

EPSON®



M M PROJECTOR
ULTI EDIA

EMP-7350/7250/5350™

Owner's Manual

Important Information

Please read the following important information about your projector.

Important Safety Information

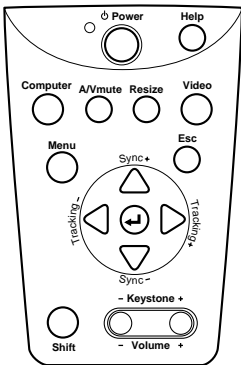
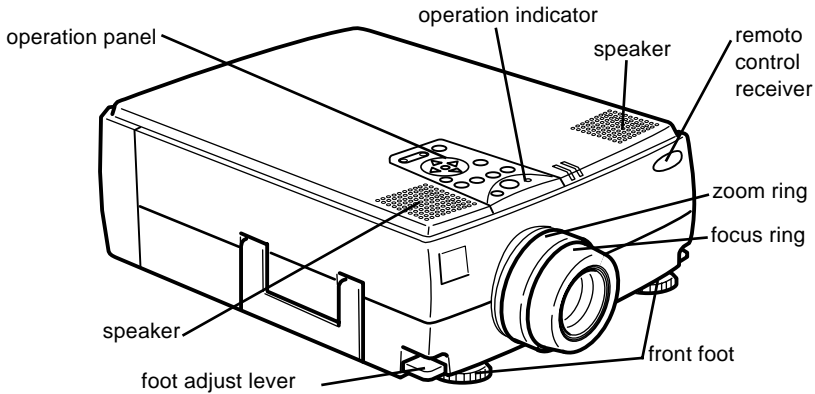
Warning: *Never look into the projector lens when the lamp is switched on as the bright light can damage your eyes. Never let children look into the lens when it is on.*

Warning: *Never open any covers on the projector except the lamp and filter covers. Dangerous electrical voltages inside the projector can cause severe injury. Except as specifically directed in this Owner's Manual, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.*

Warning: *Keep the plastic bags for the projector, accessories and optional parts out of the reach of children. Children covering their heads with bags may result in death by suffocation. Be particularly careful around small children.*

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

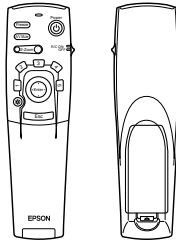
QUICK START



Operation Panel

Button	Function
Power	Starts or stops projection.
Help	Displays the help menu.
Computer	Switches between Computer1 and Computer2. (When the Computer2/BNC switch on the back of the projector is set to BNC, the source is switched to the BNC.)
A/V mute	Turns off the audio and video output of the projector. To turn on the audio and video output, press the A/V mute button again, or either the Esc or the Shift + Volume button.
Resize	Switches the resolution to the Window display or Resize display.
Video	Switches to the video image. Pressing the button once switches to the composite Video, pressing twice switches to the S-Video and pressing three times switches to the component video.
Menu	Displays or hides the menu.
Esc	Terminates the current function. If you press the Esc button when a menu or help is displayed, you go back to the previous menu or screen.
Enter ↵	Selects a menu option. If you press the Enter button when a menu or help is displayed, you can access to the next menu or screen. If you press the Enter button when a menu or help is not displayed, you can optimize the computer image.
Sync +/-	Synchronize the computer's graphic signal. Use these buttons to adjust an overall image that is fuzzy or streaked, or to select menu items during menu operations.
Tracking +/-	Match the projector's internal clock to various computer graphic signals (tracking adjustment). Use these buttons to adjust an image with vertical fuzzy lines, or to change numeric settings during menu operations.
Shift	Pressing the shift and keystone button at the same time increases or decreases the sound volume.
Keystone +/-	Adjusts a trapezoid distorted image to normal.

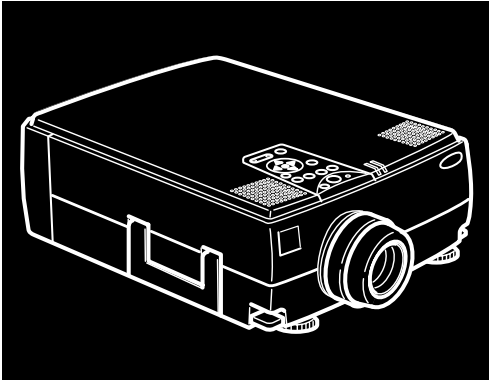
QUICK START



Remote control

Button	Function
Freeze	Keeps the current computer or video image on the screen.
A/V Mute	Turns off the audio and video output of the projector. To turn on the audio and video output, press either the A/V mute button again or Esc button.
E-Zoom	Pressing the right side of the button enlarges the image, pressing the left side of the button reduces the image. To display a portion of the enlarged image which is outside of the display area, press the Enter button to scroll the image.
Power	Starts or stops projection.
Effect buttons	Use to display special effects that have been assigned in the Effect menu or with the optional ELP Link IV software.
Enter	Use the enter button to navigate the menus or use the remote as a mouse pointer when the projector is connected to the computer with the main cable and the mouse cable. You can also select a menu option by pressing the center of this button(Enter). If you press the Enter when a menu or help is displayed, you can access to the next menu or screen. When the image source is a computer, the Enter button acts as the mouse left click.
Illumination button	Lights up all buttons on the remote control.
Esc	Terminates the current function. If you press the Esc button when a menu or help is displayed, you go back to the previous menu or screen. When the image source is a computer, the Esc button acts as the mouse right click.
Menu	Displays or hides the menu.
Help	Displays the help menu.
Comp 1	Switches to the Computer1 image.
Comp2/BNC	Switches to the Computer2 / BNC image.
S-Video	Switches to the S-Video image.
Video	Switches to the Video image.
Auto	Optimizes the computer image.
Resize	Switches between the Window display and Resizing display.
P in P	Displays a video or S-Video image in a subscreen on the main screen. To display the subscreen, press the PinP button once. To hide the subscreen, press it again. To set the subscreen being displayed, press in the following order : [Menu] → [Setting] → [P in P]. The default settings are as follows; Subscreen size:1/9 division Main screen input source:Computer Subscreen input source:Video To reposition the P in P screen, press the Enter button. The P in P screen will move to the selected direction.
Preset	Saves and recalls up to five different session settings (resolution, tracking, sync signal and position).
Volume +/-	Adjusts the volume.

EPSON®



EMP-7350/7250/5350™

DATA/VIDEO PROJECTOR

Owner's Manual

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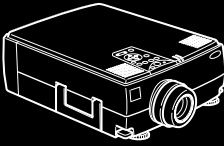
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Introduction

Your compact, lightweight EPSON EMP-7350/7250/5350 projector lets you project full-color images and video onto a large screen for presentations. You can connect it simultaneously to two image sources: one PC or Apple® Macintosh® computer image sources, plus one video source such as a video tape deck, camcorder, or digital camera. You can also connect audio for each image source.

Images are displayed in full color (16,670,000 colors) at a XGA resolution of 1024 × 768 pixels (EMP-7350/7250) and SVGA resolution of 800 × 600 pixels (EMP-5350).

Your projector produces bright images that can be easily seen in rooms light enough to take notes.

Your projector's 3W+3W speakers employ a built-in 3D Sound System for rich, powerful audio output. You can even connect an external speaker when further amplification is required.

A totally new AVTSS™ (Automatic Video Tracking and Synchronization Sensing, patent pending) provides automatic set-up of image from a computer.

You can control your projector through a hand-held remote control unit, with menus being provided for image source switching and image adjustment. The remote control can also act as a wireless mouse to control mouse operations on your computer screen during presentations. Additionally, you can install the projector's ELP Link IV software to control the projector's setting from your computer and enhance your presentations with special effects.

Your projector features the newest resizing technology DAR (Digital Active Resizing) which supports the native XGA (EMP-7350/7250) and SVGA (EMP-5350) computer output, as well as VGA, SXGA and UXGA (EMP-7350/7250) output and VGA, XGA and SXGA (EMP-5350) output. No matter what type of computer output is used, the result is a full-size video image of outstanding clarity.

The EMP-7350/7250/5350 projector supports IBM compatible PCs and laptops, as well as Apple® Macintosh®, Power Macintosh and PowerBook computers. The video source can be NTSC, PAL or SECAM in composite video, S-Video format. See Chapter 7 for details on supported computers and video formats.

Getting the Most Out of Your Projector

Your projector comes with a full set of features that enable you to control the settings for the image display, video and audio. To get the most out of your projector, read this section for a quick summary of the important features.

Optional Accessories

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

- | | |
|---------------------------------------|---------|
| • Spare Lamp | ELPLP09 |
| • Computer Cable (HD15/H15, 1.8m) | ELPKC02 |
| • Computer Cable (HD15/HD15, 3.0m) | ELPKC09 |
| • Computer Cable (HD15/5BNC, 1.8m) | ELPKC11 |
| • Workstation Cable (5BNC/BW3, 3.0m) | ELPKC12 |
| • Workstation Cable (5BNC/5BNC, 3.0m) | ELPKC13 |
| • Workstation Cable (HD15/EVC, 3.0m) | ELPKC14 |
| • Workstation Cable (5BNC/EVC, 3.0m) | ELPKC15 |
| • Image Presentation Camera | ELPDC01 |
| • Mac Adapter Set | ELPAP01 |
| • Communication Cable Set | ELPKC04 |
| • Ceiling Mount | ELPMB02 |
| • Ceiling Plate | ELPFC01 |
| • Pipe 370 | ELPFP01 |
| • Pipe 570 | ELPFP02 |
| • Pipe 770 | ELPFP03 |
| • Soft Carrying Case | ELPKS10 |

-
- Hard Travel Case ELPKS09
 - Hard Travel Case (small size) ELPKS12
 - Long Throw Zoom Lens ELPLL01
 - Wide Convergence Lens ELPCW01
 - Remote Control Receiver ELPST02
 - Portable Screen ELPSC06
 - Flange ELPFL01

You can purchase these accessories from your dealer.

About This Manual

Chapter 1, “Installation”, gives step-by-step instructions on how to set up the projector and connect it to your computer, video source, or other external speaker or PA system. Read the installation procedures that apply to your configuration.

Chapter 2, “Using the Projector”, describes how to switch the projector on/off and control simple projector settings using the remote control or the operation panel.

Chapter 3, “Using the Menus”, describes how to use the menus to adjust the color and image settings, change the display of the projected image, and modify audio settings such as bass and treble.

Chapter 4, “Using the ELP Link IV Software”, describes how to use the ELP Link IV software which supports the presentation functions to control the projector and configure special effects.

Chapter 5, “Maintenance”, describes how to clean your projector and perform limited maintenance.

Chapter 6, “Troubleshooting”, describes how to interpret your projector’s indicator lights and gives helpful information for avoiding errors, optimizing image quality and solving problems.

Chapter 7, “Technical Specifications,” lists the technical specifications for your projector.

A Glossary and Index are provided at the end of the manual.

Safety Instructions

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

1. Do not place the projector on an unstable cart, stand, or table.
2. Do not use the projector near water or sources of heat.
3. Use attachments only as recommended.
4. Use the type of power source indicated on the projector. If you are not sure of the power available, consult your dealer or local electricity company.
5. Place the projector near a wall outlet where the plug can be easily unplugged.
6. Insert the projector's three-pin grounding-type plug into a properly grounded outlet. If you have a two-prong outlet, contact an electrician to replace it. Do not handle the plug with wet hands.
7. Take the following precautions when handling the plug. Failure to comply with these precautions could result in sparks or fire.
 - Do not insert the plug into an outlet with dust present.
 - Insert the plug firmly into the outlet.
8. Do not overload wall outlets, extension cords or integral convenience receptacles. This can cause fire or electric shock.
9. Do not place the projector where the cord can be stepped on. It may result in fraying or damage to the plug.
10. Unplug the projector from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

-
11. Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not place the projector on a sofa, rug or other soft surface, or in a closed-in cabinet unless proper ventilation is provided.
 12. Never push objects of any kind through cabinet slots. Never spill liquid of any kind into the projector.
 13. Except as specifically explained in this User's Guide, do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
 14. Unplug the projector during thunder storms or when it will not be used for extended periods.
 15. Do not place the projector and remote control on top of heat-producing equipment or in a heated place, such as a car.
 16. Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed
 - If liquid has been spilled into the projector, or it has been exposed to rain or water
 - If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service
 - If it has been dropped or the housing has been damaged

Where to Get Help

If you are having trouble setting up or running your projector, first see Chapter 6, “Troubleshooting”. If you cannot resolve the problem, contact the appropriate representative listed in the section entitled “After sales service contact addresses” at the end of this manual.

Before you call, please have the following information ready:

- Product name
- Product serial number
- Computer configuration
- Description of the problem

World Wide Web site

If you connect to the Internet and have a Web browser, you can access to EPSON’s World Wide Web site at <http://www.epson.com>. EPSON’s home page provides you What’s New, EPSON Products, EPSON Connection, Corporate Info and EPSON Contacts. Link to the EPSON Connection for the latest drivers and FAQ’s (Frequently Asked Questions) and the EPSON Chart area. To get in touch with EPSON around the world, EPSON Contacts includes Contact Information for local EPSON subsidiaries.

Transporting your projector

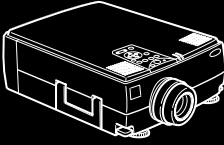
The projector contains many glass parts and precision parts. If you need to transport it, please follow these packing guidelines to prevent damaging the projector:

- When shipping the projector for repairs, use the original packaging material.

If you don't have the original packaging, use equivalent materials, placing plenty of cushioning around the projector.

- When transporting the projector for business use, first put the projector in a hard carrying case (such as the optional EPSON accessory case: ELPKS12), then pack it in a firm box, using cushioning around the case.
- When you are hand-carrying the projector, be sure to store it in a hard (ELPKS09) or soft carrying case (ELPKS10) such as the optional cases offered by EPSON.

- ◆ **Note:** *EPSON shall not be liable for any damages incurred during transportation.*



1

Installation

This chapter describes how to unpack and set up your projector, and connect it to other equipment. The projector must be connected to a computer or a video source such as a video tape deck, camcorder, digital camera or laser disk player before it can project any images.

