi-screen display, you can set each projector to display a section of the screen or image, to create a single image spanning a large area. Make sure the projectors are at least 3.6 feet (1.1 meters) apart to avoid overheating.

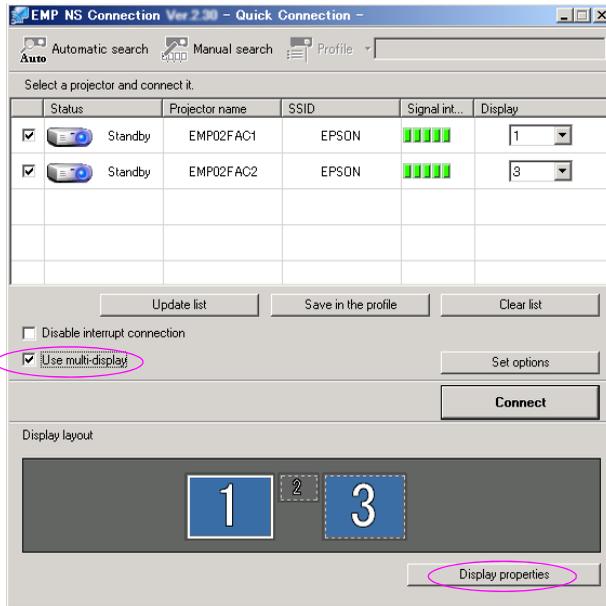
Multi-screen projection is not supported in Windows Vista.

Here are some examples:

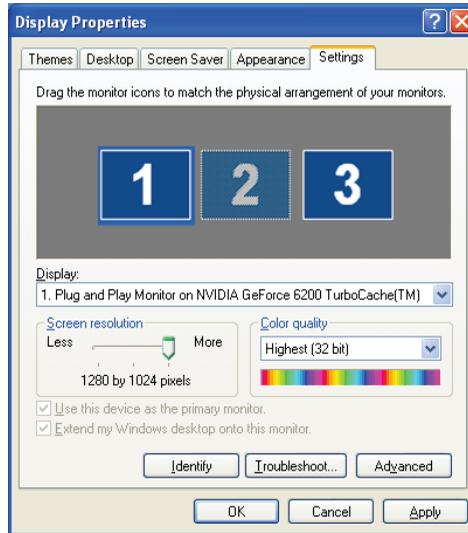


To set up multi-screen display in NS Connection, follow these steps:

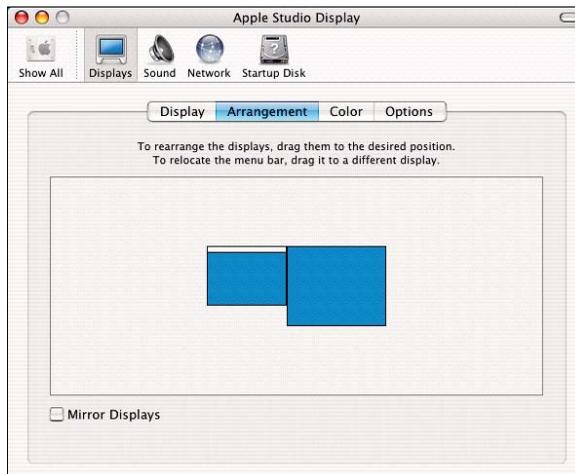
1. Select the **Use multi-display** checkbox, then click **Display properties** (Windows) or **Display preferences** (Macintosh).



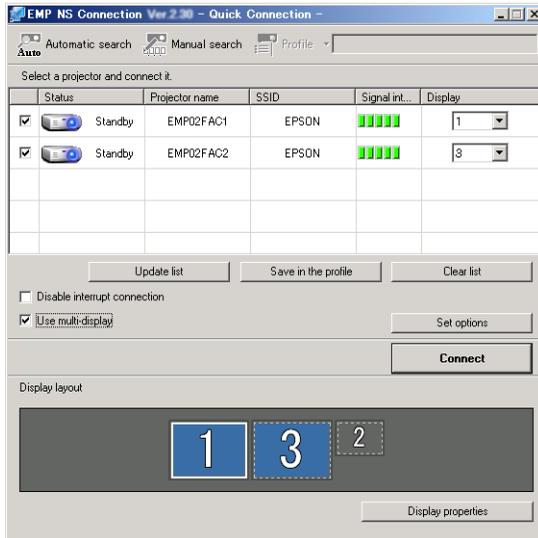
2. **Windows:** On the Settings tab, drag the monitor icons to arrange the positions of the displays.



Macintosh: Click the Arrangement button, then de-select the Mirror Displays checkbox. Drag the displayed monitor icon and place it where desired.



3. Close the Display Preferences (Windows) or System Preferences (Macintosh) window, when you are done arranging the display numbers.
4. To allocate projectors to each display, choose a number from the menu under Display.



5. Click the **Connect** button when you are ready to project the image.
6. You can use the  Screen Preview button on the NS Connection toolbar to check the image on each screen.

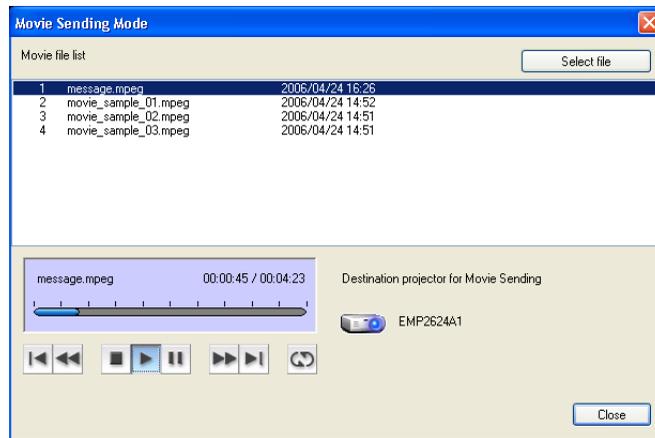
note

Only MPEG1-Layer2 audio is supported. The maximum supported MPEG2 video resolution is 720 × 480 NTSC or 720 × 756 PAL (without audio).

Projecting Video Clips

You can project full-screen MPEG2 and WMV video clips with audio in real time (30 frames per second). For best performance, advanced wireless mode, 802.11g, or 802.11a are recommended.

1. Click the  Movie Sending Mode button on the NS Connection toolbar.
2. If you are connected to more than one projector, select the one you want to use for the video.
3. Click the **Select file** button. Locate the video you want to project and click **Open**.



note

The video will be projected on the screen, but will not appear on the host computer.

4. Use the standard playback buttons on the screen to start, pause, rewind, and control other video functions.
5. When you're finished projecting video, click the **Close** button on the screen.

Using Special Presentation Modes

Your projector provides several features that allow you to show presentation slides to your audience and hide other activity on your laptop. Both work with PowerPoint in Windows and Keynote® on Macintosh.

- Presentation Mode displays only slides to your audience and hides other activity on your computer.
- Presenter View lets you see your notes and slideshow controls while projecting your slides.

Using Presentation Mode

In Presentation Mode, the projector shows a black screen (or an image of your choice) while you search for files or perform other activities on your laptop. When you start a PowerPoint (Windows) or Keynote (Mac) slideshow, the projector shows your slides.

1. Click the  Presentation Mode button on the NS Connection toolbar. The projector displays a black screen with the Epson logo.
2. Open your presentation in PowerPoint or Keynote.
3. In PowerPoint, open the Slide Show pull-down menu and select **Set Up Show**. Set the Multiple monitors box to **Display slide show on Monitor 2**. Then click OK.
4. In Keynote, select **Preferences**. Set the Presentation Mode to **Present on secondary display**.
5. Start your slideshow. The projector displays your slides. When you finish your slideshow, the projector again displays a black screen.
6. When you want to exit Presentation Mode, click the  Presentation Mode button on the NS Connection toolbar.

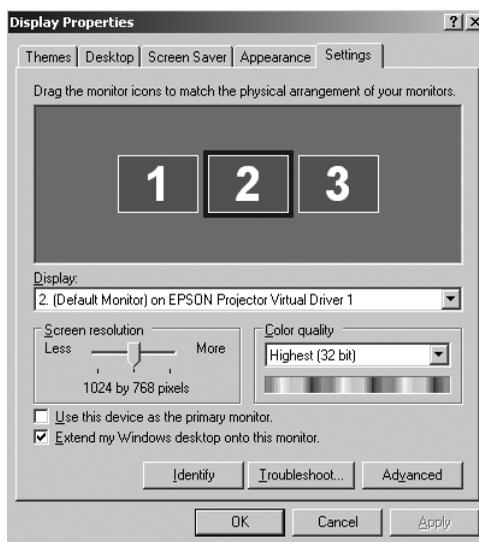
note

If you want to display an image or logo instead of a black screen, you can replace the image.jpg file in the EMP NS Connection V2.30 \Image folder. In windows, this is located in C:\Program Files\Epson Projector\EMP NS Connection V2.30\image. On a Mac, it is located in \Applications\EMP NS Connection V2.30\Image. Disconnect and then reconnect to the projector after you replace the image.

Using Presenter View

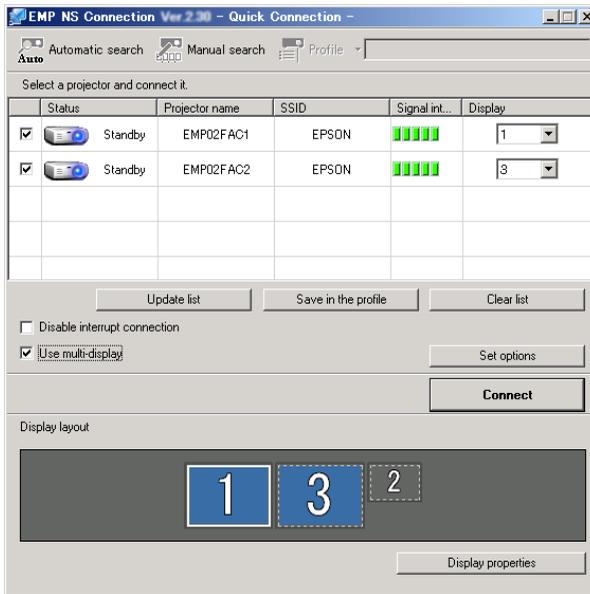
Presenter View allows you to see your PowerPoint notes and controls on your laptop while projecting only the presentation slides to your audience. Follow these steps to set up and use Presenter View:

1. Make sure you have at least one EPSON Virtual Display enabled.
If you did not enable Virtual Displays when you installed NS Connection, select **EPSON Projector** from **Start > Programs** or **All Programs**. Select **Add-Remove EPSON Virtual Display**, then check **EPSON Virtual Display 1**. If you see a message that the driver has not passed Windows Logo testing, click **Continue Anyway**. Then restart your computer.
2. Launch NS Connection as described on page 89.
3. Click **Use multi-display**, then click **Display properties**.
4. On the Display Properties screen in Windows, make sure your Epson Projector Virtual Display Driver is selected, then check **Extend my Windows desktop onto this monitor** and click **OK**.



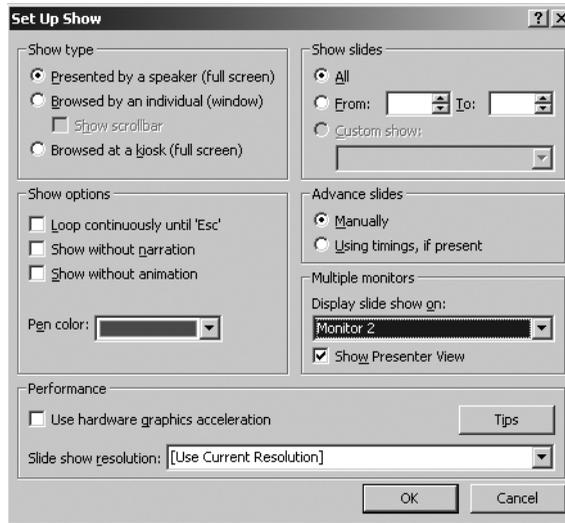
In the Mac Displays program, select the **Arrangement** tab and uncheck the **Mirror Displays** setting to deselect it.

5. Set your projector to Display 2 (or the Virtual Display Driver you selected in step 4) in NS Connection, then click **Connect**.



6. Open your presentation in PowerPoint or Keynote.
7. In Keynote, select **Preferences**.

In PowerPoint, open the Slide Show pull-down menu and select **Set Up Show**.



8. In Keynote, set the Presentation Mode to **Present on secondary display**.

In PowerPoint, set the Multiple monitors box to **Display slide show on Monitor 2** (or the monitor associated with your Epson Virtual Display) and check **Show Presenter View**. Then click **OK**.

9. Start your slideshow.

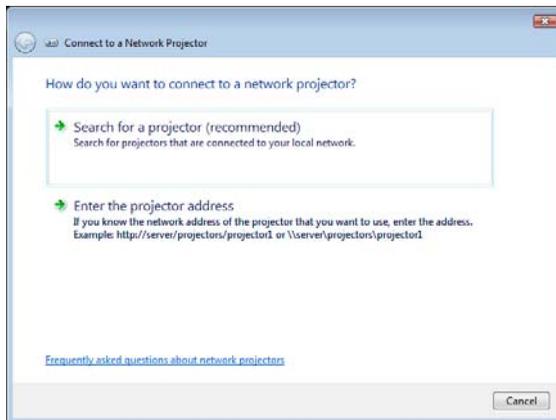
The projector displays the slides, and your laptop displays your notes and controls.

