

**PowerLite® G5000
Multimedia Projector**

User's Guide

Important Safety Information

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

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

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

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W *Welcome*

The PowerLite® G5000 is an easy-to-use, flexible for installation projector. It offers up to 4000 lumens of brightness (white and color light output) and provides a native XGA resolution. You can connect it to a wide range of computers and video sources.

Your projector offers these easy setup, control, and security features:

- Manual horizontal and vertical lens shift
- Centered lens design
- Instant Off® feature for fast setup and shut down
- Quick Corner® for easy image shape/size adjustment
- 1.8x optical zoom lens for flexible placement and positioning
- One-touch filter replacement
- Side-loading easy lamp access
- Security features include password, user's logo, the ability to lock the projector buttons, a security cable attachment (cable not included), a slot for an optional Kensington® security lock, and a lens theft deterrent screw

Additional enhancements:

- Closed captioning for the hearing impaired
- 1000:1 contrast ratio
- Perform six-axis color adjustment for fine art and photography

Using Your Documentation

This electronic *User's Guide* contains all the information you need to set up and use your projector.

In addition, your projector CD-ROM includes the *EMP Monitor Operation Guide*. Refer to this manual for detailed instructions on monitoring the projector from a remote location.

Please follow these guidelines as you read through this manual:

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

- **Quick Reference card**
Provides information for connecting the projector to your equipment, displaying and adjusting the image, using the remote control, and solving display problems.
- **Built-in help system**
Provides assistance for common problems. Available from the Help button on the projector or the remote control. See page 82 for details.
- **epson.com/support**
Download FAQs and e-mail your questions to Epson support.
- **PrivateLine support**
If you still need help after checking this *User's Guide* and the sources listed in this section, 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 93 for more information.

Registration and Warranty

Your projector comes with a basic warranty that lets you project with confidence. For details, see the warranty brochure included with your projector.

In addition, 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 next business day 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.

Optional Accessories

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

Product	Part number
Replacement lamp for PowerLite G5000	V13H010L47
Replacement air filter	V13H134A17
Wireless IR mouse receiver for remote control	V12H007T16
Replacement remote control	1485872
Advanced projector ceiling mount with precision gear	ELPMBPRG
Adjustable suspended ceiling channel kit	ELPMBP01
False ceiling plate kit	ELPMBP02
Structural round ceiling plate	ELPMBP03
Adjustable extension column (pipe) 8"–11"	ELPMBC01
Kensington® MicroSaver® security lock	ELPSL01
50-inch portable screen (4:3 aspect ratio)	ELPSC06
60-inch portable pop-up screen (4:3 aspect ratio)	ELPSC07
80-inch portable pop-up screen (4:3 aspect ratio)	ELPSC08
DUET Portable Projector Screen (4:3/16:9 combination)	ELPSC80
Component-to-VGA cable	ELPKC19
S-video cable	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 *Setting Up the Projector*

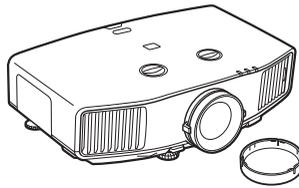
This chapter tells you how to unpack the projector and connect it to a notebook or desktop computer, to video equipment (such as a VCR, DVD player, or video camera), and to a local area network.

Follow the instructions in this chapter for:

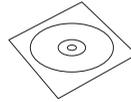
- Unpacking the projector
- Positioning the projector
- Connecting to a computer
- Connecting to video equipment
- Playing Sound
- Connecting a network cable
- Turning the projector on and off

Unpacking the Projector

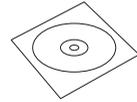
After unpacking the projector, make sure you have all these parts:



Projector and lens cap



PDF manuals and registration CD-ROM



Projector software CD-ROM



Lens theft deterrent screw



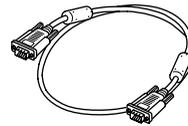
Remote control and 2 AA batteries



Password Protected sticker



Power cord



VGA computer cable

Save all packaging in case you need to ship the projector. Always use the original packaging (or the equivalent) when you need to send the projector to another location. If you are moving the projector by hand, use the projector handle. See page 79 for transportation instructions.

Additional Components

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

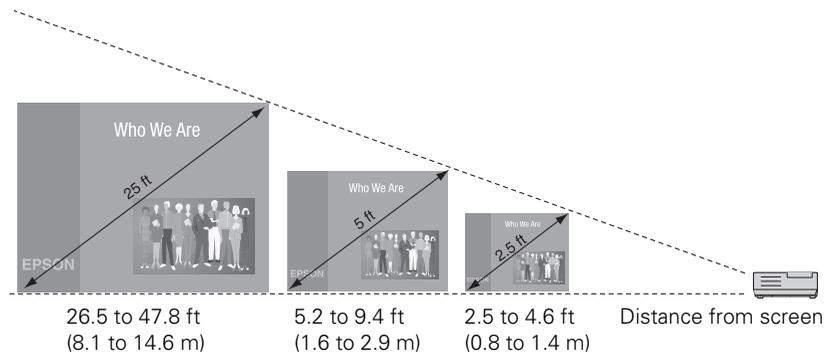
- To receive a composite video signal from a VCR or other video device, you'll need a video cable. One may be provided with your video equipment.
- To receive an S-video signal, you'll need an S-video cable. One may be included with your video equipment, or you can purchase one from Epson. See "Optional Accessories" on page 10.

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. 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 illustration 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.

(4:3 image)



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.
- Make sure the projector is within 10 feet (3 meters) of a grounded electrical outlet or extension cord.

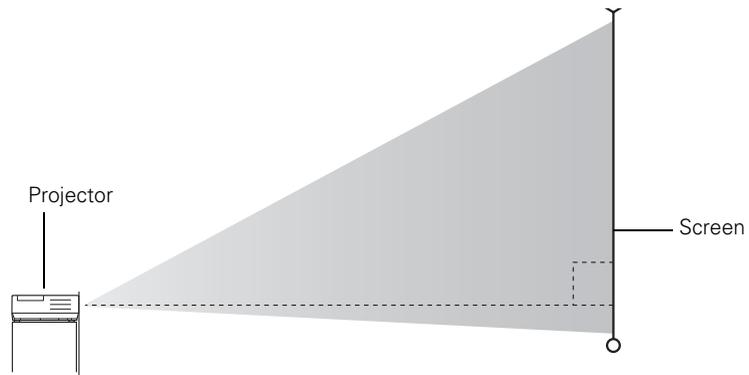
note

You can mount the projector on the ceiling, or place it behind a translucent screen for rear projection. See page 95 for details.

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 10.

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 about level with the bottom of the screen.



If you place the projector below screen level, you can use the vertical lens shift dial to raise the lens (see page 32). You can also tilt the projector up by extending the front adjustable foot. Tilting the projector causes the image to become “keystone” shaped, but you can correct the distortion (see page 33).

For instructions on installing the projector in a permanent location, such as a theater or conference room, see page 95.

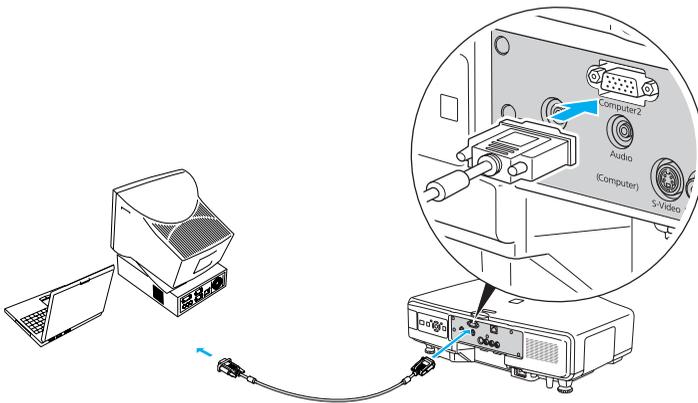
Connecting to a Computer

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.

If you have the optional wireless mouse receiver, you can use your remote control as a wireless mouse when projecting from a computer (page 42).

Follow these steps to 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. Connect one end of the cable to the projector's **Computer1** or **Computer 2** port, and the other end to your computer's monitor port.



2. You may need to change the **Input Signal** setting in the projector's **Signal** menu to **RGB** (see page 51).
3. To play sound, you can connect an optional stereo mini-jack audio cable and optional external speakers (see page 21).
4. When you've finished making any connections, see page 24 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

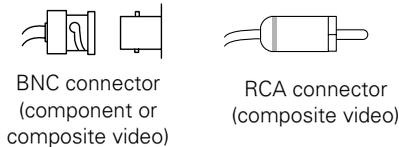
caution

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

Connecting to Video Equipment

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

- If your video player has a component video port (three connectors labeled either Y/Cb/Cr or Y/Pb/Pr), see “Connecting a Component Video Source” on page 19.
- If your video player has a yellow RCA video output connector, or if you’re using a composite cable with a BNC connector, see “Connecting a Composite Video Source” on page 17.



- If your video player has an S-video connector, see “Connecting an S-Video Source” on page 18.

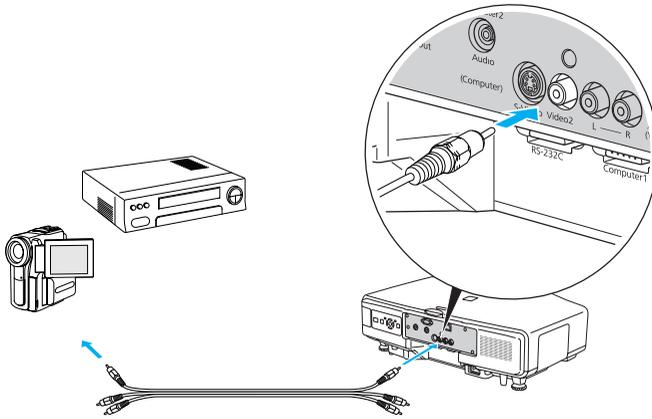


- If your video player has an RGB video port (either a single connector for a VGA monitor cable or three connectors labeled R/G/B), see “Connecting an RGB Video Source” on page 20.



Connecting a Composite Video Source

1. If your video cable has an RCA connector, connect it to the yellow video output connector on your player and the yellow Video2 connector on the projector (as shown below). Or if you're using a coax video cable, connect it to the Video1 connector on the projector.



2. To play sound, you can connect an optional stereo mini-jack audio cable and optional external speakers (see page 21).
3. When you've finished making any connections, see page 24 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

note

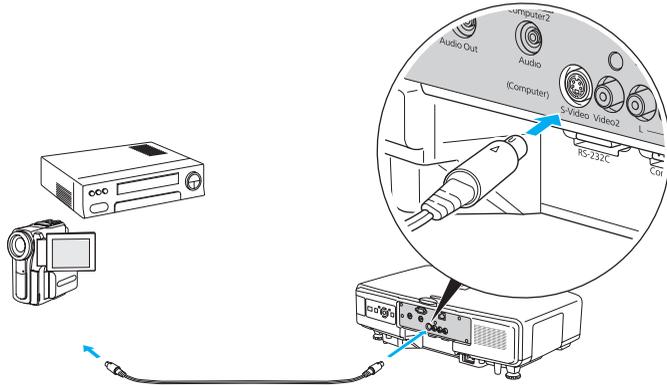
If the video cable was not provided with your video device, you can purchase one from an electronics dealer.

note

If the S-video cable was not provided with your video device, you can purchase one from Epson; see page 10.

