PowerLite S8+/PowerLite W8+/EX51
Multimedia Projector

User's Guide

Important Safety Information

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

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

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

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Welcome

The PowerLite S8+/PowerLite W8+/EX51 is an easy-to-use, compact, lightweight projector with a built-in speaker. It offers up to 2500 lumens of white and color light output (brightness). It also provides a native SVGA (PowerLite S8+), XGA (EX51), or WXGA (PowerLite W8+) resolution. You can connect it to a wide range of computers and video sources. You can also project JPEG files from a USB storage device (EX51/PowerLite W8+ only).

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

- **Plug n' Play instant setup**—instantly project images from a Windows® PC via USB connection
- **Ultra HD-quality with just one cable**—all digital HDMI audio/video connection (EX51/PowerLite W8+ only)
- **PC-free slideshows and presentations**—USB thumb drive port (EX51/PowerLite W8+ only)
- **Quick, convenient control**—Direct Power On, sleep mode, Instant Off ®/On
- **Easy picture adjustment**—ultra flexible, Auto Keystone correction and optical zoom (EX51/PowerLite W8+ only)
- **Security features**—password protection, user's logo, projector button lock, security cable attachment (cable not included), and a slot for an optional Kensington® security lock

Additional enhancements:

- 2000:1 contrast ratio (in Dynamic color mode with Auto Iris setting turned on)
- Integral lens cover (A/V Mute slide) that won't get lost
- Low power, long-lasting lamp with 2 Power Consumption modes

- Carrying case and remote control included

Using Your Documentation

This book contains all the information you need to set up and use your projector. Please follow these guidelines as you read through it:

- Warnings must be followed carefully to avoid bodily injury.
- Cautions must be observed to avoid damage to your equipment.
- Notes contain important information about your projector.
- Tips contain additional projection hints.

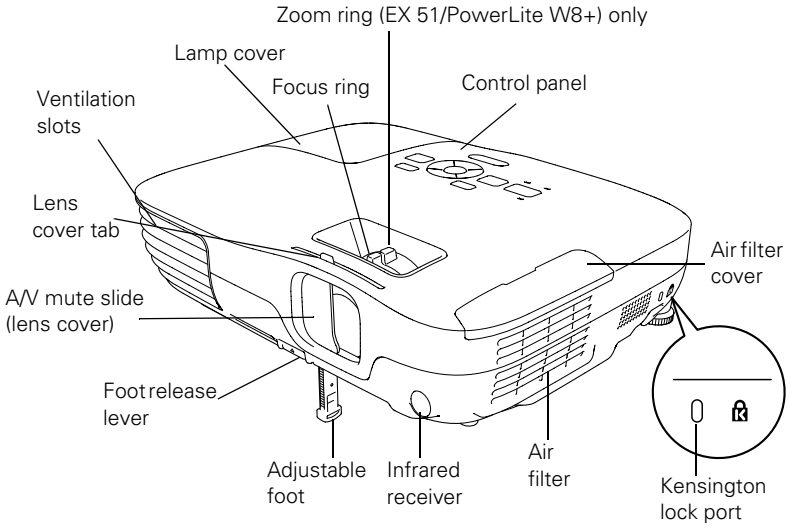
Getting More Information

Need quick steps for setting up your projector? Here's where you can look for help:

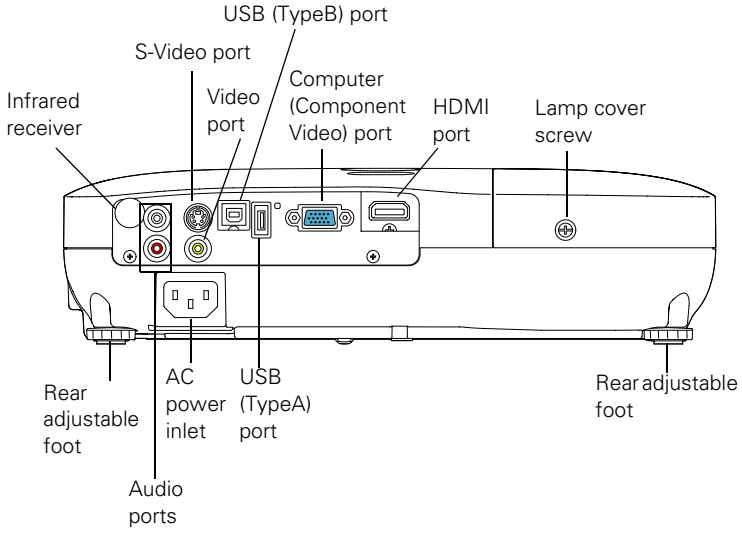
- *Quick Setup* sheet
  Provides information for connecting the projector to your equipment, displaying and adjusting the image, and solving display problems.
- Built-in help system
  Provides assistance for common problems. Available from the ? Help button on the projector or the remote control. See page 88 for details.
- www.latin.epson.com
  Download FAQs and e-mail your questions to Epson support.

Projector Parts

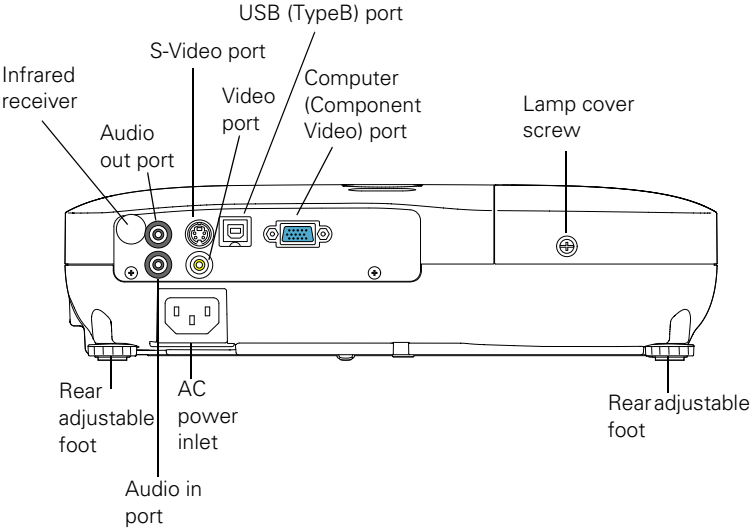
Front



EX51/PowerLite W8+ Back

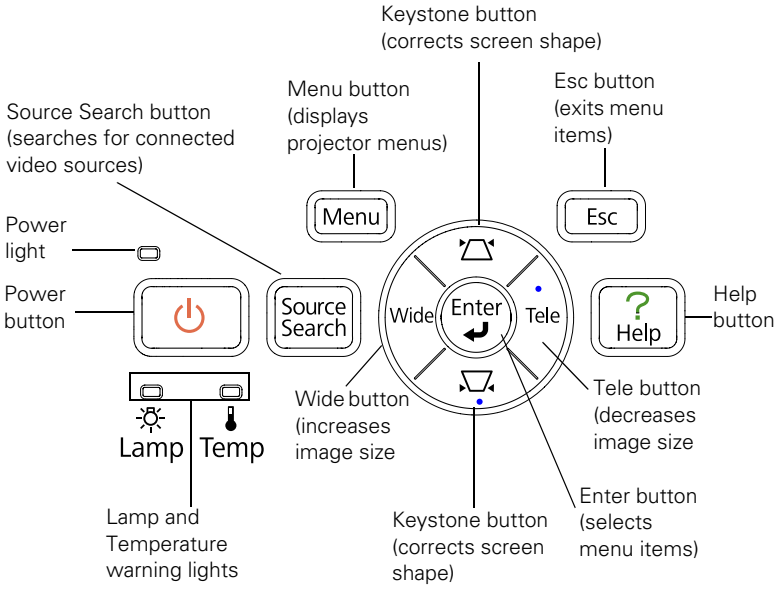


PowerLite S8+ Back

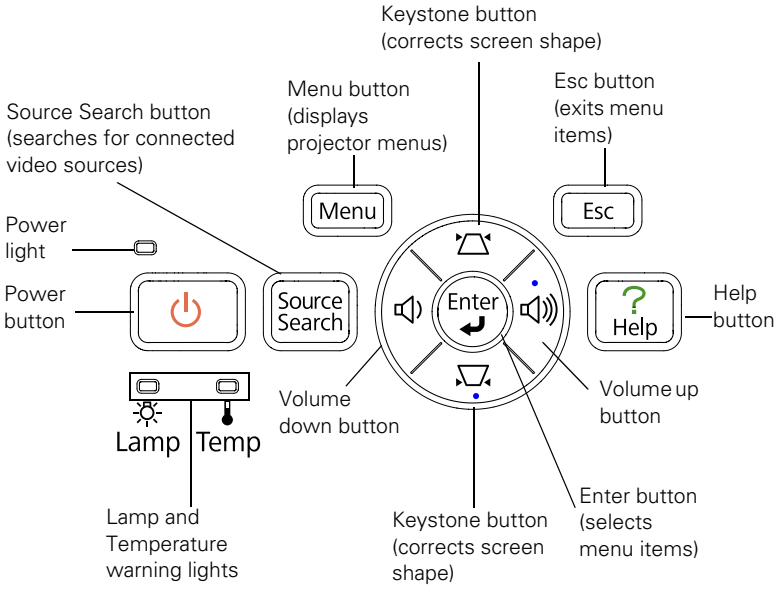


Projector Control Panel

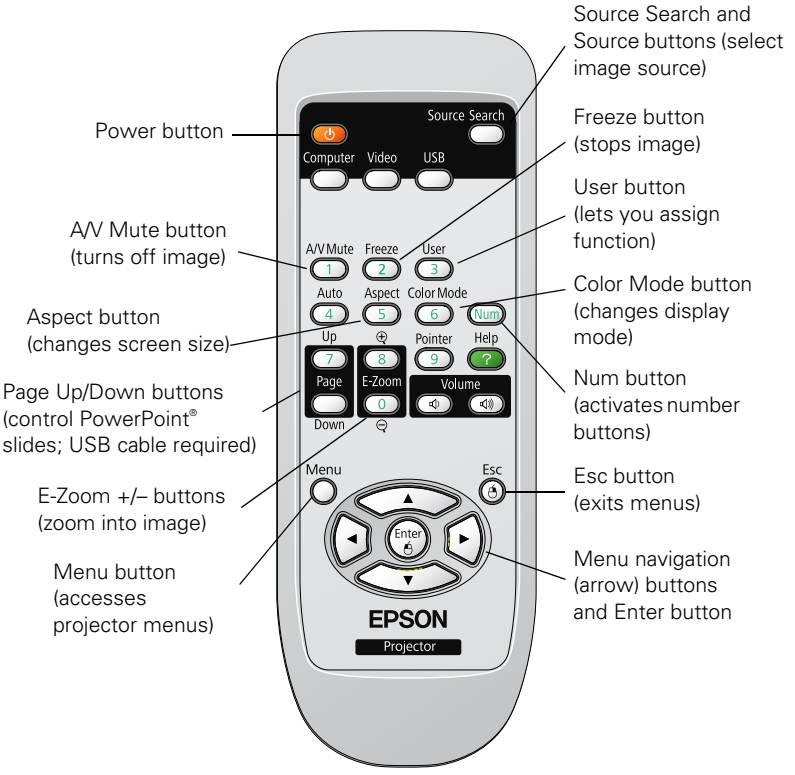
PowerLite S8+



EX51/PowerLite W8+

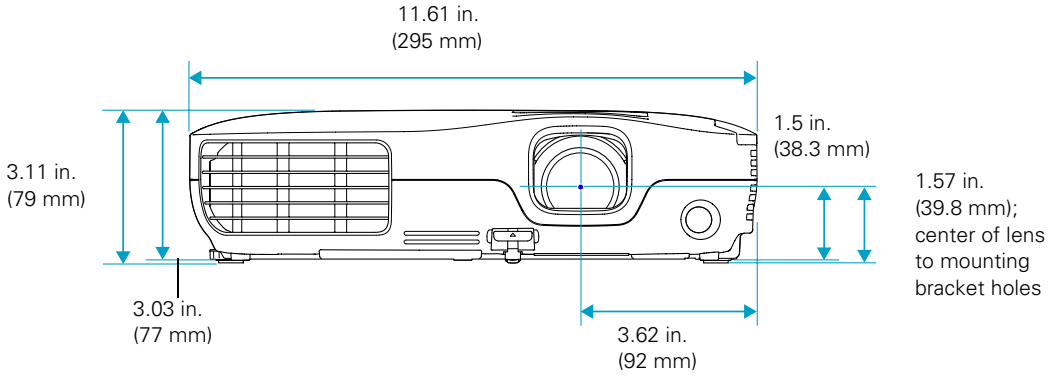


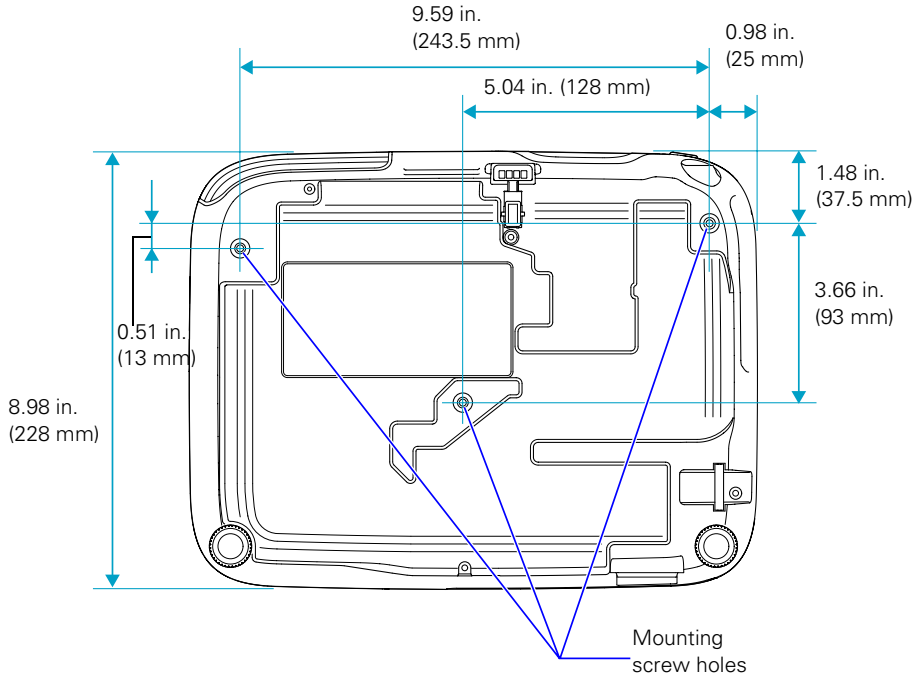
Remote Control



Projector Dimensions

Use the dimensions below to guide you in placing or installing the projector.





Warranty

The projector comes with a basic warranty that lets you project with confidence. For details, see the warranty on page 113.

Optional Accessories

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

Product	**Part number**
Replacement lamp	V13H010L54
Replacement air filter set	V13H134A25
Universal projector ceiling mount Adjustable suspended ceiling channel kit False ceiling plate kit Structural round ceiling plate Adjustable extension column (pipe) 8" - 11"	ELPMBPJF ELPMBP01 ELPMBP02 ELPMBP03 ELPMBC01
Kensington security lock	ELPSL01
50-inch portable screen (4:3 aspect ratio) 80-inch portable pop-up screen (4:3 aspect ratio) Accolade® Duet™ Portable Projector Screen (4:3/16:9)	ELPSC06 ELPSC08 ELPSC80
Component-to-VGA video cable S-Video cable	ELPKC19 ELPSV01
DC-06 document camera (ELPDC06) DC-10s document camera	V12H321001 ELPDC10S
Soft shoulder case for projector and notebook Wheeled soft carrying case Molded hard-shell wheeled carrying case Swiss Gear® backpack	ELPKS61 ELPKS62 ELPKS58 ELPKS63

You can purchase screens or other accessories from an Epson authorized reseller. To find the nearest reseller, contact Epson as described on page 98.

1 Setting Up the Projector

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

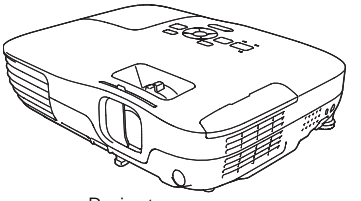
You can also connect the projector to a USB storage device or digital camera (EX51/PowerLite W8+ only).

