

**VS200/EX3200/EX5200/EX7200  
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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#### (2) libpng

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# W

## *Welcome*

The VS200/EX3200/EX5200/EX7200 is an easy-to-use, compact, lightweight projector with a built-in speaker. It offers up to 2300 (VS200) or 2600 (EX3200/EX5200/EX7200) lumens of white and color light output (brightness). It also provides a native SVGA (VS200/EX3200), XGA (EX5200), or WXGA (EX7200) 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 (EX5200/EX7200 only).

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

- **Plug n' Play instant setup**—instantly project images from a Windows® or Macintosh® computer via USB connection
- **Ultra HD-quality with just one cable**—all digital HDMI audio/video connection (EX5200/EX7200 only)
- **PC-free slideshows and presentations**—USB thumb drive port (EX5200/EX7200 only)
- **Quick, convenient control**—Direct Power On, sleep mode, Instant Off®/On
- **Easy picture adjustment**—ultra flexible, Keystone correction with digital zoom (VS200/EX3200) or Auto Keystone correction with optical zoom (EX5200/EX7200 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:

- Audio out (VS200/EX3200 only)
- 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 (EX3200/EX5200/EX7200 only) and remote control included

## Using Your Documentation

### **note**

*Your projector may differ from the illustrations shown, but the instructions are the same.*

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 and displaying and adjusting the image.
- **Built-in help system**  
Provides assistance for common problems. Available from the ? Help button on the projector or the remote control. See page 94 for details.

- **epson.com/support**

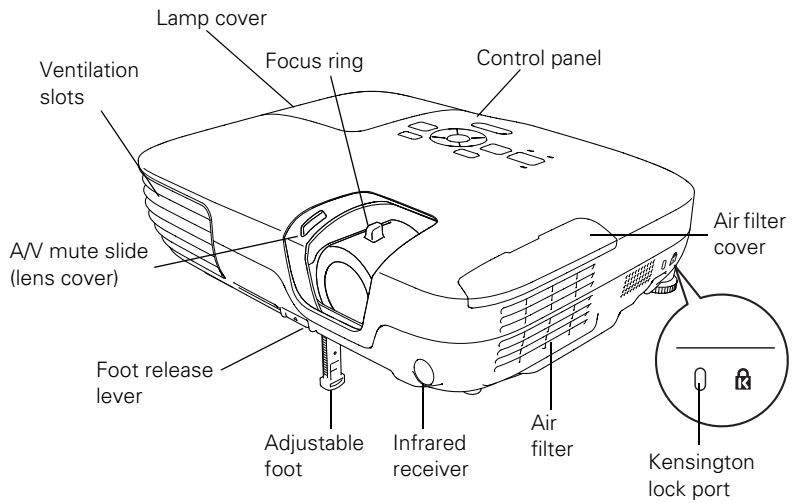
View FAQs (frequently asked questions) and e-mail your questions to Epson support 24 hours a day.

- **PrivateLine® support**

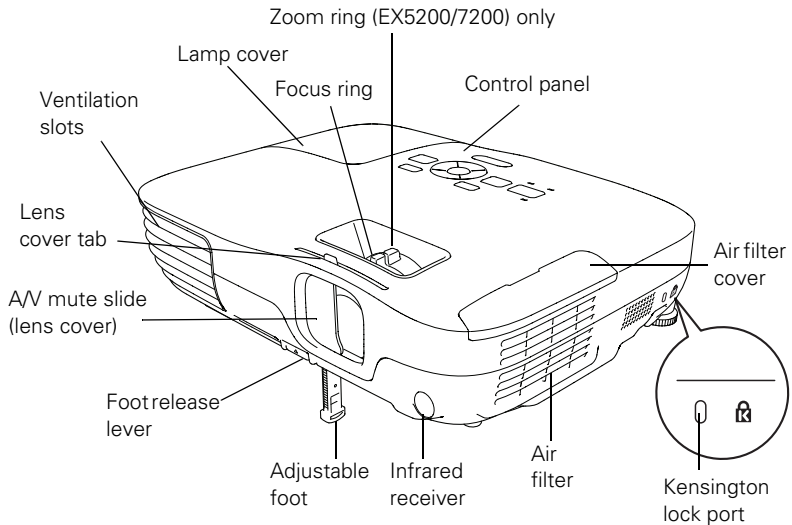
If you still need help after checking this *User's Guide* and the sources listed in this section, you can use the Epson PrivateLine Support service to get help fast. Call (800) 637-7661 and enter the PIN on the PrivateLine card. Or take advantage of Epson's automated support services 24 hours a day. See page 104 for more information.