Connecting an S-Video Source

1. Connect the S-video cable to the S-video connector on your player and the S-Video connector on the projector.

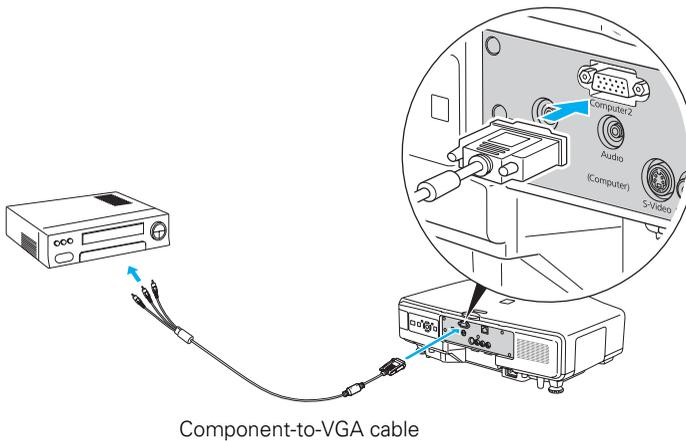


2. To play sound, you can connect an optional stereo mini-jack audio cable and optional external speakers (see page 21).
3. When you've finished making any connections, see page 24 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

Connecting a Component Video Source

You will need a special cable to connect your component video equipment to the VGA-style connector on the projector. You can order a component-to-VGA cable (part number ELPKC19) from Epson; see page 10 for more information.

1. Locate a component-to-VGA cable.
2. Connect the cable to your player and the **Computer 1** or **Computer 2** connector on the projector.



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 Input Signal setting in the Signal menu is set to **Auto** or **Component Video** (see page 51).*

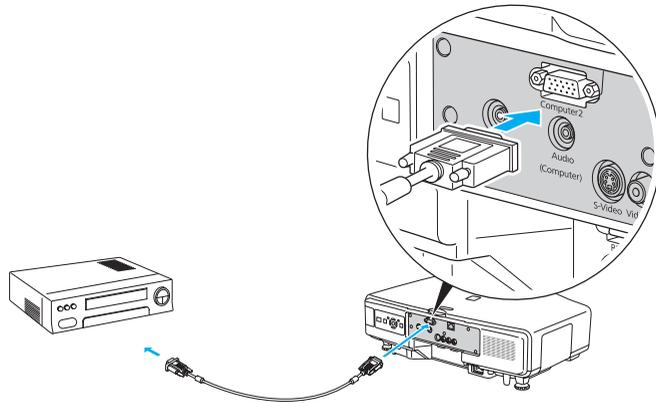
3. You may need to change the **Input Signal** setting in the projector's Signal menu to **Component** (see page 51).
4. To play sound, you can connect an optional stereo mini-jack audio cable and optional external speakers (see page 21).
5. When you've finished making any connections, see page 24 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

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 (or if your video player has three connectors labeled R/G/B, locate a component-to-VGA cable as shown on page 19).
2. Connect the cable to the video port(s) on your player and the **Computer1** or **Computer2** port on the projector.



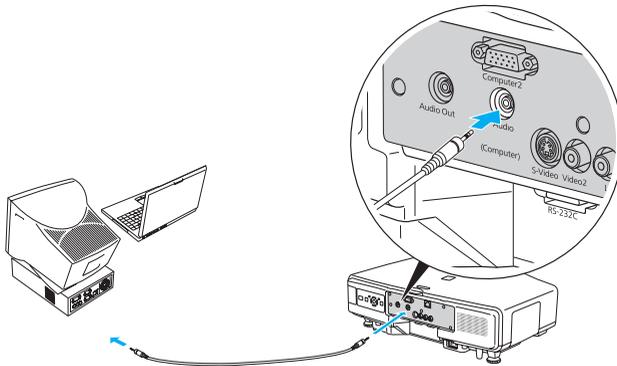
3. You may need to change the **Input Signal** setting in the projector's **Signal** menu to **RGB** (see page 51).
4. To play sound, you can connect an optional stereo mini-jack audio cable and optional external speakers (see page 21).
5. When you've finished making any connections, see page 24 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

Playing Sound

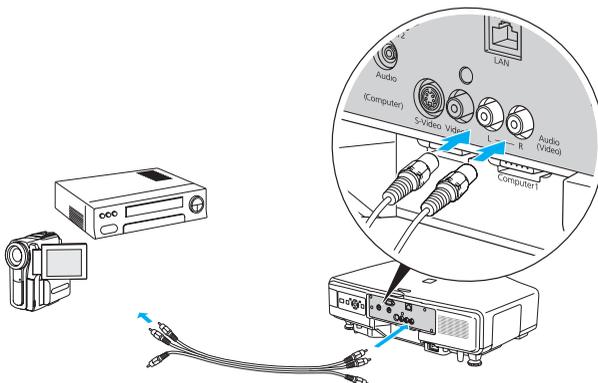
You can play sound by connecting external speakers with built-in amplifiers. You can use the remote control or the projector's menu system to adjust the volume.

Follow these steps to connect your equipment and external speakers to the projector:

1. Locate the appropriate cable and connect it to the audio port(s) on the projector.
 - If you have equipment connected to the **Computer1** or **Computer2** ports, use a stereo mini-jack cable. Connect the cable to the **Audio** port beneath the **Computer2** port.



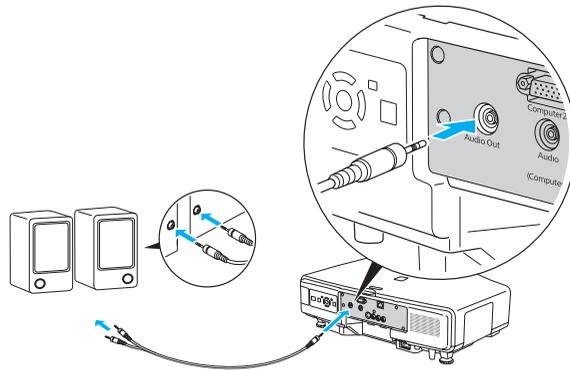
- If you have equipment connected to the **Video1**, **Video2**, or **S-Video** ports, connect an **RCA audio cable** to the **L** and **R Audio (Video)** ports.



2. Connect the other end of the cable to the audio output connector(s) on your computer or video equipment.
3. 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.

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

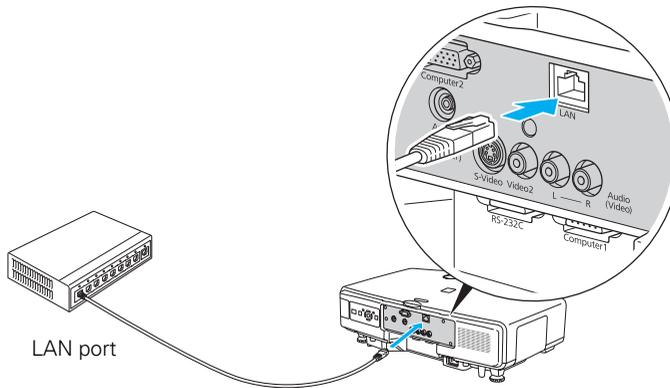


5. Connect the other end of the cable to your speakers.

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:

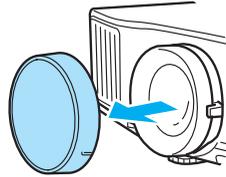


Turning the Projector On and Off

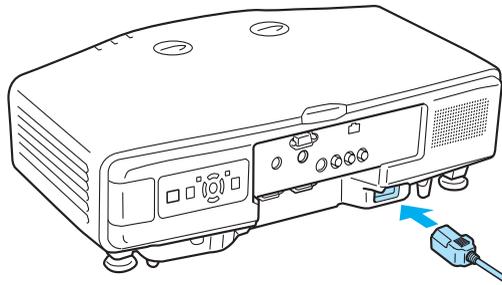
Turn on any connected computer or video equipment before starting the projector so it can automatically detect and display the image source. If you turn on the projector first, or have multiple pieces of connected equipment, you may have to select the image source manually (see page 28).

Follow these steps to turn on the projector:

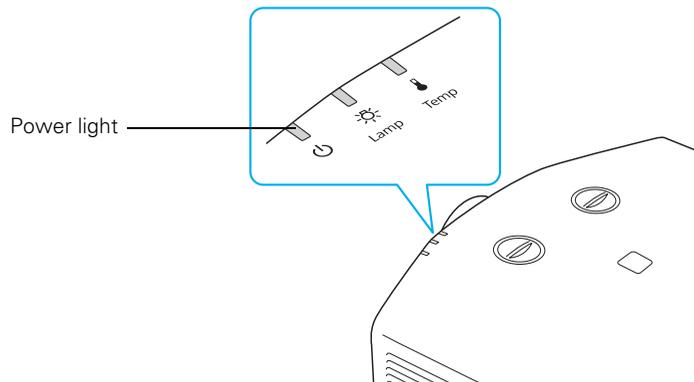
1. Remove the lens cover.



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



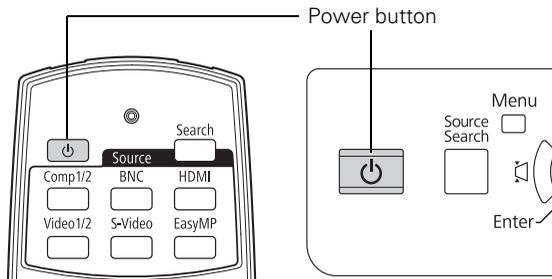
The  power light turns orange.



note

You can set the projector to automatically turn off the lamp and enter “sleep mode” when it has not received any signals for 10 minutes (see page 60 to enable, disable, or adjust this setting). 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.

3. Press the  power button on the remote control or on the back 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.

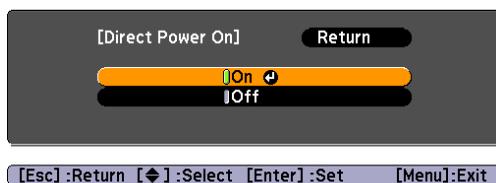
4. If you are prompted to enter a password, see page 55.

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, then select the **Extended** menu and press **Enter**.
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.

warning

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

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 depend upon the Brightness Control setting you've selected, environmental conditions, and usage.

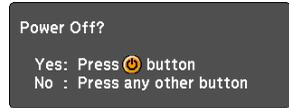
Turn off this product when not in use to prolong the life of the projector.

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 down 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 the projector beeps twice. 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.

2

Displaying and Adjusting the Image

Follow the guidelines in this chapter for:

- Displaying an image
- Troubleshooting display problems
- Adjusting the image

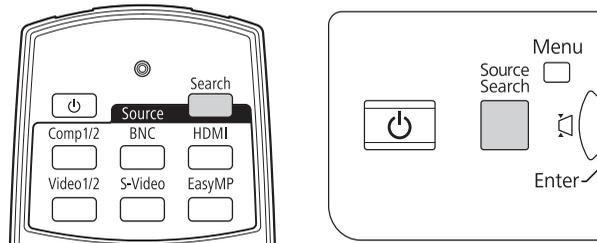
Displaying an Image

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.

note

The BNC, EasyMP, and HDMI buttons are not applicable to this projector.