Follow the instructions in this chapter on:

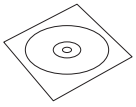
- Unpacking the projector
- Positioning the projector
- Connecting to a computer
- Connecting to video equipment
- Playing sound through the projector
- Connecting to a digital camera or other USB device (EX51/PowerLite W8+ only)
- Turning the projector on and off

Unpacking the Projector

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

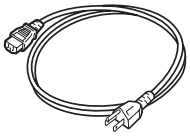


Projector



PDF manuals
CD-ROM

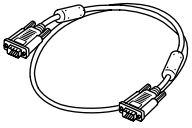
Password Protected
sticker



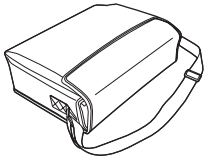
Power cord

Remote control

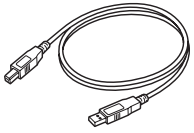
2 AA batteries
(for remote control)



VGA computer cable



Carrying case



USB cable

Save all packaging in case you need to ship the projector. Always use the original packaging (or the equivalent) when you need to send the projector to another location. See page 85 for transportation instructions. (If you are moving the projector by hand, use the carrying case.)

Additional Components

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

- To receive an HDMI signal from your video device, you'll need an HDMI cable (EX51/PowerLite W8+ only). One may be provided with your video equipment.
- To receive a component video signal from a DVD player or other video device, you'll need a component-to-VGA video cable. One may be included with your video equipment, or you can purchase the ELPKC19 cable from an Epson authorized reseller. See "Optional Accessories" on page 16.
- To receive an S-Video signal, you'll need an S-Video cable. One may be included with your video equipment, or you can purchase one from an Epson authorized reseller. See "Optional Accessories" on page 16.
- To receive an audio signal, you'll need an RCA-type audio cable with two male plugs, or a stereo mini-jack audio adapter cable (with red and white jacks on one end) for the PowerLite S8+.

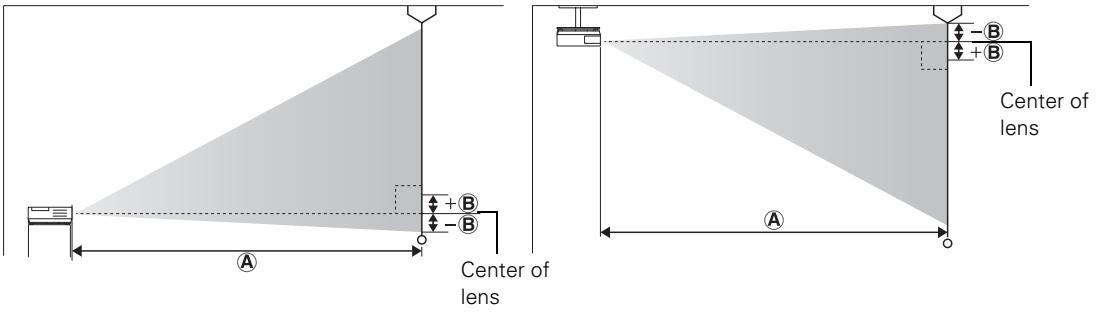
Positioning the Projector

If the projector isn't already installed in the room you're using, you'll probably want to place it on a table in front of the screen. This lets you stand in the front of the room, face the audience, and remain close enough to the equipment to be able to control it.

Keep these considerations in mind as you position the projector:

- Place the projector on a sturdy, level surface.
- Make sure there is plenty of space for ventilation around and under the projector.
- Make sure the projector is within 5.9 feet (1.8 meters) of a grounded electrical outlet or extension cord.

Image size increases with distance, but can vary depending on the aspect ratio (image shape), how you zoom into the image, and whether you've adjusted other image settings. Use the illustrations and tables below to help you determine the projection distance.



You can also use the Image Size Calculator on the Epson website.

PowerLite S8+ (4:3 images)

Screen size	Projection distance (A) Wide to Tele	Offset (B)
30 inches (76 cm)	34 to 47 inches (87 to 119 cm)	–2 inches (–5 cm)
50 inches (127 cm)	58 to 79 inches (147 to 200 cm)	–3.3 inches (–8 cm)
60 inches (152 cm)	70 to 95 inches (177 to 240 cm)	–3.9 inches (–10 cm)
80 inches (203 cm)	93 to 126 inches (237 to 321 cm)	–5.2 inches (–13 cm)
100 inches (254 cm)	117 to 158 inches (297 to 402 cm)	–6.5 inches (–17 cm)
150 inches (381 cm)	176 to 238 inches (447 to 605 cm)	–9.8 inches (–25 cm)
200 inches (508 cm)	235 to 318 inches (597 to 807 cm)	–13.1 inches (–33 cm)

PowerLite S8+ (16:9 images)

Screen size	Projection distance (A) Wide to Tele	Offset (B)
30 inches (76 cm)	37 to 51 inches (95 to 130 cm)	+0.3 inch (+1 cm)
50 inches (127 cm)	63 to 86 inches (161 to 218 cm)	+ 0.5 inch (+1 cm)
60 inches (152 cm)	76 to 103 inches (193 to 262 cm)	+0.6 inch (+2 cm)
80 inches (203 cm)	102 to 138 inches (259 to 350 cm)	+0.8 inch (+2 cm)
100 inches (254 cm)	128 to 173 inches (324 to 438 cm)	+1.1 inches (+3 cm)
150 inches (381 cm)	192 to 259 inches (487 to 659 cm)	+1.6 inches (+4 cm)
200 inches (508 cm)	256 to 346 inches (651 to 880 cm)	+2.1 inches (+5 cm)

EX51 (4:3 images)

Screen size	Projection distance (A) Wide to Tele	Offset (B)
30 inches (76 cm)	35 to 42 inches (89 to 107 cm)	–2 inches (–5 cm)
40 inches (102 cm)	47 to 56 inches (119 to 143 cm)	–2.7 inches (–7 cm)
50 inches (127 cm)	59 to 71 inches (150 to 180 cm)	–3.3 inches (–8 cm)
60 inches (152 cm)	71 to 85 inches (180 to 217 cm)	–4 inches (–10 cm)
80 inches (203 cm)	95 to 114 inches (241 to 290 cm)	–5.3 inches (–14 cm)
100 inches (254 cm)	119 to 143 inches (302 to 363 cm)	–6.7 inches (–17 cm)
150 inches (381 cm)	179 to 215 inches (454 to 546 cm)	–10 inches (–25 cm)
200 inches (508 cm)	239 to 287 inches (607 to 729 cm)	–13.3 inches (–34 cm)
250 inches (635 cm)	299 to 359 inches (759 to 912 cm)	–16.7 inches (–42 cm)

Screen size	Projection distance (A) Wide to Tele	Offset (B)
300 inches (762 cm)	359 to 431 inches (912 to 1095 cm)	–20 inches (–51 cm)

EX51 (16:9 images)

Screen size	Projection distance (A) Wide to Tele	Offset (B)
30 inches (76 cm)	38 to 46 inches (97 to 117 cm)	+0.3 inch (+1 cm)
40 inches (102 cm)	51 to 62 inches (130 to 156 cm)	+0.4 inch (+1 cm)
50 inches (127 cm)	64 to 77 inches (163 to 196 cm)	+0.5 inch (+1 cm)
60 inches (152 cm)	77 to 93 inches (196 to 236 cm)	+0.5 inch (+1 cm)
80 inches (203 cm)	103 to 124 inches (263 to 316 cm)	+0.7 inch (+2 cm)
100 inches (254 cm)	130 to 156 inches (329 to 396 cm)	+0.9 inch (+2 cm)
150 inches (381 cm)	195 to 234 inches (495 to 595 cm)	+1.4 inches (+3 cm)
200 inches (508 cm)	260 to 313 inches (661 to 794 cm)	+1.8 inches (+5 cm)
250 inches (635 cm)	326 to 391 inches (827 to 994 cm)	+2.3 inches (+6 cm)
275 inches (699 cm)	358 to 430 inches (910 to 1093 cm)	+2.5 inches (+6 cm)

PowerLite W8+ (16:10 image)

Diagonal screen size	Projection distance (A) Wide to Tele	Offset (B)
40 inches (102 cm)	44 to 53 inches (111 to 134 cm)	–3 inches (–8 cm)
50 inches (127 cm)	55 to 66 inches (139 to 168 cm)	–3.8 inches (–10 cm)
60 inches (152 cm)	66 to 79 inches (168 to 202 cm)	–4.5 inches (–12 cm)
80 inches (203 cm)	88 to 106 inches (225 to 270 cm)	–6.1 inches (–15 cm)

Diagonal screen size	Projection distance (A) Wide to Tele	Offset (B)
100 inches (254 cm)	111 to 133 inches (281 to 338 cm)	–7.6 inches (–19 cm)
150 inches (381 cm)	167 to 200 inches (424 to 509 cm)	–11.4 inches (–29 cm)
200 inches (508 cm)	223 to 268 inches (566 to 680 cm)	–15.1 inches (–38 cm)
320 inches (813 cm)	357 to 429 inches (907 to 1089 cm)	–24.2 inches (–62 cm)

PowerLite W8+ (4:3 image)

Screen size	Projection distance (A) Wide to Tele	Offset (B)
40 inches (102 cm)	50 to 60 inches (126 to 152 cm)	–3.4 inches (–9 cm)
50 inches (127 cm)	62 to 75 inches (158 to 190 cm)	–4.3 inches (–11 cm)
60 inches (152 cm)	75 to 90 inches (190 to 229 cm)	–5.1 inches (–13 cm)
80 inches (203 cm)	100 to 121 inches (255 to 306 cm)	–6.9 inches (–17 cm)
100 inches (254 cm)	126 to 151 inches (319 to 383 cm)	–8.6 inches (–22 cm)
150 inches (381 cm)	189 to 227 inches (480 to 577 cm)	–12.9 inches (–33 cm)
200 inches (508 cm)	252 to 303 inches (641 to 770 cm)	–17.1 inches (–44 cm)
280 inches (711 cm)	354 to 425 inches (898 to 1079 cm	–24 inches (–61 cm)

PowerLite W8+ (16:9 image)

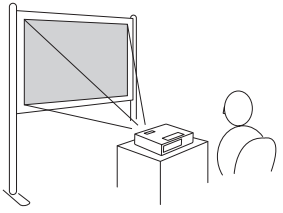
Screen size	Projection distance (A) Wide to Tele	Offset (B)
40 inches (102 cm)	45 to 54 inches (114 to 137 cm)	–2 inches (–5 cm)
50 inches (127 cm)	56 to 68 inches (143 to 172 cm)	–2.5 inches (–6 cm)
60 inches (152 cm)	68 to 82 inches (172 to 208 cm)	–3 inches (–8 cm)
80 inches (203 cm)	91 to 109 inches (231 to 278 cm)	–4 inches (–10 cm)
100 inches (254 cm)	114 to 137 inches (289 to 348 cm)	–5.1 inches (–13 cm)
150 inches (381 cm)	171 to 206 inches (435 to 523 cm)	–7.6 inches (–19 cm)
200 inches (508 cm)	229 to 275 inches (582 to 699 cm)	–10.1 inches (–26 cm)
310 inches (787 cm)	356 to 427 inches (903 to 1084 cm)	–15.7 inches (–40 cm)

Projector Placement Options

When projecting from the front, you should place the projector directly in front of the center of the screen, facing the screen squarely. The center of the lens should be about level with the bottom of the screen.

note

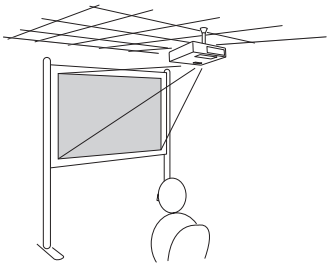
After positioning the projector, you may want to connect a Kensington MicroSaver® anti-theft device to the lock port on the projector. You can purchase this froma an authorized Epson reseller; see page 16.



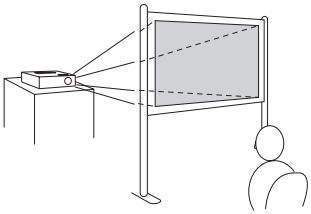
Front projection

If you place the projector below screen level, you may need to tilt it up by extending the front adjustable foot. Tilting the projector causes the image to become “keystone” shaped, but you can correct the distortion (see page 45). The EX51/PowerLite W8+ may be able to correct the distortion automatically.

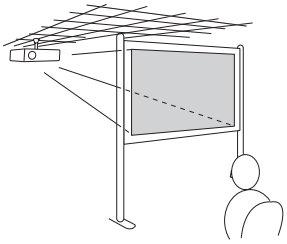
You can also install the projector in three other viewing setups: ceiling projection, rear projection onto a semi-transparent screen, or rear/ceiling projection.



Ceiling projection



Rear projection



Rear/ceiling projection

To project from overhead, you'll need the optional ceiling mounting hardware (see page 16). You'll also need to select the appropriate Projection setting in the projector's Extended menu to orient the image correctly (see page 69).

Connecting to a Computer

You can connect the projector to a Windows computer using the projector's TypeB USB port. This lets you carry a lightweight cable with you when you transport the projector (see page 26).

You can connect the projector to any computer that has a standard video output (monitor) port, including desktop models, PC notebook computers, Macintosh PowerBook® and iBook® computers, and hand-held devices. See page 28 for instructions.

To play sound through the projector, connect an audio cable (see page 35).

You may be able to use your remote control as a wireless mouse when projecting from a computer (see page 54).

note
The USB Display feature does not support Mac OS.

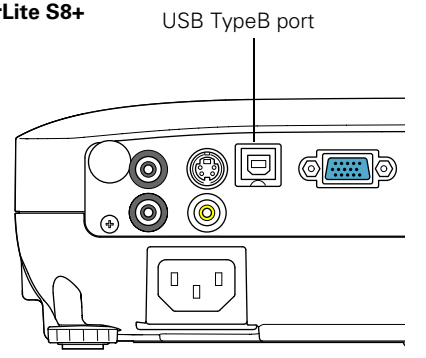
Connecting to the USB Port

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

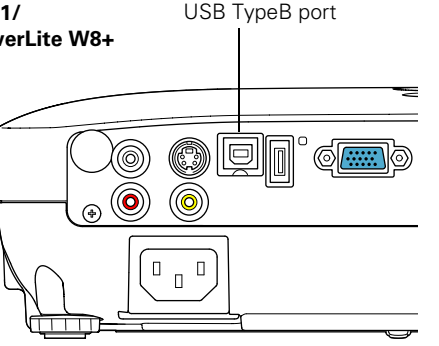
The first time you connect a computer to the projector's USB port, software from the projector is installed on your computer.

1. Follow the instructions beginning on page 38 to turn on the projector.
2. Make sure the USB Type B setting on the Extended menu is set to USB Display (see page 68).
3. Turn on your computer.
4. Connect the square end of a USB cable to the projector's TypeB (square) USB port.

PowerLite S8+



EX51/ PowerLite W8+



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

   Messages appear on your computer screen as the projector is recognized and the software is installed automatically.

6. Follow the instructions on the screen to install the Epson USB Display software. If you see a "Digital Signature Warning," select Continue or Continue Anyway. (You see these instructions only the first time you connect.)

   After the software is installed, you see your computer's current desktop displayed by the projector. You can switch the projector to other image sources using the Source Search or Search button on the remote control or the projector.

7. You can connect an optional audio cable if you want to play sound through the projector (see page 35).

When you've finished making connections, see Chapter 2 for instructions on displaying and adjusting the image.

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

note

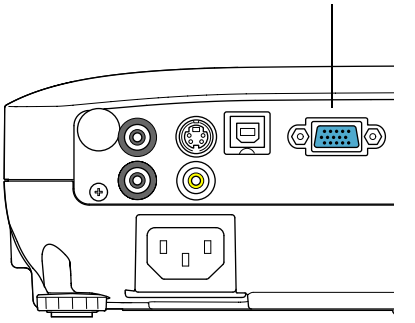
If the software does not install automatically, you can install it manually.

Connecting to the VGA Computer Port

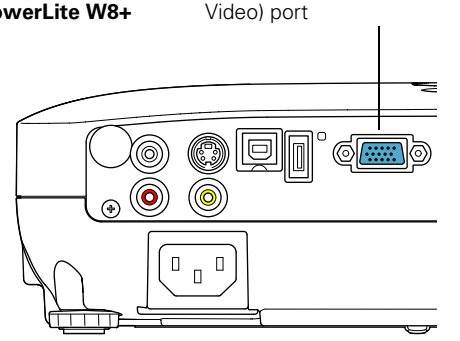
You can connect to the projector using the VGA computer cable that came with it (the monitor port on your computer must be a D-sub 15-pin port).

1. Connect one end of the VGA computer cable to the projector's Computer (Component Video) port and the other end to your computer's monitor port.

PowerLite S8+



EX51/ PowerLite W8+



caution

Don't try to force a connector to fit a port with a different shape or number of pins. You may damage the port or connector, or the device you are trying to connect.