You may also want to set up the projector for one or more of the following:

- Connect the mouse cable to use the remote control as a wireless mouse.
- Connect the projector to an audio source for one or both image sources. The audio source can be the computer, video source, or another device such as a stereo.
- Connect the projector to an external speaker or PA system to amplify the audio.

Unpacking the Projector

When you unpack the projector, make sure you have all these components:

- Projector
- Remote control
- 2 AA batteries
- Power cord
- Computer cable
- Audio cable
- Audio/Video (A/V) cable
- Mac Desktop adapter
- Mac Monitor adapter
- Main cable
- PS/2 mouse cable
- USB mouse cable
- Serial mouse cable
- Mac mouse cable
- PC serial cable
- Mac serial cable
- ELP Link IV Software

Depending on the configuration of your equipment, you may not need all these components.

Save all packaging materials in case you need to ship the projector in the future. It should be transported in its original packaging or the equivalent.

Additional Components

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

- To receive an S-Video signal, you need an S-Video cable. (One is usually provided with your video device.) A separate cable is required for each video source.
- To connect the projector to a Macintosh PowerBook, you need a video-out cable.

(One is provided by/or can be purchased from Apple for all new PowerBooks that have video-out capability.) If your PowerBook does not include one, see your Macintosh dealer.

- To connect the mouse cable to your computer, you may require a special connector, cable, or other components. You can obtain these items from your computer dealer. If your computer doesn't have a mouse connector, you cannot use the mouse cable.

◆ **Note:** *You can connect a Kensington MicroSaver® anti-theft device in the hole on the projector's right side. Contact your computer dealer.*

Setting Up the Projector

1. Place the projector on a sturdy, level surface within five feet of the computer or video source.

◆ **Caution:** *Do not hold the projector by the lens. This can damage the lens.*

2. Place the projector at a correct distance from the screen.

The distance between the projector and the screen determines the actual image size. Use the general guidelines below to determine the correct distance.

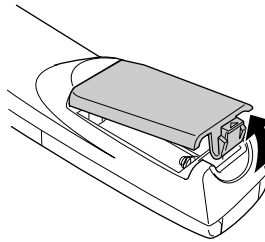
EMP-7350/7250

Screen size	Horizontal distance from projector to screen
300 inches (610x460cm)	511.8 inches (13.0 m) ~ 626.0 inches (15.9m)
200 inches (410x300cm)	342.5 inches (8.7 m) ~ 413.4 inches (10.5m)
100 inches (200x150cm)	169.3 inches (4.3 m) ~ 204.7 inches (5.2 m)
80 inches (160x120cm)	133.9 inches (3.4m) ~ 165.4 inches (4.2 m)
60 inches (120x90cm)	102.4 inches (2.6 m) ~ 122.0 inches (3.1 m)
40 inches (81x61cm)	66.9 inches (1.7 m) ~ 78.7 inches (2.0 m)
30 inches (61x46cm)	47.2 inches (1.2 m) ~ 59.1 inches (1.5 m)

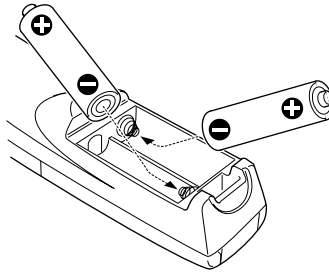
EMP-5350

Screen size	Horizontal distance from projector to screen
300 inches (610x460cm)	515.7 inches (13.1 m) ~ 618.1 inches (15.7 m)
200 inches (410x300cm)	342.5 inches (8.7 m) ~ 409.4 inches (10.4 m)
100 inches (200x150cm)	169.3 inches (4.3 m) ~ 204.7 inches (5.2m)
80 inches (160x120cm)	133.9 inches (3.4 m) ~ 165.4 inches (4.2 m)
60 inches (120x90cm)	102.4 inches (2.6 m) ~ 122.0 inches (3.1 m)
40 inches (81x61cm)	66.9 inches (1.7 m) ~ 78.7 inches (2.0 m)
30 inches (61x46cm)	47.2 inches (1.2 m) ~ 59.1 inches (1.5 m)

-
- ◆ **Note:** *When using the optional lens, refer to the Owner's manuals attached to it.*
3. Turn the projector so that the lens is at right angles to the screen. If the projector is not angled correctly, the screen image will be crooked.
 4. Connect one end of the power cable to the projector's power connector. Connect the other end to an earthed electrical socket.
The projector should be in sleep mode, indicated by an orange power indicator.
- ◆ **Warning:** *Never look into the lens when the projector is on. There is a risk that the projector might come on suddenly even though it is not in use. The light from the lamp can damage your eyes. It is especially important that children should not be allowed to look into the lens.*
5. To insert the batteries in the remote control device, slide off the battery compartment cover.



-
6. Insert the two AA batteries included with the projector. Make sure the polarity of the batteries is correct.



7. Replace the battery compartment cover.

When replacing batteries, take the following precautions:

- Do not recharge the used batteries or expose to fire or water.
- Replace batteries as soon as they run out. If the batteries leak, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash them immediately.
- Remove the batteries if you will not be using the projector for a long period of time.

Connecting to a Computer

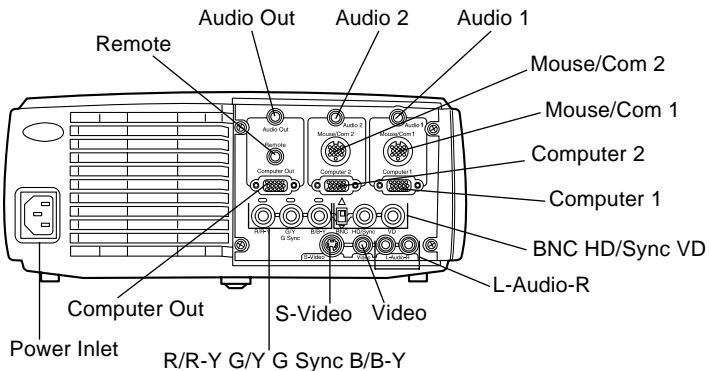
You can connect the projector to a computer capable of SVGA, VGA, SXGA, XGA and UXGA (EMP-7350/7250 only) output.

Resizing is supported for VGA, SVGA, SXGA and UXGA (EMP-7350/7250) output, for VGA, XGA and SXGA output (EMP-5350). The following types of computers are supported:

- IBM desktop PC or compatible
- IBM laptop or compatible
- Apple Macintosh desktop computer, including Macintosh Quadra®, Macintosh Centris®, and Power Macintosh
- Any Apple PowerBook with video-out capability, including all 160, 165, 180 and 500 series PowerBooks

To connect the video and mouse cables (to use the wireless remote as a mousepointer), see the section in this chapter that applies to your computer.

The illustration below identifies all the interface ports on the back of the projector; you may want to refer to this as you connect your computer or other equipment to the projector.



Connecting to a PC Desktop Computer

To connect the projector to your PC desktop computer, you need to:

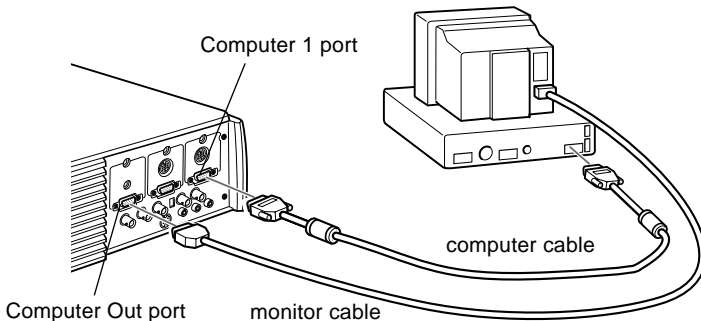
- Connect the computer cable and computer monitor cable
- Connect the mouse and/or serial cable (if you want to use the remote control as a mouse or use the ELP Link IV software)
- Connect the audio cable (if you'll be projecting with audio)

Follow the steps in each section for the cables you need to connect. Before beginning, turn off the projector and computer if they are on.

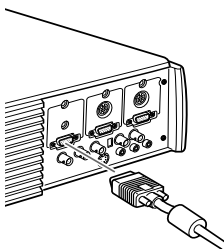
- ◆ **Note:** *Computer configurations vary. See your computer manual for the location of the ports needed to connect your projector.*

Connecting the Video and Monitor Cables

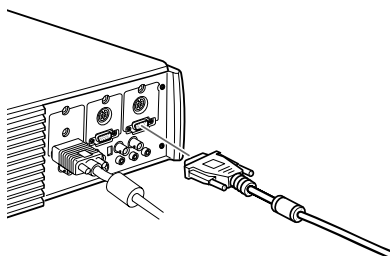
First connect the computer cable and computer monitor cable. Refer to this illustration while following the steps below.



-
1. If you will be viewing the video on your computer monitor as well as the projector screen, disconnect the monitor cable from the video port on the back of your computer. Then connect the monitor cable to the projector's Computer Out port, as shown below. (This is useful when you need to view the video output, but the projection screen is behind you.)



2. Connect one end of the computer cable to the projector's Computer 1 port. (Use the Computer 2 port if you are connecting a second computer.)



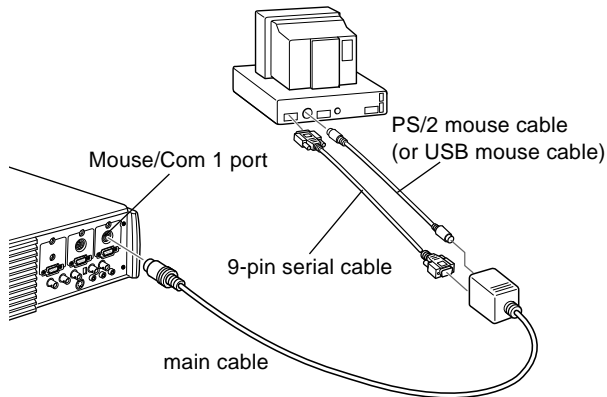
3. Connect the other end of the computer cable to the computer's video port.
4. Tighten the screws on all connectors.

Connecting the Mouse and Serial Cables

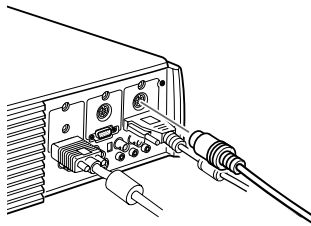
If you want to use the remote control as a mouse or use the ELP Link IV software, you need to connect the main cable. It provides connectors for:

- The PS/2 mouse cable or USB mouse cable (to use the remote control as a mouse)
- The serial cable (to use the ELP Link IV software and the Effects buttons on the remote control)

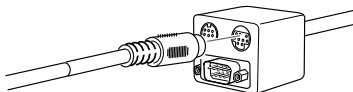
Refer to this illustration while following the steps below.



1. Connect the small end of the main cable to the projector's Mouse/Com 1 port. (Use the Mouse/Com 2 port if you are connecting a second computer.)



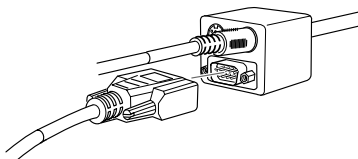
-
2. To use the remote control as a wireless mouse, connect the 9-pin end of the PS/2 mouse cable or USB mouse cable included with the projector to the MOUSE terminal on the square end of the main cable.



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

◆ **Note:** *If your system uses a serial mouse, perform steps 2 and 3 using the PC mouse serial cable instead of the PS/2 mouse cable or USB mouse cable (not shown in the illustration).*

4. To use the ELP Link IV software or to use the Effects buttons on the remote control, connect one end of the serial cable to the SERIAL terminal on the square end of the main cable.



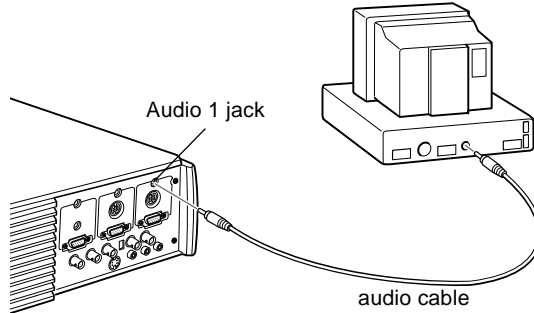
Connect the other end of the serial cable to the serial port on the back of your computer.

◆ **Note:** *You will not be able to use ELP Link IV software if your system has only one serial port that is being used to support a serial mouse.*

5. Tighten the screws on all connectors.

Connecting the Audio Cable

1. If you will be using audio, connect one end of the audio cable to the Audio 1 jack on the projector. (Use the Audio 2 jack if you are connecting a second computer.)



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

Connecting to a PC Laptop Computer

To connect the projector to your PC laptop computer, you need to:

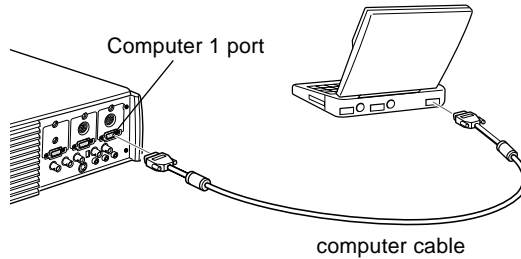
- Connect the computer cable
- Connect the mouse and/or serial cable (if you want to use the remote control as a mouse or use the ELP Link IV software)
- Connect the audio cable (if you'll be projecting with audio)

Follow the steps in each section for the cables you need to connect. Before beginning, turn off the projector and computer if they are on.

- ◆ **Note:** *Laptop configurations vary. See your computer manual for the location of the ports needed to connect your projector.*

Connecting the Video Cable

First connect the projector's video cable to your laptop.