If you don't see the image you want, press the **Search** button or one of the **Source** buttons 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.

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 11.
- Make sure the  power light is green and not flashing and the lens cover is removed.

- 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 the **Search** button 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, 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:

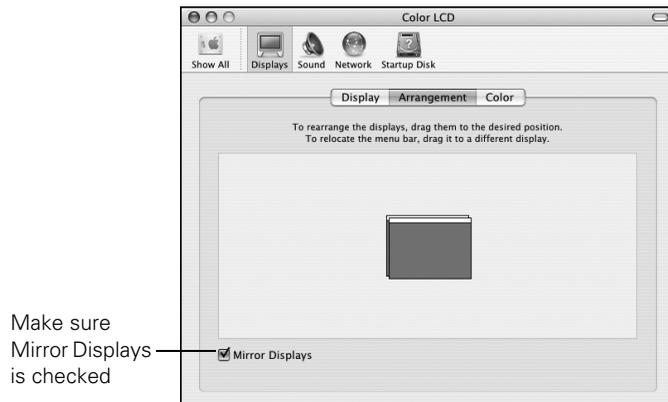
- On most systems, there's a function key that lets you toggle between the LCD screen and the projector, or display on both at the same time. It may be labeled **CRT/LCD** or have an icon such as . You may have to hold down the **Fn** key while pressing it. Allow a few seconds for the projector to sync 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**.
2. Select **Displays**, then click **Detect Displays**.
3. Make sure the **VGA Display** or **Color LCD** dialog box is selected.
4. Click the **Arrangement** or **Arrange** tab.



5. Make sure the **Mirror Displays** checkbox is selected.

Adjusting the Image

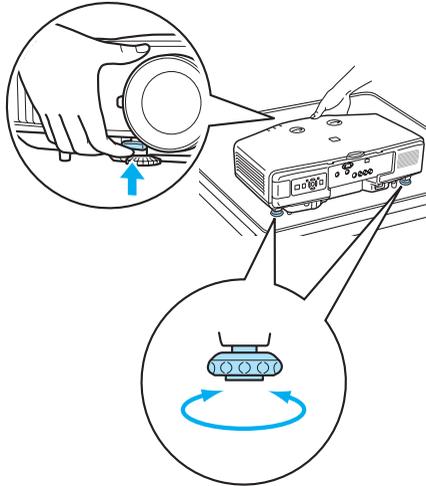
Once you see your image, you need to make certain adjustments:

- If the image is too high or too low, reposition it as described on page 31.
- To focus or zoom your image, see page 32.
- If the image isn't square, see page 33.
- To quickly adjust the color, brightness, or contrast, see page 35.
- To change the image aspect ratio, see page 36.
- If you need to fine-tune the image and/or sound, see Chapter 4.

Adjusting the Position of the Image

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

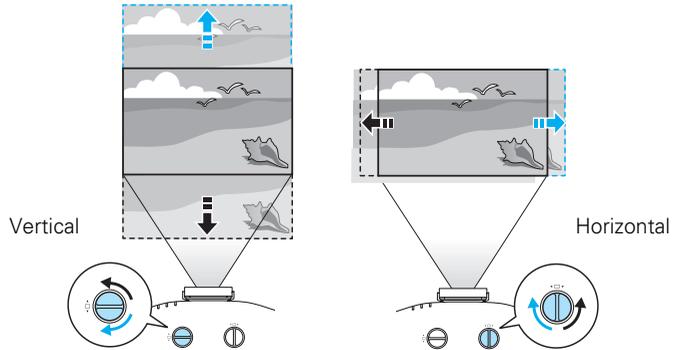
1. Stand behind the projector. Press the foot release lever up and lift the front of the projector.



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 shape to distort or “keystone,” but you can correct the shape as described on page 33.

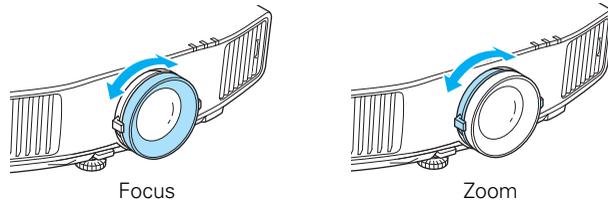
Additionally, you can use the vertical lens shift dial on the top of the projector to move your image up or down, or you can use the horizontal lens shift dial to move your image left or right.



Focusing and Zooming the Image

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

Turn the zoom ring (using the knobs on the ring) to reduce or enlarge the image.



If the image still isn't large enough, you may need to move the projector farther away from the screen. You can also use the E-Zoom buttons on the remote control to zoom in on a portion of the image. See page 40 for instructions.

Adjusting the Image Shape

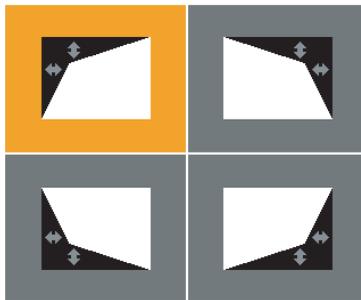
You can maintain a square or rectangular image by placing the projector directly in front of the screen and keeping it level. This also produces the best picture quality. If the projector is tilted up or placed at an angle, you'll need to correct the image shape by using one of the functions described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

Using Quick Corner

Use Quick Corner to adjust the shape and size of the image when it's uneven on all sides. Follow these steps to select **Quick Corner**:

1. Press the **Menu** button on the remote control or the projector.
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** twice.

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, then press **Esc** when you are finished.
7. Repeat steps 5 and 6 as needed to adjust the other corners.
8. When you're done, press **Menu** to exit.

Using Keystone Correction

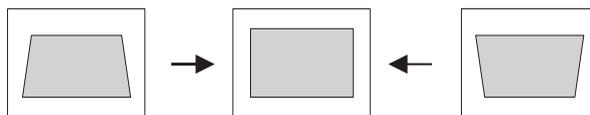
You can manually adjust the shape of the image to compensate for vertical and horizontal keystone distortion. First make sure the Keystone setting in the projector's menu system is set to **H-Keystone** or **V-Keystone**:

1. Press the **Menu** button on the remote control or projector.
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  pointer button on the remote control to adjust the shape of the image.

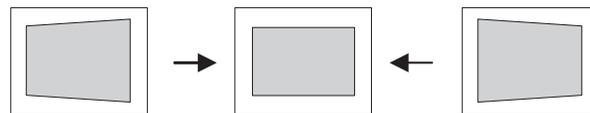
note

Use can also use the projector's arrow buttons to perform keystone correction as long as the projector's Keystone setting is set to H/V-Keystone.

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 49).

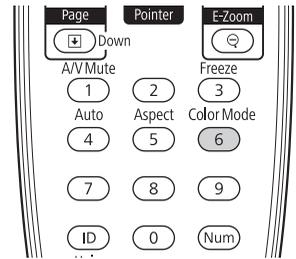
6. When you're done, press **Menu** to exit.

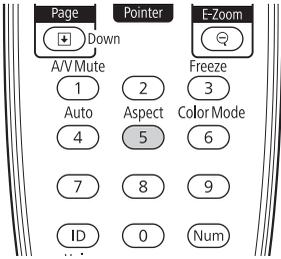
Selecting the Color Mode

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 (only available when the source is set to **Computer1** or **Computer2**).
- **Sports:** For vivid TV images projected in a bright room (component 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 49).
- **Game:** Increases brightness when playing video games or watching TV in a bright room. Emphasizes dark gradations.





Resizing Video Images

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

- **Normal** (for images sent through the **Computer1** or **Computer2** ports only): Displays images using the full projection area and maintains the aspect ratio of the image. Choose this setting to automatically resize the image and make the best use of the display area.
- **4:3**: Displays images using the full projection area at an aspect ratio of 4:3.
- **16:9**: Converts the aspect ratio of the image to 16:9. 4:3 ratio images are elongated horizontally to fit.
- **Through**: Displays images as is (aspect ratio and resolution are maintained). Black bands appear if the resolution is less than 1024 × 768; images are cut off if the resolution is over 1024 × 768.

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

You can also change the aspect ratio using the projector's Signal menu. See page 50 for details.

3

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 49 feet (15 meters) away.

You can use the remote control to adjust the picture and sound (page 38), as a pointer to highlight your presentation (page 41), or to control two or more projectors at the same time (page 43). If you have the optional wireless mouse receiver, you can also use your remote control as a wireless mouse when projecting from a computer (page 42).

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 battery power. When you release the button, normal operation resumes.

note

Using the remote under bright fluorescent lamps or in direct sunlight may affect projector response.

note

The BNC, EasyMP, and HDMI buttons are not applicable to this projector.

Using the Remote Control

Make sure batteries are installed as described on page 78. Follow these tips for using the remote control:

- Point the remote control at the front of the projector or at the screen.
- Stand within 49 feet (15 meters) of the projector.

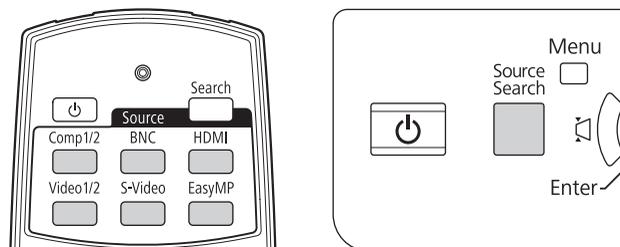
Controlling the Picture and Sound

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.

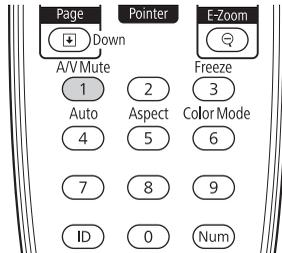


- On the remote control, you can press one of the **Source** buttons to select the connected device you need.

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 by pressing 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.

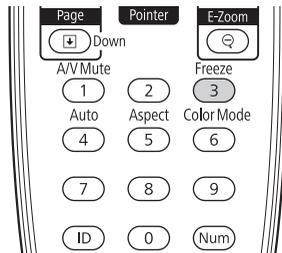


You can have the screen turn blue (using the Display setting as described on page 59) or display an image such as a company logo when you press the A/V Mute button. (See page 56 for more information on displaying an image.)

Stopping Action

Press the Freeze button on the remote control to stop the action in your video or computer image. The image freezes but the sound continues.

To restart the action, press the Freeze button again.

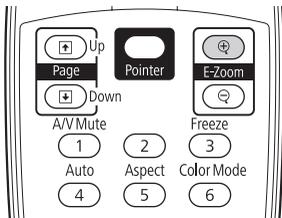


note

In order to play sound with this projector, you must connect optional external speakers (see page 21).

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.