Connecting With Windows Vista

If you have Windows Vista, you can use the Network Projector function to connect to the projector without installing the EasyMP software. This provides a quick, easy way to connect wirelessly, though with limited capabilities. Not all the features available with EMP NS Connection are possible when connecting using the Vista network projector function. All performances are enhanced when you use EMP NS Connection.

Follow these steps:

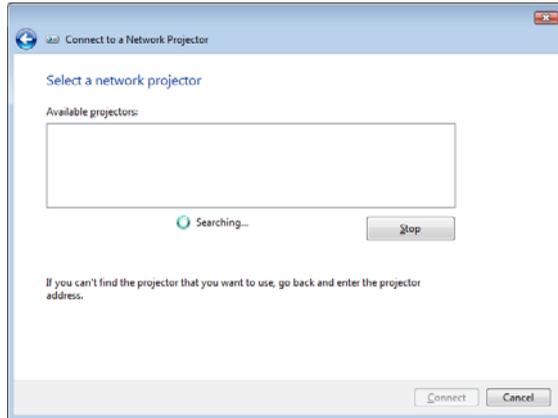
1. Turn on the projector.
2. Press the **EasyMP** button on the remote control. The standby screen appears.
3. From the Start menu on your computer, select **All Programs**, **Accessories**, then **Connect to a Network Projector**. You see this screen:



note

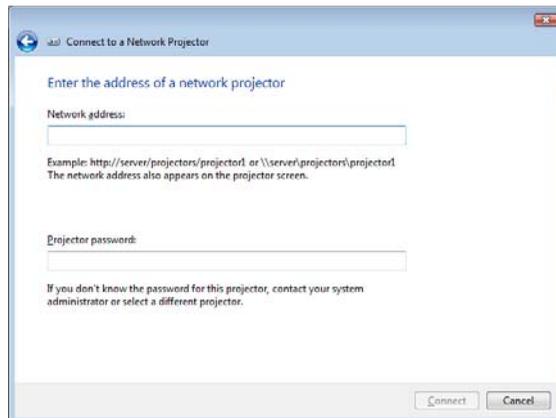
Use only the Epson 802.11a/b/g wireless module in the projector. If you see a message asking you to insert a LAN or memory card, check to make sure your 802.11 a/b/g module is properly inserted (see page 54).

4. You can select the projector automatically or manually:
- To let your computer search automatically for the projector, select **Search for a projector**. You see this screen:



After locating the connected projectors, your computer lists them on the screen. Select the one you want and then click **Connect**.

- To locate the projector by IP address, select **Enter the projector address**. You see this screen:



Enter the IP address for the projector in the format shown. Enter a password for the projector if one has been set. Then click **Connect**.

5. If you need to pause your presentation, press the **Pause** button. Click **Resume** when you are ready to continue.
6. When you want to disconnect from the projector, click the **Disconnect** button.

Vista Network Projector Limitations

When you connect wirelessly to the projector using Windows Vista, be aware of the following limitations:

- You can connect to only one projector at a time.
- You cannot connect the projector to a PC with a video output resolution in excess of 1024 × 768 (XGA).
- You cannot project a Windows Photo Gallery slideshow in full-screen mode.
- When using the optional network projector feature of the Meeting Space function, set the display color quality on your PC to Highest (32-bit).
- Network presentation via wireless ad-hoc is not supported.

5

Presenting From a USB Drive, Camera, or CompactFlash Card

The projector's EasyMP PC Free feature lets you give presentations from a USB flash drive, digital camera, USB multiscard reader, or CompactFlash card. You can play movies, display graphics, or play a *scenario*, a format that lets you create your own slideshow using PowerPoint files, image files, and MPEG videos.

When a CompactFlash card is inserted and the projector is on a network, you can also transfer files to the card over the network. See page 53 for instructions.

note

Also make sure you've installed the EMP SlideMaker software (available for Windows only), as described on page 201.

This chapter covers the following:

- Presenting files from a USB drive or CompactFlash card
- Presenting image files from a digital camera
- Creating a slideshow on the fly
- Creating a scenario
- Transferring your scenario to a USB drive
- Presenting scenarios
- Supported file formats

Presenting Files From a USB Drive or CompactFlash Card

This section explains how to project individual image or movie files from a USB hard drive, flash memory drive, or CompactFlash card using EasyMP. See page 133 for a list of the supported file formats.

Follow these steps to display images or play movies:

1. Connect your external drive or insert your CompactFlash memory card into the projector (see page 52 or 53).
If you are using an external hard drive, plug in its power cord.
2. Turn on the projector, if it is not already on.
3. Select EasyMP as the source by pressing the EasyMP button on the remote control.

If you have more than one card inserted in a multcard reader, use the  pointer button on the remote control to select the card you want to use and press **Enter**.

You see your folders and files displayed on the screen:



4. To open a folder, use the  pointer button on the remote control to select the folder and press **Enter**. (Or press **Esc** and select **Open Folder** from the pop-up menu.)

5. Position the cursor on the movie or image file you want to project and press **Enter**. (Or press **Esc** and then select **View Image** or **Play Movie**.)

If you selected an image, it is projected on the screen. If you want, you can press the  pointer button up or down to rotate the image while you're viewing it.

If you selected a movie, it begins playing. You can use the  pointer button to control playback, as indicated on the bottom of the screen.

6. To stop viewing an image or movie, press **Esc**. Then select **Exit** at the top of the screen and press **Enter**.

See page 114 for instructions on playing a slideshow.

Presenting Image Files From a Digital Camera

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

Follow these steps:

1. Connect your digital camera (see page 52).
2. Turn on your digital camera.
3. Turn on the projector, if it is not already on.
4. 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 PC Free screen.
5. Use the  pointer button on the remote control to position the cursor on the folder and press **Enter** (or press **Esc** and select **Open Folder** from the pop-up menu).

When the folder opens, you see another folder with your manufacturer's name.

note

If you exit the PC Free mode on the projector, disconnect and re-connect your USB device before starting again.

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 45 or 46 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.

6. Select the folder and press **Enter** (or press **Esc** and select **Open Folder**). You see your image files when the folder opens.
7. Position the cursor on the file you want to project and press **Enter** (or press **Esc** and select **View Image**).

While the image is projected on the screen, you can:

- Press the  pointer button right to display the next image.
 - Press the  pointer button left to display the previous image.
 - Press the  pointer button up or down to rotate the image.
 - Press **Enter** to start a slideshow.
 - Press **Esc** to return to the folder screen.
8. To stop viewing images, select **Exit** at the top of the screen and press **Enter**.

Creating a Slideshow

If you have a folder containing an assortment of images, you can display them as a slideshow. See page 133 for a list of the supported file formats.

Displaying the Slideshow

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

1. Connect your external drive (see page 52) or insert your CompactFlash memory card (see page 53).
If you are using an external hard drive, plug in its power cord.
2. Turn on the projector, if it is not already on.
3. Select EasyMP as the source by pressing the **EasyMP** button on the remote control.

If you have more than one card inserted in a multcard reader, use the  pointer button on the remote control to select the card you want to use and press **Enter**.

You see your files displayed on the screen:



4. Use the  pointer button to highlight the folder containing your images. Then press **Esc** and select **Play Slideshow** from the pop-up menu, or highlight the **Slideshow** button at the bottom of the screen 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:

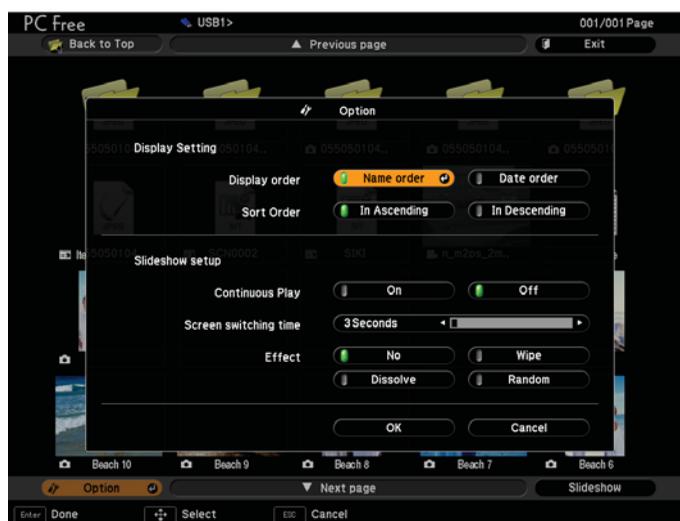
- Press **Enter** or  **Page down** to display the next slide or image, or to begin playing a movie. You can also press right on the  pointer button.
- Press  **Page up** to display the previous slide or image, or to replay a movie. You can also press left on the  pointer button.
- Press the  pointer button up or down to rotate a slide or image on the screen.
- To exit the slideshow at any point, press the **Esc** button. Select **Exit** and press the **Enter** button.

Changing Timing and Other Settings

For each folder on the USB drive or 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 **Option** 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.
 - **Display order**
Lets you choose between displaying alphabetically by file name or by image file date.
 - **Sort Order**
Determines the order in which the images are shown (from first to last (**Ascending**) or last to first (**Descending**)).
 - **Continuous Play**
Determines whether to repeat the display of images in the folder.

note

You can also display the **Option** screen by selecting **Option** at the bottom of the **PC Free** screen and pressing **Enter**.

- **Screen switching time**
Sets the display time for each image. Choose **No** if you want to change slides manually.
 - **Effect**
Lets you choose from various transitions between slides, such as Dissolve or Wipe.
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 disconnect the drive or camera.

Creating a Scenario

A scenario is a combination of images, movies, and/or audio files that you can present from a USB drive. 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 drive. 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 119).

note

To create a scenario, you need a USB drive connected to your computer. Also make sure you've installed the EMP SlideMaker software (available for Windows only), as described on page 199.

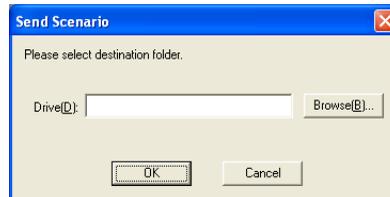
Converting a PowerPoint File to a Scenario

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 123.

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. When you see a message about file conversion, click **Continue**.
5. When you see the next message, click **Start**.

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.

6. When the scenario is done, click on the screen. The slideshow closes and you see the following message:



7. Connect a USB device and browse to the drive, then click **OK** to transfer your scenario file.

When the transfer is complete, you see a question asking whether you want to autorun the scenario. See page 128 for instructions on the autorun setting.

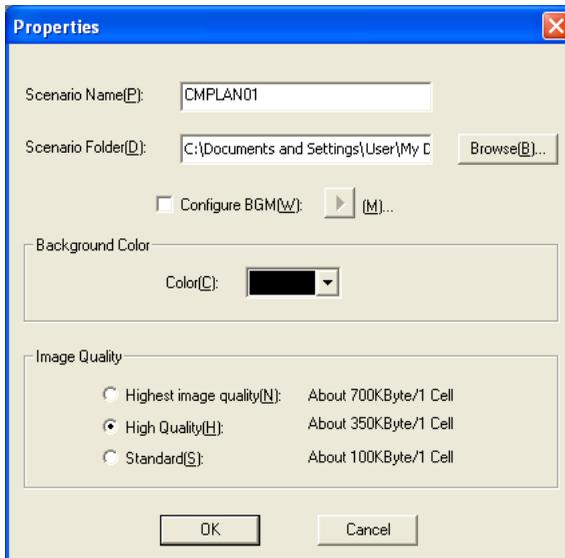
Creating a Scenario from Scratch

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 with the Properties window open as shown:



note

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

2. 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.
3. Click **OK**. You see the EMP SlideMaker 2 screen.

Continue with the instructions in the next section to build your 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, MP4, WMV or ASF extensions); MPG files must be MPEG2 or MPEG4 (MPEG1 is not supported)

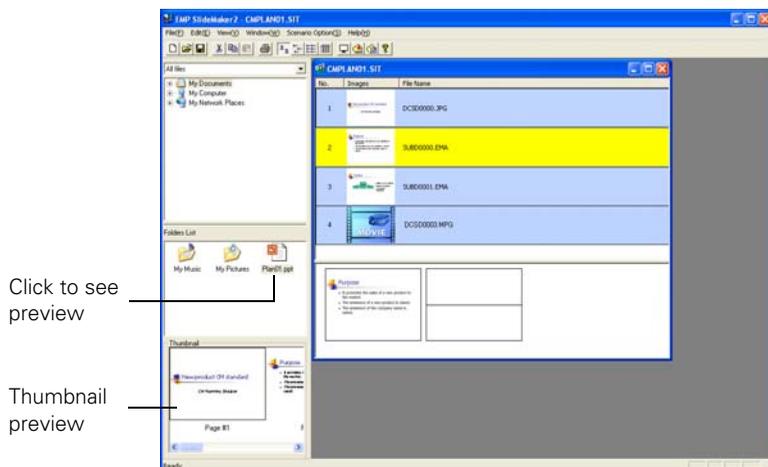
note

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

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.