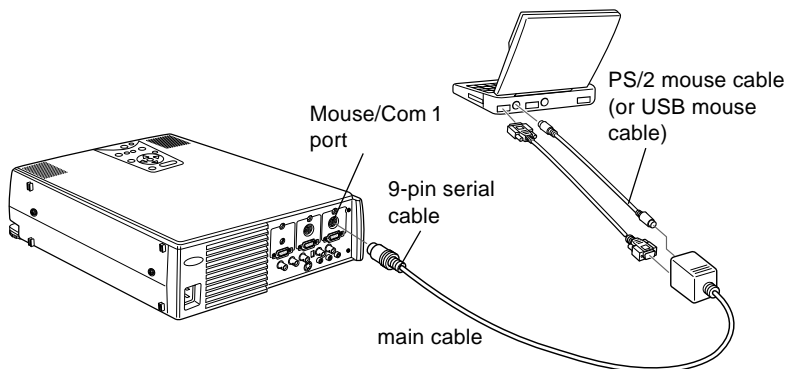
1. Connect one end of the computer cable to the projector's Computer 1 port. (Use the Computer 2 port if you are connecting a second computer.)
2. Connect the other end of the video cable to the laptop's video (monitor) port.
3. Tighten the screws on all connectors.

Connecting the Mouse and Serial Cables

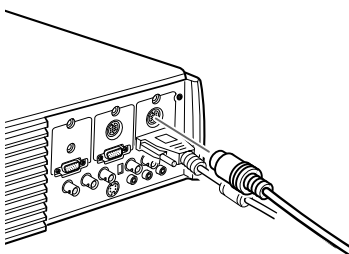
If you want to use the remote control as a mouse or use the ELP Link IV software, you need to connect the main cable. It provides connectors for:

1. The PS/2 mouse cable or USB mouse cable (to use the remote control as a mouse)
2. The serial cable (to use the ELP Link IV software and the Effects buttons on the remote control)

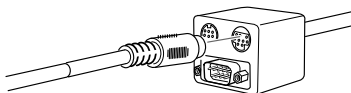
Refer to this illustration while following the steps below.



1. Connect the small end of the main cable to the projector's Mouse/Com 1 port. (Use the Mouse/Com 2 port if you are connecting a second computer.)



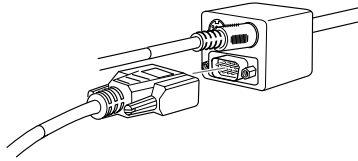
2. To use the remote control as a wireless mouse, connect the 9-pin end of the PS/2 mouse cable or USB mouse cable included with the projector to the MOUSE terminal on the square end of the main cable.



3. Connect the 6-pin (mini-DIN) end of the PS/2 mouse cable to the external mouse port on your laptop.

-
- ◆ **Note:** *If your laptop uses a serial mouse, perform steps 2 and 3 using the PC serial mouse cable instead of the PS/2 mouse cable or USB mouse cable (not shown in the illustration).*

4. To use the ELP Link IV software or to use the Effects buttons on the remote control, connect one end of the serial cable to the SERIAL terminal on the square end of the main cable.



5. Connect the other end of the serial cable to the serial port on the back of your computer.

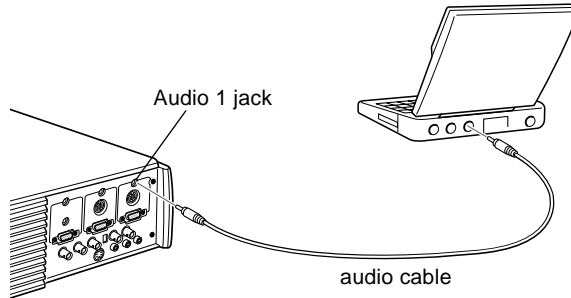
- ◆ **Note:** *You will not be able to use ELP Link IV software if your laptop has only one serial port that is being used to support a serial mouse.*

6. Configure your laptop to work with an external mouse.

- ◆ **Note:** *You may have to set the display to appear on both the laptop's screen and the projector. Some laptops let you change this setting with the keyboard's function keys or by using a setup utility provided by the computer manufacturer. Check your laptop's manual or online help for instructions.*

Connecting the Audio Cable

1. If you will be using audio, connect one end of the audio cable to the Audio 1 jack on the projector. (Use the Audio 2 jack if you are connecting a second computer.)



2. Connect the other end of the audio cable to your laptop.

Connecting to a Desktop Macintosh

To connect the projector to your desktop Macintosh, you need to:

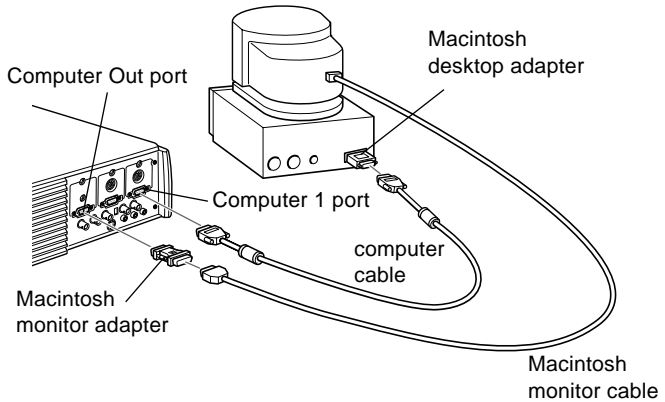
- Connect the computer cable and computer monitor cable
- Connect the mouse and/or serial cable (if you want to use the remote control as a mouse or use the ELP Link IV software)
- Connect the audio cable (if you'll be projecting with audio)

Follow the steps in each section for the cables you need to connect. Before beginning, turn off the projector and computer if they are on.

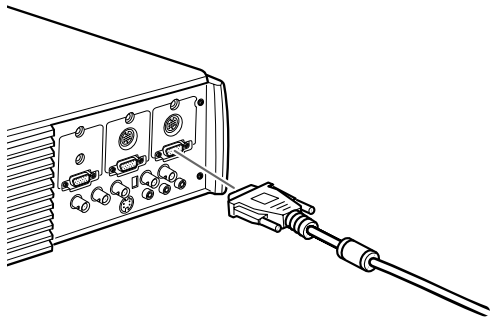
- ◆ **Note:** *Macintosh configurations vary. See your computer manual for the location of the ports needed to connect your projector.*

Connecting the Video and Monitor Cables

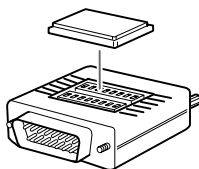
First connect the video and monitor cables. Refer to this illustration as you follow the steps below.



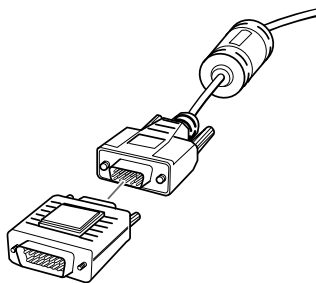
1. Connect one end of the computer cable to the projector's Computer 1 port. (Use the Computer 2 port if you are connecting a second computer.)



-
2. Remove the small cover on the Macintosh desktop adapter (as shown below) and set its DIP switches in accordance with the resolution you want to use, such as 16-inch mode. See your Macintosh documentation for instructions.

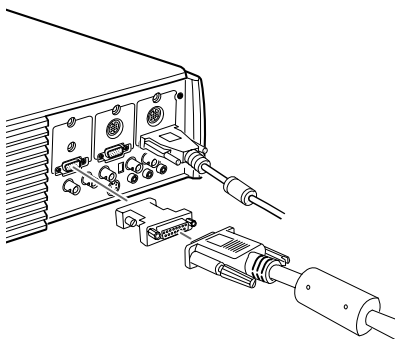


3. Connect the small terminal of the Macintosh desktop adapter to the other end of the computer cable.



4. Disconnect the monitor cable from the video port on the back of the Macintosh. Then connect the computer cable (with the Macintosh desktop adapter attached) to the video port on the Macintosh.

-
5. To also view the video on the computer's monitor, attach the large end of the Macintosh monitor adapter to the monitor cable and connect the other end of the adapter to the projector's Computer Out port.



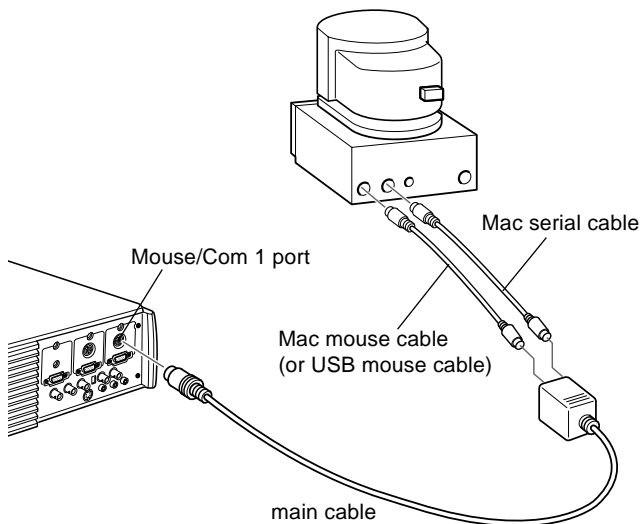
6. Tighten the screws on all the connectors.

Connecting the Mouse and Serial Cables

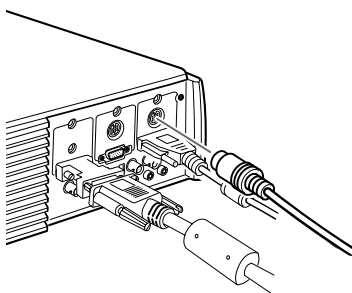
If you want to use the remote control as a mouse or use the ELP Link IV software, you need to connect the main cable. It provides connectors for:

- The Mac mouse cable or USB mouse cable (to use the remote control as a mouse)
- The Mac serial cable (to use the ELP Link IV software and the Effects buttons on the remote control)

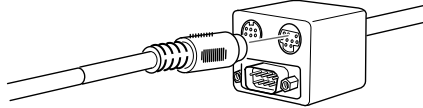
Refer to this illustration while following the steps below.



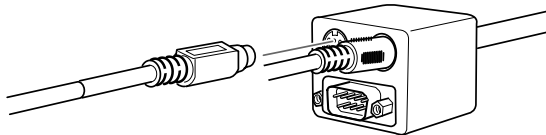
1. Connect the small end of the main cable to the projector's Mouse/Com 1 port. (Use the Mouse/Com 2 port to connect a second computer.)





-
2. To use the remote control as a wireless mouse, connect one end of the projector's Mac mouse cable or USB mouse cable to the MOUSE terminal on the large end of the main cable.



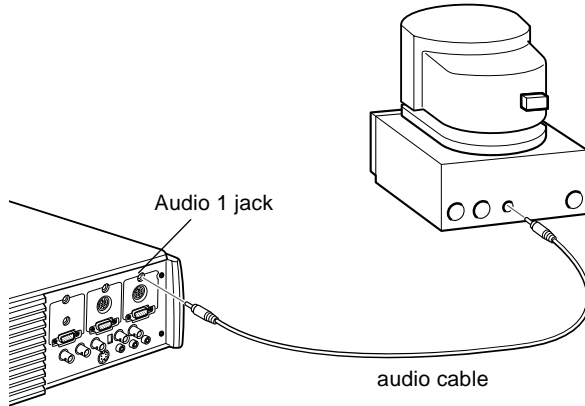
3. Disconnect your Macintosh's mouse cable. Connect the other end of the projector's Mac mouse cable or USB mouse cable to the mouse port on your Macintosh.
4. To use the ELP Link IV software or use the Effects button on the remote control, connect one end of the Mac serial cable to the Mac SERIAL terminal on the large end of the main cable.



5. Connect the other end of the Mac serial cable to the  printer or  modem port on the back of your Macintosh.

Connecting the Audio Cable

1. If you will be using audio, connect one end of the audio cable to the Audio 1 jack on the projector. (Use the Audio 2 jack if you are connecting a second computer.)



2. Connect the other end of the audio cable to the audio-out port on your computer.

Connecting to a PowerBook

Your PowerBook must have video-out capability in order to connect to the projector.

To connect the projector to your PowerBook, you need to:

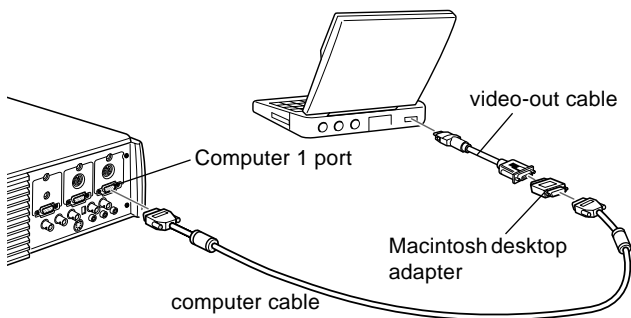
- Connect the computer cable
- Connect the mouse and/or serial cable (if you want to use the remote control as a mouse or use the ELP Link IV software)
- Connect the audio cable (if you'll be projecting with audio)

Follow the steps in each section for the cables you need to connect. Before beginning, turn off the projector and computer if they are on.

- ◆ **Note:** *PowerBook configurations vary, so the location of your computer's ports may not match the illustrations. See your PowerBook manual for the port locations if necessary.*

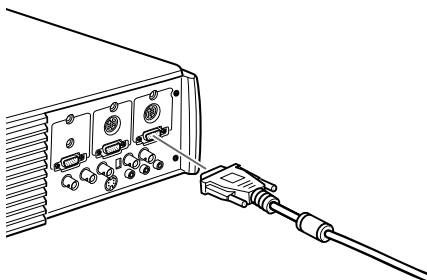
Connecting the Computer Cable

First connect the computer cable. Refer to this illustration as you follow the steps below.

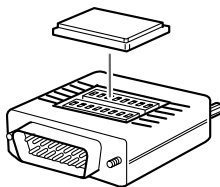


- ◆ **Note:** *Some new PowerBooks may allow you to connect the computer cable directly to the computer without using a video-out cable. See your PowerBook manual for additional information on connecting a computer cable.*

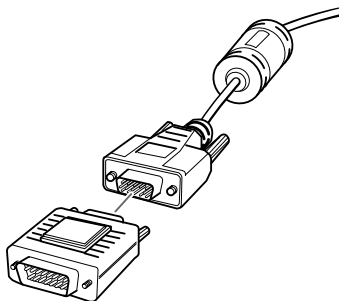
1. Connect one end of the computer cable to the projector's Computer 1 port. (Use the Computer 2 port if you are connecting a second computer.)