2. You may need to change the Input Signal setting in the projector's Signal menu to RGB or Auto (see page 66).
3. You can connect an optional audio cable to play sound through the projector (see page 35).
4. You may also be able to use the remote control as a wireless mouse (see page 54).

When you've finished making connections, see page 38 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

Connecting to Video Equipment

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

- EX51/PowerLite W8+ only: If your video player has an HDMI connector, see "Connecting an HDMI Video Source (EX51/PowerLite W8+ only)" on page 30.
- If your video player has a yellow RCA video output connector, see "Connecting a Composite Video Source" on page 31.
- If your video player has an S-Video connector, see "Connecting an S-Video Source" on page 32.
- If your video player has a component video port (three connectors labeled either Y/Cb/Cr or Y/Pb/Pr), see "Connecting a Component Video Source" on page 33.
- If your video player has an RGB video port, see "Connecting an RGB Video Source" on page 34.

After connecting video cables, you may also want to connect an optional audio cable to play sound through the projector; see page 35.

If you connect using an HDMI cable (EX51/PowerLite W8+ only), the video and sound are both transferred and you won't need to connect any additional cables for audio.

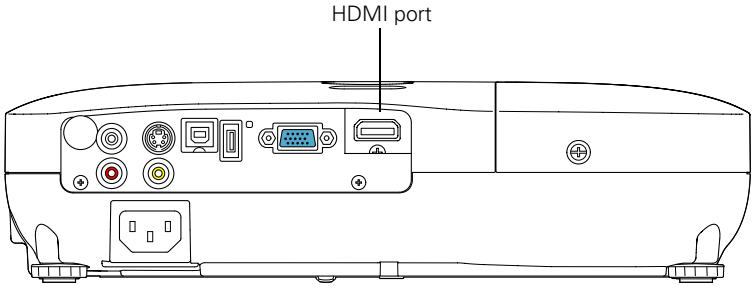
Connecting an HDMI Video Source (EX51/PowerLite W8+ only)

For the best image and sound quality, connect your video equipment to the HDMI (High-Definition Multimedia Interface) port, if possible.

Connect an HDMI cable to the HDMI connector on your player and the HDMI connector on the projector.

note

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

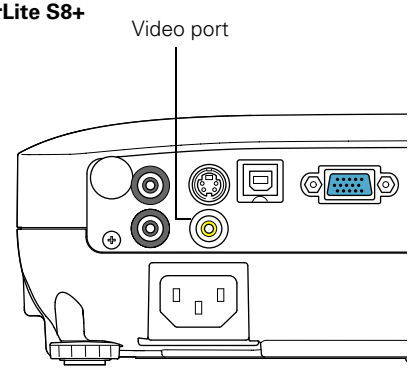


When you've finished making connections, see page 38 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

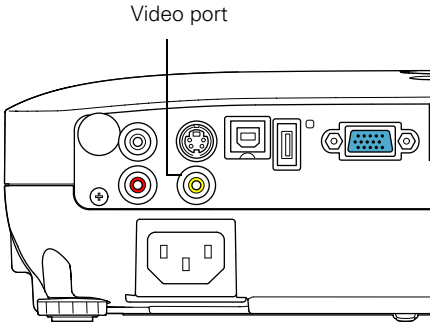
Connecting a Composite Video Source

1. If your video cable has an RCA connector, connect it to the yellow video output connector on your player and the yellow Video port on the projector.

PowerLite S8+



EX51/PowerLite W8+



2. If you want to play sound through the projector, see page 35 for instructions on connecting an audio cable.

When you've finished making connections, see page 38 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

note

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

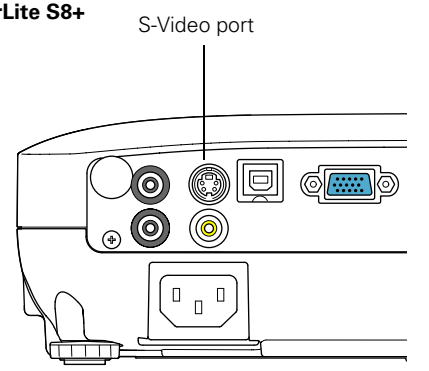
note

If the S-Video cable was not provided with your video device, you can purchase one from an authorized Epson reseller; see page 16.

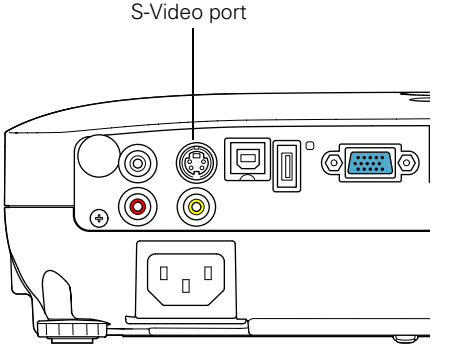
Connecting an S-Video Source

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

PowerLite S8+



EX51/PowerLite W8+



2. If you want to play sound through the projector, see page 35 for instructions on connecting an audio cable.

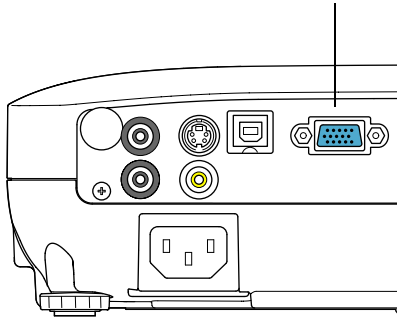
When you've finished making connections, see page 38 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

Connecting a Component Video Source

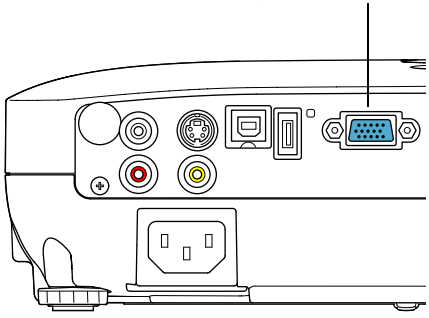
If your video equipment has component video connectors (three connectors labeled either Y/Cb/Cr or Y/Pb/Pr), you can purchase a component-to-VGA video cable from an Epson authorized reseller (see page 16) or an electronics dealer.

1. Connect the component end of the cable (3 male RCA) to the Y/Cb/Cr (or Y/Pb/Pr) connectors on your player.
2. Connect the other end of the cable (HD15 male) to the Computer (Component Video) port on your projector using an optional component-to-VGA video cable or adapter.

PowerLite S8+



EX51/ PowerLite W8+



3. You may need to change the Input Signal setting in the projector's Signal menu to Auto (see page 66).
4. If you want to play sound through the projector, see page 35 for instructions on connecting an audio cable.

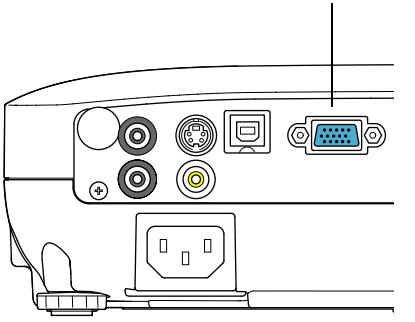
When you've finished making connections, see page 38 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

Connecting an RGB Video Source

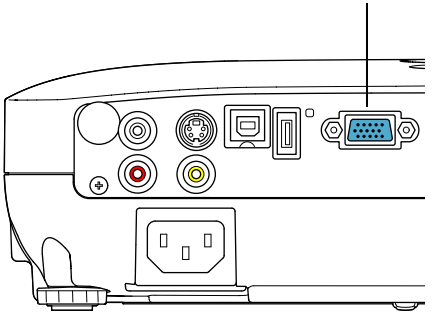
You can connect to an RGB video source using the VGA computer cable provided with the projector.

1. Connect the cable to the RGB video port on your player and the Computer (Component Video) port on the projector.

PowerLite S8+



EX51/ PowerLite W8+



2. You may need to change the Input Signal setting in the projector's Signal menu to RGB (see page 66).
3. If you want to play sound through the projector, see page 35 for instructions on connecting audio cables.

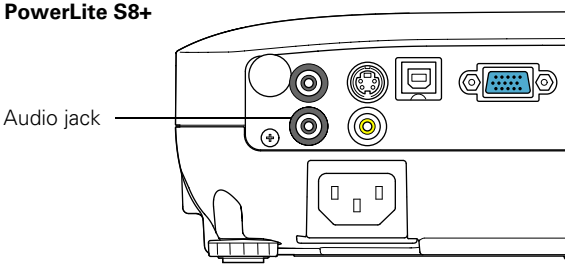
When you've finished making connections, see page 38 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

Playing Sound Through the Projector

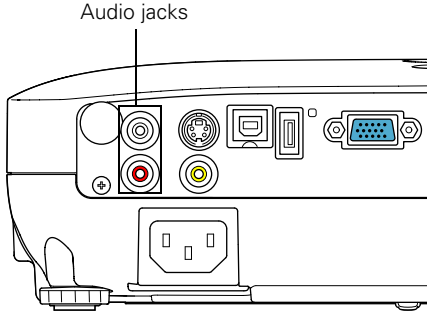
You can play sound through the projector's speaker system.

1. Locate the appropriate cable and connect it to the Audio jacks on the projector.

PowerLite S8+



EX51/PowerLite W8+



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

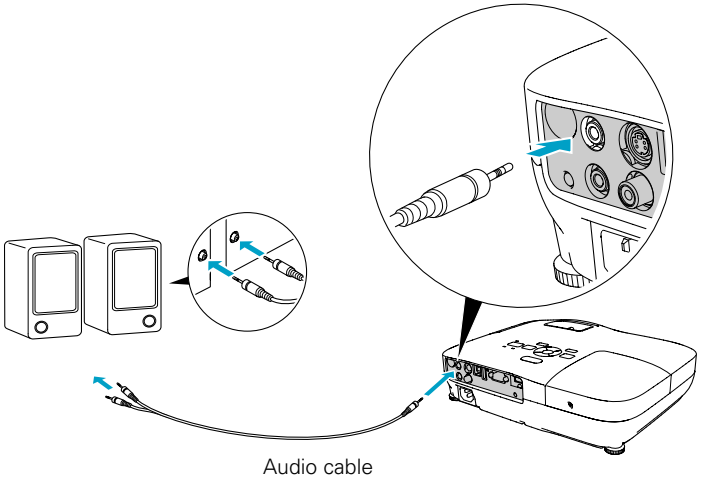
Connecting External Speakers (PowerLite S8+ Only)

You can output sound from the projector to external speakers with a built-in amplifier.

1. Locate the appropriate cable to connect your speakers.

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

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



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

The projector's internal speaker system is disabled while sound is output to external speakers.

Connecting a Digital Camera or Other USB Device (EX51/PowerLite W8+ Only)

You can connect your digital camera, USB thumb (flash memory) drive, USB hard drive, or multimedia storage viewer, such as the Epson P-7000. Then you can use the projector's Slideshow function to display JPEG images or a presentation. See page 57 for details.

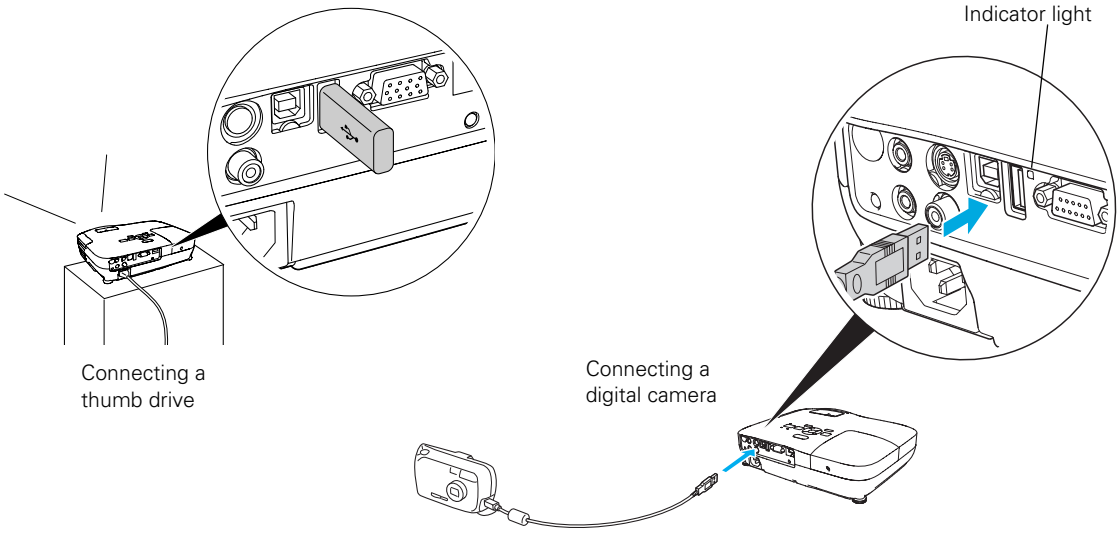
Use the USB cable specified for your device.

1. Follow the instructions beginning on page 38 to turn on the projector.
2. Connect the USB drive or the flat end of the USB cable to the ⇐ USB TypeA port on the projector, as shown.

note

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

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



3. Connect the other end of the cable to your camera or other device, if necessary.

   The indicator light on the projector turns orange and then green when a USB device is connected.

4. If you are not connected to another image source, the Slideshow program appears.

   If you are connected to another image source, press the USB button on the remote control to go to the Slideshow program.

5. See page 57 for instructions on controlling the slideshow.
6. When you're finished, press Esc and select Exit to exit the Slideshow before turning off or removing the USB device.

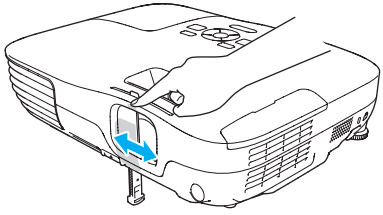
Be sure to turn off your USB device (if necessary) before you remove the device or cable from the projector. Failure to do so may damage the device and/or the projector.

Turning the Projector On and Off

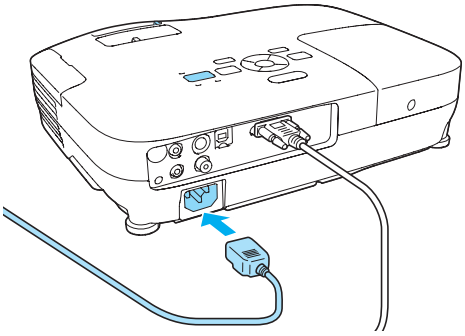
Turn on any connected computer or video equipment before starting the projector so it can automatically detect and display the image source. If you turn on the projector first, or have multiple pieces of connected equipment, you may have to select the image source manually (see page 44).

Follow these steps to turn on the projector:

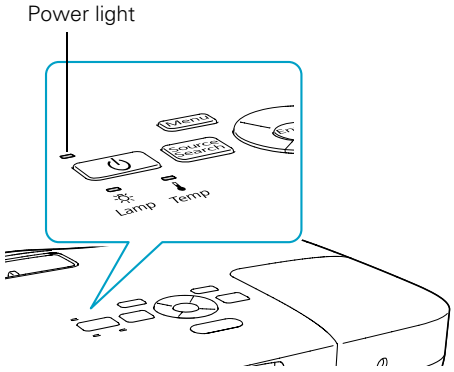
1. Open the A/V Mute slide (lens cover).



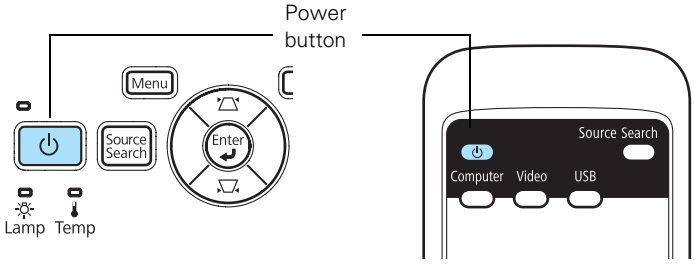
2. Plug one end of the power cord into the projector, and the other end into an electrical outlet.



The ⏻ power light turns orange.



3. Press the ⏻ power button on the projector or on the remote control.



warning

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

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

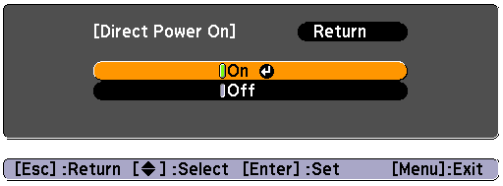
4. If you are prompted to enter a password, see page 72.

Using the Direct Power On Function

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

Follow these steps to enable Direct Power On:

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



note

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

4. Highlight On and press Enter.
5. Press Menu to exit. The setting will take effect the next time you plug the projector into a power outlet.