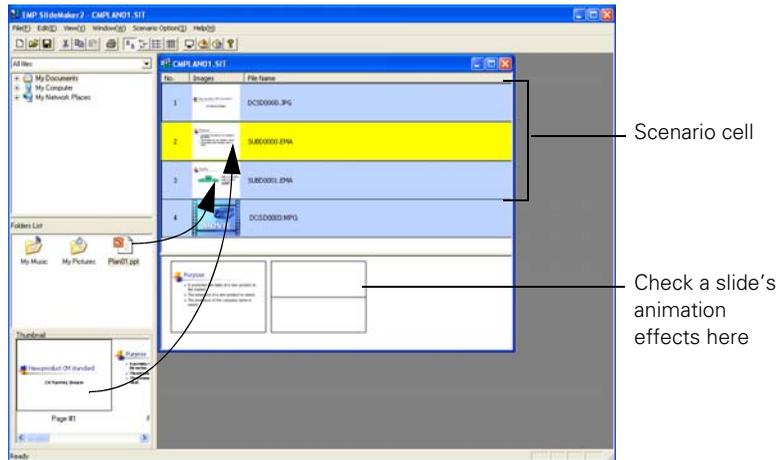


2. Click the icon for each file that you want to preview. The preview appears in the thumbnail preview window. If you click a PowerPoint icon, thumbnail images are generated for all the slides in the PowerPoint file. If you click a movie file, an illustration of a filmstrip appears.

note

Thumbnail previews for PowerPoint slides will not appear if PowerPoint is not installed on your computer.

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.)



note

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

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

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

- When you're done, click the **Save** button or choose **Save** from the File menu. Then see page 128 to transfer the scenario to your USB drive or CompactFlash card.

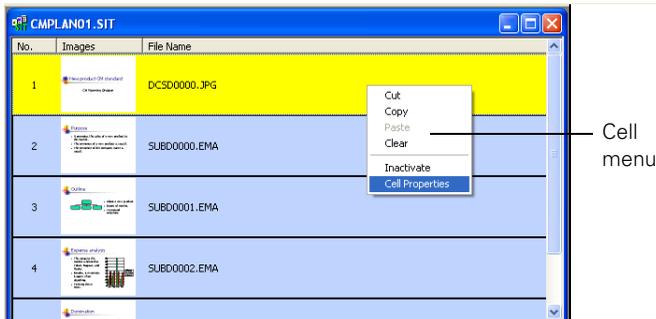
Setting Up Transitions

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.

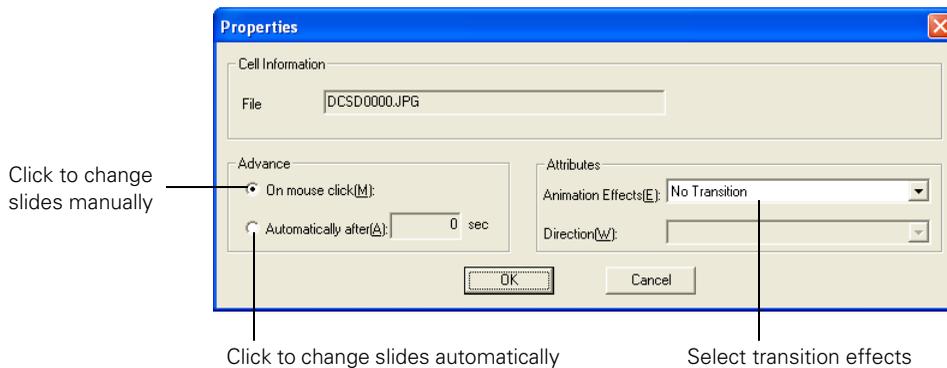
- Click the cell or cells you want to set up in the scenario window.

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.

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



- 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.
5. 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.

note

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

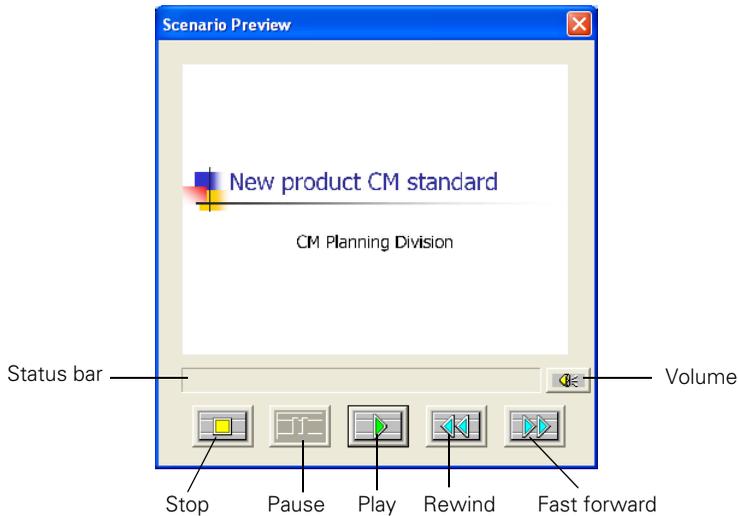
Continue with the steps in the next section when you're ready to transfer your scenario to a USB drive.

Checking Your Scenario

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

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

If the scenario is set to advance automatically (see page 124), 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.

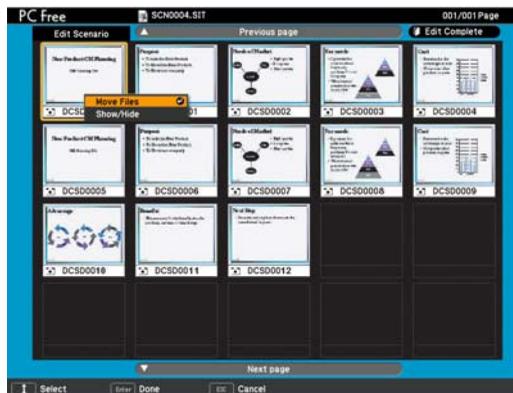
Editing a Scenario

You can edit a scenario stored on a USB storage device or CompactFlash card to change the order in which images are projected, or select whether to display individual images.

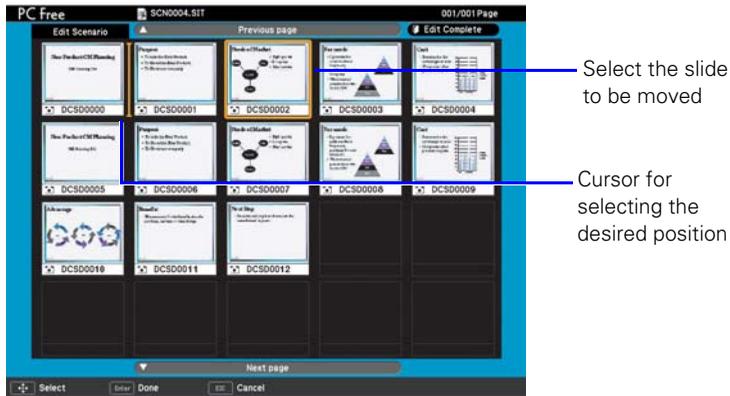
1. Press the  pointer button on the remote control to move the cursor to the icon for the scenario you want to edit, and then press the Esc button. You see this screen:



2. Select Edit Scenario and press the Enter button.
3. Use the cursor to select the desired slide, then press Esc.



- To select whether to display a slide, select **Show/Hide** and press **Enter**.
- To change the order of the slide, select **Move Files**, then move the cursor to the desired position and press **Enter**.



4. When you are done editing, use the remote control to select the **Edit Complete** button and press **Enter**.

The edited content can be accessed only while the CompactFlash card or USB storage device is inserted into the projector.

Transferring Your Scenario to a USB Drive or CompactFlash Card

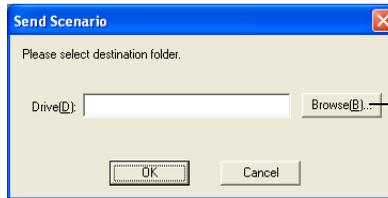
note

Don't use Windows to copy the scenario to your USB drive or memory card, or it may not play properly.

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

Once your scenario is saved, you can transfer it to a USB drive or CompactFlash memory card. Be sure to use the transfer process described below to ensure that the scenario plays properly:

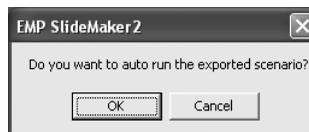
1. Connect the USB drive. If you are using a CompactFlash card, insert it in your computer or insert it in a card reader and connect the card reader to your computer.
2. Start EMP SlideMaker 2 (see page 119).
3. Use the navigation tools in the folders window to locate the scenario file you want to review. Click the file, then select **File > Open** to open the scenario.
4. From the Scenario Option(s) menu, choose **Send Scenario**. You see a drive selection window:



Select your
USB drive

5. Choose the drive (and folder) and click **OK**.
6. Click **OK** again to confirm. Your scenario is transferred to the location you specified.

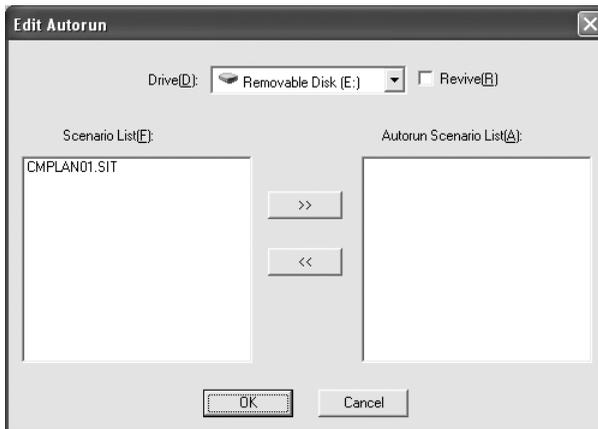
Once the scenario is transferred, you see this message about your scenario's autorun setting:



The autorun setting means that the scenario will start playing whenever the projector is turned on (with the drive connected to 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 drive 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:



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. Disconnect the USB device or card reader, or remove the CompactFlash card. See your computer's documentation if you need instructions. If you're using Windows XP, 2000, or Me, you may first need to click an icon to stop or disconnect the drive.

note

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

Presenting Scenarios

Before you begin, connect the USB drive (see page 52) or insert the CompactFlash card containing the scenario to your projector (see page 53).

Then 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.

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

3. Use the  pointer button on the remote control to highlight your  scenario file and press **Enter**. In a moment, your scenario begins playing.

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.

Controlling Your Scenario

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

- Press **Enter** or  **Page down** to display the next animation, 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. Select **Exit** and press the **Enter** button.

note

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

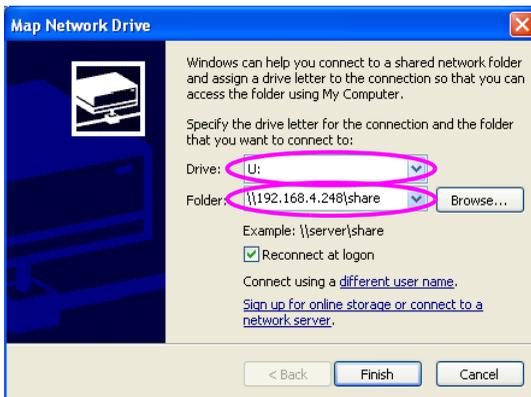
Copying and Deleting CompactFlash Card Files

You can use your computer to copy and delete files on a CompactFlash card that is inserted in the projector even if the projector is mounted on the ceiling or in a remote location. (You cannot copy or delete files on a USB storage device this way.)

Follow the steps below for your operating system when the EasyMP standby screen is displayed.

Windows

1. Right-click **My Computer** and select **Map Network Drive**.
2. For **Drive**, enter a drive name that is not being used. For **Folder**, enter the IP address, followed by `\share`, as shown below. Then click **Finish**.



You see the CompactFlash folder.

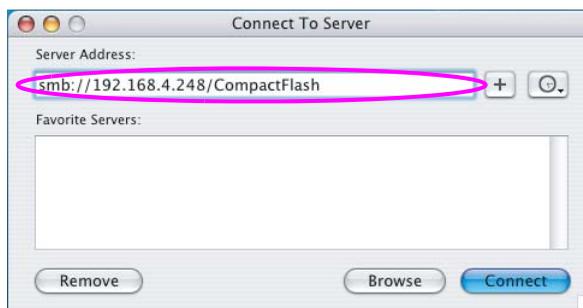
3. Double-click the CompactFlash folder. For the password, enter the network drive password set for the projector. Then click OK.



4. Copy the target folder(s) or file(s) to the CompactFlash card.

Macintosh

1. Click the Finder icon.
2. From the Transfer menu, select **Connect to Server**.
3. In the address field, enter `smb://Projector IP address/CompactFlash`.



4. Click **Connect**.

Supported File Formats

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

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	Images with a resolution greater than 1024 × 768 cannot be projected.
	.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 4608 × 3072.
	.png	Projection is not possible for images with a resolution in excess of 1024 × 768.
Movie	.mpg	MPEG2-PS The reproducible audio format is MPEG-1 Layer 1/2. Linear PCM and AC-3 audio cannot be played back, but MPEG contents with no sound can be played.
	.mp4	MPEG4, ASP/MPEG-4 AVC The reproducible audio format is MPEG4 AAC-LC.
	.mov	QuickTime® format Motion JPEG files.
	.wmv, .asf	WMV8, WMV9 The reproducible audio format is wma.
DPOF	.mrk	For DPOF version 1.10, only files named AUTPLAYx.mrk (where x is a number between 0 and 9) can be projected.

Files with the extension JPEG and MPEG can't be projected. Rename or save files as JPG or MPG. Files with high compression will not look good, and movie files may not look as good from media with a slow access speed. Files to which DRM (digital rights management) is applied cannot be projected.