Zooming Part of Your Image

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

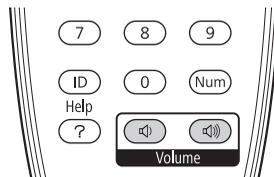
1. Press the E-Zoom  button on the remote control.
You see a crosshair indicating the center of the zoom-in area.
2. Use the  pointer button to position the crosshair.
3. Continue pressing the E-Zoom  button to enlarge the selected area up to 4 times.
4. While the image is enlarged, you can:
 - Use the  pointer button to move around the screen.
 - Press the E-Zoom  button to zoom out.
5. When done, press the ESC button to return the image to its original size.

note

You cannot use the Progressive or Noise Reduction features (see page 50) while you are using E-Zoom.

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 53.

note

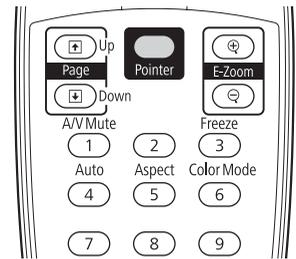
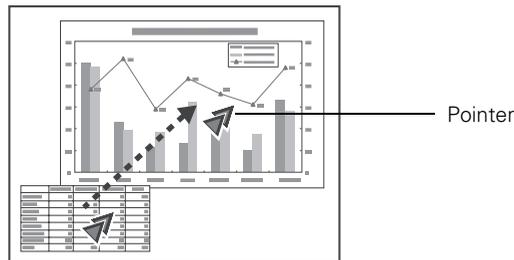
To temporarily shut off the sound and picture, press the A/V Mute button.

Highlighting Your Presentation

You can display a pointer to call out important information on the screen, and you can choose from three shapes for the pointer.

Using the Pointer Tool

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



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

2. Use the  pointer button on the remote control to position the pointer on the screen.
3. When you're done using the pointer, press the **Pointer** button to clear the screen.

Choosing a Different Pointer Shape

Follow these steps to select a different pointer shape:

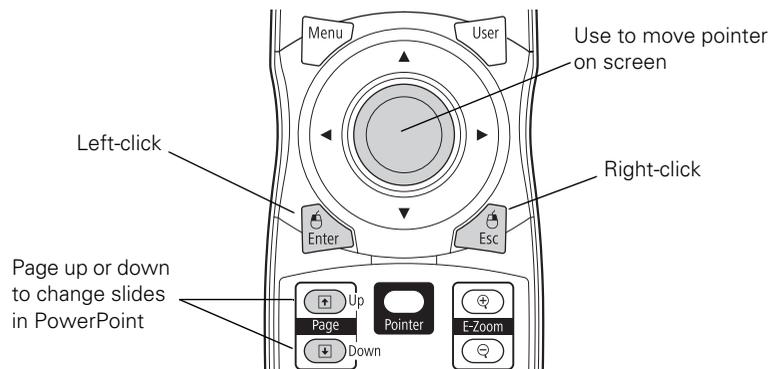
1. Press the **Menu** button on the remote control, highlight the **Settings** menu, highlight **Pointer Shape**, and press **Enter**. You can select one of the pointer shapes shown at the right.
2. Select the shape you want and press **Enter**.
3. Press **Menu** to exit.



Operating Your Computer With the Remote Control

With the optional wireless mouse receiver (see page 10), 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 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.

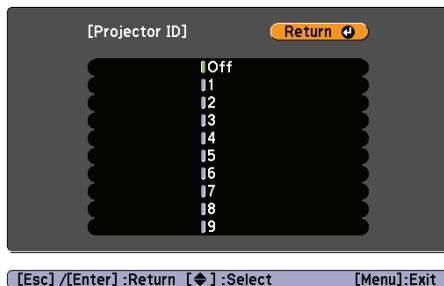
Operating Two or More Projectors With the Remote Control

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, 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.

Checking the Projector ID

You can check the projector's ID by following these steps:

1. Point the remote control at the projector you want to check.
2. While holding the ID button, press the Help button. You see a message on the screen like this:

Projector ID: 2

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.

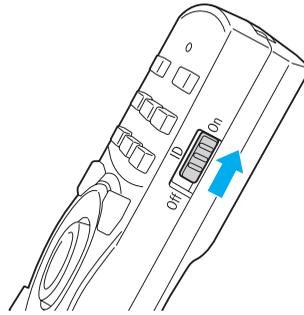
note

When the remote control ID switch is in the Off position, you can control any projector regardless of the projector or remote control ID settings.

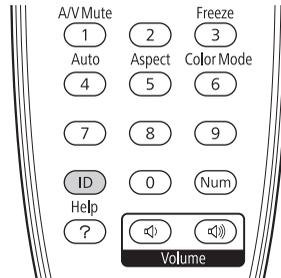
Setting the Remote Control ID

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. Move the remote control ID switch to the On position.



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.

4

Fine-Tuning the Projector

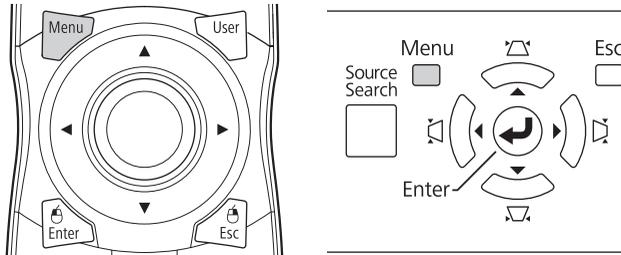
You can use the projector's on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

- 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
- Projector menu and options list

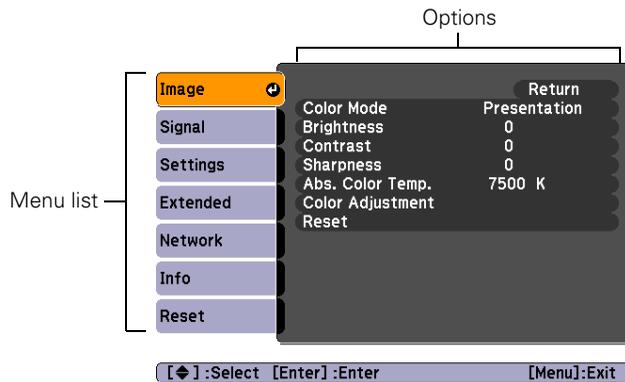
Using the Menu System

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:



note

For a complete list of menus and options, see page 62. For more information on these menus and options, continue reading this chapter.

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**.



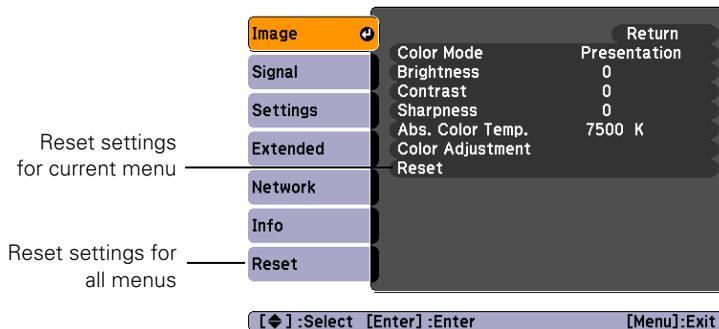
5. After changing the settings, press the **Esc** button to save your changes and return to the previous menu (or press it repeatedly to exit the menu system).

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, open that menu, 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 **Input Signal**, **User's Logo**, **Multi-screen**, **Language**, **Lamp Hours**, or **Network** settings.*

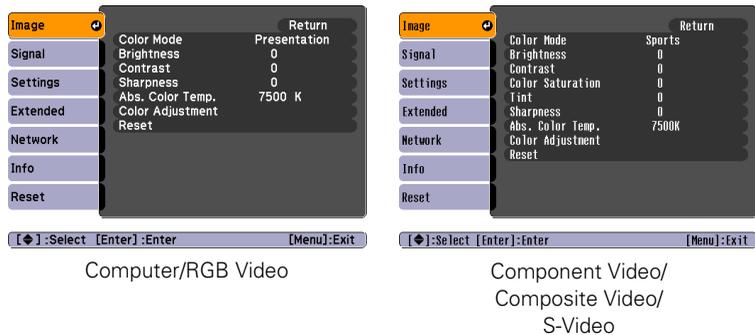
To restore all the projector settings to their factory-default values, select the **Reset** menu, highlight **Reset All**, and press **Enter**.

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



note

The available settings vary depending on the input source selected.

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**).*

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. See page 35 for more information on each color mode.
 - **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 **R, G, B, C, M, Y** to adjust individual red, green, blue, cyan, magenta, and yellow hue, saturation, and brightness values. For other color modes, **RGB** may be selected to adjust red, green, and blue saturation values. (Not available if sRGB is selected as the Color Mode setting.)

Six-Axis Color Adjustment

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

1. Follow the instructions on page 48 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, saturation, and brightness controls on the screen for six colors: **R, G, B, C, M, Y** (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, saturation, and brightness.

Hue changes the balance of color, and saturation changes the strength of the color.
5. Use the  pointer button to adjust the hue, saturation, and brightness. 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.

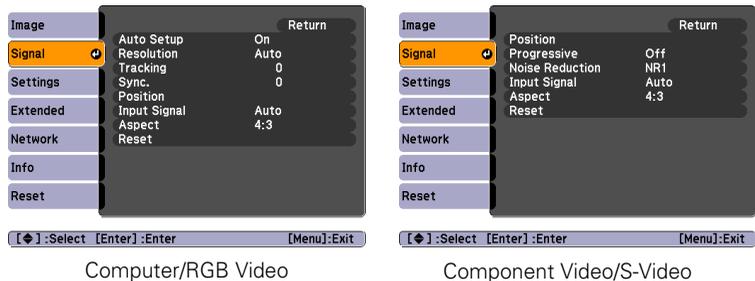
You may need to readjust the color as the lamp in your projector changes over time.

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.

- **Resolution**

Set to **Auto** to have the projector automatically identify the resolution of the input signal. If necessary (because some of the image is missing, for example), adjust to **Wide** or **Normal**. You can also select **Manual** and specify a resolution.

- **Tracking**

Adjust this value to eliminate vertical stripes in computer images.

- **Sync**

Adjust this value if computer images appear blurry or flicker.

- **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.

- **Progressive**

For composite video, S-video, and component video signals only. Turn this setting on to convert interlaced signals into progressive signals (best for still images). Select **Video** for viewing general video images. Select **Film/Auto** for movie images, CG, and animated images. Leave the setting **Off** for moving images.

- **Noise Reduction**

Smooths out rough images. Select your favorite setting. Epson recommends that you select **Off** when viewing image sources with very low noise, such as DVDs.

- **Input Signal**

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** ports. Choose **RGB** for a computer or RGB-video connection, and **Component** for a video player that outputs a component video signal (with connectors labeled Y/Cb/Cr or Y/Pb/Pr).

note

*You can also use the remote control's **Auto** button to automatically reset the projector's **Tracking**, **Sync**, and **Position** settings. See page 89 for details.*

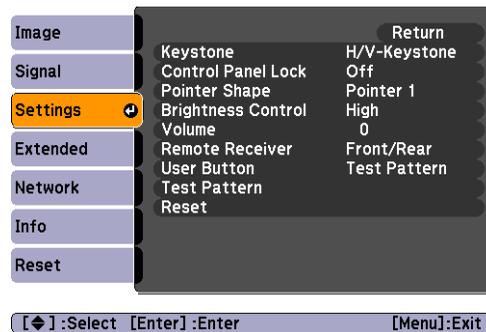
note

*The **Noise Reduction** setting cannot be set for digital RGB signals.*

- **Video Signal**
Select the setting for the type of equipment you've connected to the **Video1** or **Video2** ports. Leave this setting at **Auto** unless you are using a 60-Hz PAL system (then select **PAL60**).
- **Aspect**
Sets the image's aspect ratio (ratio of width to height). Depending on your projector model and input source, you can select **Normal**, **4:3**, **16:9**, or **Through**; see page 36 for more information.