Shutting Down the Projector

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

1. To turn off the projector, press the ⏻ power button on the remote control or projector.

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

2. Press the ⏻ power button again. The projection lamp turns off and the projector beeps twice. You can then unplug the power cord.

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

note

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

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

You can set the projector to automatically turn off the lamp and enter "sleep mode" when it has not received any signals for 1 to 30 minutes (see page 69). This conserves electricity, cools the projector, and extends the life of the lamp. If you want to start projecting again, press the ⏻ power button. If you are done using the projector, unplug the power cord.

2 *Displaying and Adjusting the Image*

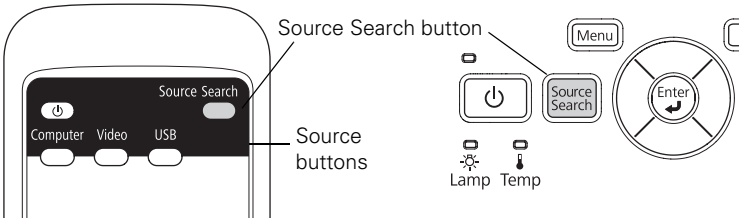
Follow the guidelines in this chapter for:

- Selecting an image source
- Adjusting the image

Selecting an Image Source

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

If you don't see the image you want, press the Source Search button on the remote control or the projector until you see the image you want to project. Or, press one of the Source buttons on the remote control (Computer, Video, or USB).



If you still can't see an image or can't project the same image that is on your notebook or computer screen, see page 91 for solutions.

Select USB to project from a USB device (EX51/PowerLite W8+ only). See page 57 for instructions.

Adjusting the Image

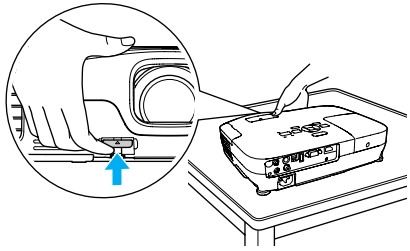
Once you see your image, you may need to make certain adjustments:

- If the image is too high or too low, reposition it as described below.
- If the image isn't square, see page 45.
- To focus or zoom your image, see page 47.
- To quickly adjust the color, brightness, or contrast, see page 48.
- To change the image aspect ratio, see page 49.
- If you need to fine-tune the image and/or sound, see Chapter 5.

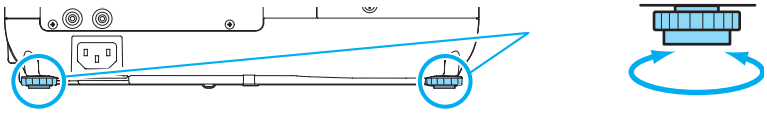
Adjusting the Position of the Image

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

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



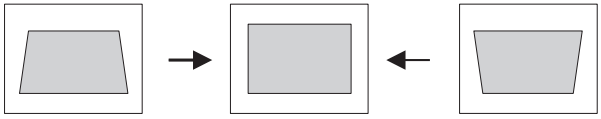
2. Once the image is positioned where you want it, release the lever to lock the foot in position.
3. If the image is tilted or you need to fine-tune the height of the image, you can turn the projector's adjustable rear feet.



Raising the projector may cause the image shape to distort or "keystone," but you can correct the shape as described below.

Adjusting the Image Shape

You can maintain a rectangular image by placing the projector directly in front of the screen and keeping it level. This also produces the best picture quality. If the projector is tilted up or down (up to 30°), or placed at an angle, the shape may "keystone" and you may need to correct the image shape.

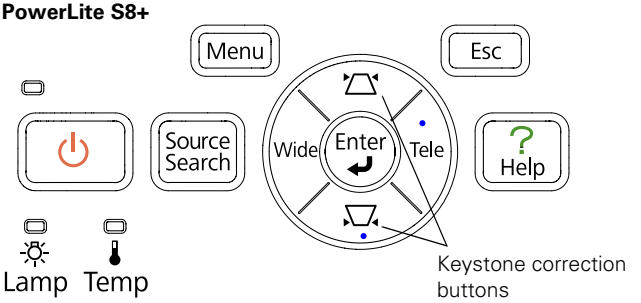


The EX51 and PowerLite W8+ projectors include an Auto Keystone function that detects and corrects vertical keystone distortion. It takes about one second after the projector starts for the image to be corrected.

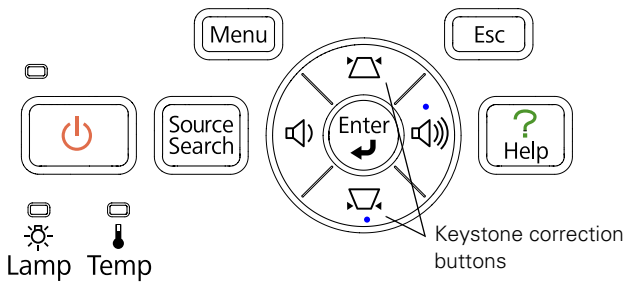
If your image is still distorted, or you are using the PowerLite S8+ projector, do one of the following:

- Press the appropriate keystone correction button on the projector's control panel until the shape is evenly rectangular.

PowerLite S8+



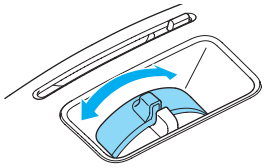
EX51/PowerLite W8+



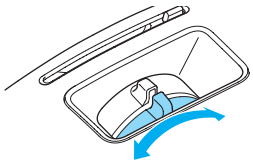
- Select the Keystone setting in the projector's Settings menu (see page 67). Then use the arrow buttons on the remote control to adjust the shape of the image.

Focusing and Zooming the Image

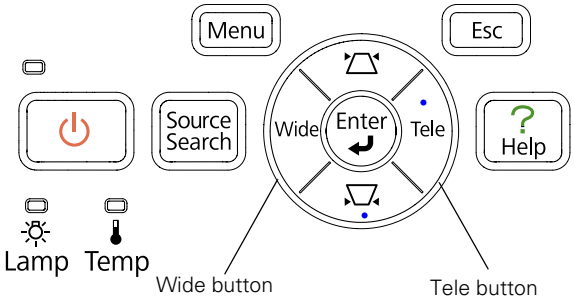
Turn the focus ring on the projector to sharpen the image.



EX51/PowerLite W8+: to enlarge or reduce the image, turn the zoom ring.



PowerLite S8+: to enlarge or reduce the image, press the Wide (enlarge) or Tele (reduce) button on the projector's control panel. You can also use the Zoom setting in the projector's Settings menu; see page 67 for instructions.



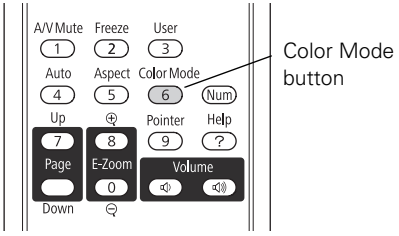
If the image still isn't large enough, you may need to move the projector farther away from the screen.

You can also use the E-Zoom buttons on the remote control to zoom in on a portion of the image. See page 53 for instructions.

Selecting the Color Mode

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

Press the Color Mode button on the remote control to select an option. Press it until the option you want is projected in the upper right corner.



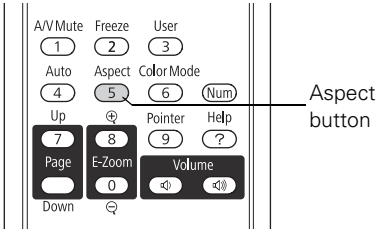
Select from one of these Color Mode options:

- Dynamic: Brightest mode; for video games or TV in a bright room.
- Presentation: For color presentations in a bright room.
- Theatre: For natural-toned movies in a darkened room.
- Photo: For vivid, high-contrast still images in a bright room (only available when the source is set to Computer or USB.)
- Sports: For vivid TV images in a bright room (only available for component video, S-Video, or composite video sources).
- sRGB: Matches the color palette of standard sRGB computer displays.
- Blackboard: Projects accurate colors on a green chalkboard (adjusts the white point).
- Whiteboard: For computer presentations in a bright room with black-and white text and graphics.

Resizing Video Images

You can resize your images by changing the aspect (width to height) ratio (depending on your input signal).

Press the Aspect button on the remote control. Press the Aspect button repeatedly to cycle through the available options.



Select from one of these Aspect options:

PowerLite S8+/EX51

- Normal (for images sent through the Computer (Component Video) port only): Displays images using the full projection area and maintains the aspect ratio of the image. Choose this setting to automatically resize the image and make the best use of the display area.
- Auto (HDMI images on **PowerLite W8+** only): Automatically sets the aspect ratio according to the input signal. Choose this setting to project an HDMI image in the best aspect ratio.
- 4:3: Displays images using the full projection area at an aspect ratio of 4:3.
- 16:9: Converts the aspect ratio of the image to 16:9. 4:3 ratio images are elongated horizontally to fit.

PowerLite W8+

- Auto (HDMI images only): Automatically sets the aspect ratio according to the input signal. Choose this setting to project an HDMI image in the best aspect ratio.

note

You cannot change the aspect ratio when displaying from a computer using the USB TypeB *port or from a USB device using the* USB *source on the EX51/PowerLite W8+.*

- Normal: Displays images using the full projection area and maintains the aspect ratio of the image. Choose this setting to automatically resize the image and make the best use of the display area.
- 16:9: Converts the aspect ratio of the image to 16:9. 4:3 ratio images are elongated horizontally to fit.
- Zoom: Displays images using the full width of the projection area and maintains the aspect ratio of the image. The image may be cut off on the top and bottom depending on its aspect ratio.
- Full: Displays images using the full width of the projection area, but does not retain the aspect ratio. 4:3 ratio images are elongated horizontally.
- Native: Displays images as is (aspect ratio and resolution are maintained). Black bands may appear or images may be cut off, depending on the resolution.

3 Presenting With the Remote Control

The projector includes a number of tools to enhance your presentation. All of them can be accessed using the remote control, which lets you operate the projector from anywhere in the room—up to 19.7 feet (6 meters) away.

This chapter covers:

- Using the remote control
- Controlling the picture and sound
- Operating your computer with the remote control
- Highlighting your presentation
- Presenting a slideshow from a USB device (EX51/PowerLite W8+ only)

note

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

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

Using the Remote Control

Make sure batteries are installed as described on page 84. Follow these tips for using the remote control:

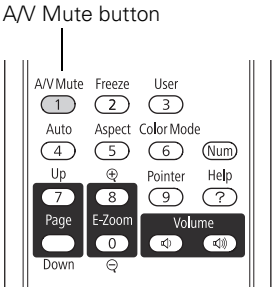
- Point the remote control at the front or back of the projector, or at the screen.
- Stand within 19.7 feet (6 meters) of the projector.
- Aim the remote control within 30° to the side of, or 15° above or below, the remote control receivers on the projector.

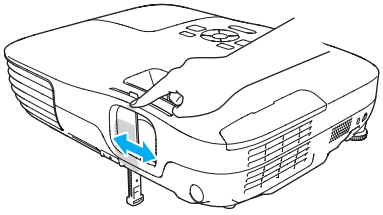
Controlling the Picture and Sound

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

Turning Off the Picture and Sound

Press the A/V Mute button on the remote control or close the A/V Mute slide on the projector to turn off the image and sound, and darken your screen. This is useful if you want to temporarily re-direct your audience's attention without the distraction of a bright screen.





To turn the image and sound back on, press the button again, or open the A/V Mute slide.

You can create an image, such as a company logo or picture, to display on the screen whenever you press the A/V Mute button. (See page 73 for more information.)

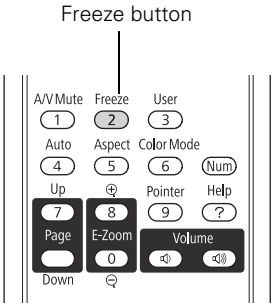
You can also set the Lens Cover Timer setting to automatically turn off the projector after 30 minutes to protect the projector if the A/V Mute slide is closed for a long time. See page 68 for instructions.

Stopping Action

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

To restart the action, press the Freeze button again.

note
The Freeze function pauses the image, not the sound. Because the source continues to transmit signals, it will not resume at the same point.



Zooming In on Your Image

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

note
You cannot use the Progressive *feature (see page 65) while you are using E-Zoom.*

1. Press the E-Zoom + button on the remote control.

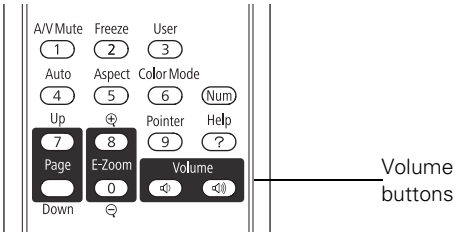
   You see a crosshair indicating the center of the zoom-in area.

2. Use the arrow (menu navigation) buttons to position the crosshair.
3. Continue pressing the E-Zoom + button to enlarge the selected area up to 4 times.
4. While the image is enlarged, you can:
   - Use the arrow buttons to move around the screen.
   - Press the E-Zoom – button to zoom out.
5. Press the Esc button to return the image to its original size.

Controlling the Volume

To change the volume on the projector, press the ◁) or ◁)) button on the remote control.

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



On the EX51/PowerLite W8+ projector, you can also press the ◁) or ◁)) button on the projector's control panel

You can also adjust the volume using the projector's menu system. See page 68.

Operating Your Computer With the Remote Control

You can use the remote control in place of your computer's mouse so you won't have to stand next to the computer to control the presentation.

note
You can use the remote control as a wireless mouse only when projecting from the Computer (Component Video) *or* HDMI *(EX51/PowerLite W8+ only) port.*

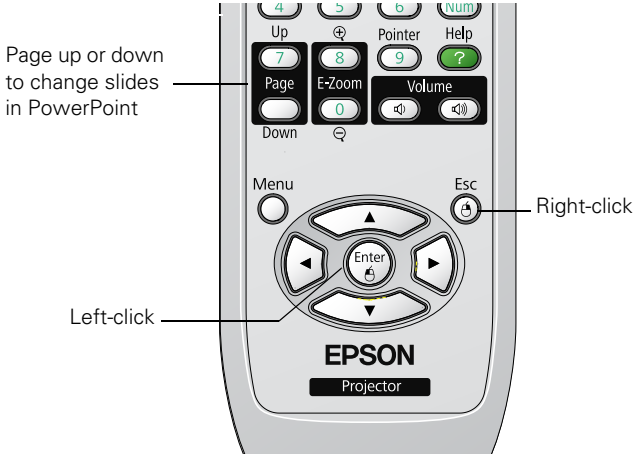
You may need to select specific settings on your computer to use the remote control as a mouse. See your computer documentation for details.

If you are not using the projector's USB TypeB port to display your presentation, you can use the remote control buttons to do one of the following:

- Move through presentation slides using the Page Up or Page Down buttons
- Use the buttons as you would a wireless mouse by pressing the arrow, Enter, and Esc buttons

Before you can use one of these functions, you must connect a USB cable to the USB TypeB port on the projector (see page 26) and select the function you want to use (see page 55).

To control presentation slides using the remote control's Page Up or Page Down buttons, select Page Up/Down as the USB Type B setting on the Extended menu (see page 68). Then you can control your presentation using those buttons.



If you want to use the remote control as a wireless mouse, select Wireless Mouse as the USB Type B setting on the Extended menu (see page 68). Then you can control your presentation as follows:

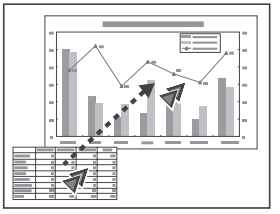
- Use the arrow buttons to move the cursor on the screen.
- Press the Enter button once to left-click, or twice to double-click. Press the Esc button to right-click.
- To drag-and-drop, hold down the Enter button. Then use the arrow buttons to drag the object. When it's where you want it, release the Enter button.

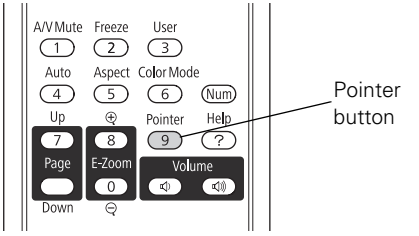
Highlighting Your Presentation

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

Using the Pointer Tool

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





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

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

Customizing the Pointer Tool

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

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

Presenting a Slideshow (EX51/PowerLite W8+ Only)

You can use your projector's Slideshow feature whenever you connect a USB device that contains .JPG image files. This lets you quickly and easily display individual images, or start a slideshow of all the images in a folder. You can control your slideshow using the projector remote control.