6 *Fine-Tuning the Projector*

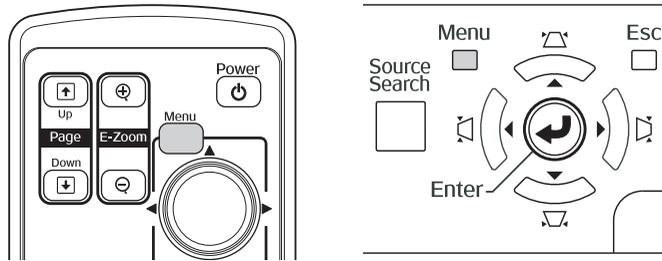
You can use the projector's on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

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

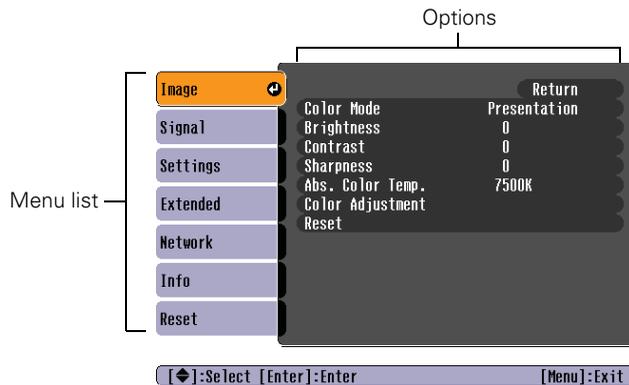
Using the Menu System

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.

2. Use the pointer button on the remote control (or the navigational 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).

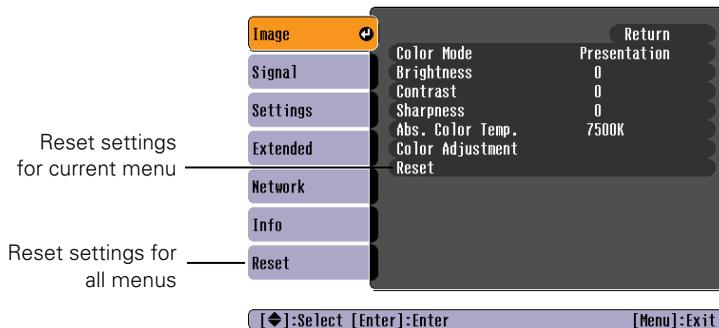


You can also press the **Menu** button to exit.

Restoring the Default Settings

You can use the menu system's **Reset** options to restore the factory-default 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.)



note

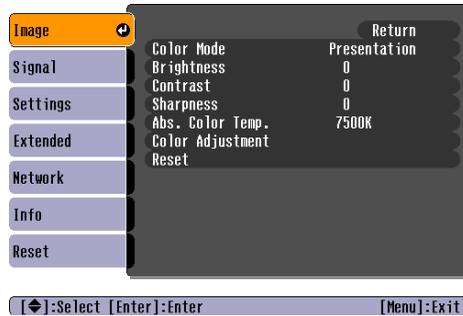
*When you select **Reset All** in the **Reset** menu, it does not reset the Computer Input, User's Logo, Multi-screen, Language, Lamp Hours, or Network settings.*

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

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  pointer 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:

Game: Ideal for use in bright rooms and when playing video games, this mode produces the brightest images and most vivid colors.

Presentation: For making presentations with color materials in bright rooms.

Text: For making presentations with black-and-white materials in bright rooms.

Theatre: For watching movies in a darkened room; gives images a natural tone.

Photo: For vivid, high-contrast still images in a bright room.

Sports: For vivid TV images projected in a bright room.

note

The available settings vary depending on the input source selected.

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

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

Customized: For manual color adjustment (see below).

- **Brightness**
Lightens or darkens the overall image.
- **Contrast**
Adjusts the difference between light and dark areas.
- **Color Saturation**
Adjusts the color depth of the image.
- **Tint**
Adjusts the balance of green to magenta in the image.
- **Sharpness**
Adjusts the sharpness of the image.
- **Abs. Color Temp.**
Sets a color temperature between 5000 and 10000 °K. (Not available if sRGB is selected as the Color Mode setting.)
- **Color Adjustment**
Adjusts the color values. For **Customized** color mode, select **RGBCMY** to adjust individual red, green, blue, cyan, magenta, and yellow hue and saturation values. For other color modes, **RGB** may be selected to adjust red, green, and blue hue and saturation values. (Not available if sRGB is selected as the Color Mode setting.)

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 Settings menu, then choose High or Low (the default setting is High).

Six-Axis Color Adjustment

For special projection material, such as high-quality photographs or artwork, you can adjust the hue and saturation for six different color axes.

1. Follow the instructions on page 138 to open the Image menu and select **Color Mode**.
2. Press the **Enter** button to select **Customized**, then press **Esc** to return to the Image menu.
3. Select **Color Adjustment** and press **Enter**. You see hue and saturation controls on the screen for six colors: **RGBCMY** (red, green, blue, cyan, magenta, and yellow).
4. Select the color axis you want to adjust and press **Enter**. You see color controls for hue and saturation.

Hue changes the balance of color, and saturation changes the strength of the color.

5. Use the  pointer button to adjust the hue and saturation. You see the adjustments reflected on the screen. When you are satisfied with the color, press **Esc**.
6. Repeat steps 4 and 5 for each color axis you want to adjust.

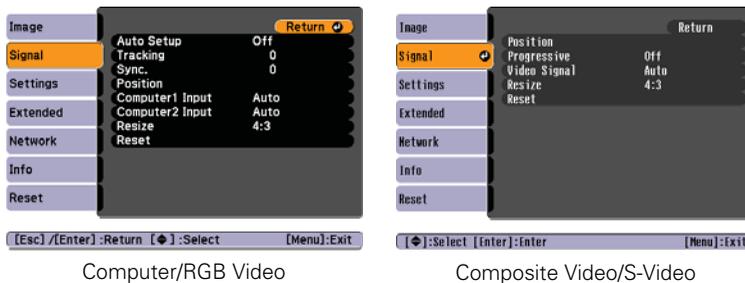
You may need to readjust the color as the lamp in your projector changes over time.

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.)



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

- **Auto Setup**

Leave this setting **On** to automatically optimize computer images. Turn it off if you want to save adjustments you have made to the Tracking, Sync, and Position settings.

- **Tracking**

Adjust this value to eliminate vertical stripes in computer images.

- **Sync**

Adjust this value if computer images appear blurry or flicker.

- **Progressive**

For composite video and S-video only. Turn this setting **On** to convert interlaced signals into progressive signals (best for still images). Leave the setting **Off** for moving images.

note

*You can also use the remote control's **Auto** button to automatically reset the projector's Tracking, Sync, and Position settings. See page 189 for details.*

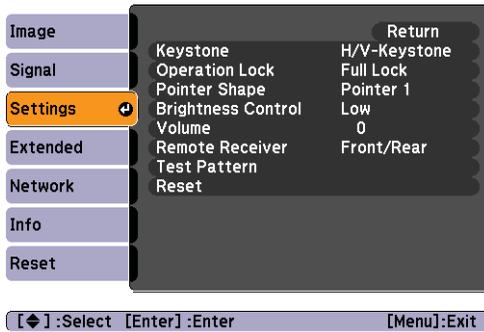
- **Position**
If the image is slightly cut off on one or more sides, it may not be centered exactly. Select this setting and use the  pointer button to center it.
- **Computer1 Input**
Computer2 Input
If the colors don't look right on the **Auto** setting, select the setting for the type of equipment you've connected to the **Computer1** or **Computer2** port:

RGB: For a computer or RGB-video connection.

Component: For a video player that outputs a component video signal (with connectors labeled Y/Cb/Cr or Y/Pb/Pr).
- **Video Signal**
Leave this setting at **Auto** unless you are using a 60-Hz PAL system (then select **PAL60**).
- **Resize**
Choose an aspect ratio of either **4:3** or **16:9**. For videos, you can also select **16:9 (Up)** or **16:9 (Down)** to accommodate subtitles or supertitles. **Normal** is the default setting for a computer connection.

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

Adjusts the shape of the image if the projector has been tilted upward or placed at an angle to the screen.

Select **H/V-Keystone** to correct horizontal and vertical keystone distortion, or to turn **Auto V-Keystone** on or off (see page 26).

Select **Quick Corner** to adjust the shape and position of the projected image (see page 25).

■ Operation Lock

Lets you disable all of the buttons on the projector except the **Power** button. See page 148 for more information.

■ Pointer Shape

Lets you choose from three pointer shapes. See page 33 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.

■ Volume

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

note

You can also adjust the volume using the remote control.

- **Remote Receiver**
Deactivates the projector's front and/or back sensors that detect signals from the remote control. Use this setting to prevent use of the remote control or to stop interference from bright fluorescent lights.
- **Test Pattern**
Displays a test pattern for use when adjusting the zoom and focus, and when performing keystone correction.

Using the Projector Security Features

note

You can also attach a security cable to the projector to prevent theft (see page 204).

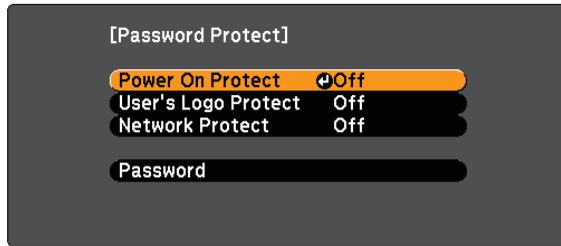
To prevent unauthorized use of the projector, you can do the following:

- Assign a password. You can use the password to prevent the projector from being turned on, prevent your custom startup screen from being changed, and lock network settings.
- Create a custom screen that is displayed at startup and/or when the **AV Mute** button is pressed. The screen can be locked with a password to discourage theft and provides a way to identify the projector should it be stolen. See page 146.
- 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 148.

Enabling Password Protection

The default setting for the password is 0000. Follow these steps to create a new password:

1. Press the **Freeze** button on the remote control for about five seconds. You see this screen:



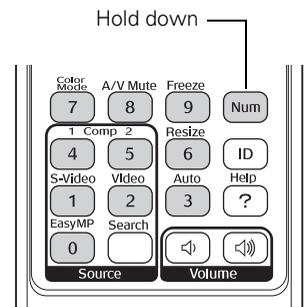
2. Use the  pointer button to select **Password** and press **Enter**.
3. When you see a message asking if you want to change the password, select **Yes** and press **Enter**.
4. Hold down the **Num** button on the remote control and use the numeric keypad to enter a four digit password. (The default setting is 0000.)
5. When you see a confirmation message, reenter the password. Then press the **Menu** button to exit the screen.

To set security options, access the Password Protect screen as described above, and then turn on any of the following options:

- **Power On Protect** to prevent unauthorized use of the projector. After the projector is plugged in and turned on, you must enter a password to use the projector. For details, see page 146.
- **User's Logo Protect** to prevent your custom screen and display settings from being changed. None of the User's Logo features in the Extended menu can be changed when the User's Logo Protect function is enabled. For details on creating a custom screen, see page 146.
- **Network Protect** to lock the Network settings in the menu system (see page 59).

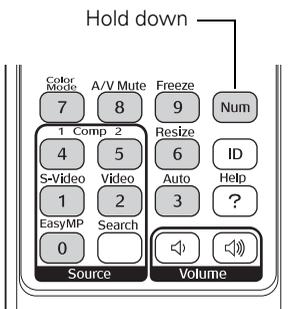
caution

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. Also, it's a good idea to write down your password.



note

If you leave the projector plugged in, the Password Protect Release screen will not appear. It appears only if you unplug and reconnect the power cable.



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 and projection begins.

If the password is not correct, you see a message prompting you to re-enter the password. If you enter an incorrect password three times in succession, you see the message **The projector's operation will be locked** and the projector switches to standby mode. Disconnect the projector's power cord from the electrical outlet, reconnect it, and turn the projector back on.

When you see the Password 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 screen for assistance. See "Where To Get Help" on page 197.

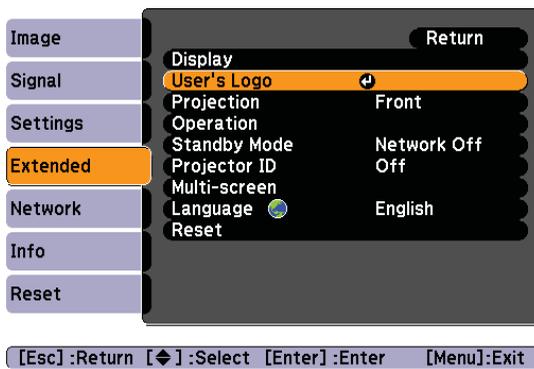
Creating Your Own Startup Screen

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:

1. 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 **Choose this image as the user's logo?**, select **Yes** and press **Enter**. A selection box displays over the image.
4. Use the  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 factor (display size) and press **Enter**.
7. When the message **Save this image as the 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 **Menu** to exit the menu system.

note

When you choose an image for the user's logo, it erases any previously used image. You can save an image up to 300 × 400 pixels in size.

Choosing When to Display the Image

After your image is saved, you can set it to display as the startup screen, the screen you see when there's no signal, or the screen you see when you press the **A/V Mute** button (see page 31).

1. Press the **Menu** button, highlight the **Extended** menu, and press **Enter**.
2. Select **Display** and press **Enter**.
3. Choose from these display options:
 - Set **Display Background** to **Logo** to display your image when there is no signal.
 - Set **Startup Screen** to **On** to display your image when the projector is warming up.
 - Set **A/V Mute** to **Logo** to display your image when you press the **A/V Mute** button.
4. When you're finished, press **Menu** to exit.

note

You can lock these settings to prevent them from being changed without a password (see page 145).