2. Remove the small cover on the Macintosh desktop adapter and set its DIP switches in accordance with the resolution you want to use (such as 16-inch mode). See your Macintosh documentation for instructions.

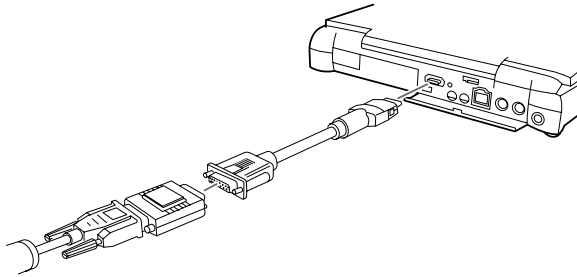


3. Connect the small terminal of the Macintosh desktop adapter to the other end of the video cable.



-
4. Connect the computer cable (with the Macintosh desktop adapter attached) to the video-out port on the PowerBook.

If a video-out cable was provided with your PowerBook, connect the smaller end of the video-out cable to the video-out port on the back of the PowerBook. Connect the other end to the Macintosh desktop adapter on the end of the computer cable.

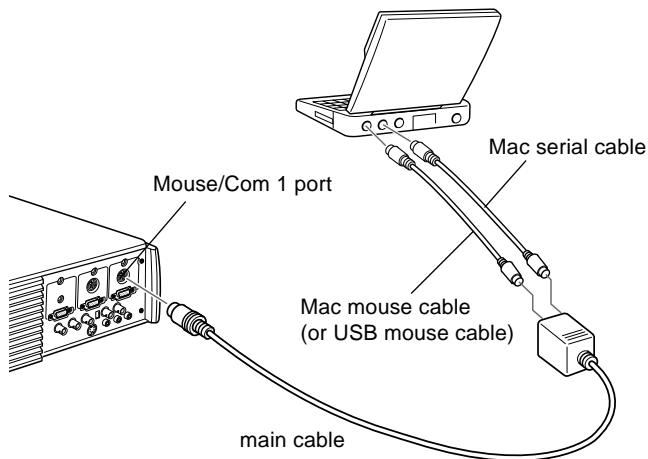


Connecting the Mouse and Serial Cables

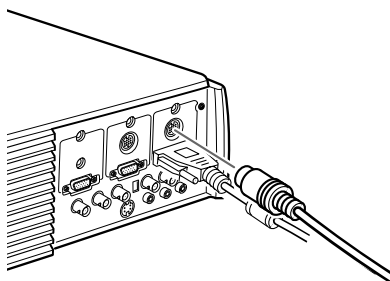
If you want to use the remote control as a mouse or use the ELP Link IV software, you need to connect the main cable. It provides connectors for:

- The Mac mouse cable or USB mouse cable (to use the remote control as a mouse)
- The Mac serial cable (to use the ELP Link IV software and the Effects buttons on the remote control)

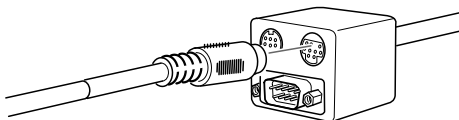
Refer to this illustration while following the steps below.



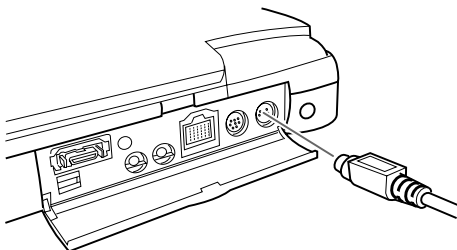
1. Connect the small end of the main cable to the projector's Mouse/Com 1 port. (Use the Mouse/Com 2 port if you are connecting a second computer.)



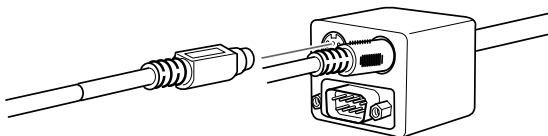
-
2. To use the remote control as a wireless mouse, connect one end of the projector's Mac mouse cable or USB mouse cable to the MOUSE terminal on the large end of the main cable.





3. Connect the other end of the Mac mouse cable or USB mouse cable to the mouse port on the back of the PowerBook.



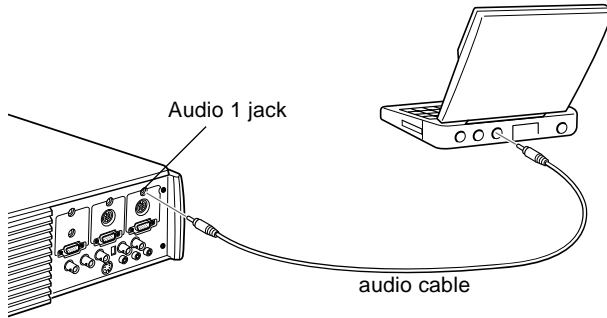
4. To use the ELP Link IV software or the Effects button on the remote control, connect one end of the Mac serial cable or USB mouse cable to the MAC SERIAL terminal on the large end of the main cable.



5. Connect the other end of the serial cable to the  printer/  modem port on the back of your PowerBook.

Connecting the Audio Cable

1. If you will be using audio, connect one end of the audio cable to the Audio 1 jack on the projector. (Use the Audio 2 jack if you are connecting a second computer.)



2. Connect the other end of the audio cable to the audio-out port on your PowerBook.

- ◆ **Note:** *After you turn on the projector and computer, you'll need to choose Mirroring in the Display Control Panel if you set up your configuration to display on the LCD screen as well as the projector screen.*

Connecting to a High-End Workstation

The EMP-7350/7250/5350 are capable of remapping input resolutions up to 1280×1024 pixels. Since 1280×1024 pixels is the default resolution for most leading workstations, this capability makes these projectors the best portable solution for the display of workstation video output.

There is no standard for workstation video output. Those workstations that follow the SXGA standard and use the HD15 connector don't need an adapter cable. The most popular workstations use a 13-pin 13W3 connector, which requires an adapter cable. Ask your dealer.

In addition, workstations pass the sync (synchronization) signal differently, so the VGA-13W3 computer cable (Epson Recommended) has a DIP switch to control sync routing. Contact your dealer for information on connecting your workstation.

Connecting to a Video Source

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

The projector can receive composite video, S-Video, or component video. Your equipment has composite video if your video source has a one-pin RCA video jack. Your equipment has S-Video if your video source has a four-pin (mini-DIN) video jack. Your equipment has component video if your video source has a three-connector (Y, R-Y, B-Y) video jack.

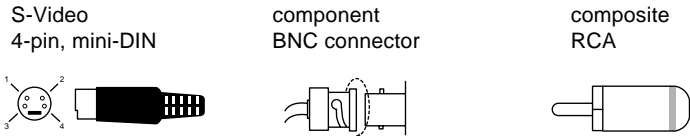
- ◆ **Note:** *The projector is not compatible with a cable TV-style F connector.*

You can connect the projector to an S-Video source, a composite video source, and a component video source at the same time.

The projector supports NTSC, PAL, and SECAM video formats, and automatically detects and identifies the video format. However, you can specify that a single broadcast format be detected. (See Chapter 3.) Note that the projector will then be able to detect only one type of video signal.

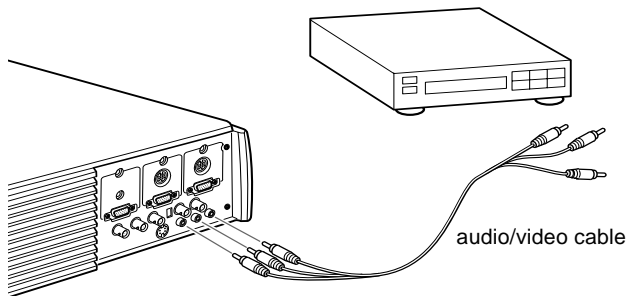
The type of cable you use to connect the video source to the projector depends on whether you have composite video, S-Video, or component video. For composite video, use the audio/video (A/V) cable supplied with the projector. For S-Video, use the S-Video cable supplied with your video device or obtain one from your computer or video equipment dealer.

For component video, use the BNC type cable that came with your video source. The illustration below shows the S-Video, component, and composite connectors.

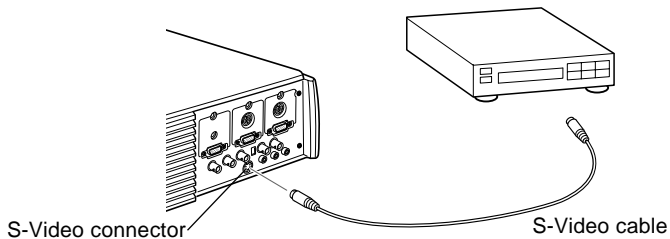


To connect a video source to the projector:

1. Turn off the projector and video source if they are on.
2. If your video source uses a small, round, one-prong composite (RCA) video connector, you'll need the audio/video cable that comes with the projector. If your video source uses a large, round, four-prong S-Video connector or a BNC type connector, you will need to purchase the appropriate cable or use the cable that came with your video source.
3. For composite video, connect the yellow RCA plug on one end of the audio/video cable to the projector's Video jack. Connect the other yellow RCA plug to the video-out jack of your video source.



4. Connect the other plugs on the audio/video cable to the Audio jacks of the projector: insert the white plug into the L jack and the red plug into the R jack. Connect the plug at the other end of the audio/video cable to the audio output jacks of the video source.
5. For S-Video, insert one end of an S-Video cable into the projector's S-Video connector. Insert the other end into the S-video-out jack of your video source.



6. For component, insert three ends of a BNC cable into the projector's R/R-Y, G/Y and B/B-Y jacks. Insert the opposite ends of the cable into the Y/Video, C/R-Y, and B-Y jacks on your component video source. (Don't insert any of the cable ends into the HD/Sync and VD jacks.)
7. Make sure the Computer 2/BNC switch is set to BNC.

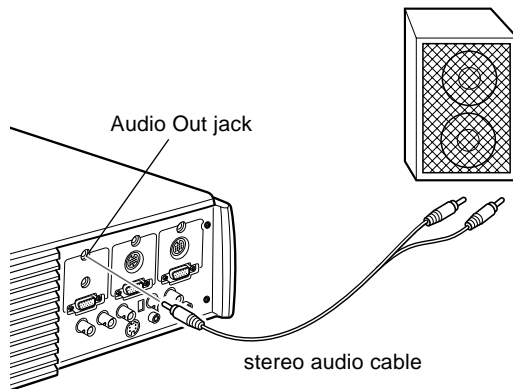
- ◆ **Note:** When the Computer 2/BNC switch is set to BNC, the projector is unable to project the Computer 2 image signal.
- ◆ **Note:** Use a standard BNC cable, which you can purchase from any computer store. The 5BNC video cable supplied by EPSON as an optional accessory does not work with component video.

Connecting to an External Speaker or PA System

Although the projector's internal speakers are enough for most small- or medium-size rooms, you can connect the projector to an external speaker or public address (PA) system for large rooms or to gain maximum benefit from the projector's built-in 3D sound function.

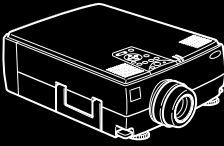
To connect the projector to an external sound system, you need to obtain an RCA-to-3.5 mm stereo audio cable. You can get one from your computer dealer.

1. Turn off the projector and speaker or PA system if they are on.
2. Connect the cable's 3.5 mm stereo miniplug to the projector's Audio Out jack.



3. Connect the RCA plugs to the external amplified speaker or PA system. Insert the cable's red plug into the Audio R jack, and the white plug into the Audio L jack.

◆ **Note:** *The internal speakers are disabled when an external audio system is used.*



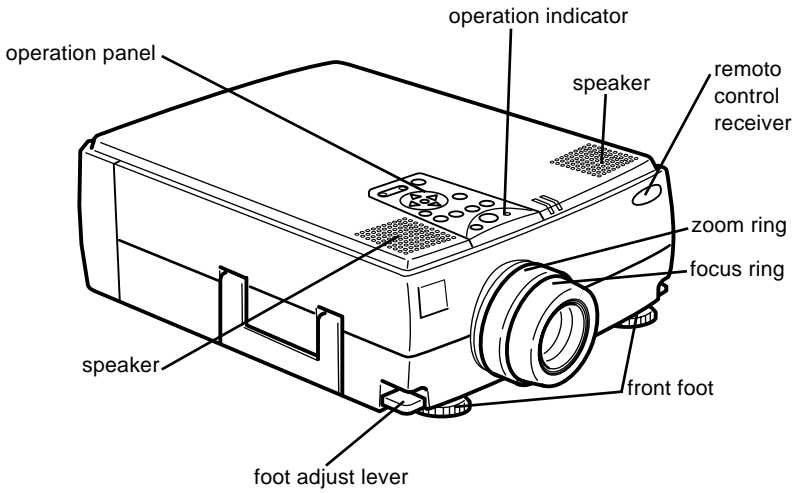
2

Using the Projector

This chapter provides the following information about using your projector:

- Turning the equipment on and off
- Focusing and positioning the screen image
- Controlling the projector with the remote control and the operation panel
- Monitoring the projector's operating status

The illustration below identifies the parts of your projector.



Turning the Equipment On and Off

Turn on the projector and its attached equipment in the following order.

1. Video source
2. Audio source (if different from computer or video source)
3. Projector
4. External speaker or PA system
5. Computer

When you turn off the equipment, do so in the reverse order.

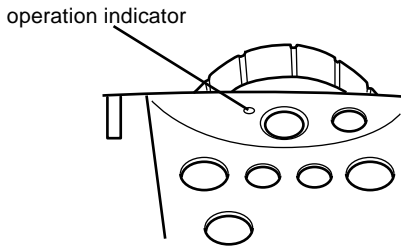
Turning the Projector On and Off

1. Remove the projector lens cap.
2. When you plug in the projector power cord, the power indicator flashes orange for few seconds. Then the light remains orange.
3. Press the Power button on the remote control or operation panel. The power indicator flashes green as the projector warms up. When the projector is fully warmed up, this light remains green.