For an instant PowerPoint presentation, convert your PowerPoint slides to individual .JPG files (save as *.jpg) and store them in a folder. Copy that folder to a USB flash memory drive (thumb drive), or other USB device. Then connect the device to the projector and begin your presentation.

You can switch the display from the device displaying the slideshow to another source using the Search button or one of the specific Source buttons on the remote control. To return to the Slideshow source, press Search and select USB, or simply press the USB button.

Starting a Slideshow

1. Connect a USB device to the projector's USB TypeA port (see page 37).
2. If you are connected to another image source, press the USB button on the remote control to go to the Slideshow program.

note

You can project .JPG files in resolutions up to 8176 × 6144, with pixel counts incrementing in multiples of 8.

If a .JPG file is highly compressed, your projector may not be able to display it correctly. The projector can't display progressive .JPG files.

You cannot project movie files using the Slideshow feature.

If you are not connected to another image source, the Slideshow program appears automatically.

If necessary, press the arrow buttons on the remote control to highlight the device you want to present from, then press the Enter button.

3. If you need to select a subfolder on your device, press the arrow buttons to highlight the folder and press Enter.
4. To display an individual image, press the arrow buttons to highlight it and press Enter. To display additional image files, press the ◀ or ▶ arrow button.
5. To display a slideshow of all the images in the current folder, use the arrow buttons to highlight Slideshow on the bottom of the Slideshow screen and press Enter. The images display sequentially one time through. At the end, you see the folder display again.

Select the following as necessary to control your display or slideshow:

- To move back up a folder level, highlight Back to Top at the top of the Slideshow screen and press Enter.
- To select a different device, highlight Select drive in the upper right corner of the screen, press Enter, and select the device.
- If all the images in a folder do not fit on the Slideshow screen, highlight Next page at the bottom of the screen and press Enter to display the next screen full of images. Select Previous page at the top of the screen to select the previous screen.

note

To rotate a displayed image, press the ▲ or ▼ button on the remote control until it is displayed correctly.

note

To display a slideshow from a folder that is not open, highlight the folder and press the Esc *button on the remote control. Then select* Slideshow *from the menu that appears and press* Enter.

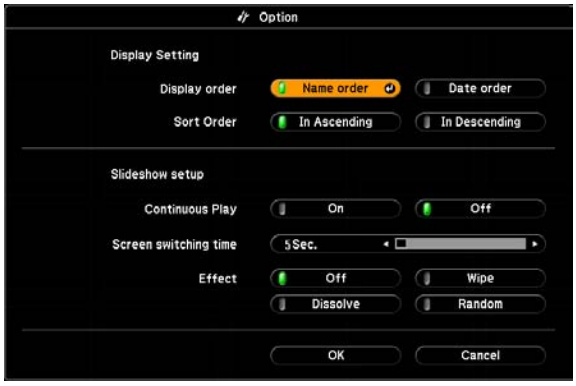
To begin a slideshow from a particular image, use the arrow buttons to highlight that image, press Enter, *then press* Enter *again.*

■ To exit the slideshow, press Esc, select Exit, and press Enter.

Selecting Slideshow Display Options

To select slideshow options or add special effects, follow these steps:

1. Highlight Option at the bottom left corner of the slideshow screen and press Enter. You see this screen:



2. Highlight the options you want to use, and press Enter.

Option	Available settings
Display order	Name order displays files in name order Date order displays files in date order
Sort order	In Ascending sorts the files first to last In Descending sorts the files last to first
Continuous play	On displays a slideshow continuously Off displays a slideshow one time through
Screen switching time	No does not switch file display automatically 1Sec. to 60Sec. displays files for the selected time and switches them automatically
Effect	Wipe transitions between images with a wipe effect Dissolve transitions between images with a dissolve effect Random transitions between images using a variety of effects in random order

3. When you are finished, highlight OK at the bottom of the screen and press Enter. (Highlight Cancel and press Enter to cancel your changes.)

4 Fine-Tuning the Projector

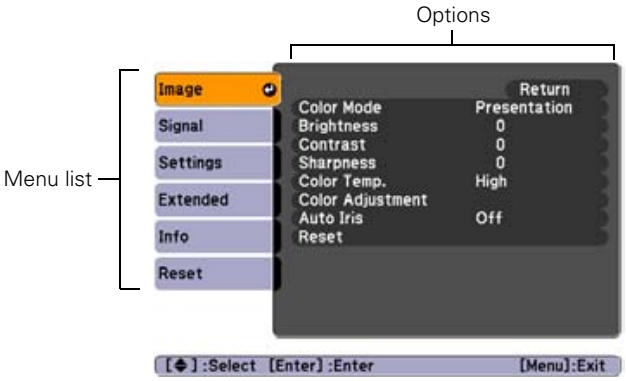
You can use the projector's on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

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

Using the Menu System

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

1. To display the menu screen, press the Menu button on the remote control or on the projector. You see a menu screen similar to the one below:



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

2. Use the arrow buttons on the remote control or the projector to scroll through the menu list. When you've highlighted the desired menu, press the Enter button to select it.

3. Once you've selected the menu, use the arrow buttons to scroll through the list of options. (Some of the options may be grayed out or unavailable, depending on the selected source.)

4. After highlighting the option you want to adjust, use the arrow buttons to change the setting. In some cases, you may have to press the Enter button to view a sub-screen.

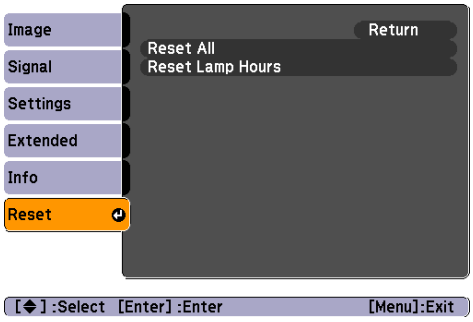
   - Press the left or right arrow button to adjust a slider bar.
   - To select from two or more settings, press the up or down arrow button to highlight the setting and press Enter.

5. After changing the settings, press the Esc button to save your changes and return to the previous menu (or press it again to exit the menu system). You can also press the Menu button to exit.

Restoring the Default Settings

You can use the Reset option on any menu to restore the factory-default settings for the settings in that menu.

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



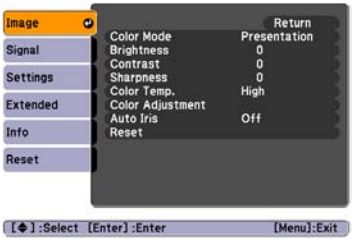
note

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

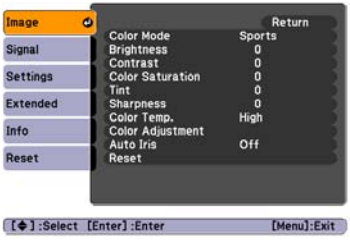
Adjusting the Image

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

1. Press the Menu button on the projector or remote control and select the Image menu. You see a screen similar to one of these:



Computer/RGB video/USB



Component video/
Composite video/
S-Video

note

If you are using the HDMI port (EX51/PowerLite W8+ only), you see the menu on the left if the current signal is digital RGB video, or the menu on the right if the signal is component video.

note

The available settings vary depending on the input source selected.

The Brightness *setting changes the opacity of the projector's LCD panels. You can also change the lamp's brightness. Select* Power Consumption *in the Settings menu, then choose* Normal *or* ECO *(the default setting is* Normal*).*

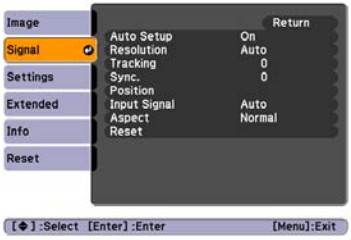
2. Adjust the desired options as needed:

   - Color Mode
     Lets you quickly adjust the color and brightness for various environments. You can save a different setting for each source. See page 48 for a description of each color mode.
   - Brightness
     Lightens or darkens the overall image.
   - Contrast
     Adjusts the difference between light and dark areas.
   - Color Saturation
     Adjusts the color depth of the image.
   - Tint
     Adjusts the balance of green to magenta in the image.
   - Sharpness
     Adjusts the sharpness of the image.
   - Color Temp.
     Sets the color temperature of the image. Select High to tint the image bluer or Low to tint it redder (default setting is Medium). (Not available if sRGB is selected as the Color Mode setting.)
   - Color Adjustment
     Adjusts the color values. Select Red, Green, Blue to adjust red, green, and blue hue and saturation values. (Not available if sRGB is selected as the Color Mode setting.)
   - Auto Iris
     Automatically adjusts the projected luminance according to the brightness of the image. (Available only when Dynamic or Theater is selected as the Color Mode for the current input source.)

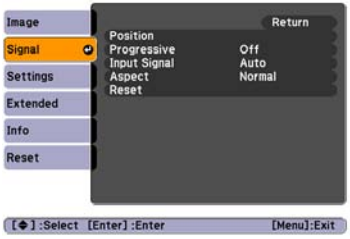
Adjusting Signal Settings

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

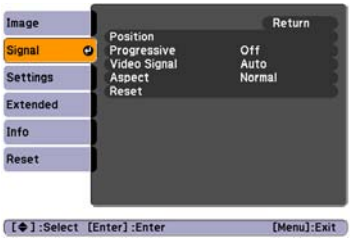
1. Press the Menu button and select the Signal menu. You see a screen similar to one of those below. (The settings will be different depending on the source you are projecting from.)



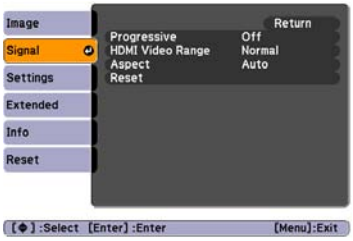
Computer/RGB video



Component video



Composite video/S-Video



HDMI (EX51/PowerLite W8+ only)

2. Adjust the desired options as needed:

   - Auto Setup
     Leave this setting On to automatically optimize computer images. Turn it off if you want to save adjustments you have made to the Tracking, Sync, and Position settings.
   - Resolution
     Set to Auto to have the projector automatically identify the resolution of the input signal. If necessary, select Wide (for widescreen images) or Normal (for 4:3 ratio images).

note

You can also use the remote control's Auto *button to automatically reset the projector's Tracking, Sync, and Position settings. See page 95 for details.*

- Tracking
  Adjust this value to eliminate vertical stripes in computer images.
- Sync
  Adjust this value if computer images appear blurry or flicker.
- Position
  If the image is slightly cut off on one or more sides, it may not be centered exactly. Select this setting and use the arrow buttons to center it.
- Progressive
  For composite video, S-Video, component video, and certain signals from the HDMI port only (EX51/PowerLite W8+ only). Turn this setting on to convert interlaced signals into progressive signals (best for moving images). Leave the setting Off for still images.

note

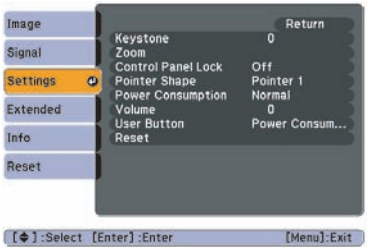
You can adjust the Progressive *setting for signals from the HDMI input port (excluding digital RGB) or component video only when 480i/576i/1080i signals are being input (EX51/PowerLite W8+ only).*

The HDMI Video Range setting cannot be set for digital RGB signals (EX51/PowerLite W8+ only).

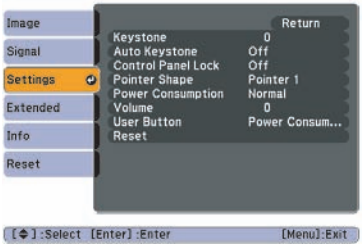
- HDMI Video Range (EX51/PowerLite W8+ only)
  When you connect to the HDMI input port, set the projector's video range to match the video range setting of your device.
- Input Signal
  If the colors don't look right on the Auto setting, select the setting for the type of equipment you've connected to the Computer (Component Video) port. Choose RGB for a computer or RGB-video connection, or Auto for a video player that outputs a component video signal (with connectors labeled Y/Cb/Cr or Y/Pb/Pr).
- Video Signal (composite or S-Video signals only)
  Select the setting for the type of equipment you've connected to the Video port. Leave this setting at Auto unless you are using a 60-Hz PAL system (then select PAL60).
- Aspect
  Sets the image's aspect ratio (ratio of width to height). See page 49 for more information.

Customizing Projector Features

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



PowerLite S8+



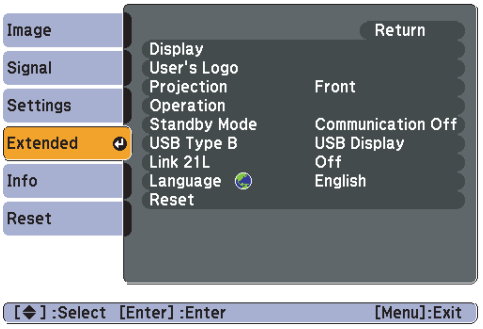
EX51/PowerLite W8+

- Keystone
  Adjusts the shape of the image if the projector has been tilted upward or downward. If you notice that lines or edge look jagged after adjustment, decrease the Sharpness setting (see page 63).
- Auto Keystone (EX51/PowerLite W8+ only)
  Automatically compensates for keystone distortion when the projector is tilted upward or downward. This feature is available only when the projector is set for front projection (enabled by default).
- Zoom (PowerLite S8+ only)
  Adjusts the image size from Wide (larger) to Tele (smaller).
- Control Panel Lock
  Lets you disable all of the buttons on the projector, or all of the buttons except the ⏻ power button. See page 74 for more information.
- Pointer Shape
  Lets you choose from three alternative pointer shapes. See page 56 for more information.
- Power Consumption
  Lets you select from two levels of brightness. The ECO setting reduces power consumption and projector noise, and extends the lamp's operating life.

- **Volume**
  Raises or lowers the volume of the projector's speaker.
- **User Button**
  Lets you create a shortcut to one of the following menu items: **Power Consumption**, **Info**, **Progressive**, **Resolution**. When you press the **User** button on the remote control, the assigned menu item is displayed.

Customizing Power and Operation

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



- **Display**

  Messages: Lets you turn screen messages on or off.

  Display Background: Sets the screen background to **Black**, **Blue**, or **Logo** when no image signal is available.

  Startup Screen: Enables or disables display of the startup (User's Logo) screen when the projector is turned on.

  A/V Mute: Sets the screen background to **Black**, **Blue**, or **Logo** when the **A/V Mute** button is pressed.

- **User's Logo**
  Create a custom startup screen, as described on page 73.

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

- Operation

  Direct Power On: Enable if you want to be able to start the projector when you connect the power cord (without pressing the ⏻ power button).

  Sleep Mode: Enable if you want the projector to turn off automatically if it is idle and no signal is received for 1 to 30 minutes (you can adjust the amount of time using the next setting).

  Sleep Mode Timer: When Sleep Mode is on, you can set the period of time before the projector turns off automatically, from 1 to 30 minutes.

  Lens Cover Timer: Enabled by default to turn the projector's power off automatically when the A/V Mute slide is closed for more than 30 minutes.

  High Altitude Mode: Enable when you are using the projector above 4,900 feet (1,500 meters) to ensure that the temperature is regulated properly. Turn this setting off for lower elevations.

- Standby Mode
  Select Communication On to enable the projector to be monitored and controlled from a computer when it is in standby mode (the power light is orange).

- USB Type B
  Select how you want to use the USB port. Select USB Display to use the USB port to project computer images. Select Page Up/Down to use the remote control to advance PowerPoint slides. Select Wireless Mouse to use the remote control buttons like a wireless mouse. See page 54 for restrictions and details.

note

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

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

note

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

- Link 21L
  Select On to enable the projector to be monitored and controlled from a computer using Link 21L software and the Epson USB Communication driver.
- Language
  Select a language to use for the projector menus.

Using the Projector Security Features

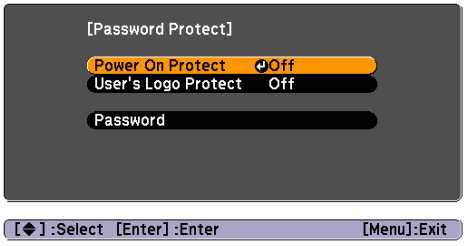
To prevent unauthorized use of the projector, you can:

- Assign a password. You can use the password to prevent the projector from being turned on and prevent your custom startup screen from being changed. See the next section.
- Create a custom screen that is displayed at startup and/or when the A/V Mute button is pressed. The screen can be locked with a password to discourage theft and provides a way to identify the projector should it be stolen. See page 73.
- Disable the projector's buttons; this is useful, for example, in a classroom when you want to ensure that no one touches the projector's buttons while you're using the remote control. See page 74.
- Secure the projector to prevent theft using a cable locking system. See page 75.