Disabling the Projector's Buttons

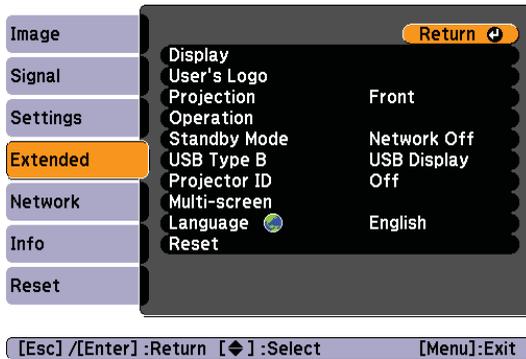
When you enable the Operation Lock function, you can lock all the projector's buttons, or all buttons except the **Power** button. The remote control can still be used to operate the projector.

1. Press the **Menu** button, highlight the **Settings** menu, and press **Enter**.
2. Select **Operation Lock** and press the **Enter** button.
3. Select **Full Lock** (to lock all projector buttons) or **Partial Lock** (to lock all buttons except the **Power** button) and press **Enter**.
4. Select **Yes** and press **Enter** to confirm the setting.
5. Press the **Menu** button to exit.

To disable the Operation Lock function, select **Off** in the Operation Lock menu. Or press and hold the **Enter** button on the projector's control panel for 7 seconds. A message is displayed and the lock is released.

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 146.
- **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).
- **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 or when the A/V mute slide (lens cover) is closed. Enable **High Altitude Mode** when you are using the projector above 4900 ft (1500 meters).

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.

Do not use the projector at altitudes above 7500 feet (2,286 meters).

- **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).
- **USB Type B**
Select **Easy MP** to project your computer's display through the projector's Type B USB port (see page 41). Choose **Wireless Mouse** if you want to be able to use the remote as a wireless mouse for a USB-connected computer (see page 42).
- **Projector ID**
Lets you assign a numeric ID to each projector. When you are using multiple projectors, you can use the ID to select the one you want to operate with the remote control. See page 36 for instructions.
- **Multi-screen**
Use this option if you want to color-match two or more projectors that are being used to display images near each other, or you are using the multi-screen feature to project from one source (one image) with multiple projectors (see page 98). You can make image adjustments at each of five adjustment levels. First choose an **Adjustment Level** and then adjust the settings for each level: **Brightness Correct.** to adjust the brightness, and **Color Correct.** to adjust the balance between red and green, or blue and yellow. See page 151 for more information about multi-screen color adjustment.
- **Language**
Select from 20 languages to be used for the projector menus.

Multi-screen Color Adjustment

You can match the color of projected images when two or more projectors are being used to display images near each other, or when you use the multi-screen feature to project from one source (one image) as described on page 98. For each screen, you can set five levels of brightness and color correction.

1. Before starting, you may want to assign a numeric ID to each projector. This lets you use the remote control to select the projector you want to adjust. See page 36 for instructions.
To match the display colors as closely as possible, make sure that all the projectors are set to the same color mode before starting. See page 138 for instructions.
2. Press the **Menu** button on the remote control. You see the projector's menu screen.
3. Select **Extended > Multi-screen**.
4. Start by setting the **Adjustment Level** to **1** for two projectors. Then use **Brightness Correct** to match the darker projector to the lighter one. Press **Enter** to see the effects of your adjustments.
5. Next, adjust the brightness of Level 5 for the same two projectors. Match the brighter projector to the darker one.
6. Adjust and match the brightness of Levels 2, 3, and 4.
7. Adjust and match the G/R color correction for all levels. Then adjust and match the B/Y correction for all levels.
8. If you are using three or more projectors, repeat steps 4 through 7 to match projector 3 to projector 2, then match projector 4 to projector 3, and so on.

note

If you use two or more projectors side-by-side, exhaust from adjacent projectors might cause overheating. Leave at least 2 feet (60 centimeters) of space between projectors.

7 *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.

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 201. 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 (see page 68) or over a wired network as described here.

This chapter covers the following information:

- Connecting your projector to a wired network
- Monitoring and controlling your projector with EMP Monitor
- Using e-mail alerts to warn you of problems
- Using a browser to monitor the projector

Connecting to a Wired Network

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

1. Connect the projector to your network using a commercially available 100BaseTX or 10BaseT network cable. Connect the cable to the LAN port on the projector. See page 55.
2. Point the remote control at the projector and press the  Power button.
3. Press the EasyMP button on the remote control to select EasyMP as the source.
4. Press the Menu button on the remote control, select the Network menu, then press Enter.
5. Choose Network Configuration and press Enter.
6. Choose Wired LAN and press Enter. You see the following screen:



7. Do one of the following:

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

To enter numbers, use the  pointer button on the remote control to highlight the number you want to input, then press the Enter button.

8. When you're done making all necessary changes, select Return, select Setup complete, and then select Yes to confirm that you want to save the changes. Press Menu to exit the menu system.

Using Projector E-mail Alerts

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

1. Press the Menu button on the remote control, select the Network menu, then press Enter.
2. Choose Network Configuration and press Enter.
3. Choose Mail, then press Enter. You see the following screen:



note

If you're a network administrator, you can use the SNMP option to enter a trap IP address. This lets you receive trap alerts for the projectors you're monitoring.

note

You can also set e-mail alerts from EMP Monitor (see page 166).

note

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

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

4. Highlight **On** to receive email notifications, then press **Enter**.
5. Enter the IP address for the **SMTP server** for the projector.
You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used: 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255).
6. Enter the SMTP server's port number. The default value is 25. You can enter a numeric value from 1 to 65535.
7. Choose one of the **Email Address** fields, then enter the e-mail address where you want to receive a message when a problem occurs. You can register up to three addresses. You can enter up to 32 alphanumeric characters for the e-mail address.
8. Select problems or warnings to be notified about by mail. (Numbers 1 through 3 in this section correspond to the e-mail addresses you entered.)
9. When you're done making all necessary changes, select **Return**, select **Setup complete**, and then select **Yes** to confirm that you want to save the changes. Press **Menu** to exit the menu system.

When the selected problem or warning occurs, an e-mail message is sent to the specified notification addresses. The subject line of the e-mail is **EPSON Projector**. The e-mail includes the following information:

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

Using EMP Monitor

EMP Monitor lets you use a remote computer to manage your projectors, 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 201. 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:



Click here to start EMP Monitor

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

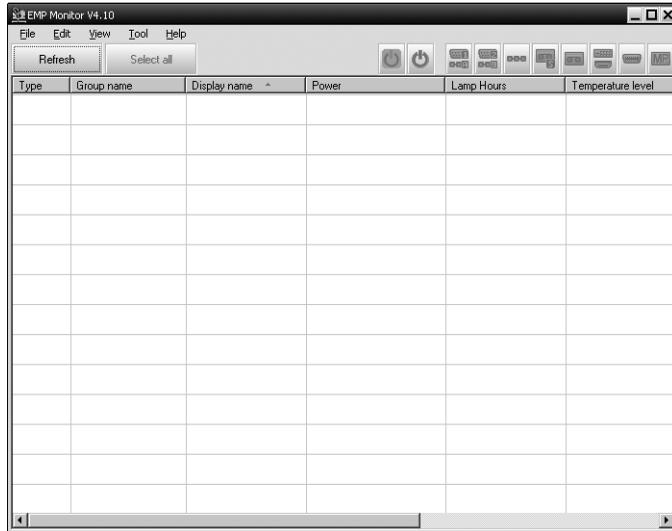
note

*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 150.*

Registering a Projector

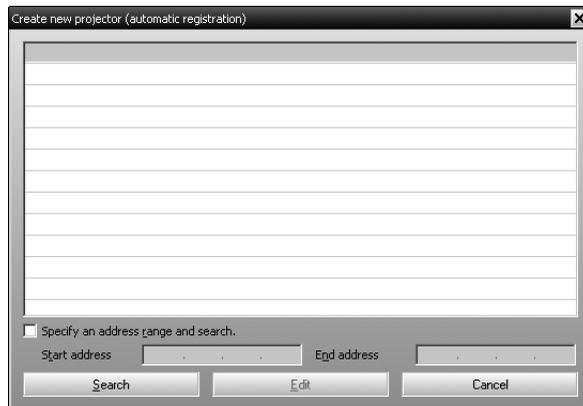
Before you can monitor a projector, you have to register it. Follow these steps to automatically search for your projector(s):

1. Open EMP Monitor as described above. You see this screen:



2. Select Edit > New > Projector (automatic search).

You see this screen:

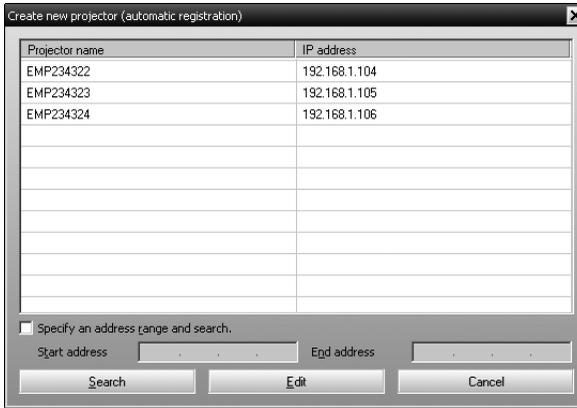


3. Click Search to locate projectors currently operating on the network.

note

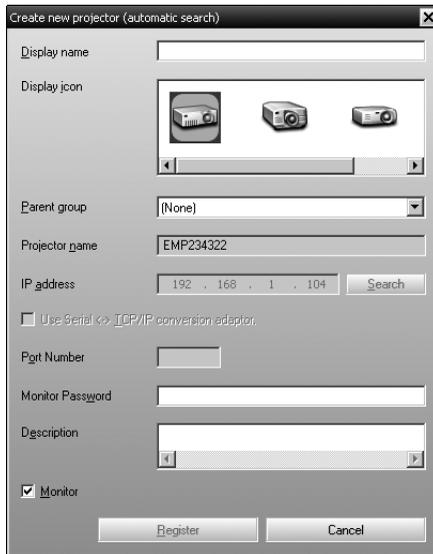
If the projector is not automatically found, your projector may not be connected or configured correctly for the network. See page 61.

Any projectors found on the network are listed as shown below:



4. Select the projector you want to add by clicking its name, then click the **Edit** button.

You see this screen:



5. Enter a Display name, select a Parent group (if necessary), enter a Monitor Password (if necessary), and enter a Description for the projector. Then click the **Register** button.

The following tables describe the status icons shown on the EMP Monitor screen.

Group status icons

	No warnings or problems. All projectors in the group are operating normally.
	Warning or problem. A projector in the group has a warning or problem.
	Monitoring disabled. Right click the icon and select Monitoring Enabled to begin monitoring the group.
	Data is currently being updated.

Type status icons

	No warnings or problems.
	Warning or problem.
	Monitor Password error. No monitor password was entered when the projector was registered, or an incorrect password was entered.
	Monitoring disabled. Right-click the icon and select Monitoring Enabled to begin monitoring the projector.
	Data is currently being updated.
	Network error (for example, the projector is not connected to the network, or power cable is disconnected). You may also see this error if Network Off is selected in Standby Mode.
	Network error (Esc/VP.net communication error).

Power status icons

	The projector is powered on and its status is normal.
	The projector is powered off and its status is normal.
	The projector is powered on and its status is abnormal.
	The projector is powered off and its status is abnormal.

Temperature level status icons

	The projector's internal temperature is normal (low).
	The projector's internal temperature is normal (medium).
	The projector's internal temperature is normal (high).
	The projector's internal temperature is high (high-temperature warning).
	The projector's internal temperature is too high (internal temperature error). The projector is turned off automatically.

Error status icons

	Lamp life warning. The lamp is nearing the end of its life.
	High-temperature warning. The projector is getting too hot but continues to operate.
	Replace air filter.
	No air filter. The air filter is not installed or installed incorrectly.
	Low air flow. The air filter needs to be cleaned or replaced.

Error status icons (continued)

	Air flow sensor error. There is a problem with the projector's air flow sensor; contact Epson as described on page 197.
	Lamp cover door open. Close the lamp cover door.
	Lamp out. The lamp has reached the end of its life.
	Lamp failure at power on. The lamp has reached its end of life or is installed incorrectly.
	High internal temperature error. The projector is turned off automatically.
	Internal (system) error. Contact Epson as described on page 197.
	Fan error. Contact Epson as described on page 197.
	Sensor error. Contact Epson as described on page 197.
	Other error. Contact Epson as described on page 197.

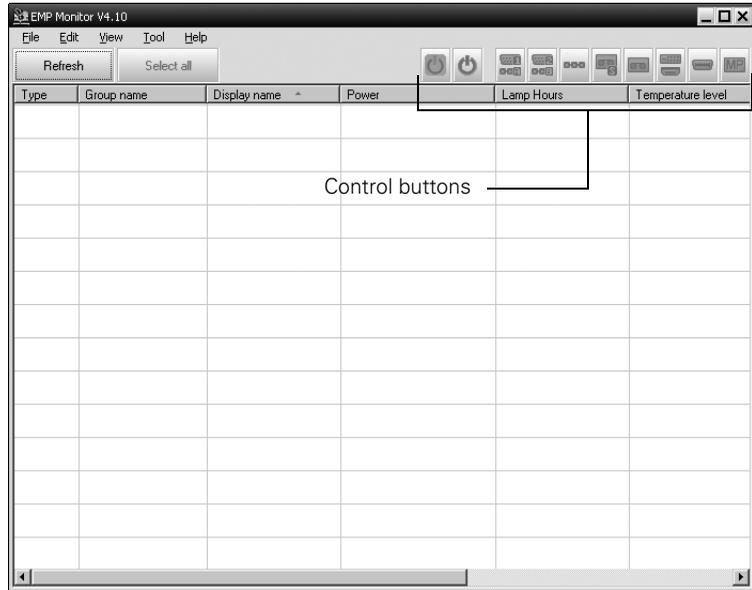
See page 181 for recommended solutions to problems.