If computer or video equipment is attached, the computer or video signal is projected.

- ◆ **Warning:** *Never look into the lens when the lamp is on. This can damage your eyes. It is especially important that children are not allowed to look into the lens.*
- ◆ **Caution:** *When turning the projector on or off with the remote control, be sure to turn the remote control on first with the power switch.*

After you press the power button to turn off the projector, a confirmation message appears. If you want to turn off the projector, press the power button again. If you don't want to turn off the projector, press any button. The fan will remain on and the operation indicator will flash orange for about one minute as the projector cools down.

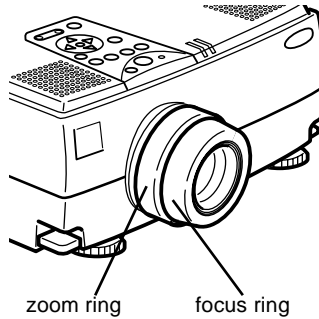


When the projector has cooled down, the operation indicator stops flashing and remains orange.

- ◆ **Note:** *If you press the Power button to turn the projector back on while the operation indicator is orange, there may be a delay before a projected image appears.*

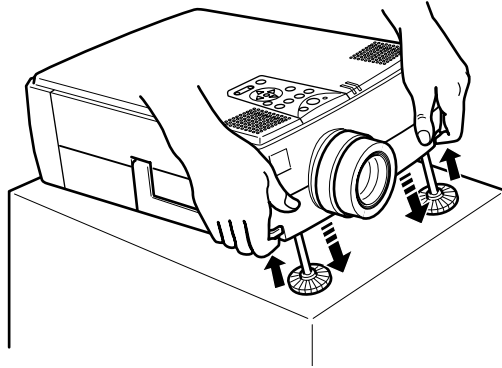
Focusing and Positioning the Screen Image

When an image appears on the screen, check that it is in focus and correctly positioned on the screen.



- To focus the image, rotate the focus ring (the outer ring on the lens).
- To adjust the size of the image, rotate the inner zoom ring. Rotate the zoom ring clockwise to make the image larger, or counterclockwise to make it smaller.

If you need to raise or lower the image on the screen, extend or retract the two feet at the bottom of the projector as follows:



1. Stand behind the projector and support the front of it while you lift the foot adjust levers above the feet. This unlocks the feet so they can move up and down freely. Do not let the projector drop.

◆ **Caution:** *Do not hold the projector by its lens. This can damage the lens.*

2. While lifting the foot adjust levers, raise or lower the projector until the screen image is positioned correctly.
3. Release the lever to lock the feet in their new position.
4. To fine-tune the height of the projector, turn the feet clockwise to raise the height or anti-clockwise to lower it.

Resize Button

The Resize button allows you to select the projection method for certain types of image input signals from a computer.

With images up to XGA (1024 × 768 pixels) size for the EMP-7350/7250 and SVGA (800 × 600 pixels) size for the EMP-5350, you can choose from two projection methods. You can either display the image in the center of the projection area(Window display) or display the image full size(Resize display).

You can also choose from two projection methods with images greater than XGA size for the EMP-7350/7250 and SVGA size for the EMP-5350 size: either project a portion of the image or project the entire image in a compressed format. The projector automatically reduces the image size to the projector's maximum resolution. The Resize button cannot be used with images at XGA size for the EMP-7350/7250 and SVGA size for the EMP-5350 resolution.

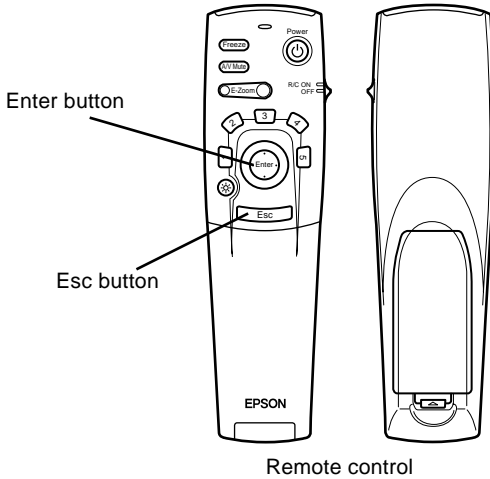
When the image source is Video, the resize button lets you choose an aspect ratio either 4:3 or 16:9.

Controlling the Projector

You can use the operation panel on top of the projector or the remote control to perform the following actions:

- Turn power on or off
- Auto set-up of the computer image
- Switch between input images (Computer 1, Computer 2, video-computer)
- Access the projector menus to adjust the image, audio, video, and display settings
- Control resizing
- Control display freeze
- Control display blanking
- Adjust or mute audio output
- Use custom functions
- Move the pointer

Using the Remote Control



To use the remote control, point it towards the remote control receivers located at the front and back of the projector.

To be able to use the remote control as a cordless mouse, connect the mouse cable to the projector and your computer.

You can use the remote control up to 10 metres (33 feet) from the projector.

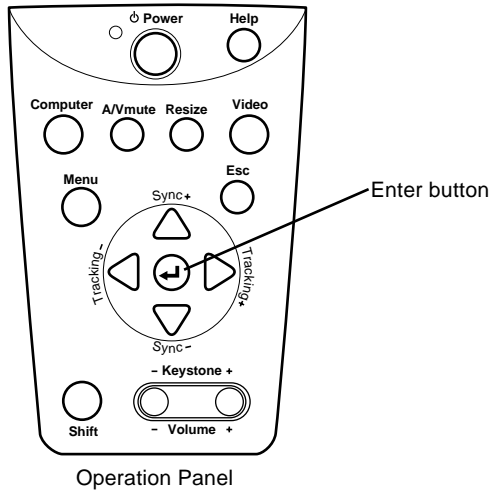
- ◆ **Note:** *The projector may not respond to remote control commands in these conditions: ambient light is too bright; a certain type of fluorescent light is present; a strong light source (such as direct sunlight) shines into the infrared receiver; or other equipment emitting infrared energy is present (such as a radiant room heater). Correct these conditions to use the remote control or control the projector from a computer.*

This table summarizes the functions on the remote control.

Button	Function
Freeze	Keeps the current computer or video image on the screen.
A/V Mute	Turns off the audio and video output of the projector. To turn on the audio and video output, press either the A/V mute button again or Esc button.
E-Zoom	Pressing the right side of the button enlarges the image, pressing the left side of the button reduces the image. To display a portion of the enlarged image which is outside of the display area, press the Enter button to scroll the image.
Power	Starts or stops projection.
Effect buttons	Use to display special effects that have been assigned in the Effect menu or with the optional ELP Link IV software.
Enter	Use the enter button to navigate the menus or use the remote as a mouse pointer when the projector is connected to the computer with the main cable and the mouse cable. You can also select a menu option by pressing the center of this button(Enter). If you press the Enter when a menu or help is displayed, you can access to the next menu or screen. When the image source is a computer, the Enter button acts as the mouse left click.
Illumination button	Lights up all buttons on the remote control.
Esc	Terminates the current function. If you press the Esc button when a menu or help is displayed, you go back to the previous menu or screen. When the image source is a computer, the Esc button acts as the mouse right click.
Menu	Displays or hides the menu.
Help	Displays the help menu.

Button	Function
Comp 1	Switches to the Computer1 image.
Comp2/BNC	Switches to the Computer2 / BNC image.
S-Video	Switches to the S-Video image.
Video	Switches to the Video image.
Auto	Optimizes the computer image.
Resize	Switches between the Window display and Resizing display.
P in P	<p>Displays a video or S-Video image in a subscreen on the main screen. To display the subscreen, press the PinP button once. To hide the subscreen, press it again.</p> <p>To set the subscreen being displayed, press in the following order :</p> <p>[Menu] → [Setting] → [P in P].</p> <p>The default settings are as follows;</p> <p>Subscreen size:1/9 division</p> <p>Main screen input source:Computer</p> <p>Subscreen input source:Video</p> <p>To reposition the P in P screen, press the Enter button. The P in P screen will move to the selected direction.</p>
Preset	Saves and recalls up to five different session settings (resolution, tracking, sync signal and position).
Volume +/-	Adjusts the volume.

Using the Operation Panel



You can use the operation panel to control the projector instead of the remote control. However, you can program and access the custom features only using the remote control.

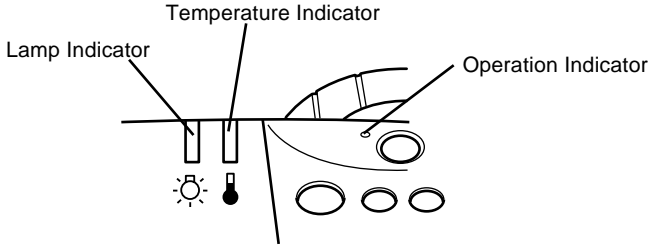
The following table summarizes the functions on the operation panel.

Button	Function
Power	Starts or stops projection.
Help	Displays the help menu.
Computer	Switches between Computer1 and Computer2. (When the Computer2/BNC switch on the back of the projector is set to BNC, the source is switched to the BNC.)
A/V mute	Turns off the audio and video output of the projector. To turn on the audio and video output, press the A/V mute button again, or either the Esc or the Shift + Volume button.

Button	Function
Resize	Switches the resolution to the Window display or Resize display.
Video	Switches to the video image. Pressing the button once switches to the composite Video, pressing twice switches to the S-Video and pressing three times switches to the component video.
Menu	Displays or hides the menu.
Esc	Terminates the current function. If you press the Esc button when a menu or help is displayed, you go back to the previous menu or screen.
Enter ⊕	Selects a menu option. If you press the Enter button when a menu or help is displayed, you can access to the next menu or screen. If you press the Enter button when a menu or help is not displayed, you can optimize the computer image.
Sync +/-	Synchronize the computer's graphic signal. Use these buttons to adjust an overall image that is fuzzy or streaked, or to select menu items during menu operations.
Tracking +/-	Match the projector's internal clock to various computer graphic signals (tracking adjustment). Use these buttons to adjust an image with vertical fuzzy lines, or to change numeric settings during menu operations.
Shift	Pressing the shift and keystone button at the same time increases or decreases the sound volume.
Keystone +/-	Adjusts a trapezoid distorted image to normal.

Projector Status Indicators

The power and lamp indicators at the top of the projector tell you its operating status.



- ◆ **Caution:** A red indicator warns you if a serious problem occurs. See Chapter 6, “Troubleshooting,” for what to do if a warning light comes on.

Operation Indicator

Displays machine condition.

Color	Status	Meaning
Orange	Lit	Sleep mode.
Green	Flashing	The projector is warming up.
Green	Lit	Power and projection lamp are on.
Orange	Flashing	Projection lamp is off, and the projector is cooling down. Cooling time depends on the air temperature. During the cooling, any operations can not be executed.
Red	Lit	There is an internal projector problem.
-	Off	The power to the projector has been cut off.

Lamp Indicator

Displays lamp condition.

This indicator is off when the projector is in a normal condition.

Color	Status	Meaning
-	Off	Lamp is functioning normally.
Orange	Flashing	Projection lamp has reached the time to replace and will no longer project images. Replace the projection lamp with a new one.
Red	Flashing	There is a problem with the projection lamp, lamp power supply, lamp fuse, or a circuit malfunctioned in the projector.

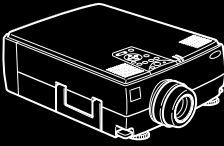
Temperature Indicator

Displays the internal temperature condition.

This indicator is off when the projector is in a normal condition.

Color	Status	Meaning
-	Off	The projector is functioning normally.
Orange	Flashing	The projector is too hot.

Color	Status	Meaning
Red	Lit	<p>The projector has turned off automatically because of over heating. The lamp goes off automatically and projection becomes impossible. Wait for approximately 5 minutes with the projector in that state. After 5 minutes has passed, pull out the power plug once, then insert it again.</p> <p>If the projector overheats, check the following 2 points and make the necessary improvements.</p> <ul style="list-style-type: none"> • Is the projector installed in a place with good ventilation? Make sure the air intake and exhaust vents are not covered, and that it is not placed up against the wall. • Has dust accumulated in the air filter? If the air filter is dirty, clean it. <p>When the power plug is reinserted, the projector will recover to the normal state, so press the power button and turn on the power again. If the projector overheats again even when the above measures have been taken, and when an error is displayed in the indicator when the power is turned on again, discontinue use, pull the power plug out of the receptacle and request repairs by the retail shop where you purchased it, or by the nearest EPSON service center.</p>
Red	Flashing	<p>There is a problem with the cooling fan or temperature sensor.</p>



3

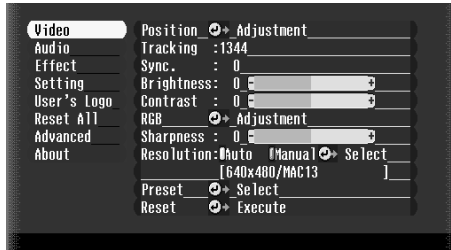
Using the Projector Menus

The eight projector menus let you to control your projector.

- The Video menu controls the look and quality of the projected image, whether the image source is a computer or video.
- The Audio menu controls audio features, such as the volume level, tone setting, and 3D sound.
- The Effect menu lets you define functions for the Effects buttons on the remote control.
- The Setting menu lets you select various projector options.
- The User's Logo menu lets you select special features such as background color or a custom logo.
- The Reset All menu returns all settings to their factory defaults.
- The Advanced menu enables you to set various projector options.
- The About menu provides information about H/V(Horizontal/Vertical) frequency, and lamp hours etc.