Enabling Password Protection

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

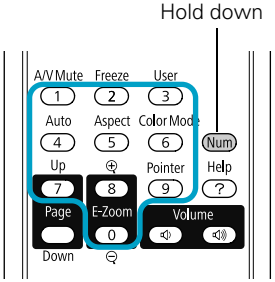
1. Press the Freeze button on the remote control for five to seven seconds. You see this screen:



2. Select the type(s) of password protection you want to use:
   - Power On Protect: Prevents unauthorized use of the projector. After the projector is plugged in and turned on, you must enter a password to use the projector. Select On, press Enter, then press Esc to return to the Password Protect screen.
   - User's Logo Protect: Prevents your custom screen (see page 73), display, and User's Logo settings in the Extended menu from being changed. Select On, press Enter, then press Esc to return to the Password Protect screen.
3. Use the arrow buttons to select Password and press Enter.
4. When you see a message asking if you want to change the password, select Yes and press Enter.
5. Hold down the Num button and use the numeric keypad to enter a four digit password.
6. When you see a confirmation message, reenter the password.
7. Press the Menu button, then press Enter to exit the screen.
8. Turn off and unplug the projector.

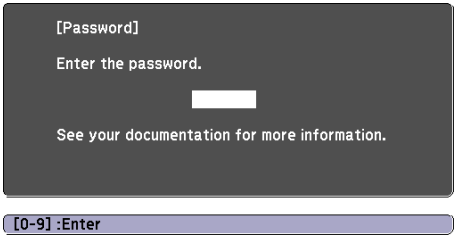
caution

If you lose the remote control, you will not be able to enter the password. Keep the remote control in a safe place at all times. Also, it's a good idea to write down your password.



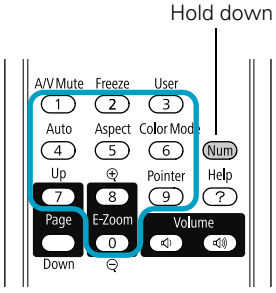
Starting the Projector With a Password

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



note

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



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

The password screen closes and projection begins.

If projection does not begin, check the following:

- If the password is not correct, you see a message prompting you to re-enter the password. If you enter an incorrect password three times in succession, you see an error code with the message The projector's operation will be locked and the projector switches to standby mode. Write down the error code, then disconnect the projector's power cord from the electrical outlet, reconnect it, and turn the projector back on. Try entering the correct password again.
- If you have forgotten the password, contact Epson with the request code number that appears in the Password screen for assistance. See "Where To Get Help" on page 98.
- If you enter an incorrect password 30 times in succession, the projector remains locked and you must contact Epson to arrange for service.

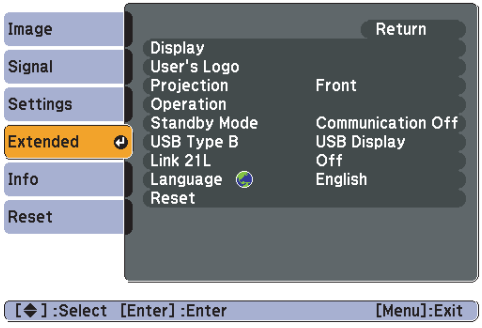
Creating Your Own Startup Screen

You can transfer any image from your computer or video source to the projector and then use it as your startup screen. You can also use it as the screen displayed when the projector is not receiving a signal or when you press the A/V Mute button. The image can be a company logo, slogan, photograph, or any other image you want to use.

Capturing the Image

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

1. Press the Menu button on the remote control, highlight the Extended menu, and press Enter.



2. Highlight User's Logo and press Enter.
3. When you see a message asking Choose this image as the User's Logo?, select Yes and press Enter. A selection box displays over the image.
4. Use the arrow buttons to select the area of the image you want to use. Then press Enter.
5. When you see the message Select this image?, highlight Yes and press Enter.
6. Use the arrow buttons to select a zoom factor (display size) and press Enter.

note

When you choose an image for the user's logo, it erases any previously used image. You can save an image up to 300 × 400 pixels in size. Once you have saved a new user's logo, you cannot return to the factory default logo.

7. When the message Save this image as the User's Logo? appears, select Yes and press Enter. Saving the logo may take a few moments. Do not use your projector, remote control, or video source while the logo is being saved.
8. When you see the message Completed, press Menu to exit.

Choosing When to Display the Image

After your image is saved, you can set it to display as the startup screen, the screen you see when there's no signal, or the screen you see when you press the A/V Mute button (see page 52).

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

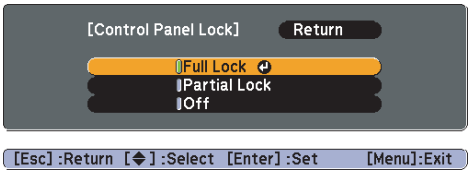
note
You can lock these settings to prevent them from being changed without a password (see page 71).

Disabling the Projector's Buttons

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

1. Press the Menu button, highlight the Settings menu, and press Enter.
2. Select Control Panel Lock and press the Enter button.

3. Select Full Lock (to lock all projector buttons) or Partial Lock (to lock all buttons except the ⏻ power button) and press Enter.



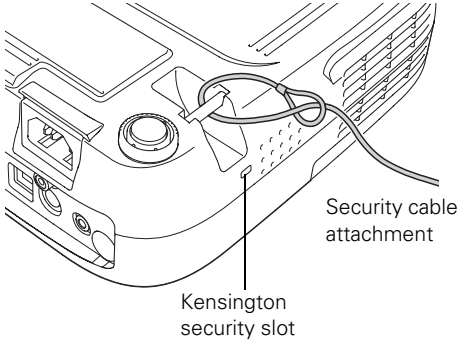
4. Select Yes and press Enter to confirm the setting.
5. Press the Menu button to exit.

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

Using Security Locking

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

- Security cable attachment. You can attach a commercially available security cable as shown below to secure the projector to a table or ceiling mount.



- Kensington security slot. The security slot (located on the side of the projector) is compatible with the MicroSaver security systems manufactured by Kensington. You can purchase this lock from an authorized Epson reseller (see page 16).

5 Maintaining the Projector

Your projector needs little maintenance. All you have to do on a regular basis is clean the lens, and check that the air filter and vents are clean. A clogged air filter or vent can block ventilation needed to cool the projector.

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

This chapter covers the following:

- Cleaning the lens
- Cleaning the projector case
- Cleaning the air filter
- Replacing the air filter
- Replacing the lamp
- Replacing the remote control batteries
- Transporting the projector

warning

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

Cleaning the Lens

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

To remove dirt or smears on the lens, use a commercially available cloth for cleaning glasses.

caution

Do not rub the lens with harsh materials or subject the lens to shocks, or you may damage it.

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

Cleaning the Projector Case

Before cleaning, turn off the projector and unplug the power cord.

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

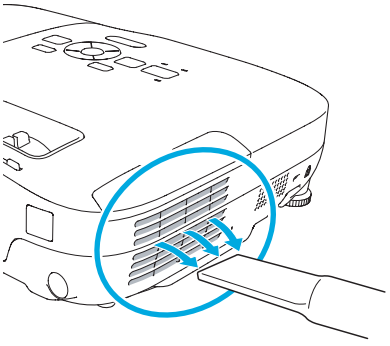
Cleaning the Air Filter

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

note

To order replacement air filters, request part number V13H134A25. See page 16 for ordering information.

1. Turn off the projector and unplug the power cord.
2. Remove dust from the air filter using a small vacuum cleaner designed for computer or office equipment, or gently clean the vent with a soft brush (such as an artist's paintbrush).



You can remove the air filter to clean both sides

If the filter is too dirty or broken, replace the filter as described below.

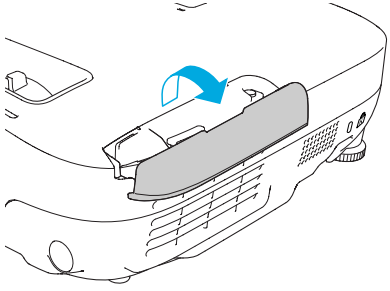
Replacing the Air Filter

You need to replace the air filter if:

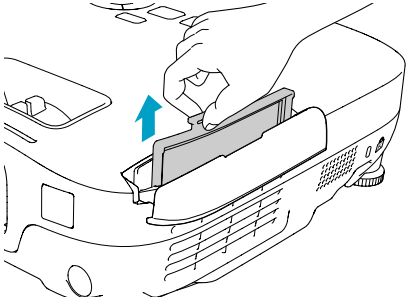
- You cannot remove the dust from it
- The air filter is damaged or torn
- You repeatedly see a projected message telling you to clean or replace it

Contact your dealer or contact Epson as described on page 98 to obtain a new air filter. Request part number V13H134A25.

1. Turn off the projector and unplug the power cord.
2. Open the air filter cover on the side of the projector.



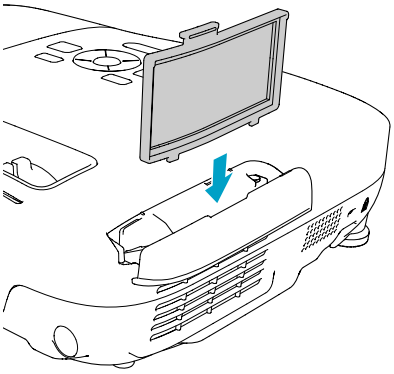
3. Lift the air filter out of its slot as shown.



note

Air filters contain polycarbonate, ABS resin, and polyurethane foam. Dispose of used air filters according to local regulations.

4. Slide the new air filter into the slot until it clicks into place.



Replacing the Lamp

note

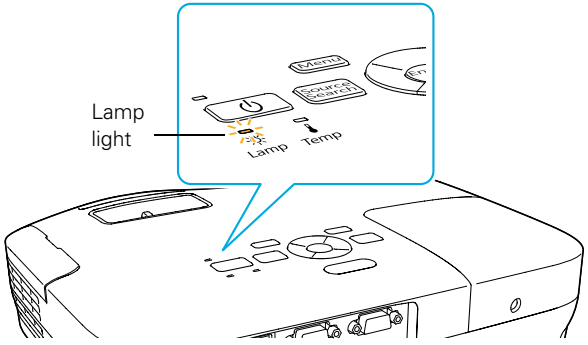
Turn off this product when not in use to prolong the life of the projector.

The life span of the projection lamp is about 4000 hours if Power Consumption in the Settings menu is Normal (default), and 5000 hours if this setting is ECO. See page 83 to check the lamp usage.

It is time to replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The message Replace the lamp appears on the screen and the Lamp light flashes orange. To maintain projector brightness and image quality, replace the lamp as soon as possible.

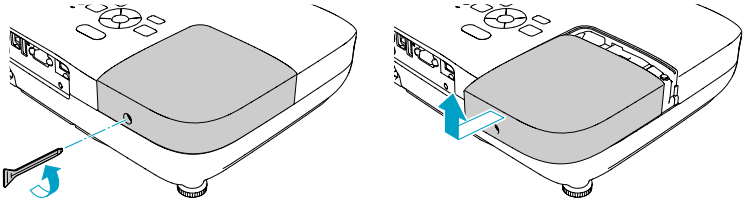
You may also need to replace the lamp if the Lamp light flashes red. See page 89.



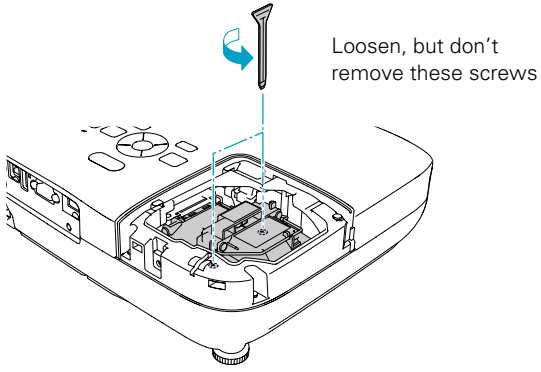
Contact your dealer or contact Epson as described on page 98. Request part number V13H010L54.

Follow these steps to replace the lamp:

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



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



warning

Let the lamp cool fully before replacing it.

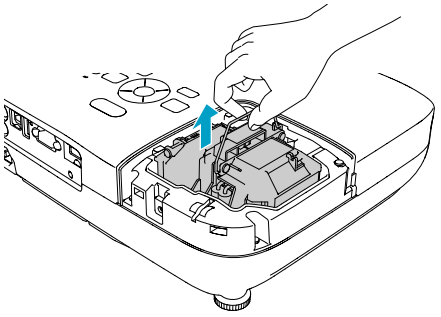
In the unlikely event that the lamp has broken, small glass fragments may be present and should be removed carefully to avoid injury. If the projector has been installed on the ceiling, you should stand to the side of the lamp cover, not underneath it.

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

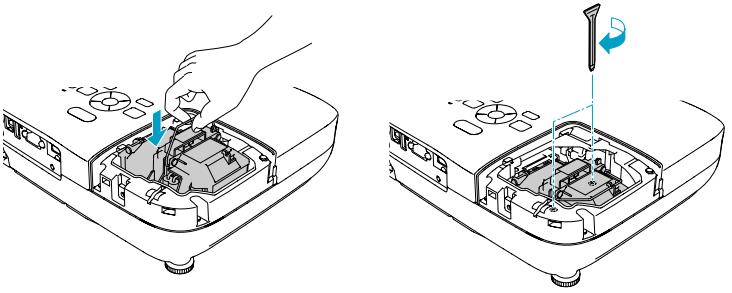
note

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

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



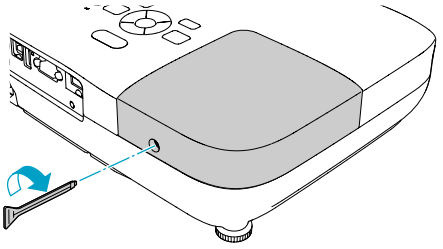
6. Gently insert the new lamp. (If it doesn't fit easily, make sure it is facing the right way.) Then tighten its screws.



note

Tighten the lamp cover securely so you do not receive a lamp cover error when you turn the projector back on.

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

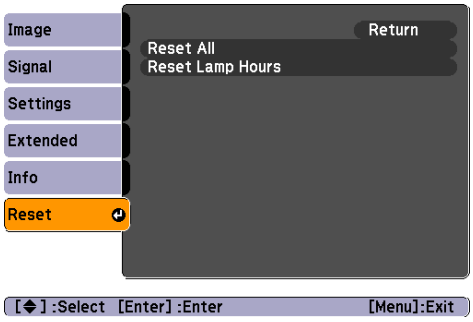


8. Reset the lamp timer as described in the next section.

Resetting the Lamp Timer

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

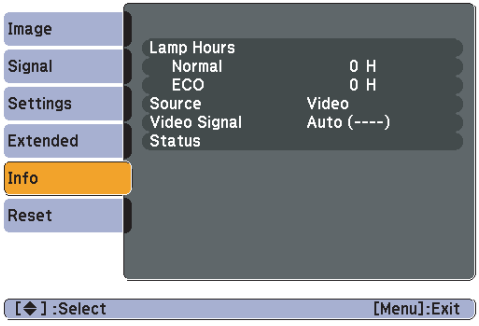
1. Press the Menu button on the remote control or on the projector's control panel. You see the main menu.
2. Select the Reset menu and press Enter. You see this screen:



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

Checking Lamp Usage

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



note

The information displayed depends on the input signal currently selected.

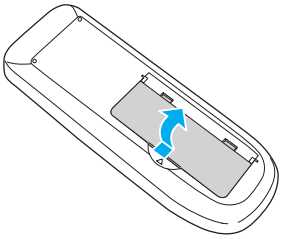
If you have used the projector for less than 10 hours, the hours are listed as 0H.

The life span of the lamp is about 4000 hours if Power Consumption in the Settings menu is Normal (default), and 5000 hours if this setting is ECO. Make sure you have a spare lamp handy if the usage hours on this menu are close to the life span of your lamp.

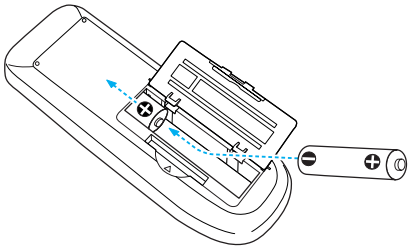
Replacing the Remote Control Batteries

Replace the batteries in the remote as described below:

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



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

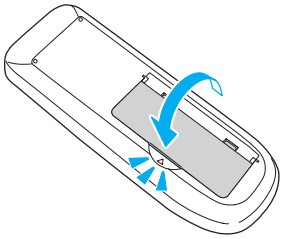


caution

When replacing batteries, take the following precautions:

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

4. Replace the battery cover and press it down until it clicks into place.



Transporting the Projector

The projector contains many glass and precision parts. When hand-carrying the projector, use the carrying case.