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.

Select **Quick Corner** to adjust the shape and position of the projected image.

- **Control Panel Lock**
Lets you disable all of the buttons on the projector, or all of the buttons except the  power button. See page 58 for more information.
- **Pointer Shape**
Lets you choose from three pointer shapes. See page 41 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 if you have connected optional external speakers.
- **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.
- **User Button**
You can assign one of the following six menus to the **User** button: **Brightness Control**, **Info**, **Progressive**, **Test Pattern**, **Multi-screen**, or **Resolution**. By pressing the button, the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments.
- **Test Pattern**
Displays a test pattern for use when adjusting the zoom and focus, and when performing keystone correction.

note

You can also adjust the volume using the remote control.

Using the Projector Security Features

note

To prevent theft, you can also attach a security cable or Kensington security lock to the projector, and use the lens theft deterrent screw (see page 96).

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 **A/V 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 56.
- 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 58.

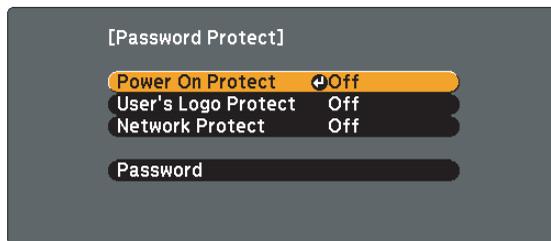
caution

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.

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**.

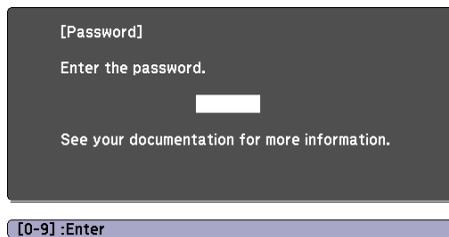
4. Hold down the **Num** button on the remote control and use the numeric keypad to enter a four digit password. (The default setting is 0000.)
5. When you see a confirmation message, reenter the password. Then press the **Menu** button to exit the screen.

To set security options, access the Password Protect screen as described on page 54, and then turn on any of the following options:

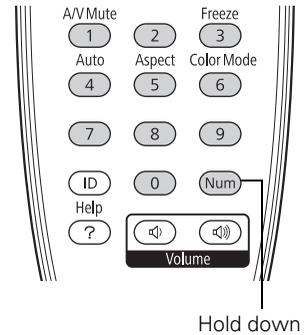
- **Power On Protect** to prevent unauthorized use of the projector. After the projector is plugged in and turned on, you must enter a password to use the projector. For details, see “Starting the Projector with a Password” below.
- **User’s Logo Protect** to prevent your custom screen and display settings 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 56.
- **Network Protect** to lock the Network settings in the menu system.

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:

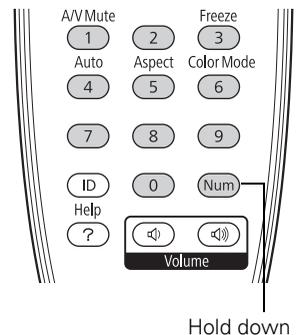


Hold down the **Num** button on the remote control and use the numeric keypad to enter the four digit password. The password screen closes and projection begins.



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 cord.



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 93.

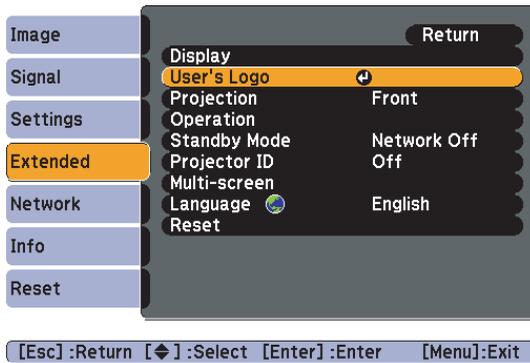
Creating Your Own Startup Screen

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 the message **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.

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. Once you have saved a new user's logo, you cannot return to the factory default logo.

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 39).

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 54).

Disabling the Projector's Buttons

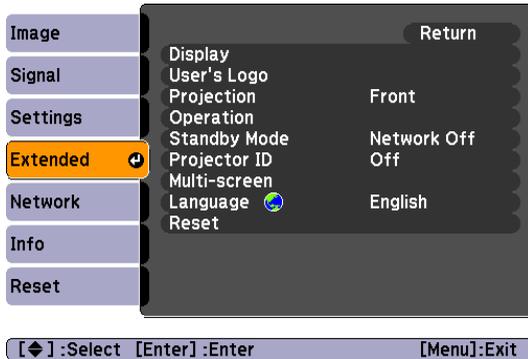
When you enable the **Control Panel Lock** function, you can lock all of the projector's buttons, or all of the buttons except the **⏻** power button. The remote control can still be used to operate the projector.

1. Press the **Menu** button, highlight the **Settings** menu, and press **Enter**.
2. Select **Control Panel 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 **Control Panel Lock** function, select **Off** in the **Control Panel 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.
- **Closed Caption**
Enables or disables closed captions. Select CC1, CC2, or OFF. The captions are not visible when the menu is displayed or when you use EMP Monitor to access the projector through your network.
- **User's Logo**
Create a custom startup screen, as described on page 56.
- **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).

note

If you hold down the A/V Mute button on the remote control for about five seconds, you switch between Front and Front/Ceiling or Rear and Rear/Ceiling.

note

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

Do not use the projector at altitudes above 7,500 feet (2,286 meters).

- **Operation**
Enable **Direct Power On** if you want to be able to start the projector when you connect the power cord (without pressing the **⏻** power button). Enable **Sleep Mode** if you want the projector to turn off automatically if it is idle (and no signal is received) for 10 minutes (you can adjust the amount of time using the **Sleep Mode Timer** setting). Enable **High Altitude Mode** when you are using the projector above 4,900 feet (1,500 meters).
- **Standby Mode**
Select **Network On** to enable monitoring of the projector over a network when it is in standby mode (the power light is orange).
- **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 43 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. 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 61 for more information about multi-screen color adjustment.
- **Language**
Select from 27 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. 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 43 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 48 for instructions.
2. Press the **Menu** button on the remote control. You see the projector's menu screen.
3. Press the **Menu** button, highlight the **Extended** menu, and press **Enter**.
4. Select **Multi-screen** and press **Enter**.
5. 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.
6. Next, adjust the brightness of **Level 5** for the same two projectors. Match the brighter projector to the darker one.
7. Adjust and match the brightness of **Levels 2, 3, and 4**.
8. Adjust and match the **G/R** color correction for all levels. Then adjust and match the **B/Y** correction for all levels.
9. If you are using three or more projectors, repeat steps 5 through 8 to match projector 3 to projector 2, then match projector 4 to projector 3, and so on.

caution

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.

Projector Menu and Options List

The table below summarizes the options you can select based on the projector menu you are viewing. Some options may not be available depending on the input source you are using.

For more information on these menus and options, read this chapter.

Menu	Options
Image	Color Mode Brightness Contrast Color Saturation Tint Sharpness Abs. Color Temp. Color Adjustment Reset
Signal	Auto Setup Resolution Tracking Sync. Position Progressive Noise Reduction Input Signal Video Signal Aspect Reset
Settings	Keystone Control Panel Lock Pointer Shape Brightness Control Volume Remote Receiver User Button Test Pattern Reset

Menu	Options
Extended	Display Closed Caption User's Logo Projection Operation Standby Mode Projector ID Multi-screen Language Reset
Network	Wired LAN PLink Password Web Control Password SNMP Mail AMX Device Discovery Projector Name Reset
Info	Lamp Hours Source Input Signal Resolution Video Signal Refresh Rate Sync Info Status
Reset	Reset All Reset Lamp Hours

5 *Managing Projectors*

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

First connect and configure each projector you want to monitor. You can connect the projector over a wired network as described in this chapter.

Once you've connected the projectors to the network, you can use any of these tools to manage your projectors:

- Use EMP Monitor (available for Windows® only) to see your projectors' status, switch image sources, turn projectors on and off, control basic settings, and register projectors and projector groups. See the *EMP Monitor Operation Guide* for more information.
- Use the mail notification function to receive e-mail alerts about possible problems. See page 67 for more information.

This chapter covers the following information:

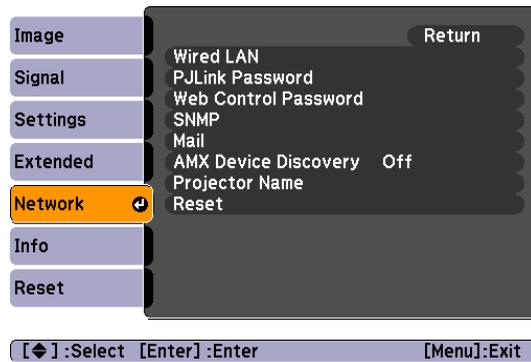
- Connecting your projector to a wired network
- Using e-mail alerts to warn you of problems

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 23.
2. Turn on the projector.

3. Press the **Menu** button on the remote control, select the **Network** menu, 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.

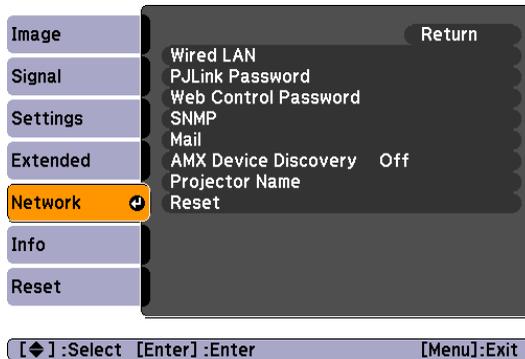
4. Choose **Wired LAN** and press **Enter**.
5. Do one of the following:
 - If your network assigns addresses automatically, turn on the **DHCP** setting.
 - If your network does not assign addresses automatically, turn off **DHCP** and enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address**.

To enter numbers, use the  pointer button on the remote control to highlight the number you want to input, then press **Enter**.
6. When you're done making all necessary changes, select **Return**, **Setup complete**, and then **Yes** to confirm that you want to save the changes. Press **Menu** to exit.

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**. You see the following screen:



2. Choose **Mail**, then press **Enter**.
3. Highlight **On** to receive e-mail notifications, then press **Enter**.
4. 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).

5. Enter the SMTP server's port number. The default value is 25. You can enter a numeric value from 1 to 65535.
6. 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.

note

You can also set e-mail alerts from EMP Monitor (see the EMP Monitor Operation Guide for more information).

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).

7. Select problems or warnings to be notified about by e-mail. (Numbers 1 through 3 in this section correspond to the e-mail addresses you entered.)
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.