Accessing the Main Menu

To display the Main menu, press the Menu button on the operation panel or remote control. The Main menu appears:



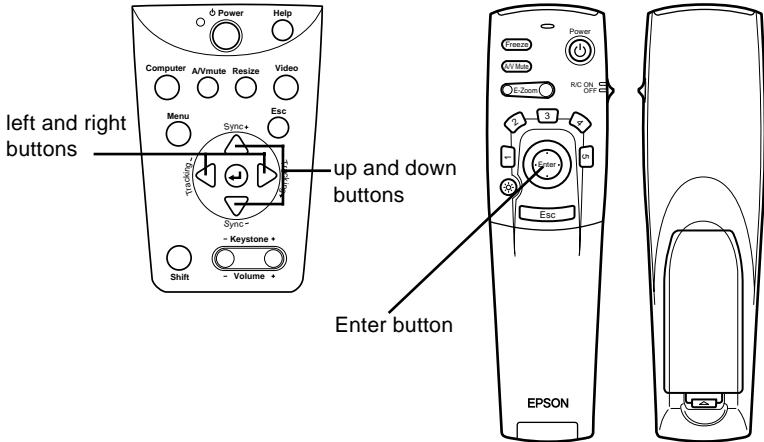
Press the Menu button again to hide the menu.

Changing a Menu Setting

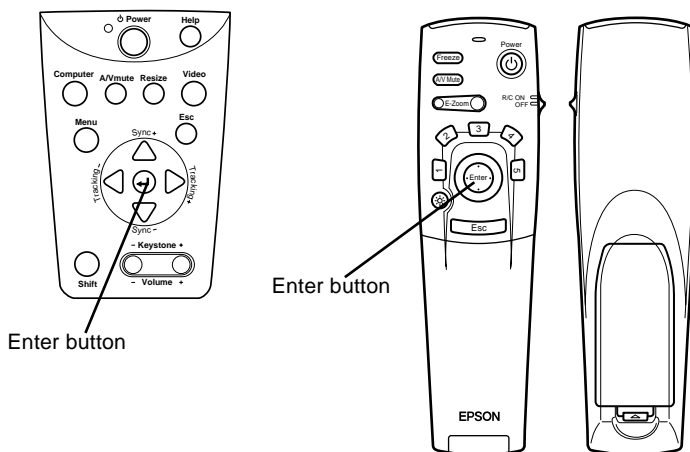
To change a menu setting:

1. Press the Menu button on the operation panel or remote control to display the Main menu.

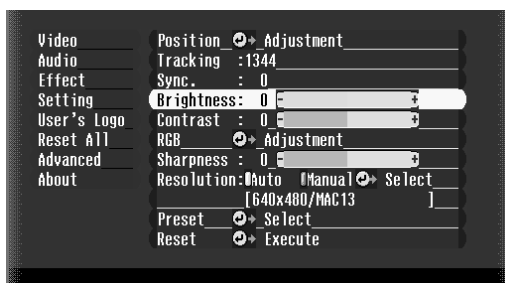
2. Press the up or down buttons (operation panel) or press the top or bottom of the Enter button (remote) to scroll through the menu choices.



3. Press the Enter button to display a submenu.



As you select a menu, a sub menu of options appears to the right.



- ◆ **Note:** The options available in some submenus vary, depending on whether the current image source is the computer or a video source.

-
4. Press the up or down buttons (operation panel) or the top or bottom of the Enter button (remote) to scroll through the menu choices.
 5. Press either the left or right buttons (operation panel) or the right or left sides of the Enter button (remote) to change a setting on one of the submenus.
 6. When you have finished changing settings, press the Menu button again to hide the menu, or press the Esc button to go back to the Main menu. Your changes are saved automatically.

Menu Options

Video Menu (Image source = Computer)

The Video menu lets you make adjustments to the projected image. The following options are available when the image source is Computer.

- ◆ **Note:** *The computer must be connected and operating, and the image source on the projector must be set to Computer for you to access these menu options.*

Menu item	Description
Position	Select this item by pressing the Enter button to enter the screen position adjustment mode. Then use the Enter button (remote) or up, down, left and right buttons (operation panel) to move the screen position in the corresponding direction. When you finish making adjustment, press the Esc button to return to the Video submenu.
Tracking	Matches the projector's internal clock to various computer graphic signals. Adjust this setting to remove vertical lines from the image.
Sync.	Synchronizes with the tracking signal sent from the computer. Adjust this setting to correct fuzziness or screen flicker.
Brightness	Lightens or darkens the overall image. Increase brightness to lighten an image, or decrease it to darken the image.
Contrast	Adjusts the difference between light and dark areas. Increase the contrast to make light areas lighter and dark areas darker. Decrease it to minimize the difference between light and dark areas.
Color	Adjusts the color balance (Red:Green:Blue) of the input source. Select this item by pressing the Enter button. The projector will enter color adjustment mode. Use the Enter button (remote) or the up and down buttons (operation panel) to select a color. Next, use the Enter button (remote) or left and right buttons (operation panel) to adjust the selected color. Increase the color setting for more intense color, or lower the setting for less intense color. When you finish making adjustment, press the Esc button to return to the Video submenu.
Sharpness	Adjusts the screen sharpness. Increase the sharpness to make screen images more sharp, or decrease it to make the images less sharp.

Menu item	Description
Resolution	Specifies the video signal system. The initial setting is the 640 × 480. Press either right or left key button to choose a proper resolution.
Preset	The current settings for the computer input signal are saved and recalled for the next use. User can save the preset up to five settings. The following settings are saved: Resolution, Tracking, Sync Signal, Position.
Reset	Returns all menu items to their initial factory defaults. Select this item and then press the Enter button to display the confirmation screen. Next, select Yes and then press the Enter button to reset the menu. If you change your mind, select No and then press the Enter button to clear the confirmation screen without changing any settings.



Video Menu (Image source = Video)

The Video menu lets you make adjustments to the projected image. The following options are available when the image source is Video.

- ◆ **Note:** *The projector's image source must be set to Video, and the video source (such as a VCR or camcorder) must be connected and operating for you to access these menu options (for example, the projector must actually be projecting an image from a video tape, if you're using a VCR).*

Menu item	Description
Position	Select this item by pressing the Enter button to enter the screen position adjustment mode. Then use the Enter button (remote) or up, down, left and right buttons (operation panel) to move the screen position in the corresponding direction. When you finish making adjustment, press the Esc button to return to the Video submenu.
Brightness	Lightens or darkens the overall image. Increase the brightness to lighten an image, or decrease it to darken the image.
Contrast	Adjusts the difference between light and dark areas. Increase the contrast to make light areas lighter and dark areas darker. Decrease it to minimize the difference between light and dark areas.
Saturation	Adjusts color density. Increase the setting for darker and more opaque colors. Decrease it for lighter and less opaque colors.
Tint	Adjusts the red-green color balance of the screen. Increase the tint to add more green, (NTSC only) or decrease it to add more red. This setting only works with NTSC video signals.

Menu item	Description
Sharpness	Adjusts the screen sharpness. Increase the sharpness to make screen images more sharp, or decrease it to make the images less sharp.
Reset	Returns all menu items to their initial factory defaults. Select this item and then press the Enter button to display the confirmation screen. Next, select Yes and then press the Enter button to reset the menu. If you change your mind, select No and then press the Enter button to clear the confirmation screen without changing any settings.

Audio Menu

The Audio menu lets you make adjustments related to audio.

Menu item	Description
Volume	Adjusts the volume level for the speakers and audio-out terminal.
Treble	Adjusts the treble tone of the speakers.
Bass	Adjusts the bass tone of the speakers.
3D Sound	Adjusts the stereo sound. Increasing the value widens the sound.
Reset	Returns all menu items to their initial factory defaults. Select this item and then press the Enter button to display the confirmation screen. Next, select Yes and then press the Enter button to reset the menu. If you change your mind, select No and then press the Enter button to clear the confirmation screen without changing any settings.



Effect Menu

Use the Effect menu to modify what happens when you use the Effects buttons on the remote control and to change the cursor speed.

Menu item	Description
Cursor/Stamp	Set the stamp icon and zoom rate.
Box	Set the box color.
Marker	Set the marker color and width.
Free Line	Set the color and width.
Cursor Speed	Set the cursor speed to Low, Middle, or High.
Reset	Returns all menu items to their initial factory defaults. Select this item and then press the Enter button to display the confirmation screen. Next, select Yes and then press the Enter button to reset the menu. If you change your mind, select No and then press the Enter button to clear the confirmation screen without changing any settings.

Setting Menu

The Setting menu lets you adjust or set the various projector options.

Menu item	Description
Keystone	Adjusts the trapezoid distorted image to normal.
PinP	Selects the image source (Composite or S-Video) for the subscreen.
Message	Specifies whether a black screen, a blue screen, or a user logo displays when the screen is blanked.
Prompt	Temporarily displays a message on the projector screen to identify which source (computer or video) is providing the image.
A/V Mute	Turns off the audio and video output of the projector, clears all special effects, and displays a black, blue, or user logo screen.
BNC	Selects the RGB or YCrCb. When the input source is the computer, select RGB. When the input source is the video, select YCrCb.
DPMS	When you select the DPMS function, it recognizes PC's saving energy condition and automatically turns off the lamp. The lamp will be turned on when the saving energy condition is canceled.
Reset	Returns all menu items to their initial factory defaults. Select this item and then press the Enter button to display the confirmation screen. Next, select Yes and then press the Enter button to reset the menu. If you change your mind, select No and then press the Enter button to clear the confirmation screen without changing any settings.

User's Logo Menu

The User's Logo menu lets you display a custom logo on the screen.

Creating a user logo requires two steps:

- Storing a user logo
- Assigning the logo to the A/V Mute button

Storing a User Logo

Follow these steps to capture and store a logo:

1. Display the image(with the projector) you wish to use as a logo.
2. Press the Menu button to open the Menu window.
3. Select the User's Logo menu option by pressing the down arrow button on the operation panel or the Enter button on the remote control. Then press the Enter button to display the User's Logo Setting window.
4. The message, "Do you use the present image as a user logo?" appears on the screen. Choose Yes or No by pressing the left or right arrow buttons on the control panel or pressing left or right of the Enter button on the remote control. Then press Enter.
5. When you choose "Yes" in the step 4, a selection box will appear over the image. To select the portion of the image you wish to use as the logo, use the arrow buttons on the operation panel or the Enter button on the remote control. Once you have selected the desired area, press the Enter button.
6. The message "Do you use this image?" appears on the screen. Select Yes and press the Enter button. If you want to change the position, select No.

-
7. Next, the Zoom rate setting window appears on the screen. Select a rate using the arrow buttons or Enter button, then press the Enter button.
 8. The message “Do you save this user logo?” appears on the screen. Select Yes and press the Enter button. If you don’t want to save the logo, select No.

◆ **Note:** *Saving the logo may take a moment. Do not use the projector or other sources (computer, video, speaker, etc.) while the logo is being saved.*

9. When the message “Saving the user logo is completed” appears on the screen, press the Menu or Enter button to display the Main Menu.

Assigning the Logo to the A/V Mute Button

Follow these steps to assign the logo to the A/V Mute button:

1. Press the Menu button to open the Menu window.
2. Select the Setting menu and press the Enter button.
3. Select the Blank option (A/V Mute), then highlight User Logo.
4. Press the Menu button twice.

Now you can press the A/V Mute button on the operation panel or the remote control to display the user logo.

Reset All Menu

Selecting the Reset All menu option resets the settings in all menus to their factory defaults. It does not change or delete any user logo you may have stored.

You will be prompted to confirm the reset action. Select Yes or No, then press the Enter button to reset all the settings.

Advanced Menu

The Advanced menu enables you to set various projector options.

Menu item	Description
Language	Selects the menu language: Japanese, English, French, German, Italian, Spanish, Portuguese and Chinese.
Startup Screen	Displays the user logo during the warm-up after the projector is turned on.
Color Matching	Adjusts the whiteness of the screen. Positive color temperature values provide a cold white; negative values provide a warmer white. Press the right arrow button (operation panel) or the right of the Enter button (remote) to increase the color temperature value; press the left arrow button (operation panel) or the left of the Enter button (remote) to decrease the color temperature value.
Video Signal	Specifies the input image signal mode. User can select from AUTO, NTSC, NTSC 4.43, NTSC50, PAL, M•PAL, N•PAL, PAL 60 and SECAM.
Rear Proj.	Mirrors the projected image so it looks correct when you're projecting from behind onto a translucent screen. Selecting ON turns mirroring on, while OFF turns it off (for a normal image).

Menu item	Description
Ceiling	Flips the projected image so it looks correct when you're hanging the projector upside-down from the ceiling. Selecting ON turns this feature on, while OFF turns it off (for a normal image).
Mouse/Com	Locks or unlocks the Mouse/Com port. Select 1 to assign the wireless mouse control to the computer connected to the Mouse/Com 1 port only. Select 2 to assign the wireless mouse control to the computer connected to the Mouse/Com 2 port only. Selecting 1 ↔ 2 tells the projector to automatically switch wireless mouse control whenever the input source computer is changed.
Reset	Returns all menu items to their initial factory defaults. Select this item and then press the Enter button to display the confirmation screen. Next, select Yes and then press the Enter button to reset the menu. If you change your mind, select No and then press the Enter button to clear the confirmation screen without changing any settings.



About Menu

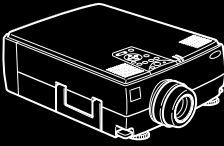
The About menu displays the following information about your projector.

Image source = Computer or Component Video

Menu item	Description
Lamp	Displays the number of hours the current lamp has been used. The lamp light turns red when the projector lamp needs to be replaced. When this happens, replace the projector lamp with a new one as soon as possible.
Frequency	Displays the horizontal and vertical frequency of the computer.
Sync Polarity	Displays the sync polarity of the computer.
Sync Mode	Displays the sync mode of the computer.
Resolution	Displays the output resolution of the computer video output.
Refresh Rate	Displays the refresh rate of the computer video output.

Image source = Video

Menu item	Description
Lamp	Displays the number of hours the current lamp has been used. The lamp light turns red when the projector lamp needs to be replaced. When this happens, replace the projector lamp with a new one as soon as possible.
Video Signal	Displays the input image signal mode.