# Projector Parts

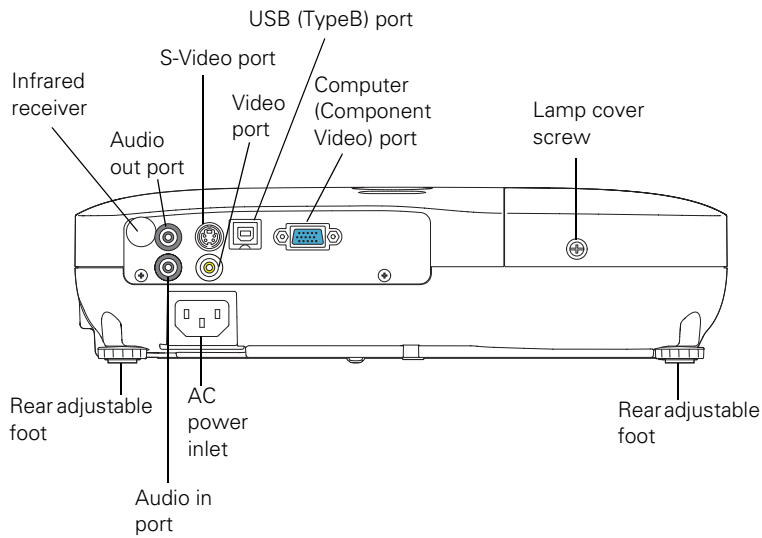
## VS200 Front



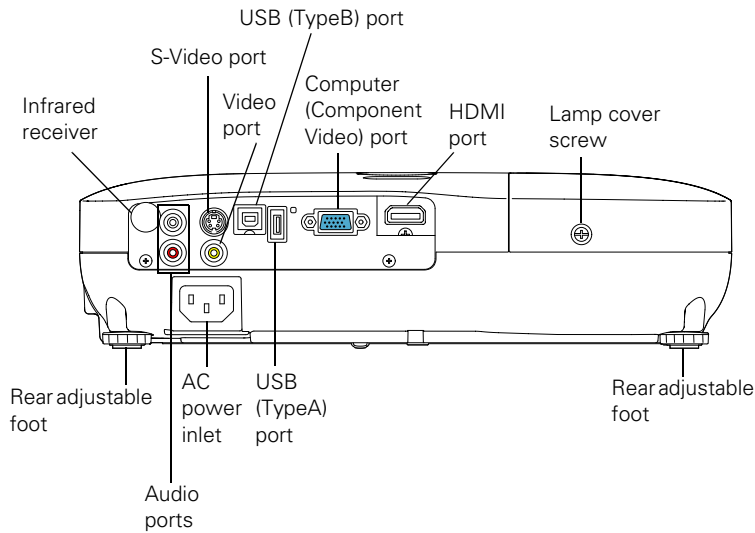
## EX3200/EX5200/EX7200 Front



### VS200/EX3200 Back