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

6

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
- Replacing the air filter
- Replacing the lamp
- Replacing the remote control batteries
- Transporting the projector

caution

Do not rub the lens with harsh materials or subject the lens to shocks, as it can easily become damaged.

caution

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

note

To order replacement air filters, request part number V13H134A17. See page 10 for ordering information.

Cleaning the Lens

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

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.

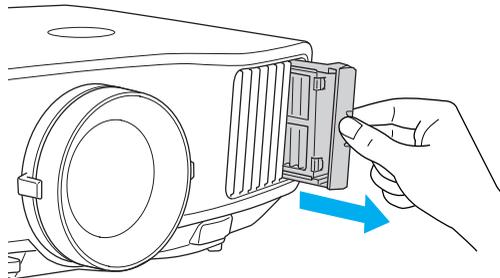
- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent and firmly wring the cloth dry. Then wipe the case.

Cleaning the Air Filter

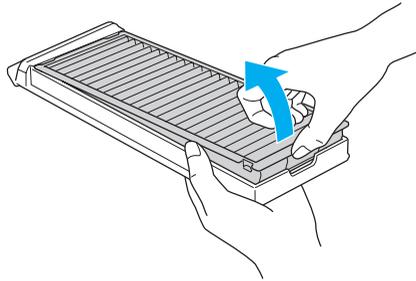
Your projector includes an air filter to ensure the best performance. If dust collects on the air filter (on the side of the projector), clean it as described below. Dust clogs prevent proper ventilation and can cause overheating, which can damage the projector.

Follow these steps:

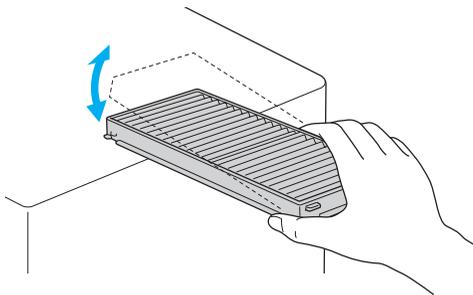
1. Turn off the projector and unplug the power cord.
2. Grip the air filter cover tab and remove the air filter cover as shown.



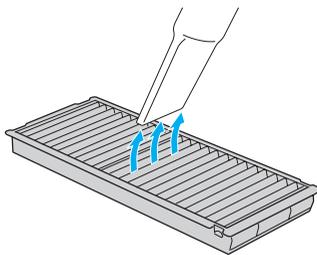
3. Place your finger into the groove and remove the air filter as shown.



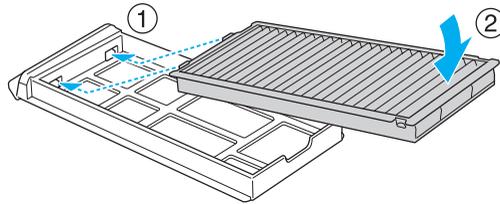
4. With the front of the air filter facing down, tap it four or five times to shake off the dust. Turn it over and tap the other side in the same way to shake off the dust.



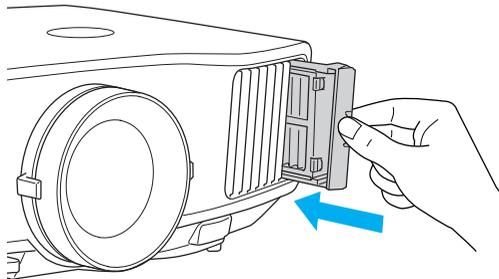
5. To clean any dust remaining on the air filter, use a small vacuum cleaner designed for computers and other office equipment to clean the front. If you don't have one, gently clean the vent with a soft brush (such as an artist's paintbrush).



6. Insert the air filter back into the holes in the cover, then press it firmly into place.



7. Slide the air filter cover in until you feel resistance.

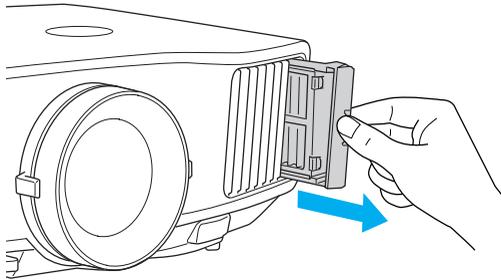


8. If the dirt is difficult to remove or the filter is broken, replace the filter as described on page 73. Contact your dealer or call Epson at 800-GO-EPSON (800-463-7766) to obtain a new filter.

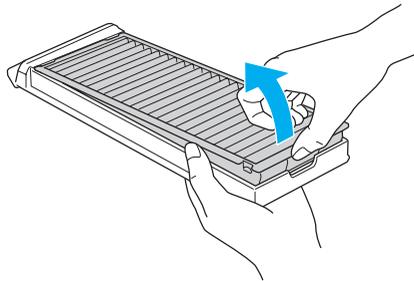
Replacing the Air Filter

Follow these steps to replace the air filter:

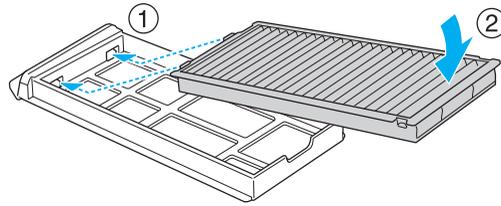
1. Grip the air filter cover tab and remove the air filter cover as shown.



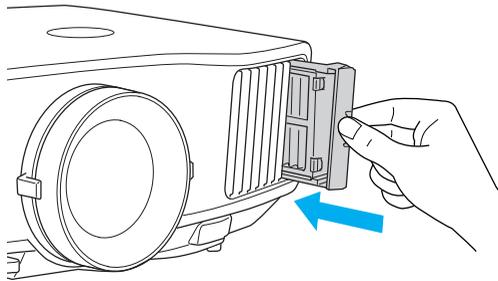
2. Place your finger into the groove and remove the air filter as shown.



3. Insert the new air filter into the holes in the cover, then press it firmly into place.



4. Slide the air filter cover in until you feel resistance.



note

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

Replacing the Lamp

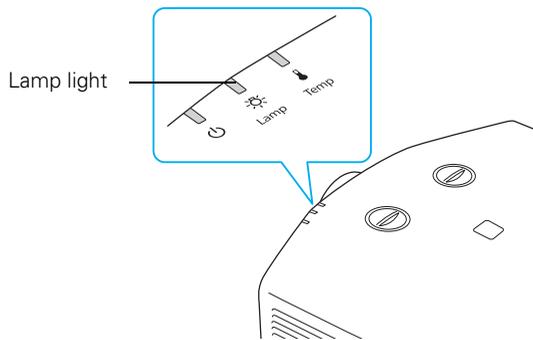
The life span of the projection lamp is about 2000 hours if **Brightness Control** in the Settings menu is set to **High** (default), and 3000 hours if **Brightness Control** is set to **Low**.

See page 78 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** light flashes orange. To maintain projector brightness and image quality, replace the lamp as soon as possible.

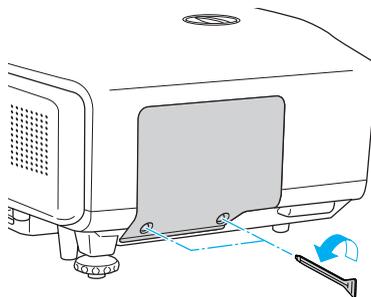
You may also need to replace the lamp if the  Lamp light flashes red. See page 83.



Contact your dealer or call Epson at 800-GO-EPSON (800-463-7766). Request part number V13H010L47.

Follow these steps to replace the lamp:

1. Turn off the projector and, after the projector beeps twice, 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 screws (you don't need to remove them). Then remove the lamp cover.



warning

Let the lamp cool fully before replacing it.

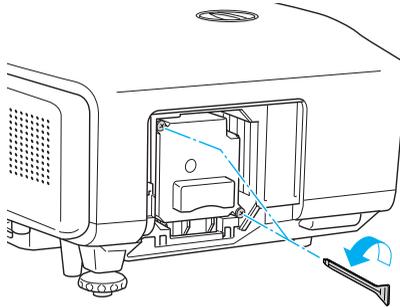
In the unlikely event that the lamp has broken, small glass fragments may be present and should be removed carefully to avoid injury. If the projector has been installed on the ceiling, you should stand to the side of the lamp cover, not underneath it.

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

Even when the lamp cover is removed, it is still attached to the projector to prevent it from falling when the projector is mounted on the ceiling.

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

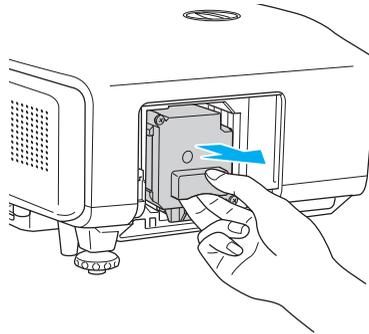


Loosen, but don't remove these screws

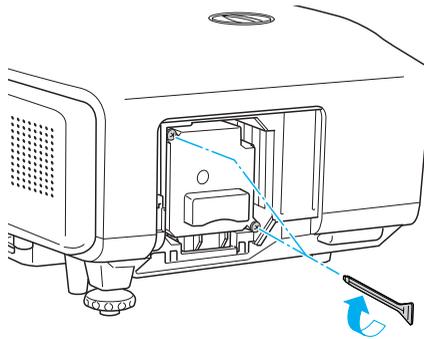
note

Ⓜ 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.



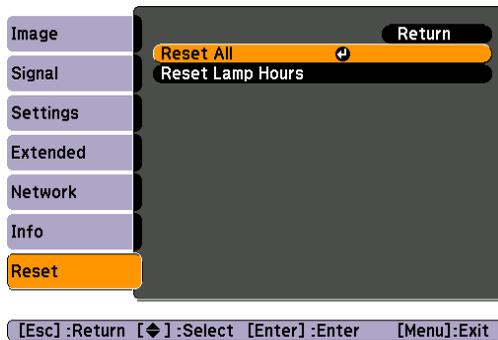
8. Replace the lamp cover, then tighten its screws.
9. Reset the lamp timer as described in the next section.

Resetting the Lamp Timer

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

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

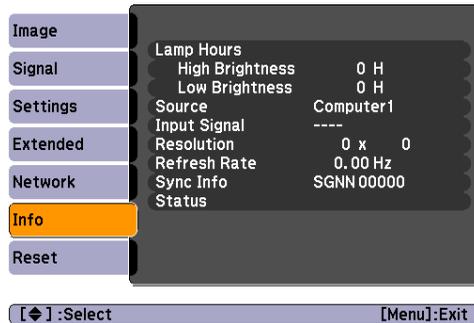
You see this screen:



3. Select **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.

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.

caution

When replacing batteries, take the following precautions:

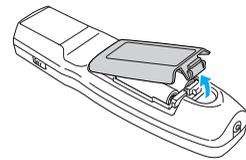
- Replace the batteries as soon as they run out. If the batteries leak, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash them immediately.
- Do not expose batteries to heat or flame.
- Dispose of used batteries according to local regulations.
- Do not use batteries other than those specified in this User's Guide and do not use batteries of different types or mix old and new batteries.
- Keep these batteries out of the reach of children. Batteries are choking hazards and are very dangerous if swallowed.