Controlling Your Projectors

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 menu system (see page 150).

The control buttons in the upper-right let you turn the projector on and off and select video sources. (Hold the mouse pointer over a button to see a description of its meaning.) Make sure you've selected the projector you want to operate (with the mouse pointer) before clicking one of the buttons.

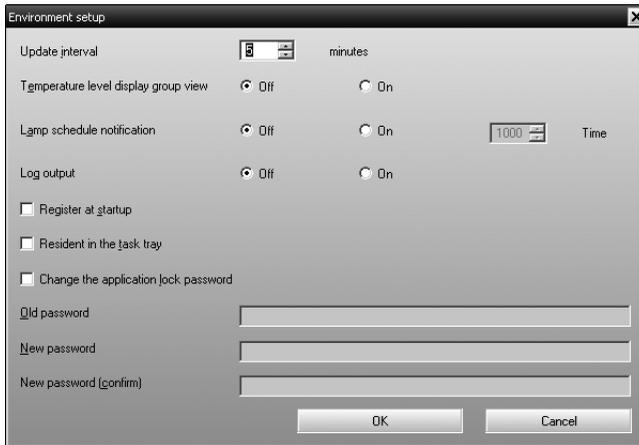


Configuring the Monitoring Interval

If you need to have the most current status information about your projectors, click the **Refresh** button in EMP Monitor.

To select how often EMP Monitor checks the status of projectors, follow these steps:

1. From the Tool menu, select **Environment Setup**. You see this screen.



note

*If you want EMP Monitor to run whenever you start your computer, click **Register at startup**.*

2. Enter the desired Update interval and click **OK**.

Using E-mail Alerts

note

You can also set e-mail alerts from the projector's menu system (see page 155).

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

1. Open EMP Monitor.
2. From the Tool menu, select **Mail notification function**.

You see this screen:



The screenshot shows a dialog box titled "Set mail notification function". At the top, there are two radio buttons: "Off" and "On", with "On" selected. Below this, there are several input fields and buttons. The first row has "SMTP server IP address" and "Port Number" (set to 25). The second row has "Sender mail address". The third, fourth, and fifth rows each have a "Recipient mail address" field followed by a "Notification event" button. At the bottom, there are "OK" and "Cancel" buttons.

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

Understanding the Notification Messages

If a projector experiences a problem, EMP Monitor sends an e-mail message to each of the addresses you entered in the Set mail notification function window.

The subject line of the message includes the projector's display name, shown in EMP Monitor, and the warning/error.

The body of the message contains:

- The projector's display name in EMP Monitor
- The error/warning message

The problem descriptions are similar to the errors listed on page 162.

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

Using a Browser to Monitor the Projector

If your projector is connected to a network, you can use a standard web browser to monitor and control it.

1. Make sure that the projector is set up for your network, as described on page 61. (Standby Mode in the Extended menu should be set to **Network On** to monitor the projector in standby mode.) When using a browser to access the projector, you cannot connect through a proxy server.
2. Open your web browser and enter the IP address of the projector you want to monitor in the browser window.

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

note

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

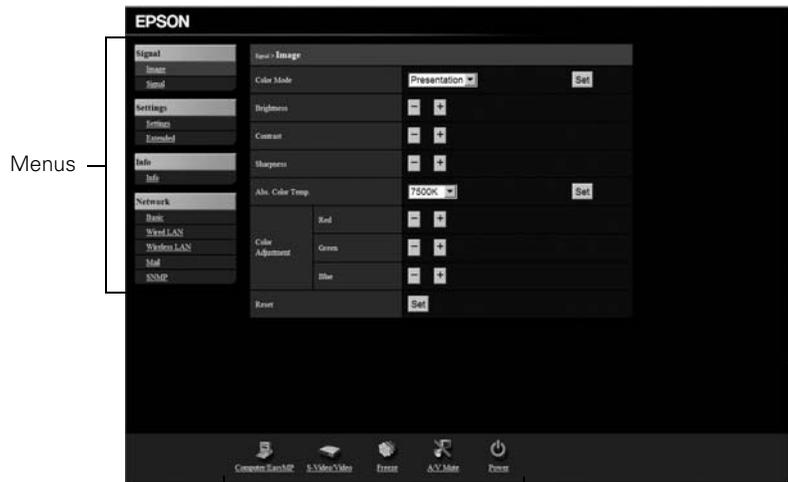
You see a login screen.



3. Do one of the following:

- If you didn't set a Web control password in the projector's Network menu, click OK.
- If you set a Web control password in the projector's Network menu, enter it in the Password box, then click OK.

You see this screen:



Functions corresponding to remote control buttons

4. Select one of the menu options listed on the left, then change any of the settings as needed. These settings correspond to those found in the projector's menu system.

You cannot change the following settings using a web browser:

- **Pointer** in the Settings menu
- **User's Logo, High Altitude Mode, and Language** in the Extended menu
- **Reset All and Reset Lamp Hours** in the Reset menu

Use the controls at the bottom of the screen just as you would the corresponding remote control buttons. Choose a source, stop the action, turn off the picture and sound, or turn the projector's power on or off.

Transferring Files by SMB

If your projector is connected to a network as described on page 154, you can send files over the network to a CompactFlash card inserted in the projector (see page 53). Then you can use the projector's PC Free feature to present images and movies.

On a Windows PC, you can use SMB (Server Message Block) to send files to the projector, as described below. On a Macintosh, you can connect to the projector using the Finder.

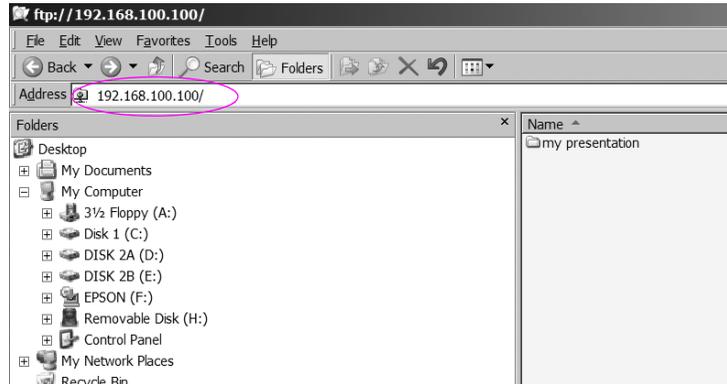
In Windows, follow these steps:

1. Open Windows Explorer.
2. Enter the IP address of the projector in the **Address** field (for example, 192.168.100.100).

note

*To send files to 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 150).*

You see the contents of the projector's CompactFlash card displayed on the right:



3. Copy your files to the projector.

8

Maintaining the Projector

Your projector needs little maintenance. All you have to do is keep the lens clean. You may also need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool 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.

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 filter and vent
- Replacing the lamp and air filter
- Replacing the remote control batteries
- 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 a commercially available cloth for cleaning glasses.

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, paint thinner, or other chemical detergents. These can damage the case.

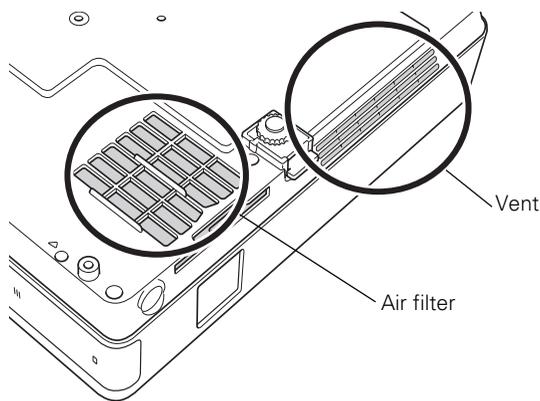
Cleaning the Air Filter and Vent

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

Follow these steps:

1. Turn off the projector and unplug the power cord.
2. To clean the intake vent and filter, use a small vacuum cleaner designed for computers and other office equipment. If you don't have one, gently clean the vent with a soft brush (such as an artist's paintbrush).

You can remove the air filter to clean both sides even if the projector is mounted on the ceiling. (See page 177).



3. If the dirt is difficult to remove or the filter is broken, replace the filter as described on page 177. Contact your dealer or call Epson at 800-GO-EPSON (800-463-7766) 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 filter.

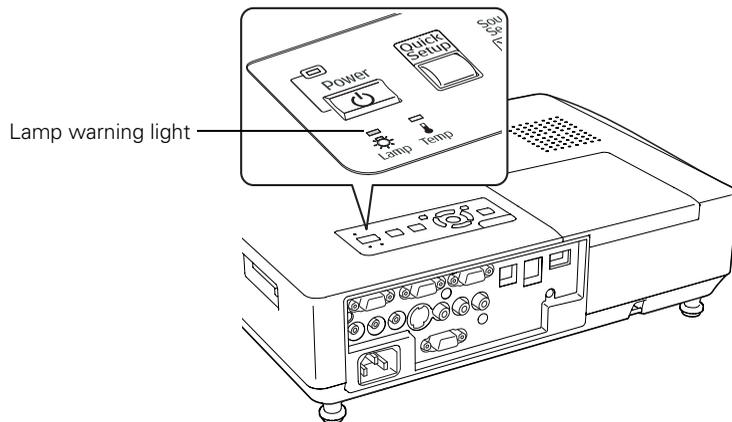
Turn off this product when not in use to prolong the life of the projector.

Replacing the Lamp and Air Filter

The life span of the projection lamp is about 2500 hours if **Brightness Control** in the Settings menu is set to **High** (default), and 3000 hours if **Brightness Control** is set to **Low**. See page 178 to check the lamp usage.

It is time to replace the lamp when:

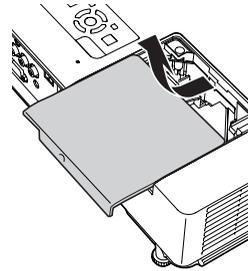
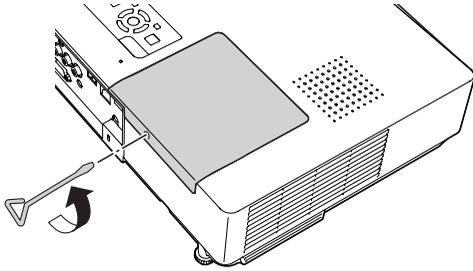
- The projected image gets darker or starts to deteriorate.
- The message **Replace the lamp** appears on the screen when the lamp comes on and the lamp warning light  flashes orange. To maintain projector brightness and image quality, replace the lamp as soon as possible.
- The lamp warning light  flashes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



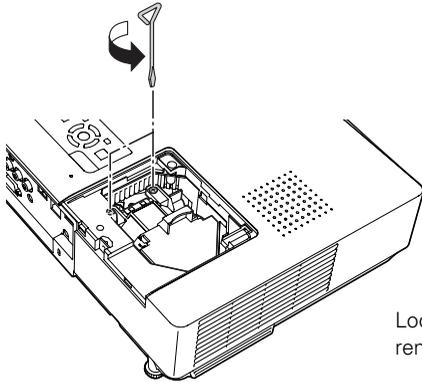
Contact your dealer or call Epson at 800-GO-EPSON (800-463-7766). Request part number V13H010L40.

Follow these steps to replace the lamp and air filter:

1. Turn off the projector and unplug the power cord.
2. Let the projector cool for at least an hour (if it has been on). The lamp is extremely hot immediately after use.
3. Loosen the lamp cover screw (you don't need to remove it). Then slide the lamp cover to the side and lift it off of the projector.



4. Loosen the two screws holding the lamp in place (you can't remove them).



Loosen, but don't
remove these screws

warning

*Let the lamp cool fully
before replacing it.*

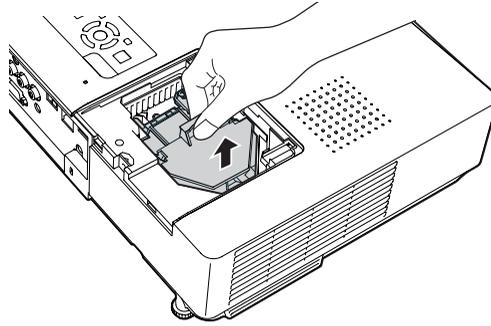
*In the unlikely event that
the lamp has broken, small
glass fragments may be
present and should be
removed carefully to avoid
injury.*

*If the lamp is used after the
replacement period has
passed, the possibility that
the lamp may break
increases. When a lamp
replacement message
appears, replace the lamp
with a new one as soon as
possible, even if it is still
working.*

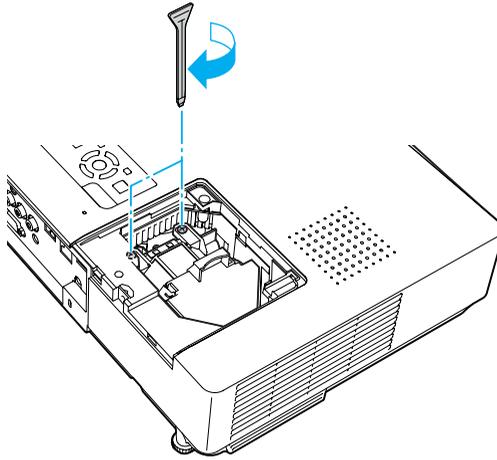
note

 *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.*

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

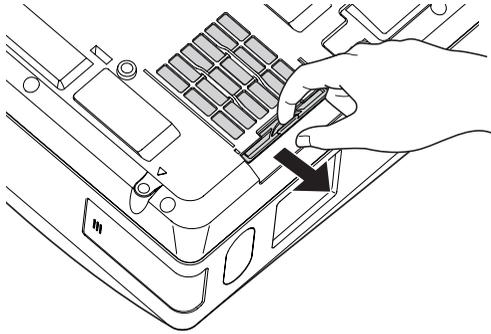


6. Gently insert the new lamp. (If it doesn't fit easily, make sure it is facing the right way.)
7. Once the lamp is fully inserted, tighten its screws.