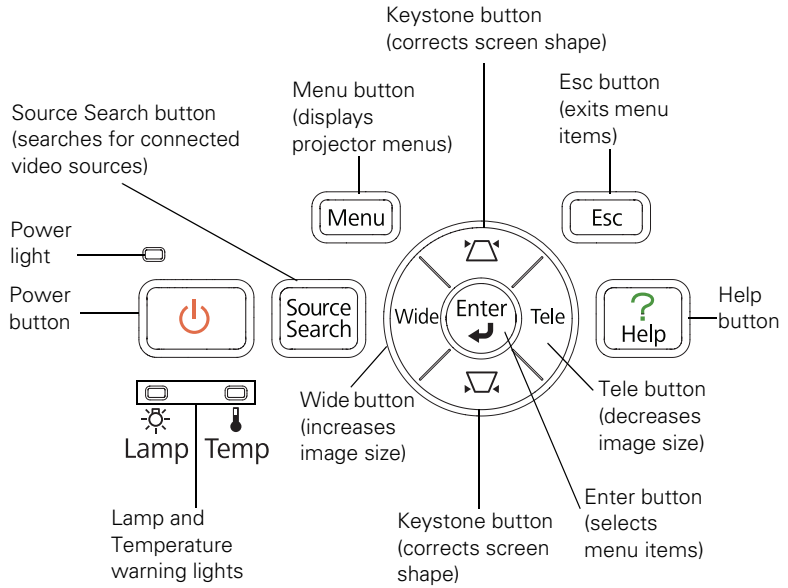


### EX5200/EX7200 Back

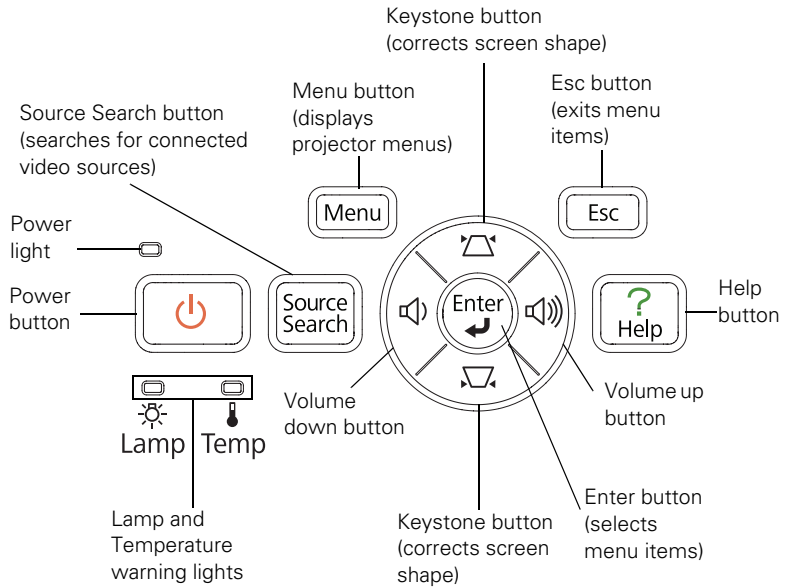


# Projector Control Panel

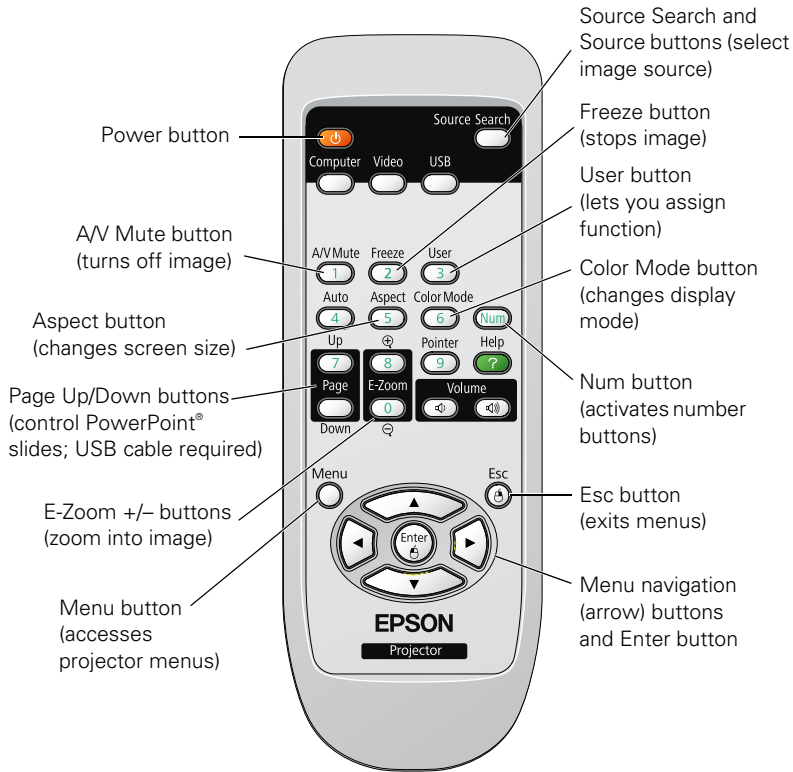