The life span of the lamp is about 2000 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.

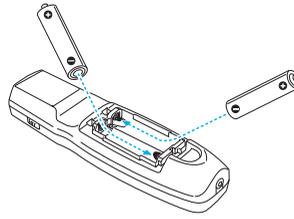
Replacing the Batteries

Replace the batteries in the remote control as described below:

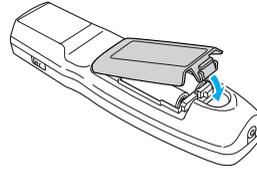
1. Turn the remote control over.
2. Press down on the tab on the battery cover as you lift the cover off.



3. Install two AA alkaline batteries, inserting the + and – ends as shown.



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



Transporting the Projector

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

- When shipping the projector for repairs, use the original packaging material if possible, including the protective lens pads. 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.
- Attach the lens cover to the lens.
- Return the projector feet to their stored (highest) positions.
- Turn the vertical lens shift dial so that the lens is in its lowest position.

note

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

7

Solving Problems

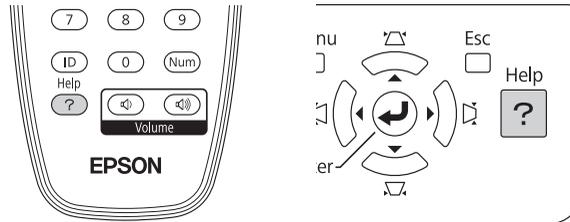
This chapter helps you solve problems with your projector, and tells you how to contact technical support for problems you can't solve yourself. The following information is included:

- 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 problems with the remote control
- Contacting technical support

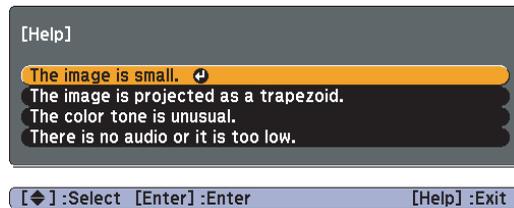
Using On-Screen Help

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

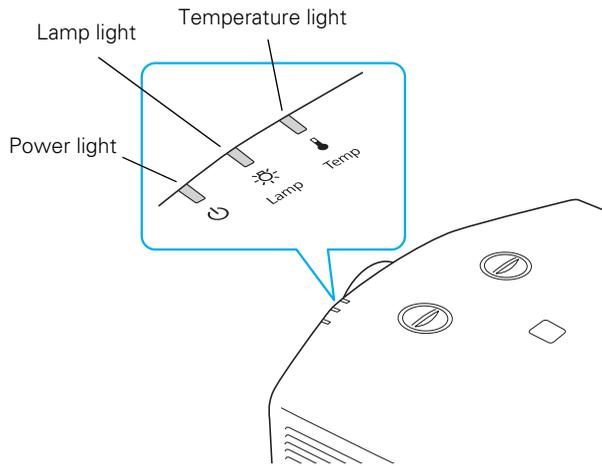
If none of the suggestions solve your problem, see additional solutions to problems in the following sections.

Checking Projector Status

If your projector isn't working correctly, first turn it off 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 (and you should not unplug it) until the light stops flashing and remains orange. The projector is setting itself up for network monitoring.
	Red or flashing red	There is a problem with the projector. Check the other two lights and the information on page 84 to diagnose the problem.

Status lights (continued)

Light	Status	Description
	Flashing orange	It's time to replace the lamp. See page 74 for instructions. If you continue to use the lamp after the replacement warning, there is an increased possibility that the lamp may break.
	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 projector switches to standby mode (about 5 minutes). 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>The air filter may be clogged. Clean or replace the air filter as described on pages 70 to 74.</p> <p>If you're using the projector above an altitude of 4,900 feet (1,500 meters), turn on High Altitude Mode in the Operation menu (see page 60).</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 93.</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	Power is cut off because of an internal problem. Unplug the power cord and contact Epson for help, as described on page 93.
	Flashing red	There is a problem with the fan or temperature sensor. Stop using the projector, disconnect the power cord, and contact Epson as described on page 93.
	Flashing red	<p>The lamp may be burnt out. First make sure the lamp cover is securely installed. If that's not the problem, the air filter may be clogged. Clean or replace the air filter as described on pages 70 to 74.</p> <p>If this does not resolve the problem, let the lamp cool and then remove it. If the lamp is cracked, replace it as described on page 74. If the lamp is not cracked, reinstall it. If reinstalling doesn't work, replace the lamp.</p> <p>If you're using the projector above an altitude of 4,900 feet (1,500 meters), turn on High Altitude Mode in the Operation menu (see page 60).</p> <p>If none of these suggestions resolves the problem, contact Epson as described on page 93.</p>

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 cord is connected to the projector and plugged into a working electrical outlet.
- The power cord may be defective. Disconnect the cord from the outlet and contact Epson as described on page 93.
- If the Direct Power On function is enabled and you immediately plug the power cord back in after unplugging it, the power may not turn back on. Press the ⏻ power button to turn the projector back on.

The buttons on the projector don't work.

If the Control Panel Lock function has been enabled, you can't use the buttons on the projector. Try using the remote control instead (make sure it is set to the correct ID). See page 58 for information about the Control Panel 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.

- 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.
- If you are projecting from a video source, make sure the Video Signal setting is correct (see page 50).
- You can also try resetting all of the configuration menu settings. See page 47.

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 15.
- 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.
- Make sure the power for your connected equipment is turned on.

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.

If you connect the notebook while the projector or computer are already turned on, the function **Fn** key that changes the computer's image signal to external output may not work. Turn the computer and the projector off and then back on.

- 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.

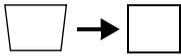
The message Not Supported is displayed.

- Make sure the correct input signal is selected in the Signal menu (see page 50).
- Make sure your computer's resolution and frequency or refresh rate is supported by the projector (see page 101). If necessary, change your computer's settings.

Only part of the computer image is displayed.

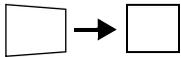
- Press the Auto button on the remote control or the Enter button on the projector.
- Make sure the image Position setting is correct in the Signal menu. See page 51 for more information.
- Press the Aspect button on the remote control.
- Press the Esc button on the remote control to cancel the E-Zoom function.
- Make sure your computer's resolution setting is correct. See the compatible video formats listed on page 101.

- You also may need to modify existing presentation files if you created them for a different resolution. See your software documentation for specific information.
- If you're projecting a wide panel computer image, adjust the **Resolution** setting (see page 50).
- If you're projecting an image from a computer with dual display activated, turn dual display off.



The image isn't square, but keystone-shaped.

If the image isn't square or rectangular, adjust its shape as described on page 33.



The image contains static or noise.

- If you're using a computer cable longer than 6 feet (1.8 meters), or an extension cable, the image quality may be reduced.
- Keep your computer and video cables away from the power cord as much as possible to prevent interference.
- The video signal may be split between the computer and the projector. If you notice a decline in the projected image quality when the image is displayed simultaneously on your 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 51).
- If you've used the Quick Corner or Keystone adjustment, you may need to decrease the **Sharpness** setting in the Image menu (see page 49).
- If you're projecting from a computer, make sure its signal is compatible with the projector. See page 101.

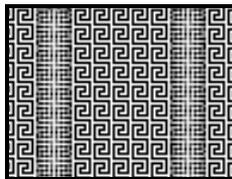
The image is blurry.

- There may be dirt or smears on the lens. Clean the lens as described on page 70.
- Adjust the focus using the focus ring (see page 32).

- 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.
- Lower the projection angle to reduce the amount of keystone correction required.
- Make sure the projector is within the proper range (projection distance) from the screen (see page 99).
- 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 settings as described in the next section.

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

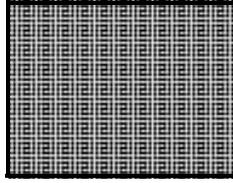
- If you're projecting from a computer and displaying an image that contains a lot of fine detail, you may notice vertical bands or some of the characters may look heavy or blurred. Press the **Auto** button on the remote control or the **Enter** button on the projector to reset the projector's Tracking, 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 51.
 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.



note

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

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



note

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

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

- Use the **Color Mode** option in the projector's Image menu to adjust the color (see page 48).
- 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.
- Try adjusting the **Brightness** and **Contrast** settings on the Image menu.
- Try adjusting the **Brightness Control** setting (see page 52).
- Check your computer display settings to correct the color balance.
- The projector's lamp may need to be replaced. See page 74 for instructions.
- Make sure the correct input signal is selected in the Signal menu (see page 51).
- Make sure that all cables are connected to the proper ports and connected securely.

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

- In order to play sound, you must connect optional external speakers (see page 21).
- Use the **Volume** buttons on the remote control to adjust the volume, or adjust the **Volume** setting in the Settings menu (see page 53).
- Make sure **A/V Mute** is not enabled. (The **A/V Mute** button may have been pressed.)

- 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 21.
- 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 **Audio** port (beneath the Computer2 port) when the computer's video cable is connected to the Computer1 or Computer2 ports.

Solving Network Problems

The projector does not send e-mail alerts even though the e-mail notification function has been turned on.

- Make sure the mail notification function is set correctly in the configuration menu. See page 67.
- Set Standby Mode to **Network On** in the Extended menu. Otherwise, the projector cannot send e-mails when it is in Standby mode (when the power is off).
- 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.
- Make sure the projector is plugged in.
- Make sure the LAN cable is connected correctly. Reconnect it if it is not connected or it is not connected correctly (see page 23).

For problems with EMP Monitor, see the *EMP Monitor Operation Guide*.

Solving Problems With the Remote Control

The projector doesn't respond to remote control commands.

- Point the remote control towards the receiver.
- Make sure the projector and remote control IDs match. To operate all projectors by remote control regardless of ID settings, set the ID switch on the side of the remote control to **Off**.
- The remote control's batteries may not be installed correctly or may be low on power. To change the batteries, see page 78.
- Make sure you are within about 49 feet (15 meters) of the projector and within range of the projector's front or back sensor.
- 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 53).
- Make sure the **Remote Receiver** setting isn't disabling both of the projector's sensors (see page 53).
- 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.
- When the optional remote control cable is connected, the remote control light-emitting area and the projector's remote receiver are disabled. If you're not using the cable, make sure it is disconnected from both the remote control and the projector.

Where To Get Help

Epson provides these technical support services:

Internet Support

Visit Epson's support website for solutions to common problems with the **PowerLite G5000**. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

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

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

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

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

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

- Product name (PowerLite G5000)
- 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

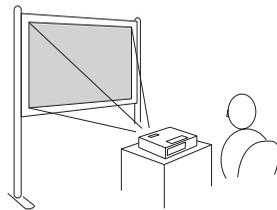
You can purchase screens and other accessories from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epson.ca (Canadian sales).

A *Projector Installation*

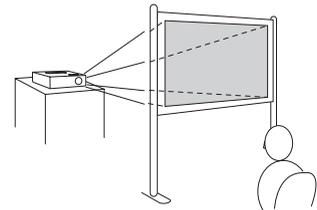
This appendix provides guidelines on installing the projector in a permanent location, such as a theater or conference room.