8. Replace the lamp cover, then tighten its screw.

- Slide out the air filter on the bottom of the projector and remove it.



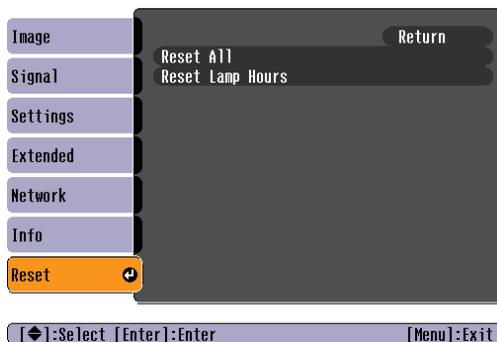
- Slide in the new air filter until it clicks in place.
- Reset the lamp timer as described in the next section.

Resetting the Lamp Timer

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

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

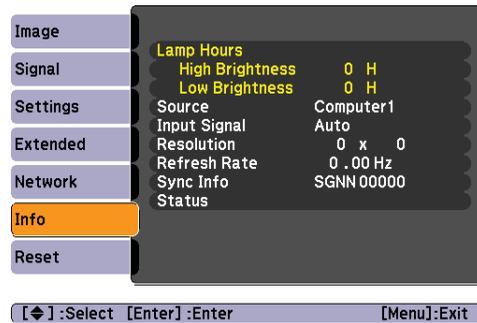
You see this screen:



3. Select **Reset Lamp Hours** and press **Enter**.
4. When you see the prompt, select **Yes** and press **Enter**.
5. When you're finished, press **Menu** to exit the menu system.

Checking Lamp Usage

To check the number of hours the lamp has been used, press the **Menu** button and highlight the **Info** menu. You see a screen like this:



note

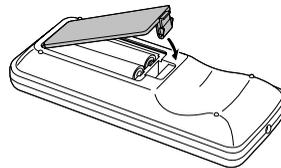
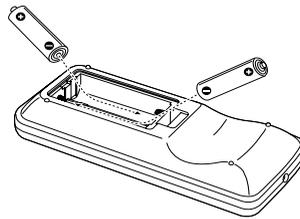
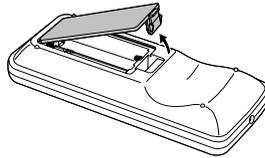
The information displayed depends on the input signal currently selected.

The life span of the lamp is about 2500 hours if the **Brightness Control** setting in the **Settings** 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.

Replacing the Batteries

Replace the batteries in the remote control as described below:

1. Turn the remote control over.
2. Press down on the tab on the battery cover as you lift the cover off.
3. Install two AAA batteries, inserting the + and – ends as shown.
4. Position the cover as shown, then press down until it snaps into place.



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.*

Transporting the Projector

note

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

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.
- Close the A/V mute slide (lens cover) to protect the lens.
- If a CompactFlash card is installed, remove it from the projector. Make sure the card eject button is pushed all the way in, or it could be damaged.

9 *Solving Problems*

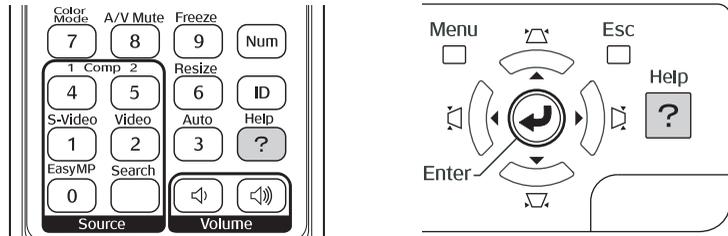
This chapter helps you solve problems with your projector, and tells you how to contact technical support for problems you can't solve yourself. The following information is included:

- 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

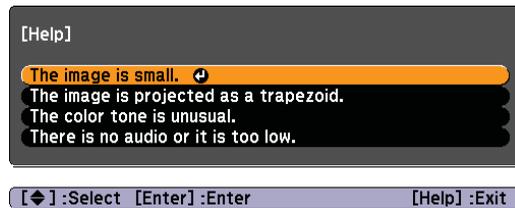
Using On-Screen Help

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

1. Press the ? 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 navigational 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.

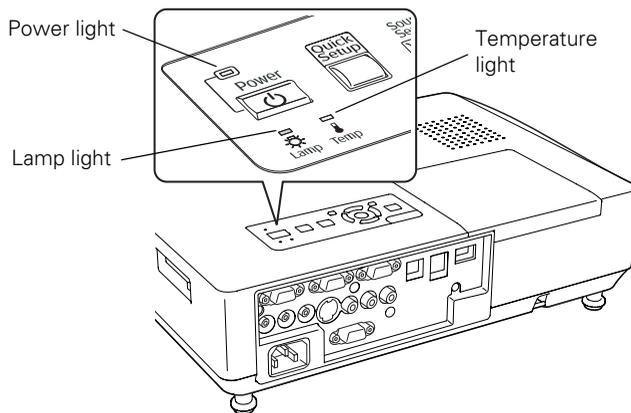
If none of the suggestions solve your problem, see additional solutions to problems in the following sections.

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
	Orange	The projector is in sleep or standby mode. You can unplug it or press the Power button to turn it on.
	Flashing green	The projector is warming up. Wait for the image to appear.
	Green	The projector is operating normally.
	Flashing orange	The projector is cooling down. You can't turn it back on until the light stops flashing and remains orange.
	Red	There is a problem with the projector. Check the other two lights and the information on page 184 to diagnose the problem.

Status lights (continued)

Light	Status	Description
	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 filter and vents are clear.
	Red	<p>The projector is overheating, which turns the lamp off automatically. Wait until the cooling fan stops, then unplug the power cord. Plug the power cord back in and press the  Power button. Make sure the room temperature is not above 95 °F (35 °C), and there is plenty of space around and under the projector for ventilation.</p> <p>If you're using the projector above an altitude of 5000 feet (1500 meters), turn on High Altitude Mode in the Operation menu (see page 149).</p> <p>The air filter or vents may be clogged. Clean them or replace the air filter as described on pages 173 to 177.</p> <p>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 197.</p> <p>Warning: Except as specifically explained in this <i>User's Guide</i>, do not attempt to service this product yourself.</p>
	Flashing red	<p>There is a problem with the fan or temperature sensor. The air filter or vents may be clogged. Clean them or replace the air filter as described on pages 173 to 177.</p> <p>If this does not resolve the problem, stop using the projector, disconnect the power cable, and contact Epson as described on page 197.</p>
	Flashing orange	It's time to replace the lamp. See page 174 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	<p>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 174.</p> <p>The air filter or vents may be clogged. Clean them or replace the air filter as described on pages 173 to 177.</p> <p>If this does not resolve the problem, contact Epson as described on page 197.</p>
	Flashing red	Power is cut off because of an internal problem. Unplug the power cord and contact Epson for help, as described on page 197.

Solving Projector Operation Problems

The power doesn't turn on.

- If the projector doesn't turn on when you press the **⏻ 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 197.
- Check to see if the A/V mute slide (lens cover) is closed.

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 148 for information about the Operation Lock function.

Solving Problems With the Image or Sound

No image appears on the screen.

- Check that the **Power** light is green, not flashing.
- The projector may be in standby or sleep mode. If the **Power** light is orange, press the **⏻ Power** button to turn the projector on.
- If the power was switched off and then on again, the projector may be cooling down. Wait until the **Power** light stops flashing and remains orange; then press the **⏻ Power** button again.
- Press the **A/V Mute** button on the remote control to make sure the picture has not been turned off temporarily.
- Open the A/V mute slide (lens cover), if it is closed.
- 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 40.
- 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.

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

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

If you're using Mac OS X:

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

The message Not Supported is displayed.

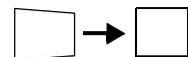
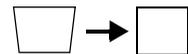
- Make sure the correct input signal is selected in the Signal menu (see page 141).
- Make sure your computer's resolution doesn't exceed UXGA (1600 × 1200) and the frequency or refresh rate is supported by the projector (see page 207). If necessary, change your computer's resolution setting.

Only part of the computer image is displayed.

- Press the **Auto** button on the remote control.
- Make sure the image **Position** setting is correct in the Signal menu. See page 142 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 207.
- 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 image isn't square or rectangular, adjust its shape as described on page 24.
- Enable the Auto Keystone feature to automatically fix the shape when the projector is tilted upward. See page 143.



The image contains static or noise.

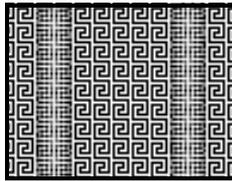
- If you're using a computer cable longer than 6 feet, or an extension cable, the image quality may be reduced.
- Keep your computer and video cables away from the power cord as much as possible to prevent interference.
- The video signal may be split between the computer and the projector. If you notice 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 142).
- If you've used the Quick Setup, Quick Corner, or Keystone adjustment, you may need to decrease the **Sharpness** setting in the Image menu (see page 139).

The image is blurry.

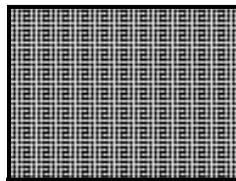
- There may be dirt or smears on the lens. Clean the lens as described on page 172.
- Adjust the focus using the focus ring (see page 24).
- If the projector is angled sharply toward the screen, it may not be possible to focus the entire image. Move the projector to position it more directly in front of the screen.
- Make sure the projector is within the proper range (projection distance) from the screen (see page 205).
- 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.
- If you're projecting from a computer, you may need to adjust the tracking and sync as described in the next section.

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 or the **Enter** button on the projector to reset the projector's Tracking, Sync, and Position settings.
- If further adjustment is needed, you can fine-tune the **Tracking** and **Sync** settings manually using the Signal menu, as described on page 141.
 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.



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

- Use the **Color Mode** option in the projector's Image menu to adjust the color (see page 138).
- If you're displaying video, adjust the **Color Adjustment** and **Color Mode** settings on the Image menu. You can also try adjusting the **Color Saturation**, **ABS Color Temp**, and **Tint** settings on the Image menu.

note

*You must be projecting an image for this button to have any effect. The **Auto** button works only with computer images projected through the VGA port.*

note

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

- 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 174 for instructions.
- Make sure the correct input signal is selected in the Signal menu (see page 142).

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

- Use the **Volume** buttons on the remote control to adjust the volume, or adjust the **Volume** setting in the Settings menu (see page 143).
- Make sure A/V Mute is not enabled. (The **A/V Mute** button may have been pressed.)
- Make sure the A/V mute slide (lens cover) is open.
- If your presentation includes computer audio, make sure the volume control on your computer is not turned all the way down or muted. In Windows, you may be able to check this by clicking the volume control in your Windows system tray (lower right corner of the screen). On a Mac, you may be able to adjust the volume from your menu bar (top right corner of the screen) or via the volume control function keys.
- If you're using a DVD player or other video source, make sure the cables are connected correctly, as described on page 50.
- If you're using a computer audio cable, make sure it is connected to your computer's  headphone jack or  audio out jack. Connect the other end to the projector's **Audio1** port when the computer's video cable is connected to the **Computer1** port. Otherwise, connect the cable to **Audio2** if you're using **Computer2** for the computer's video connection.

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 61. Also, make sure you've registered the projector with EMP Monitor; see page 157.
- 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, Vista, 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 the wireless network module is installed correctly in the projector; see page 54. If you have to reinstall the module, restart NS Connection or the program will not be able to detect the projector.
- Make sure you are using Version 2.30 of EMP NS Connection. If you are using an older version, you must uninstall it and install version 2.30 on the EasyMP CD-ROM that came with your projector. See page 199 for instructions.
- Restart your computer.
- Make sure your projector and computer are configured correctly; see page 61 (Ad Hoc mode) or page 68 (Access Point mode).
- Make sure that you have sufficient wireless signal strength (above 50 percent). On a Mac, check the AirPort icon on the Mac 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 74) or that your wireless card or adapter is enabled and its SSID is set to match the projector's SSID (or ESSID); see page 66. On a Mac, click the AirPort icon at the top of your Mac desktop to make sure AirPort is turned on and the projector's SSID 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 wireless network module. 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 94.

Solving EasyMP Problems

An image displayed with EasyMP appears distorted.