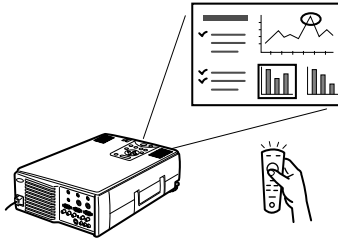
4

Using the ELP Link IV Software

The ELP Link IV Software is a utility you can run from your desktop or laptop computer to control projector features and draw special graphics on your screen. You can also use the software to reconfigure the special effect buttons on the remote control.

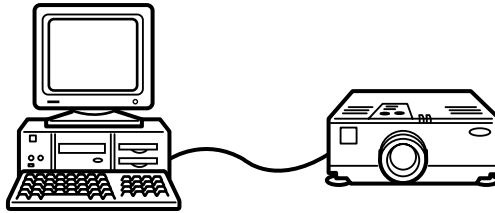
Presentation support function

The presentation support function allows you to perform real-time presentation effectively by a remote control shipped with the projector.



Projector setting function

The projector setting function allows you to control the projector from your computer.



- ◆ **Note:** See the ELP Link IV demonstration included in the Projector Software CD-ROM.

System requirements

To use the ELP Link IV utility and to look at the PDF User's Guide, the following system requirements must be met.

Using a PC

- IBM compatible PC with Pentium or higher processor
- Microsoft Windows 95/98 or Windows NT 4.0
- At least 16MB of RAM for ELP Link IV to work (16MB to be added for Acrobat Reader to work)
- At least 6MB of free hard disk space for ELP Link IV installation (8MB to be added for Acrobat Reader and 3MB for User's Guide installation)
- Double-speed CD-ROM drive (Quad-speed or faster recommended)
- VGA or better monitor

Using a Macintosh

- 68000 series or PowerPC processor
- System 7.5.5/OS 7.6/OS 8.0/OS 8.1/OS 8.5/OS 8.5.1/OS 8.6 (Can only be used with English version)
- At least 16MB of RAM for ELP Link IV to work (6MB to be added for Acrobat Reader to work)
- At least 5MB of free hard disk space for ELP Link IV installation (8MB to be added for Acrobat Reader and 3MB for User's Guide installation)
- Double-speed CD-ROM drive (Quad-speed or faster recommended)
- Color monitor, 640 x 480 screen resolution (832 x 624 or higher recommended), and 256 colors (32,000 colors or more recommended)

Projector Software CD-ROM

The following software is enclosed.

ELP Link IV utility

Offers a lot of advantages to your presentation in using a cursor, bar, or stamps with the remote control shipped with your projector. And you can control the brightness and size of the screen, and the sound from your computer.

ELP Link IV User's Guide

Provides you with detailed information and instructions to use ELP Link IV. The User's Guide is provided in a PDF (Portable Document Format) file. To read this manual, Adobe Acrobat Reader must be installed.

- ◆ **Note:** *A Portuguese User's Guide is not provided.*

Adobe Acrobat Reader

Acrobat Reader is the program provided by Adobe Systems Incorporated that you need to read PDF files. To install Acrobat Reader, always see the license agreement and follow the instructions. For more information about Acrobat Reader, see Online Help or Adobe's home page. (<http://www.adobe.com>)

- ◆ **Note:** *There is no Portuguese version of Adobe Acrobat Reader.*

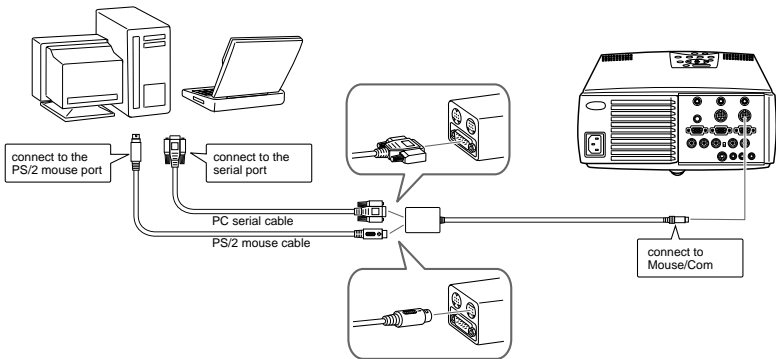
Connecting the Cables

When you are using the following EPSON projector, follow the instructions below. If not, please see the User's Guide packed with your projector.

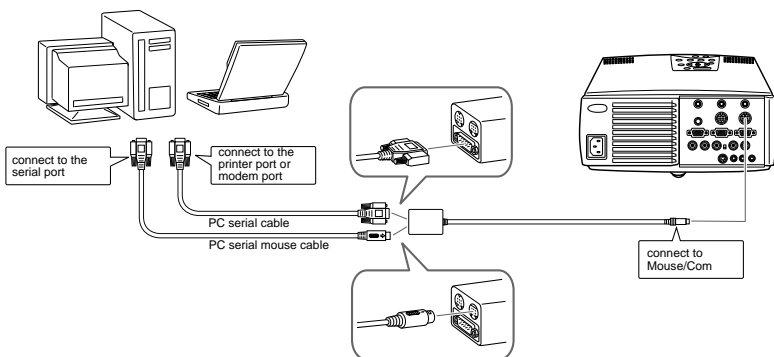
- ◆ **Caution:** *Before connecting the cables to your computer, make sure that the computer and projector are turned off and unplugged from any power source; otherwise damage may occur.*

Connecting to your PC

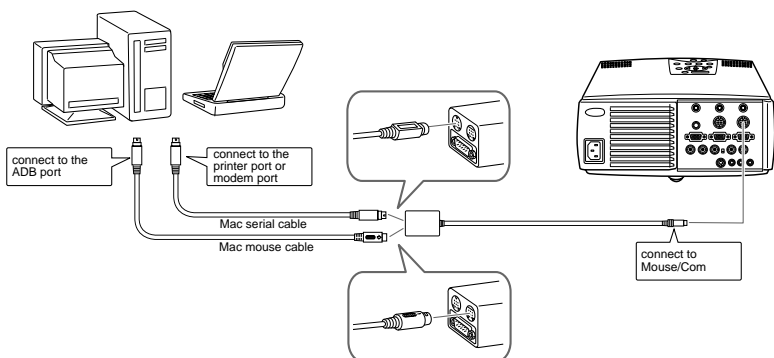
Using the PS/2 mouse



Using the serial mouse



Connecting to your Macintosh



Installing the Projector Software on Your PC

After connecting the projector to your PC, install the Windows-based projector software as described below.

1. Turn on the computer and start Windows.
2. Insert the EPSON Projector Software CD-ROM into the CD-ROM drive. The following dialog box appears.



- ◆ **Note:** *If the dialog box does not appear, follow the steps below.*

For Windows 95/98 or NT 4.0 users:

Double-click the My Computer icon, then double-click the CD-ROM drive icon. Double-click Setup.exe.

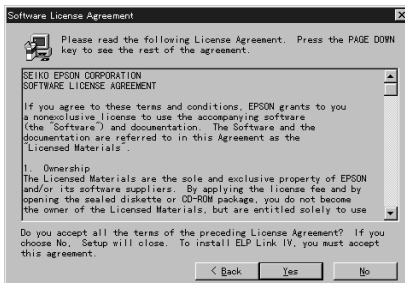
3. Select language from the list box.
4. Check the checkbox for the program(s) you wish to install, and click OK.

- ◆ **Note:** *ELP Link cannot be used unless you select ELP Link IV in this step. The ELP Link PDF User's Guide cannot be used unless you install Acrobat Reader.*

5. Check the displayed message, and then click Next.



6. The product license will be displayed. After reading it, click Yes if you agree to its terms and conditions.



◆ **Note:** *If you do not agree to its terms and conditions, click No. Installation will be cancelled.*

7. Click Next.

This screen will show several precautions related to installation of ELP Link IV. Be sure to read them carefully.



8. Click Next.

The recommended installation location will be displayed, but you may install elsewhere if you wish. To specify a different installation location, click Browse, and select the desired directory from the dialog.



9. Click Next.

A folder named “ELP Link IV” will be created in the Programs menu as the default, but you may enter a different folder name, or select one of the existing folders if you prefer.



10. This screen will be displayed when installation is complete. Click Finish.

This completes the installation of ELP Link IV. If you placed a checkmark in the box next to Acrobat Reader in step 4 above, then the installation program will begin installation of the Acrobat Reader software.



Installation of Acrobat Reader

The following screen will be displayed if you placed a checkmark in the box next to Acrobat Reader in step 4. Click Yes to install.



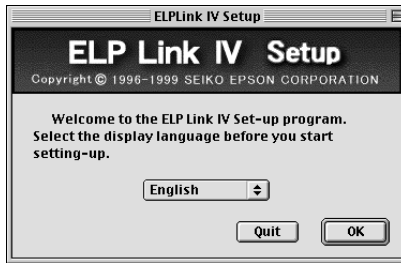
1. Follow the screen directions to install the software.

- ◆ **Note:** *For details on launching ELP Link IV and using the application, please refer to your PDF User's Guide. (page xx)*

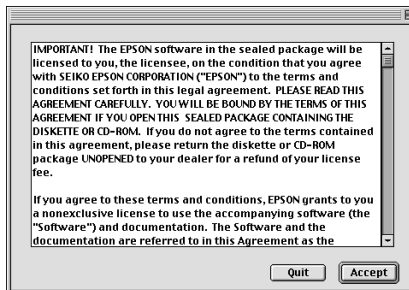
Installing the Projector Software on Your Macintosh

After connecting the projector to your Macintosh, install the Macintosh-based projector software as described below.

1. Turn on your Macintosh, then insert the EPSON Projector Software CD-ROM in the CD-ROM drive.
2. Double-click the ELP Link 4 Installer icon. The following dialog box appears.

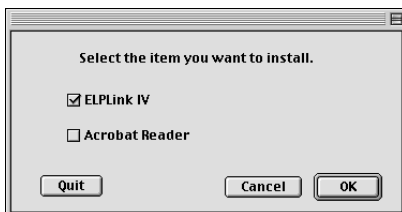


3. Select language from the pop-up menu. Then click OK.
4. Read the license agreement. If you agree with it, click Accept.

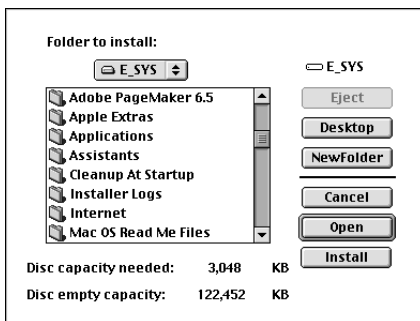


5. Check the checkbox for the program(s) you wish to install, and click OK.

◆ **Note:** *ELP Link cannot be used unless you select ELP Link 4 in this step. The ELP Link PDF User's Guide cannot be used unless you install Acrobat Reader.*



6. Select the drive and folder to install to.



7. Click the Install button, and installation will begin.

8. Click Continue.

- ◆ **Note:** *This screen will only be displayed if you placed a checkmark in the box next to Acrobat Reader in step 4.*



9. Follow the screen directions to install the software.

- ◆ **Note:** *For details on launching ELP Link IV and using the application, please refer to your PDF User's Guide.*

Accessing the Projector Software

To access the EPSON projector software, follow the steps below.

For Windows 95/98 and NT 4.0 users

ELP Link IV

Click Start, point to Programs, and ELPLink IV, then select ELPLink IV.

User's Guide

Click Start, point to Programs, and ELPLink IV, then select User's Guide.

- ◆ **Note:** *Make sure that Acrobat Reader is installed on your PC before accessing the User's Guide.*

For Macintosh users

ELP Link 4

Open the DATA folder, then the ENGLISH folder.
Open the ELPLink4 folder, then double-click the ELP Link 4 icon.

User's Guide

Open the DATA folder, then the ENGLISH folder.
Open the PDF_FILE folder, then double-click the User's Guide icon.

- ◆ **Note:** *Make sure that Acrobat Reader is installed on your Macintosh before accessing the User's Guide.*

Installing or Accessing the Projector Software on the CD-ROM Directly

When you install or access the software on the CD-ROM directly, follow the instructions below.

For Windows users

Select Explorer from your Start menu, and use Explorer for the following operations.

ELP Link IV

Open the DATA folder, then the ENGLISH folder and ELP Link IV. Then open your OS folder. Double-click the SETUP. EXE.

Acrobat Reader

Open the DATA folder, then the ENGLISH folder and AR folder. Then open your OS folder and double-click AR32E301.EXE (for Windows 95/98), or WINNT folder and double-click AR32E301.EXE (for Windows NT).

User's Guide (PDF)

Open the DATA folder, then the ENGLISH folder. Then open the PDF_File folder and double-click SETUP. EXE.

For Macintosh users

ELP Link 4

Open the DATA folder, then the ENGLISH folder and copy the ELPLink4 folder to your hard disk. The PDF User's Guide will be copied with it.

Acrobat Reader

Open the DATA folder, then the English folder. Open the AR folder. Double-click the Installer icon.

User's Guide (PDF)

Copy the PDF file from the DATA folder to your hard disk.





5

Maintenance

Your projector needs little maintenance. You should keep the lens clean because any dirt or smears appear on the screen. You also need to periodically clean the air filter at the bottom of the projector. A clogged air filter can block ventilation needed to cool the projector and keep it from overheating.

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

- ◆ **Warning:** *Before you clean any part of the projector, turn off the projector and unplug the power cord. Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages in the projector can injure you severely. Do not try to service this product yourself, except as specifically explained in this User's Guide. Refer all other servicing to qualified service personnel.*

Cleaning the Lens

Clean the lens whenever you notice dirt or dust on the surface. Lightly wipe the lens surface with a soft, dry, lint-free cloth.

To remove dirt or smears on the lens, moisten a soft cloth with an alcohol-based cleaner and gently wipe the lens surface.

Cleaning the Projector Case

To clean the projector case, first unplug the power cable. To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth. To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent. Then wipe the case.

Do not use alcohol, benzene, thinners or other chemical detergents. These can cause the case to warp.