Follow these guidelines to prevent damage when transporting it:

- Close the A/V Mute slide (lens cover).
- If a USB device is connected, remove it from the projector.
- Return the projector feet to their stored (highest) positions.
- When shipping the projector for repairs, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the projector.
- When transporting the projector a long distance, first place it in a hard-shell shipping case, then pack it in a firm box with cushioning around the case.

note

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

6 *Solving Problems*

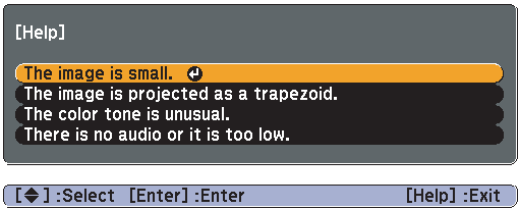
This chapter helps you solve problems with your projector and tells you how to contact technical support for problems you can't solve yourself. The following information is included:

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

Using On-Screen Help

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

1. Press the ? Help button on the remote control or on the projector. You see the Help menu:



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

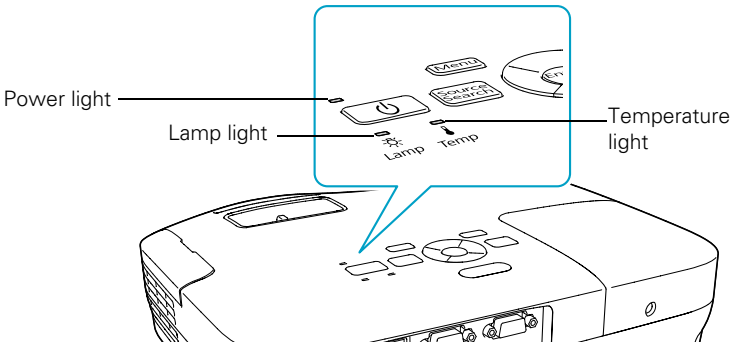
If none of the suggestions solve your problem, see additional solutions to problems in the following sections.

Checking Projector Status

If your projector isn't working correctly, first turn it off and unplug it. Then plug the power cord back in and turn on the projector. If this doesn't solve the problem, check the lights on top of the projector.

What To Do When the Lights Flash

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



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

Power light status

⏻ **Power light status**	**Description**
Flashing green	The projector is warming up. Wait for the image to appear.
Green	The projector is operating normally.
Orange	The projector is in sleep or standby mode. You can unplug it or press the ⏻ power button to turn it on.
Flashing orange	Preparing for monitoring or cooling down.
Red or flashing red	There is a problem with the projector. Check the next table to diagnose the problem.

Error light(s) status

Error light(s) status	Description
⏻ Green or orange ☼ Flashing orange 🌡 Off	It's time to replace the lamp. See page 80 for instructions. If you continue to use the lamp after the replacement warning, there is an increased possibility that the lamp may break.
⏻ Flashing red ☼ Off 🌡 Flashing orange	Rapid cooling is in progress. Although this is not an abnormal condition, projection will stop automatically if the temperature rises higher. Make sure there is plenty of space around and under the projector for ventilation, and that the air filter and vents are clean.
⏻ Red ☼ Off 🌡 Red	The projector is overheating, which turns the lamp off automatically. Wait until the projector switches to standby mode (about 5 minutes). Make sure there is plenty of space around and under the projector for ventilation. The air filter may be clogged. Clean or replace the air filter as described on pages 78 to 80. If you're using the projector above an altitude of 4,900 feet (1,500 meters), turn on High Altitude Mode in the Operation menu (see page 69). If the projector continues to overheat after you clean the air filter, stop using the projector, disconnect the power cord, and contact Epson for help as described on page 98. **Warning:** Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself.
⏻ Flashing red ☼ Red 🌡 Flashing red	The projector has an internal problem. Stop using the projector, disconnect the power cord, and contact Epson for help, as described on page 98.
⏻ Red ☼ Off 🌡 Flashing red	There is a problem with the fan or temperature sensor. Stop using the projector, disconnect the power cord, and contact Epson as described on page 98.
⏻ Red ☼ Flashing red 🌡 Off	The lamp may be burnt out. First make sure the lamp cover is securely installed. If that's not the problem, the air filter may be clogged. Clean or replace the air filter as described on pages 78 to 80. If this does not resolve the problem, let the lamp cool and then remove it. If the lamp is cracked, replace it as described on page 80. If the lamp is not cracked, reinstall it. If reinstalling doesn't work, replace the lamp. If you're using the projector above an altitude of 4,921 feet (1,500 meters), turn on High Altitude Mode in the Operation menu (see page 69). If none of these suggestions resolves the problem, contact Epson as described on page 98.
⏻ Flashing red ☼ Flashing red 🌡 Flashing red	The projector has an Auto Iris error or power error. Stop using the projector, disconnect the power cord, and contact Epson for help, as described on page 98.

Solving Projector Operation Problems

The power doesn't turn on.

- If the projector doesn't turn on when you press the ⏻ power button, make sure the power cord is connected to the projector and plugged into a working electrical outlet.
- The power cord may be defective. Disconnect the cord from the outlet and contact Epson as described on page 98.
- If you're using the Direct Power On function and you immediately plug the power cord back in after unplugging it, the power may not turn back on. Press the ⏻ power button to turn the projector back on.

The buttons on the projector don't work.

If the Control Panel Lock function has been enabled, you can't use the buttons on the projector. Try using the remote control instead, or press and hold the projector's Enter button for seven seconds to release the lock (see page 74).

Solving Problems With the Image or Sound

No image appears on the screen.

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

- The attached computer may be in sleep mode or displaying a black screen saver. Try pressing a key on the computer.
- If you are projecting from a DVD player or other video source, make sure you turn it on and press its Play button.
- If you are projecting from a composite or S-Video video source, make sure the Video Signal setting is correct (see page 65).
- You can also try resetting all of the menu settings (see page 63).

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

- Make sure the cables are connected correctly, as described beginning on page 25.
- If you've connected a computer and one or more video sources, you may need to press the Source Search button to select the correct source. Allow a few seconds for the projector to sync up after pressing the button.
- Make sure the power for your connected equipment is turned on.

If you're using a PC notebook:

- Hold down the Fn key on the keyboard and press the function key that lets you display on an external monitor. It may have an icon such as , or it may be labelled CRT/LCD. Allow a few seconds for the projector to sync up after pressing it. Check your notebook's manual or online help for details.

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

  If you connect the notebook while the projector or computer are already turned on, the function Fn key that changes the computer's image signal to external output may not work. Turn the computer and the projector off and then back on again.
- Depending on your computer's video card, you might need to use the Display utility in the Control Panel to make sure that both the LCD screen and external monitor port are enabled. See your computer's documentation or online help for details.

If you're using Mac OS X:

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

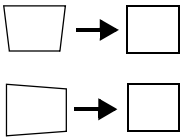
The message Not Supported is displayed.

- Make sure the correct input signal is selected in the Signal menu (see page 65).
- Make sure your computer's resolution and frequency or refresh rate is supported by the projector (see page 104). If necessary, change your computer's settings.

Only part of the computer image is displayed.

- Press the Auto button on the remote control or the Enter button on the projector.
- Make sure the image Position setting is correct in the Signal menu. See page 66 for more information.
- Press the Aspect button on the remote control or select the correct Aspect setting from the Signal menu. See page 49 for details on the available options.
- Press the Esc button on the remote control to cancel the E-Zoom function.
- Make sure your computer's resolution setting is correct. See the compatible video formats listed on page 104.
- You also may need to modify existing presentation files if you created them for a different resolution. See your software documentation for specific information.

- If you're projecting a widescreen computer image, adjust the Resolution setting (see page 65), if necessary.
- If you're projecting an image from a computer with dual display activated, turn dual display off.



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

If the image isn't evenly rectangular, adjust its shape as described on page 45.

The image contains static or noise.

- If you're using a computer cable longer than 6 feet (1.8 meters), or an extension cable, the image quality may be reduced.
- Keep your computer and video cables away from the power cord as much as possible to prevent interference.
- The video signal may be split between the computer and the projector. If you notice a decline in the projected image quality when the image is displayed simultaneously on your notebook computer and the projector, turn off the notebook's LCD display.
- Make sure the correct input signal is selected in the Signal menu (see page 66).
- If you're using a composite, S-Video, or component video source with 480i signals, turn on the Progressive setting on the Signal menu (see page 66).
- If you've used the Keystone adjustment, you may need to decrease the Sharpness setting in the Image menu (see page 64).
- If you're projecting from a computer, make sure its signal is compatible with the projector. See page 104.
- If you're projecting from a computer, press the Auto button on the remote control to reset the projector's Tracking, Sync, and Position settings

The image is blurry.

- There may be dirt or smears on the lens. Clean the lens as described on page 78.
- Adjust the focus using the focus ring (see page 47).
- If the projector is angled sharply toward the screen, it may not be possible to focus the entire image. Move the projector to position it more directly in front of the screen.
- Lower the projection angle to reduce the amount of keystone correction required.
- Make sure the projector is within the proper range (projection distance) from the screen (see page 19).
- Make sure the lens is not fogged by condensation. You may need to wait before using the projector after moving it from a cold environment to a warm environment.
- If you're projecting from a computer, you may need to adjust the tracking and sync settings as described in the next section.

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

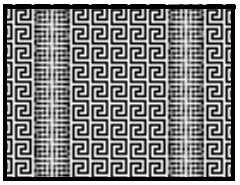
- If you're projecting from a computer and displaying an image that contains a lot of fine detail, you may notice vertical bands or some of the characters may look heavy or blurred. Press the Auto button on the remote control or the Enter button on the projector to reset the projector's Tracking, Sync, and Position settings.
- If further adjustment is needed, you can fine-tune the Tracking and Sync settings manually using the Signal menu, as described on page 66.

    1. Fill the screen with an image containing fine detail, such as a pattern to appear as your desktop background, or try projecting black text on a white background.

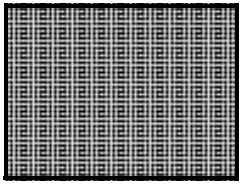
note

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

2. Adjust the Tracking to eliminate vertical bands.



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



note

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

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

- Press the Color Mode button or select a different Color Mode option in the Image menu. See page 48 for details on the available options.
- If you're displaying video, adjust the Color Adjustment and Color Mode settings on the Image menu. You can also try adjusting the Color Saturation, Color Temp, and Tint settings on the Image menu.
- Try adjusting the Brightness and Contrast settings on the Image menu.
- Try adjusting the Power Consumption setting (see page 67).
- Check your computer display settings to correct the color balance.
- The projector's lamp may need to be replaced. See page 80 for instructions.
- Make sure the correct input signal is selected in the Signal menu (see page 66).
- Make sure that all cables are connected to the proper ports and connected securely.

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

- Use the Volume buttons to adjust the volume (see page 54), or adjust the Volume setting in the Settings menu.
- Make sure A/V Mute is not enabled. (Press the A/V Mute button to disable it.)
- If your presentation includes computer audio, make sure the volume control on your computer is not turned all the way down or muted. In Windows, you may be able to check this by clicking the volume control in your Windows system tray (lower right corner of the screen). On a Mac, you may be able to adjust the volume from your menu bar (top right corner of the screen) or via the volume control function keys.
- If you're using a DVD player or other video source, make sure the cables are connected correctly, as described on page 35.

Solving Problems With the Remote Control

The projector doesn't respond to remote control commands.

- Point the remote control towards the projector's receiver. Make sure you are within 19.7 feet (6 meters) of the projector and within a 30° horizontal angle and a 15° vertical angle from the projector's front or back receiver.
- The remote control's batteries may not be installed correctly or may be low on power. To change the batteries, see page 84.
- Dim the room lights and turn off any fluorescent lights. Make sure the projector is not in direct sunlight. Strong lighting, especially fluorescent lights, may affect the projector's infrared receivers. Also, turn off any nearby equipment that emits infrared energy, such as a radiant room heater.
- If any buttons are held for longer than 30 seconds, the remote enters sleep mode. Release any button that is held to wake the remote.

Where To Get Help

Epson provides these technical support services:

Internet Support

Visit **Epson's support website** for solutions to common problems with the projector. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions (website available only in Spanish and Portuguese).

Speak to a Support Representative

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

Country	Telephone
Argentina	(54 11) 5167-0300
Brazil	(55 11) 3956-6868
Chile	(56 2) 230-9500
Colombia	(57 1) 523-5000
Costa Rica	(50 6) 2210-9555 800-377-6627
Mexico Mexico City Other Cities	 (52 55) 1323-2052 01 800-087-1080
Peru	(51 1) 418-0210
Venezuela	(58 212) 240-1111

Toll or long distance charges may apply.

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

- Product name (PowerLite S8+, PowerLite W8+ or EX51)
- Product serial number (located on the bottom of the projector)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

Purchase Supplies and Accessories

You can purchase screens and other accessories from an Epson authorized reseller. To find the nearest reseller, contact Epson as described above.

A Technical Specifications

General

Type of display	Poly-silicon TFT active matrix
Resolution (native format)	**PowerLite S8+** 800 × 600 pixels (SVGA) **EX51** 1024 × 768 pixels (XGA) **PowerLite W8+** 1280 × 800 pixels (WXGA)
Color reproduction	16.8 million colors
Light output (brightness)	Normal mode: White light output 2500 lumens (ISO 21118 standard) Color light output 2500 lumens ECO mode: White light output 1960 lumens (ISO 21118 standard) Color light output 1960 lumens
Contrast ratio	2000:1 (Dynamic color mode, Normal Power Consumption, with Auto Iris setting turned on in the Image menu; see page 63)
Image size	**PowerLite S8+** (4:3 image) 30 to 350 inches (76.2 to 889 cm) **EX51** (4:3 image) 30 to 300 inches (76.2 to 762 cm) **PowerLite W8+** (16:10 image) 33 to 320 inches (83.8 to 812.8 cm)

Projection distance	**PowerLite S8+** (4:3 image) 34 to 412 inches (87 to 1047 cm) **EX51** (4:3 image) 35 to 431 inches (89 to 1095 cm) **PowerLite W8+** (16:10 image) 36 to 429 inches (91 to 1089 cm)
Projection methods	Front, rear, upside-down (ceiling mount)
Internal sound system (monaural)	1 W
Optical aspect ratio	**PowerLite S8+/EX51** 4:3 (horizontal:vertical) **PowerLite W8+** 16:10 (horizontal:vertical)
Zoom ratio	**PowerLite S8+** Digital 1:1.35 **EX51/PowerLite W8+** Manual 1:1.2
Noise level	29 dB in ECO mode 37 dB in Normal mode
Keystone correction	Manual: ±30° vertical Auto Keystone (EX51/PowerLite W8+ only): 0 to 12° vertical

Projection Lamp

Type	UHE (Ultra High Efficiency)
Power consumption	200 W
Lamp life	Approx. 4000 hours (Normal mode) Approx. 5000 hours (ECO mode)
Part number	V13H010L54

Remote Control

Range	19.7 feet (6 meters)
Batteries (2)	Alkaline AA

note

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

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

Dimensions

Height	3.0 inches (77 mm), not including feet
Width	11.6 inches (295 mm)
Depth	9.0 inches (228 mm)
Weight	5.1 lb (2.3 kg)

Electrical

Rated frequency	50/60 Hz AC
Power supply	100 to 240 VAC ±10%, 2.8A to 1.2 A
Power consumption	228 W in ECO mode 280 W Normal mode 0.3 W Standby (Communication Off) 2.6 W Standby (Communication On)

Environmental

Temperature	Operating: 41 to 95 °F (5 to 35 °C) Storage: 14 to 140 °F (–10 to 60 °C)
Humidity (non-condensing)	Operating: 20 to 80% RH
Operating altitude	0 to 7500 ft (0 to 2286 m); over 4921 ft (1500 m), enable High Altitude mode in the Extended menu (see page 68)

Safety and Approvals

United States	FCC 47CFR Part 15B Class B (DoC) UL60950-1 Second Edition (cTUVus Mark)
Canada	ICES-003 Class B CSA C22.2 No. 60950-1-07

Pixelworks™ DNX™ ICs are used in this projector.

Compatible Video Formats

These projectors support the high definition video and computer display formats listed here.