Installation Guidelines

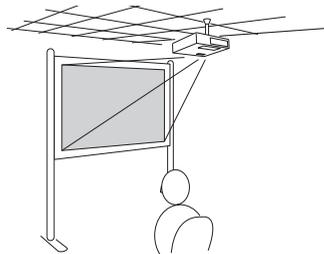
The projector can be installed for four different viewing setups: front projection, ceiling projection, rear projection onto a semi-transparent screen, or rear/ceiling projection, as shown:



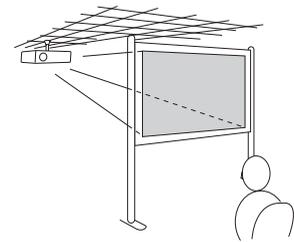
Front projection



Rear projection



Ceiling projection



Rear/ceiling projection

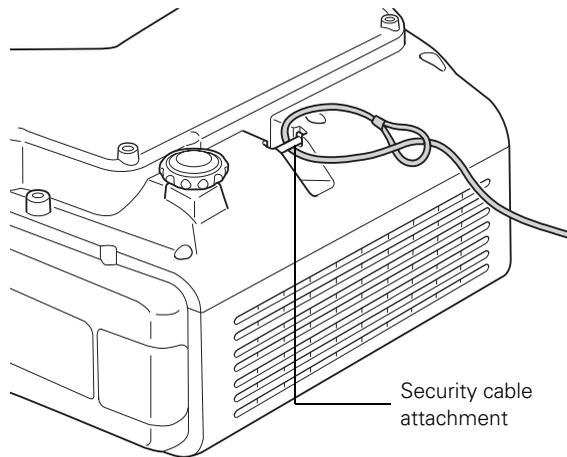
To project from overhead, you'll need the optional ceiling mounting hardware (see page 10). You'll also need to select the appropriate **Projection** setting in the projector's Extended menu to flip the image upside-down (see page 59).

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 Corner** and/or **Keystone** functions, as described on page 33.

Security Features

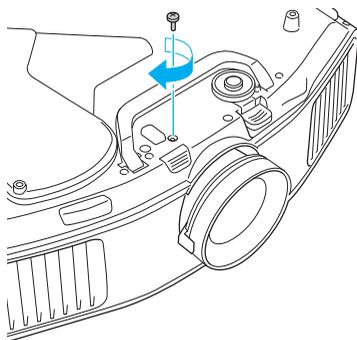
The projector includes security features to prevent its theft when installed or used in public locations:

- **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 (located above the power inlet) is compatible with the MicroSaver security systems manufactured by Kensington. You can purchase this lock from Epson (see page 10).

- **Lens theft deterrent screw.** You can lock the lens with the supplied screw, so that the lens cannot be removed.



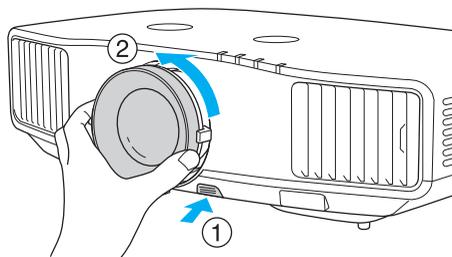
In addition, the projector includes several menu-operated security features (see page 54).

Installing and Removing the Lens

See the following sections for instructions on removing and installing the lens.

Removing the Lens

1. Turn off the projector and unplug the power cord.
2. If you've attached the lens theft deterrent screw, remove it (see the previous section).
3. Hold down the lens removal button and turn the lens counterclockwise until you hear it click.



4. Remove the lens by pulling it straight out.

note

You do not need to remove the lens when you transport the projector. For transportation instructions, see page 79.

caution

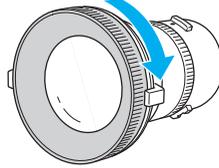
Only install or remove the lens when necessary. If dust enters the projector, projection quality may deteriorate and/or the projector may malfunction.

Do not install or remove the lens when the projector's lens insertion section is facing up. Dust could enter the projector.

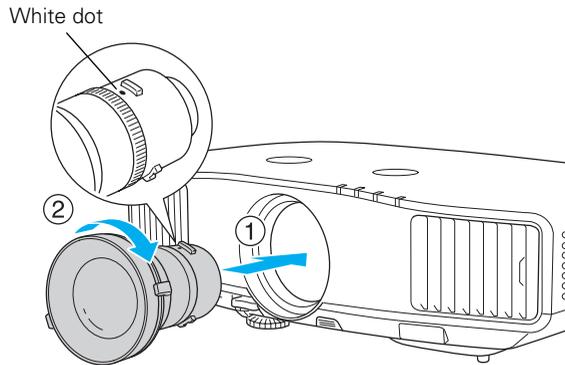
Do not touch the lens with your hand or fingers. If fingerprints or oils are left on the surface of the lens, projection quality will deteriorate.

Installing the Lens

1. Turn off the projector and unplug the power cord.
2. Turn the focus ring clockwise until it stops moving.



3. Make sure the white dot on the lens is facing up. Insert the lens straight into the projector, then turn clockwise until you hear it click into place.



4. If necessary, attach the lens theft deterrent screw (see page 97).

B *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	High mode: White light output 4000 lumens (ISO 21118 standard) Color light output 4000 lumens Low mode: White light output 3200 lumens (ISO 21118 standard) Color light output 3200 lumens
Contrast ratio	1000:1
Image size	30 to 300 inches (76.2 to 762 centimeters)
Projection distance	2.7 to 47.8 feet (0.8 to 14.6 meters)
Projection methods	Front, rear, upside-down (ceiling mount)
Optical aspect ratio	4:3 (horizontal:vertical)
Zoom ratio	1:1.8
Noise level	29 dB in Low Brightness mode 35 dB in High Brightness mode
Keystone correction	±40° vertical, ±20° horizontal
Mouse compatibility	Requires optional Wireless IR Mouse Receiver (part number V12H007T16)

note

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

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. 2000 hours (High Brightness mode) Approx. 3000 hours (Low Brightness mode)
Part number	V13H010L47

Remote Control

Range	49.2 feet (15 meters)
Batteries (2)	Alkaline AA

Dimensions

Height	5.3 inches (135 mm), feet retracted
Width	18.5 inches (470 mm)
Depth	13.3 inches (336.8 mm), without lens
Weight	14.5 lb (6.6 kg)

Electrical

Rated frequency	50/60 Hz AC
Power supply	100/240 VAC, 3.8A/1.7 A
Power consumption	Operating: 100 to 120 VAC, 343 W 220 to 240 VAC, 327 W Standby: 100 to 120 VAC, 0.4 W (network off) 10 W (network on) 220 to 240 VAC, 0.6 W (network off) 12 W (network on)

Environmental

Temperature	Operating: 32 to 104 °F (0 to 40 °C) 32 to 95 °F (0 to 35 °C) (over 1,500 m/4,921 ft, with High Altitude Mode and High Brightness mode active) Storage: 14 to 140 °F (–10 to 60 °C)
Humidity (non-condensing)	Operating: 20 to 80% RH
Operating altitude	0 to 9,843 feet (0 to 3,000 meters) (over 4,921 feet/1,500 meters, with High Altitude Mode active)

Safety and Approvals

United States	FCC 47CFR Part 15B Class B (DoC) UL60950-1 First Edition (cTUVus Mark)
Canada	ICES-003 Class B CSA C22.2 No. 60950-1
CE Marking	EMC Directive (2004/108/EC) IEC 60950-1 First edition



Pixelworks™ DNX™ ICs are used in this projector.

Compatible Video Formats

The projector supports the high definition video and computer display formats listed beginning on page 102, 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. 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
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
XGA—60*	60	1024 × 768
XGA—70*	70	1024 × 768
XGA—75*	75	1024 × 768
XGA—85*	85	1024 × 768
SXGA1—70*	70	1152 × 864
SXGA1—75*	75	1152 × 864
SXGA1—85*	85	1152 × 864
WXGA—60	60	1280 × 800
WXGA—75*	75	1280 × 800
WXGA—85*	85	1280 × 800
SXGA2—60	60	1280 × 960
SXGA2—75*	75	1280 × 960
SXGA2—85*	85	1280 × 960
SXGA3—60	60	1280 × 1024
SXGA3—75*	75	1280 × 1024
SXGA3—85*	85	1280 × 1024
WXGA1—60*	60	1280 × 768
WXGA2—60*	60	1360 × 768
WXGA+60**	60	1440 × 900
WXGA+75**	75	1440 × 900
WXGA+85**	85	1440 × 900
SXGA+60	60	1400 × 1050
SXGA+75*	75	1400 × 1050
SXGA+85*	85	1400 × 1050
UXGA—60	60	1600 × 1200

Compatible video formats (continued)

Mode	Refresh Rate (Hz)	Resolution
iMAC VGA**	117	640 × 480
iMAC SVGA**	95	800 × 600
iMAC XGA**	75	1024 × 768
MAC13*	67	640 × 480
MAC16*	75	832 × 624
MAC19*	75	1024 × 768
MAC19-60*	59	1024 × 768
MAC21*	75	1152 × 870
NTSC	60	—
NTSC 4:43	60	—
PAL	50	—
N-PAL	50	—
M-PAL	60	—
PAL—60	60	—
SECAM	50	—
TV525i (480i)	60	—
TV625i (576i)	50	—
SDTV525p (480p)	60	—
SDTV625p (576p)	50	—
HDTV750p (720p)	60	—
HDTV750p (720p)	50	—
HDTV1125i (1080i)	60	—
HDTV1125i (1080i)	50	—
HDTV1125p (1080p)	60	—
HDTV1125p (1080p)	50	—

*Analog only

** Analog only, iMac must have a VGA output port

C

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 99).
- If the projector is mounted on a ceiling, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- If you use a ceiling mount and apply adhesives to the mount to prevent the screws from loosening, or if you use lubricants or oils on the projector, the projector case may crack and the projector may fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector. When installing or adjusting a ceiling mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants.
- 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 dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners.
- 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. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the air exhaust vent.
- 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 store the projector outdoors for an extended length of time.
- Do not use the projector outside the required temperature range of 32 to 104 °F (0 to 40 °C). Doing so may cause an unstable display and could lead to projector damage.
- Do not store the projector outside the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Unplug the projector when it will not be used for extended periods.
- 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.
- Never open any covers on the projector except as specifically explained in this *User's Guide*. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.

- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- 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. Do not insert the plug into a dusty outlet. 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 pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Failure to comply with these precautions could result in fire or electric shock.
- Do not place the projector where the cord can be walked on.
-  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.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- Do not project images while the detachable lens cover is still attached. Heat may cause the lens cover to melt, and if you touch the lens cover you could get burned.
- Never try to remove the lamp immediately after use because it will be extremely hot. Before removing the lamp, turn off the power and wait at least an hour to allow the lamp to cool completely.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.
- If the lamp breaks, ventilate the room to prevent gases contained in the lamp from being inhaled or coming in contact with 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.* (This notice is provided in accordance with Proposition 65 in Cal. Health & Safety Code § 25249.5 and following.)

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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