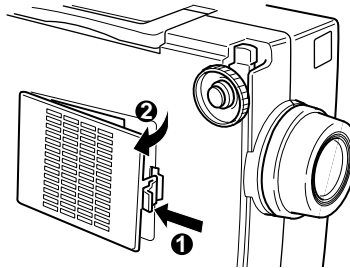
Cleaning the Air Filter

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

1. Turn off the projector and unplug the power cable.
2. Stand the projector with the handle at the top, and you can access the filter easily.

◆ **Note:** *Standing the projector with the handle at the top keeps dust from getting inside the projector housing.*

3. Pull up the filter cover tab to release the filter cover. Remove the cover.



4. The filter is attached to the inside of the filter cover. It is recommended that you use a small vacuum cleaner designed for computers and other office equipment to clean the filter. If you don't have one, use a dry, lint-free cloth.

If the dirt is difficult to remove or if the filter is torn, replace it. Contact your dealer or call EPSON Service Center.

5. Replace the filter cover when you're done.

Replacing the Lamp

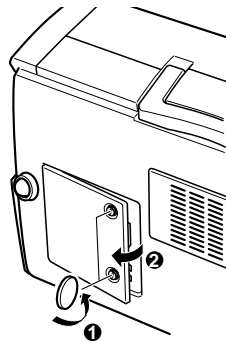
Replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The projection lamp indicator is flashing orange.
- The message "LAMP REPLACE" appears on the screen when the projector lamp comes on.

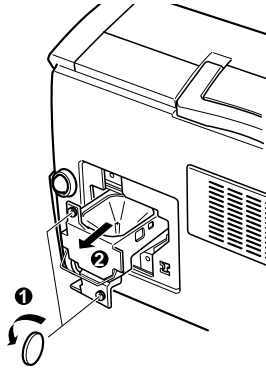
◆ **Note:** *To keep the initial brightness and image quality, replace the lamp as soon as possible when the message appears on the screen. The replacement message is set to being displayed at about 1500 hours of use. Contact your local EPSON dealer for a spare lamp. Request part number ELPLP09.*

◆ **Warning:** *Let the lamp cool before replacing it. Also, do not touch the glass portion of the lamp assembly. Touching the glass portion of the lamp will result in premature lamp failure.*

1. Turn off the projector and unplug the power cable.
2. Turn the projector over so you can access the lamp cover.
3. Use a screwdriver, coin, or similar object to loosen the two retaining screws on the lamp cover. When the screws are loose, lift off the lamp cover. (You cannot remove these screws from the cover.)

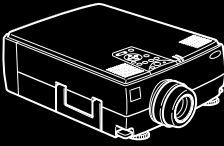


-
4. Use the screwdriver, coin, or similar object to loosen the two screws holding the lamp unit in place. (You cannot remove these screws.)
 5. Lift up the handle and pull out the lamp unit.



6. Gently insert the new lamp unit by lowering it into position. Make sure it is inserted securely.
7. Tighten the screws you loosened in step 4.
8. Replace the lamp cover and tighten the cover screws. (Make sure the lamp cover is securely fastened. The projector turns itself off if the lamp cover is open.)





6

Troubleshooting

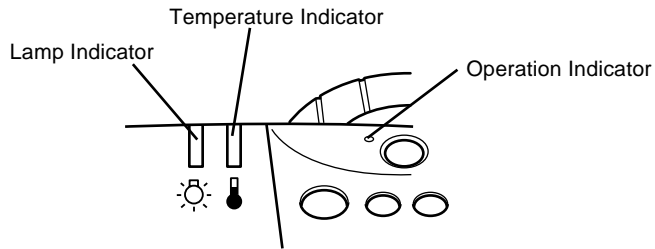
This chapter describes the problems indicated by the warning lights and provides information on how to solve problems with the projector. It is divided into the following sections:

- Problems with the projector. See this section if the projector is not working and to find out what the warning lights are indicating.
- Problems with the screen image. See this section if you cannot project an image or if the screen image is poor.

If you have a problem, refer to the appropriate section and follow all suggestions that apply to your problem. If none of the suggested solutions solves the problem, call your dealer or EPSON Service Centre.

Problems with the Projector

If you have problems with the projector, first turn it off and unplug it. Then plug the power cord back in and turn on the projector. If this does not solve the problem, check the warning lights at the top of the projector. These lights alert you to problems with projector operation.



See the following pages for information on what to do when you see these warning lights or encounter other specific problems with the projector.

- The operation indicator is flashing orange and you cannot turn on the projector.**

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

- The operation indicator does not come on.**

Turn off the projector, check that the power cable is connected securely both at the power outlet and the projector, and press the Power button again.

- Projected images get darker or start to deteriorate, or the lamp indicator is red.**

Replace the projector lamp as described on page 86.

□ **The temperature indicator is red.**

The projector is overheating, which turns the lamp off automatically. Let the projector cool for a few minutes, then turn it back on. Make sure nothing is blocking the ventilation vents.

The air filter may be clogged. Clean it as described in Chapter 5 and then let the projector cool for a while.

If the projector continues to overheat after you clean the air filter, the problem may be caused by damage to the cooling fan or internal circuits. Contact a qualified service person.

- ◆ **Warning:** *Do not attempt to service this product yourself except as specifically explained in this User's Guide.*

Problems with the Image or Sound

❑ **An image does not appear on the screen.**

Check that the power light is on and the lens cover is off. Also make sure the cables are installed correctly, as described in Chapter 1.

The correct image source may not be selected. Press the Source button on the remote control or the operation panel to choose another image source.

❑ **Only part of the computer image is displayed.**

If the computer's output resolution setting is higher than 1024×768 (EMP-7350/7250) and 800×600 (EMP-5350), the projector resizes the image. If the computer output is not compatible with this resizing, choose a different display setting on the computer. For supported display settings, see "Supported Monitor Displays" on page 97, 98.

You also may need to modify existing presentation files if you created them for a different resolution. See your software manual for specific information.

❑ **The message NO SIGNAL is displayed.**

An image source not connected to the projector is selected, the signal is not being output from the computer, or the signal is not reaching the projector. Make sure the connectors are securely attached to both the projector and the image source. Then check that the image source is selected correctly. When NO SIGNAL is displayed, you cannot access the Video (computer/video) menu.

❑ A blank screen is displayed.

The computer signal cannot be interpreted by the projector. Verify the display format (see page 97, 98). When you see a blank screen, you cannot access the projector menus.

❑ The image or parts of the image are blurred or not in focus.

Adjust the Brightness and Contrast settings on the Video menu. If you're viewing a computer image, also try adjusting the Tracking and Sync buttons on the projector's operation panel.

There may be dirt or smears on the lens. Clean the lens as described in Chapter 5, "Maintenance."

❑ The colors of the image are not right.

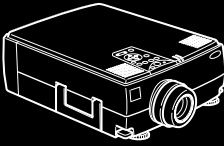
The color balance may be incorrect. If you're displaying a computer image, adjust the red, green, and blue settings in the Video menu. If you're displaying video, adjust the Color and Tint (NTSC only) settings on the Video menu.

❑ There is no sound.

First check that the volume setting is not turned all the way down and that the audio/video cable is securely attached to both the projector and the audio source. Also, make sure that the Mute button is off.

The wrong source is selected. Press either the Computer or Video button on the remote control or operation panel to select the proper source.





7

Technical Specifications

General

Type of display	Poly-silicon TFT
Size of liquid crystal panels	1.3 inches (33.1 mm)
Resolution	EMP-7350/7250:1024 (horizontal) x 768 (vertical) pixels EMP-5350: 800 (horizontal) x 600 (vertical) pixels
Image size	23 - 300 inches (0.6 - 7 meters)
Projection distance	EMP-7350/7250:47.2-626.0 inches (1.2 - 15.9 meters) EMP-5350: 47.2-618.1 inches (1.2-15.7 meters)
Remote control range	32.8 feet (10 meters)
Internal speaker system	3W x 2 stereo
Optical aspect ratio	4 : 3 (horizontal : vertical)
Zoom ratio	1:1.3

Projector Lamp

Type	UHE Lamp (Ultra High Efficiency Lamp)
Power	150 W
Part number	ELPLP09

Mechanical

Height	5.1 inches (129 mm) Maximum dimension
Width	11.8 inches (300 mm) Maximum dimension
Depth	15.8 inches (400 mm) Maximum dimension
Weight	13.8lb (6.2 kg)

Electrical

Voltage	100 - 120 V _{AC} and 200 - 240 V _{AC} ± 10%
Rated frequency	50/60 Hz
Power supply	100 - 120 V _{AC} , 2.7 A, 50/60 Hz 200 - 240 V _{AC} , 1.4 A, 50/60 Hz

Environmental

Temperature	Operation: 41 - 104° F (5 - 40° C), non-condensing Storage: 14 - 140° F (-10 - 60° C), non-condensing
Humidity	Operation: 20 - 80% RH, non-condensing Storage: 10 - 90% RH, non-condensing

Supported Monitor Displays

The projector displays images at a resolution of 1024×768 (EMP-7350/7250) and 800×600 (EMP-5350) pixels. To display a higher resolution image, the projector compresses it to 1024×768 (EMP-7350/7250) and 800×600 (EMP-5350). The following table lists the display formats supported by the projector:

- ◆ **Note:** *EMP-5350 does not support the UXGA and HDTV 1080 modes.*

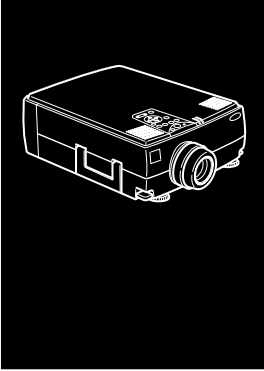
	Format	Hor Pix [Pixels]	Ver Pix [Lines]	H. Freq [KHz]	V. Freq [Hz]
PC98	PC98	640	400	24.82	56.42
PC/AT	VGACGA	640	400	31.46	70.00
DOS/V	VGAEGA	640	350	31.46	70.00
	NEC400	640	400	24.83	56.65
	VGA60	640	480	31.47	59.94
	VESA72	640	480	37.86	72.81
	VESA75	640	480	37.50	75.00
	VESA85	640	480	48.27	85.01
	SVGA56	800	600	35.16	56.25
	SVGA60	800	600	37.88	60.32
	SVGA72	800	600	48.08	72.19
	SVGA75	800	600	46.88	75.00
	SVGA85	800	600	53.67	85.06
	XGA431	1024	768	35.52	86.96
	XGA60	1024	768	48.36	60.00
	XGA70	1024	768	56.48	70.07
	XGA75	1024	768	60.02	75.03
	XGA85	1024	768	68.68	85.00
	SXGA1_70	1152	864	63.85	70.01
	SXGA_75	1152	864	67.50	75.00
	SXGA_85	1152	864	77.09	85.00
	SXGA2-60	1280	960	60.00	60.00
	SXGA2-75	1280	960	75.00	75.00
	SXGA2-85	1280	960	85.94	85.00

	Format	Hor Pix [Pixels]	Ver Pix [Lines]	H. Freq [KHz]	V. Freq [Hz]
	SXGA3_43i	1280	1024	46.43	86.87
	SXGA3_60	1280	1024	63.98	60.02
	SXGA3_75	1028	1024	79.98	75.03
	SXGA3_85	1280	1024	90.15	85.02
	*UXGA48i	1600	1200	62.50	96.08
	*UXGA60	1600	1200	75.00	60.00
	*UXGA65	1600	1200	81.25	65.00
	*UXGA70	1600	1200	87.50	70.00
	*UXGA75	1600	1200	93.75	75.00
	*UXGA80	1600	1200	100.00	80.00
	*UXGA85	1600	1200	106.25	85.00
Mac	MACLC13	640	480	34.98	66.62
	MAC II 13	640	480	35.00	66.67
	MAC16	832	624	49.73	74.55
	MAC16	832	624	49.73	74.55
	MAC19-60	1024	768	48.19	59.58
	MAC19	1024	768	60.24	74.93
	MAC21	1152	870	68.68	75.06
Video	HDTV480P (ANSI/ SMPTE)	720	483	31.47	59.94
	HDTV480P (ATSC)	704	480	31.47	59.94
	HDTV480i (ANSI/ SMPTE)	720	487	15.73	59.94
	HDTV480i (ATSC)	704	480	15.73	59.94
	HDTV720P (SMPTE)	1280	720	44.96	59.94
	*HDTV1080P (ANSI/ SMPTE)	1920	1080	67.43	59.94
	*HDTV1080i (ANSI/ SMPTE)	1920	1080	33.72	59.94
	NTSC	640	480	15.734	60
	PAL	768	576	15.625	50
	SECAM	768	576	15.625	50

Monitor and Computer In 1/2 connector pin assignments

The Monitor and Computer In 1/2 connectors are female video RGB, 15-pin micro-D-style connectors. The pin assignments are:

Input pin	Signal
1	Red analogue input
2	Green analogue input
3	Blue analogue input
4	GND
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	Reserved
10	Sync GND
11	GND
12	SDA
13	Horizontal sync/composite sync input
14	Vertical sync input
15	SCL



Glossary

Brightness. The balance of light and dark shades in an image.

Composite video. A type of video signal that encodes colours, luminance and synchronization information so it can be carried in one signal.

Contrast. A measure of the luminance differences between the highlights and shadows of an image. In a high-contrast image, light areas are very bright and dark areas are very dark.

NTSC. A 525-line video broadcast format developed by the National Television Standards Committee. NTSC is widely used in North America, Mexico and Japan.

PAL (Phase Alternation by Line). A 625-line video broadcast format used in Western Europe, India, China, Australia, New Zealand and parts of Africa.

Resolution. A measure of the amount of detail contained in an image. Resolution can be measured in dots per inch or in pixels. Image sharpness and clarity improve as resolution increases.

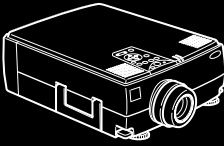
RGB. Red Green Blue

S-Video. A type of video signal which transmits luminance and colour separately.

SECAM (Système Electronique pour Couleur Avec Mémoire). A 625-line TV system used in France, Eastern Europe, Russia and parts of Africa.



Serial. A type of communication interface that transmits data over a single wire.



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Printed in Japan
75417716
01.05-2A(C01)