To project images output from a computer, the computer's video card must be set at a refresh rate (vertical frequency) that's compatible with the projector. Some images are automatically resized using Epson's SizeWize™ technology to display in the projector's native format. The frequencies of some computers may not allow images to display correctly; see your computer's documentation for details.

PowerLite S8+/EX51

Computer, component video, composite video, and S-Video

Mode	Refresh rate (Hz)	Resolution
VGA EGA	85	640 × 350
VGA—60	60	640 × 480 (640 × 360*)
VESA—72	72	640 × 480 (640 × 360*)
VESA—75	75	640 × 480 (640 × 360*)
VESA—85	85	640 × 480 (640 × 360*)
SVGA—56	56	800 × 600[1] (800 × 450*)
SVGA—60	60	800 × 600[1] (800 × 450*)
SVGA—72	72	800 × 600[1] (800 × 450*)
SVGA—75	75	800 × 600[1] (800 × 450*)
SVGA—85	85	800 × 600[1] (800 × 450*)
XGA—60	60	1024 × 768[1] (1024 × 576*)
XGA—70	70	1024 × 768[1] (1024 × 576*)
XGA—75	75	1024 × 768[1] (1024 × 576*)
XGA—85	85	1024 × 768[1] (1024 × 576*)
SXGA1—70	70	1152 × 864
SXGA1—75	75	1152 × 864
WXGA—60	60	1280 × 800
WXGA—75	75	1280 × 800
SXGA2—60	60	1280 × 960
SXGA3—60	60	1280 × 1024
WXGA1—60	60	1280 × 768
WXGA2—60	60	1360 × 768
WXGA+60	60	1440 × 900
SXGA+60	60	1400 × 1050

Computer, component video, composite video, and S-Video

Mode	Refresh rate (Hz)	Resolution
iMAC VGA	117	640 × 480 (640 × 360*)
iMAC SVGA	95	800 × 600 (800 × 450*)
iMAC XGA	75	1024 × 768 (1024 × 576*)
MAC13	67	640 × 480
MAC16	75	832 × 624
MAC19	75	1024 × 768
MAC19-60	60	1024 × 768
MAC21	75	1152 × 870
NTSC	60	720 × 480 (720 × 360*)
NTSC 4:43	60	720 × 480 (720 × 360*)
PAL	50	720 × 576 (720 × 432*)
N-PAL	50	720 × 576 (720 × 432*)
M-PAL	60	720 × 576 (720 × 432*)
PAL—60	60	720 × 576 (720 × 432*)
SECAM	50	720 × 576 (720 × 432*)
SDTV (480i)	60	720 × 480 (720 × 360*)
SDTV (576i)	50	720 × 576 (720 × 432*)
SDTV (480p)	60	720 × 480 (720 × 360*)
SDTV (576p)	50	720 × 576 (720 × 432*)
HDTV (720p)	60/50	1280 × 720
HDTV (1080i)	60/50	1920 × 1080

* Letterbox signal

[1] Native resolution

PowerLite W8+

Computer, component video, composite video, and S-Video

Mode	Refresh rate (Hz)	Resolution
VGA EGA	85	640 × 350
VGA—60	60	640 × 480 (640 × 360*)
VESA—72	72	640 × 480 (640 × 360*)
VESA—75	75	640 × 480 (640 × 360*)
VESA—85	85	640 × 480 (640 × 360*)
SVGA—56	56	800 × 600 (800 × 450*)
SVGA—60	60	800 × 600 (800 × 450*)
SVGA—72	72	800 × 600 (800 × 450*)
SVGA—75	75	800 × 600 (800 × 450*)
SVGA—85	85	800 × 600 (800 × 450*)
XGA—60	60	1024 × 768 (1024 × 576*)
XGA—70	70	1024 × 768 (1024 × 576*)
XGA—75	75	1024 × 768 (1024 × 576*)
XGA—85	85	1024 × 768 (1024 × 576*)
SXGA1—70	70	1152 × 864
SXGA1—75	75	1152 × 864
SXGA1—85	85	1152 × 864
SXGA1—100	100	1152 × 864
WXGA—60	60	1280 × 800[1]
WXGA—75	75	1280 × 800[1]
WXGA—85	85	1280 × 800
SXGA2—60	60	1280 × 960
SXGA2—75	75	1280 × 960
SXGA2—85	85	1280 × 960
SXGA3—60	60	1280 × 1024
SXGA3—75	75	1280 × 1024
SXGA3—85	85	1280 × 1024
WXGA1—60	60	1280 × 768
WXGA2—60	60	1360 × 768
WSXGA—60	60	1440 × 900
WSXGA—75	75	1440 × 900
WSXGA—85	85	1440 × 900
SXGA+60	60	1400 × 1050
SXGA+75	75	1400 × 1050
SXGA+85	85	1400 ×1050
UXGA—60	60	1600 × 1200
WSXGA+—60**	60	1680 × 1050

Computer, component video, composite video, and S-Video

Mode	Refresh rate (Hz)	Resolution
iMAC VGA	117	640 × 480 (640 × 360*)
iMAC SVGA	95	800 × 600 (800 × 450*)
iMAC XGA	75	1024 × 768 (1024 × 576*)
MAC13	67	640 × 480
MAC16	75	832 × 624
MAC19	75	1024 × 768
MAC19-60	60	1024 × 768
MAC21	75	1152 × 870
NTSC	60	720 × 480 (720 × 360*)
NTSC 4:43	60	720 × 480 (720 × 360*)
PAL	50	720 × 576 (720 × 432*)
N-PAL	50	720 × 576 (720 × 432*)
M-PAL	60	720 × 576 (720 × 432*)
PAL—60	60	720 × 576 (720 × 432*)
SECAM	50	720 × 576 (720 × 432*)
SDTV (480i)	60	720 × 480 (720 × 360*)
SDTV (576i)	50	720 × 576 (720 × 432*)
SDTV (480p)	60	720 × 480 (720 × 360*)
SDTV (576p)	50	720 × 576 (720 × 432*)
HDTV (720p)	60/50	1280 × 720
HDTV (1080i)	60/50	1920 × 1080

* Letterbox signal

** Available only when you select **Wide** as the Resolution setting

[1] Native resolution

HDMI signals (EX51/PowerLite W8+ only

Mode	Refresh rate (Hz)	Resolution
VGA	60	640 × 480 (640 × 360*)
SVGA	60	800 × 600
XGA	60	1024 × 768
SXGA SXGA	60 60	1280 × 960 1280 × 1024
SXGA+	60	1400 × 1050
UXGA	60	1600 × 1200
SDTV (480i) SDTV (576i) SDTV (480p) SDTV (576p) HDTV (720p) HDTV (1080i) HDTV (1080p)	60 50 60 50 60/50 60/50 60/50	720 × 480 (720 × 360*) 720 × 576 (720 × 432*) 720 × 480 (720 × 360*) 720 × 576 (720 × 432*) 1280 × 720 1920 × 1080 1920 × 1080

* Letterbox signal

B Notices

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

Important Safety Instructions

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

- Do not look into the lens when the projector is on. The bright light can damage your eyes.
- Do not place the projector on an unstable cart, stand, or table.
- Do not operate the projector on its side, or while tilted to one side. Do not tilt the projector forward or back at a greater angle than that specified for keystone correction (see page 102).
- If the projector is mounted on a ceiling, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- If you use a ceiling mount and apply adhesives to the mount to prevent the screws from loosening, or if you use lubricants or oils on the projector, the projector case may crack and the projector may fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector. When installing or adjusting a ceiling mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants.
- Do not stand on the projector or place heavy objects on it.
- Do not use the projector where it may be exposed to rain, water, or excessive humidity.
- Unplug the projector from the wall outlet before cleaning. Use a dry cloth (or, for stubborn dirt or stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid or aerosol cleaners.
- Never spill liquid of any kind into the projector.
- Do not use the projector where it may be exposed to excessive dust or smoke.

- Never push objects of any kind through the cabinet slots.
- Do not use or store the projector or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.
- Do not block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Do not operate the projector on a sofa, rug, or other soft surface, or set it on top of loose papers, which could block vents underneath your projector. If you are setting up the projector near a wall, leave at least 7.9 inches (20 cm) of space between the wall and the air exhaust vent.
- Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
- If you are using two or more projectors side-by-side, leave at least 2 feet (60 cm) of space between the projectors to allow for proper ventilation.
- You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector.
- Do not store the projector outdoors for an extended length of time.
- Do not use the projector outside the required temperature range of 41 to 95 °F (5 to 35 °C). Doing so may cause an unstable display and could lead to projector damage.
- Do not store the projector outside the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.
- Unplug the projector when it will not be used for extended periods.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: If it does not operate normally when you follow the operating instructions, or exhibits a distinct change in performance; If smoke, strange odors, or strange noises come from the projector; If the power cord or plug is damaged or frayed; If liquid or foreign objects get inside the projector, or if it has been exposed to rain or water; If it has been dropped or the housing has been damaged.
- Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
- Never open any covers on the projector except as specifically explained in this *User's Guide*. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.

- Use the type of power source indicated on the projector. Use of a different power source may result in fire or electric shock. If you are not sure of the power available, consult your dealer or power company.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Do not overload wall outlets, extension cords, or power strips. Do not insert the plug into a dusty outlet. This can cause fire or electric shock.
- Take the following precautions when handling the plug: Do not hold the plug with wet hands. Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet. Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it. Failure to comply with these precautions could result in fire or electric shock.
- Do not place the projector where the cord can be walked on.
- Ⓗg The lamp(s) in this product contain mercury. Please consult your state and local regulations regarding disposal or recycling. Do not put in the trash.
- Do not place anything that can become warped or damaged by heat near the exhaust vents. Do not bring your hands or face close to the vents while projection is in progress.
- Before you move the projector, make sure its power is turned off, the plug is disconnected from the outlet, and all cables are disconnected.
- Never try to remove the lamp immediately after use because it will be extremely hot. Before removing the lamp, turn off the power and wait at least an hour to allow the lamp to cool completely.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not modify the power cord. Do not place heavy objects on top of the power cord or bend, twist, or pull it excessively. Keep the power cord away from hot electrical appliances.
- If the lamp breaks, ventilate the room to prevent gases contained in the lamp from being inhaled or coming in contact with the eyes or mouth.
- If the projector is mounted overhead and the lamp breaks, be careful to prevent pieces of glass from falling into your eyes when you open the lamp cover.

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

FCC Compliance Statement

For United States Users

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

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

WARNING

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

For Canadian Users

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

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

Limited Warranty

1. Limited Warranty for Epson Products

Epson products are covered by warranty against defects in workmanship and materials when operated under normal use and handling conditions, as indicated in the product documentation, for the period specified in section "Limited Warranty Coverage". Coverage begins as of the date of delivery to the purchaser by Epson or by an authorized Epson dealer (see "Epson Subsidiaries and Offices in Latin America"), in the country of purchase.

Epson also guarantees that the consumables (ink cartridges, toner, batteries) included with the product, will perform according to the usage specifications as long as they are used prior to the expiration of their warranty period.

2. Scope of Warranty

Should Epson receive notice of a defect during the warranty period, it may, at its discretion, repair or replace the defective product at no cost to the purchaser. In the event of a replacement, the replaced equipment will become property of Epson. The replaced item may be new or previously repaired to the Epson standard of quality, and will assume the remaining warranty period of the product that was originally purchased.

This warranty does not include any compensation or damages whatsoever, resulting from the operating failures of the Epson product. In any event, Epson's maximum liability toward the purchaser will be limited to the purchase price paid to Epson or to the authorized dealer.

Epson's warranty does not cover any software not manufactured by Epson, even when delivered with an Epson product. The software may have a warranty provided by the manufacturer, as indicated in the documentation attached thereto.

3. Limitations and Exclusions

The warranty will be invalid in the following cases:

3.1 When the product's serial number has been removed or altered.

3.2 When the product has been misused, has undergone unauthorized modifications, has been used or stored in ways that are not in compliance with the environmental specifications of the product.

3.3 When the damage resulted from the use of refilled supplies or consumables, or when damages are the result of use of media that does not meet the product's specifications.

3.4 When damages resulted from the inappropriate transport of the equipment (packaging, installation, maintenance, transportation).

3.5 When damages were caused by natural or intentional disasters (fire, floods, lightning, earthquakes, etc.), power surges, or interaction with other brand products.

3.6 When the product has been totally or partially disassembled, or has been repaired other than by an Epson Authorized Service Center.

3.7 When substances have been spilled on the product.

3.8 When the external plastic case has been scratched or abused.

3.9 When damages resulted from inappropriate tests, installation, maintenance or adjustments.

The warranty does not extend to accessories (lids, covers, trays) or replenishing supplies and consumables (ink cartridges, toner, ink ribbons, batteries, photosensitive units, knobs, print heads, lamps), which, due to their nature, must be regularly purchased through authorized dealers.

4. How to Obtain Warranty Service

Please refer to the user documentation to ensure that the product settings have been properly set and to perform the diagnostic tests indicated therein. Furthermore, in order for the unit to operate optimally, always use original Epson supplies and consumables.

To obtain warranty service, the purchaser may take the product to any Authorized Epson Service Center, along with proof of purchase, or call any of the Epson Technical Assistance Centers (see country list starting on page 115).

Upon calling an Authorized Epson Service Center, the purchaser will be asked to provide the product model and serial numbers, and may be asked to provide information on the location and the date of purchase (the warranty is only valid in the country of purchase).

If there are no Authorized Service Centers in your area, call the Technical Assistance Center for service referral.

5. Responsibilities of Purchaser

The purchaser is responsible for the safety of all confidential and proprietary information stored on the product, as well as for recovery backup files in case of damage. Any activity related with the re-installation or resetting of the software that was delivered with the equipment, will be billed to the purchaser at the rates in effect at the Epson Service Center. This also applies if the failure was the result of a defect in the purchaser's proprietary software or of a computer "virus".

In order to obtain on-site service, the latter will be required to provide: access to the product; an appropriate working area; access to electrical facilities; access to the resources that may be necessary for the installation, repair or maintenance of the unit; a safety environment for Epson staff and their work tools.

6. Limited Warranty Coverage

Product	Model	Coverage	Conditions
Projector	PowerLite S8+/ PowerLite W8+/ EX51	Two Years	Service center

Technical Support Service

Epson offers technical assistance through electronic and telephone services. Before calling Epson, refer to the documentation included with your product. If you do not find the solution to your problem, visit Epson's website at: **www.latin.epson.com** or call the local Epson office or an authorized dealer.

Service Centers

Country	Telephone number	Website
Argentina	(54 11) 5167-0300	www.epson.com.ar
Chile	(56 2) 230-9500	www.epson.cl
Colombia	(57 1) 523-5000	www.epson.com.co
Costa Rica	(50 6) 2210-9555 800-377-6627	www.epsoncr.com
Mexico	(52 55) 1323-2052 01-800-087-1080	www.epson.com.mx
Peru	(51 1) 418-0210	www.epson.com.pe
Venezuela	(58 212) 240-1111	www.epson.com.ve

If your country does not appear on the preceding list, please contact the dealer where you purchased the product.

You may receive help or consult information online for all Epson products. Register your Epson equipment on our website, at **www.latin.epson.com**.

Extended Warranty Support and Service

In some countries, Epson offers warranty extension services. You may purchase this service by calling the Technical Service Center.

Epson Subsidiaries and Offices in Latin America

Epson Argentina S.A.
Avenida Belgrano 964/970
(1092), Buenos Aires,
Argentina
Tel: (54 11) 5167-0300
Fax: (54 11) 5167-0333

Epson Chile, S.A.
La Concepción 322
Providencia, Santiago, Chile
Tel: (56 2) 484-3400
Fax: (56 2) 484-3413

Epson Colombia, Ltda.
Calle 100, No. 21-64 piso 7
Bogotá, Colombia
Tel: (57 1) 523-5000
Fax: (57 1) 523-4180

Epson Costa Rica, S.A
Embajada Americana,
200 Sur y 300 Oeste
San José, Costa Rica
Tel: (50 6) 210-9555
Fax: (50 6) 296-6046

Epson México, S.A. de C.V.
Blvd. Manuel Ávila Camacho
389 Edificio 1 Conjunto
Legaria
Col. Irrigación, México, D.F.
C.P 11510 México
Tel: (52 55) 1323-2000
Fax: (52 55)1323-2183

Epson Perú, S.A.
Av. Canaval y Moreyra 590,
San Isidro, Lima 27, Perú
Tel: (51 1) 418-0210
Fax: (51 1) 418-0220

Epson Venezuela, S.A.
Calle 4 con Calle 11-1
La Urbina Sur
Caracas, Venezuela
Tel: (58 212) 240-1111
Fax: (58 212) 240-1128

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