Some high-resolution images cannot be displayed correctly. Files with a high compression ratio may appear blurry. For BMP, GIF, and PNG files, make sure the resolution is not greater than 1024×768 . For JPG files, the resolution must not be greater than 8192×6144 , and the image cannot be in progressive and CMYK color format.

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

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

Make sure the MS Office JPEG converter has been installed. See the MS Office documentation for instructions. 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 USB drive.

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 USB drive.

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

You must connect the drive to your computer before you select **Send Scenario** from the Scenario Option(s) menu. If this happens, close and restart EMP SlideMaker 2. Make sure your drive is connected before you select **Send Scenario**.

You can't play your movies on the projector.

- The projector supports MPEG2 and WMV files. It does not support MPEG1 files. The audio format is MPEG1 Layer 2. Linear PCM and AC-3 audio cannot be played back.
- If your MPEG2 movie stops playing, check the light on the projector's wireless module. If the light doesn't come on, turn off the projector and reinstall the module.
- 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.

When using EasyMP, you see an ERR code at the bottom of the screen.

Check for the code below.

ERR Code	Meaning
2, 50, 53, 245, or -103	Failed to start EasyMP. Turn the projector off, then turn it back on again.
51, 52, or 100	EasyMP processing error. If you're using EMP NS Connection, try reconnecting to the projector. If you're projecting through the projector's USB port, reconnect the USB cable.
-101	Communication was cut off. Check the access point connection (see page 68).
-102 or -105	Unstable wireless communication. Network traffic may be high. Wait for a while, then try reconnecting.

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 179.
- 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. If necessary, use the **Remote Receiver** setting to disable the projector's front or back sensor if it continues to pick up interference (see page 144).
- Make sure the **Remote Receiver** setting isn't disabling both of the projector's sensors (see page 144).
- If any buttons are held for longer than 30 seconds, the remote enters sleep mode. Release any button that is held to wake the remote.

Where To Get Help

Epson provides these technical support services:

Internet Support

Visit Epson's [support website](#) for solutions to common problems. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Visit [Presenters Online](#) to access tips, templates, and training for developing successful presentations.

Speak to a Support Representative

To use the Epson PrivateLine Support service, call (800) 637-7661 and enter the PIN on the included Epson PrivateLine Support card. This is the fastest way of speaking to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

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

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

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

Before you call for support, please have the following information ready:

- Product name (PowerLite 1825)
- Product serial number (located on the projector)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

Purchase Supplies and Accessories

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

A Software Installation

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. The 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 2000 (SP4), Windows XP, or Windows Vista
- 802.11g or 802.11b, or 802.11a network card or wireless adapter (to use EMP NS Connection wirelessly)
- IBM® compatible PC with at least a Pentium® III 1.2 GHz processor
- At least 256MB of RAM (512 recommended)
- At least 128MB of free hard disk space
- XGA (1024 × 768) or better display adapter and monitor, 16-bit color or higher

note

Although EMP Slidemaker and EMP Monitor work in Windows 98 and Me, EMP NS Connection requires Windows 2000, XP, or Vista.

note

If you install the EasyMP software on your computer and then upgrade to Windows Vista, you must uninstall the software and then reinstall it on Windows Vista.

Limitations in Windows Vista

If you install the Epson projector software in a previous version of Windows and later upgrade to Windows Vista, you must uninstall the software before you upgrade. Then reinstall it after you are running Windows Vista.

EMP NS Connection V2.30 is compatible with Windows Vista, but note the following:

- If you are upgrading to Windows Vista and a USB display driver is installed on your computer, uninstall it before upgrading to Windows Vista.
- The Multi-screen projection feature is not available.
- When you project content from Windows Photo Gallery or Windows Media Center, you cannot use the full-screen mode options in those programs.
- On the EMP NS Connection General settings tab, you cannot select **Use full-screen video transfer**.
- You may find that you have to input your user account name into the User Account Control screen each time you start EMP NS Connection. To disable this, set the Windows Firewall setting to **On (recommended)**, click the **Exceptions** tab (in the Windows Firewall Settings window), and register EMP NS Connection.

Mac System Requirements

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

- Mac OS X 10.3 or later (OS X 10.3.9 to 10.4.5 recommended)
- AirPort (802.11b) or AirPort Extreme (802.11g) wireless network interface to use EMP NS Connection wirelessly
- Power Macintosh series G3 900 MHz or more, iMac®, PowerBook, or iBook
- At least 256MB of RAM

note

You can present over a wireless network from Mac OS X using EMP NS Connection. However, EMP SlideMaker and EMP Monitor are available only for Windows.

- At least 128MB of free hard disk space
- XGA (1024 × 768) or better display adapter and monitor, 16-bit color or higher

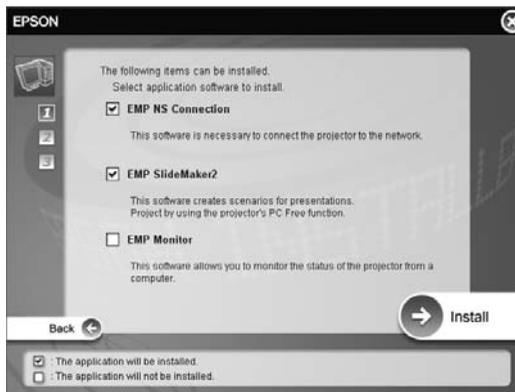
Installing the Software in Windows

Follow these steps:

1. Insert the Projector Software CD-ROM in your computer's CD-ROM or DVD drive. The installation program starts and you see this screen:



2. Click **Easy Install**, then make sure all three programs are selected (including EMP Monitor).



note

If you select more virtual displays, your computer may slow down depending on its capabilities.

3. Click **Install**, then follow the on-screen instructions to install your projector software.
4. When you see the Virtual Display screen, you can select one or more virtual displays to use for multi-screen projection (see page 98). Windows lets you use two by default, but you can select up to four more if you plan to use additional projectors.

After you install the software, you can change your Virtual Display selection by accessing **EPSON Projector** from the Start menu and selecting **Add-Remove EPSON Virtual Display**.

If you see a message that the Epson Projector Support Driver has not passed Windows Logo testing, click **Continue Anyway**. If you have selected multiple Virtual Displays, you will see this message several times.

5. When installation is complete, click **Finish** to close the installation window.

Installing the Software on a Mac

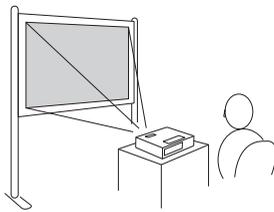
Follow these steps to install EMP NS Connection:

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

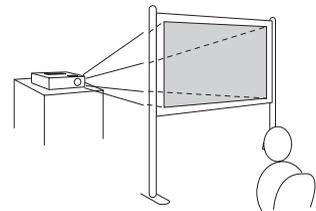
B *Projector Installation*

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

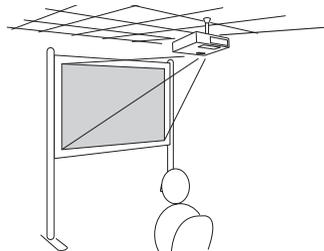
The projector can be installed for four different viewing setups: front projection, ceiling projection, rear projection onto a semi-transparent screen, or rear/ceiling projection, as shown:



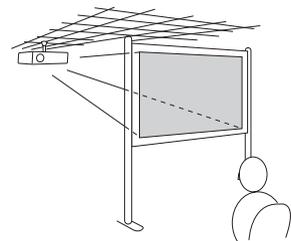
Front projection



Rear projection



Ceiling projection



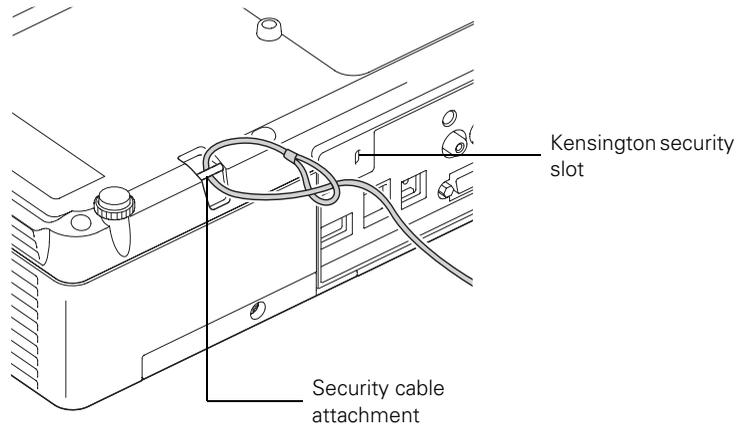
Rear/ceiling projection

To project from overhead, you'll need the optional ceiling mounting hardware (see page 13). You'll also need to select the appropriate **Projection** setting in the projector's Extended menu to flip the image upside-down (see page 149).

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 image using the projector's **Quick Setup**, **Quick Corner**, and/or **Keystone** functions, as described on page 24.

The projector includes security features to prevent its theft when installed or used in public locations:

- **Security cable attachment.** You can attach a commercially available security cable as shown below to secure the projector to a table or ceiling mount.
- **Kensington security slot.** The security slot is compatible with the MicroSaver security systems manufactured by Kensington. You can purchase this lock from Epson (see page 13).



In addition, the projector includes several menu-operated security features. See page 144.

C *Technical Specifications*

General

Type of display	Epson poly-silicon TFT active matrix
Resolution (native format)	1024 × 768 pixels (XGA)
Color reproduction	16.8 million colors
Brightness	3500 lumens (High Brightness mode) 2700 lumens (Low Brightness mode)
Contrast ratio	500:1
Image size	30 to 300 inches (76.2 to 762 centimeters)
Projection distance	2.7 to 48.2 feet (0.8 to 14.7 meters)
Projection methods	Front, rear, upside-down (ceiling mount)
Internal sound system	5 W monaural
Optical aspect ratio	4:3 (horizontal:vertical)
Zoom ratio	1:1.6
Noise level	32 dB in Low Brightness mode, 37 dB in High Brightness mode
Keystone correction	±30° vertical (automatic/manual) ±20° horizontal (manual)
Mouse compatibility	Supports USB (type B)

note

Lamp life results will vary depending upon mode selected, environmental conditions, and usage.

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

Projection Lamp

Type	UHE (Ultra High Efficiency)
Power consumption	210 W
Lamp life	Approx. 2500 hours (High Brightness mode) Approx. 3000 hours (Low Brightness mode)
Part number	V13H010L40

Remote Control

Range	20 feet (6 meters)
Batteries (2)	Alkaline AAA

Dimensions

Height	3.4 inches (86 mm), feet retracted
Width	13.6 inches (345 mm)
Depth	10.1 inches (257 mm)
Weight	6.9 lb (3.1 kg)

Electrical

Rated frequency	50/60 Hz AC
Power supply	100 to 120 VAC, 3.4 A 200 to 240 VAC, 1.5 A
Power consumption	Operating: 100 to 120 VAC, 306 W 220 to 240 VAC, 286 W Standby: 100 to 120 VAC, 2.6 W (network off) 12 W (network on) 220 to 240 VAC, 4.6 W (network off) 12 W (network on)

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 and Approvals

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 the high definition video and computer display formats listed below, as well as traditional NTSC, PAL, and SECAM video standards.

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 using Epson's SizeWize™ technology 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.

Compatible video formats

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
VGA—120	120	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
SVGA—120	120	800 × 600
XGA—60	60	1024 × 768
XGA—70	70	1024 × 768
XGA—75	75	1024 × 768
XGA—85	85	1024 × 768
XGA—120	120	1024 × 768
SXGA1—70	70	1152 × 864
SXGA1—75	75	1152 × 864
SXGA1—85	85	1152 × 864
SXGA1—120	120	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

Compatible video formats (continued)

Mode	Refresh Rate (Hz)	Resolution
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	—
TV625i	50	—
SDTV (480p)	60	—
SDTV (576p)	50	—

D

Notices

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

Important Safety Instructions

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

- Do not look into the lens when the projector is on. The bright light can damage your eyes.
- Do not place the projector on an unstable cart, stand, or table.
- Do not operate the projector on its side, or while tilted to one side. Do not tilt the projector forward or back at a greater angle than that specified for vertical keystone correction (see page 205).
- If the projector is mounted on a ceiling, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Unplug the projector from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- Never spill liquid of any kind into the projector.
- Do not use the projector where it may be exposed to excessive dust or smoke.
- Never push objects of any kind through the cabinet slots.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers, which could block vents underneath your projector.

- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
- If you are using two or more projectors side-by-side, leave at least 2 feet (60 cm) of space between the projectors to allow for proper ventilation.
- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector.
- Do not use 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.
- Unplug the projector during lightning storms or when it will not be used for extended periods.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: If it does not operate normally when you follow the operating instructions, or exhibits a distinct change in performance. If smoke, strange odors, or strange noises come from the projector. If the power cord or plug is damaged or frayed. If liquid or foreign objects get inside the projector, or if it has been exposed to rain or water. If it has been dropped or the housing has been damaged.
- 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.
- 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.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not overload wall outlets, extension cords, or power strips. This can cause fire or electric shock.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
- Do not place the projector where the cord can be walked on.
- (H9) 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.

- If the lamp breaks, ventilate the room to prevent gases contained in the lamp from being inhaled or coming in contact with the eyes or mouth.
- If the projector is mounted overhead and the lamp breaks, be careful to prevent pieces of glass from falling into your eyes when you open the lamp cover.

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

FCC Compliance Statement

For United States Users

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

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

WARNING

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

For Canadian Users

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

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

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