## VS200/EX3200



## EX5200/EX7200



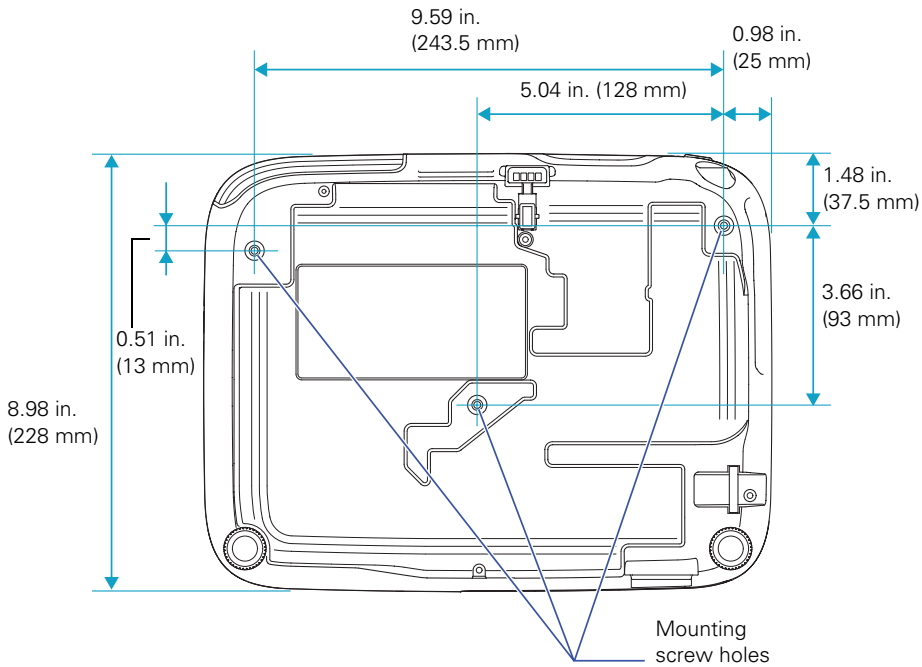
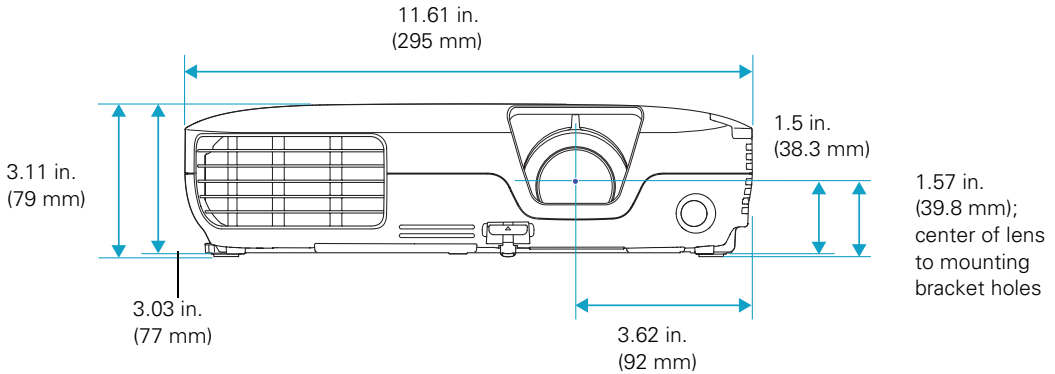
# Remote Control



## Projector Dimensions

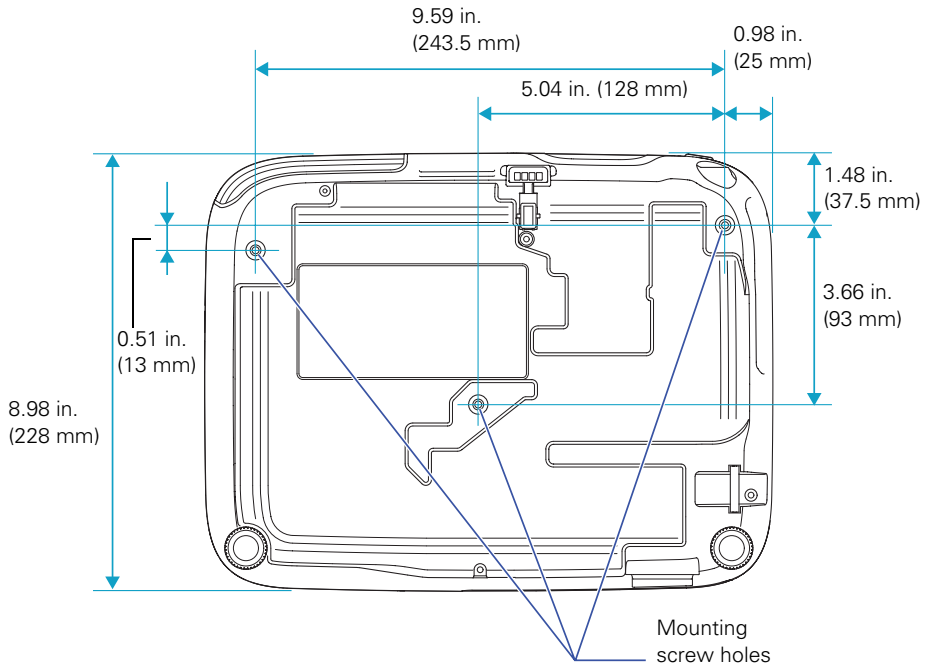
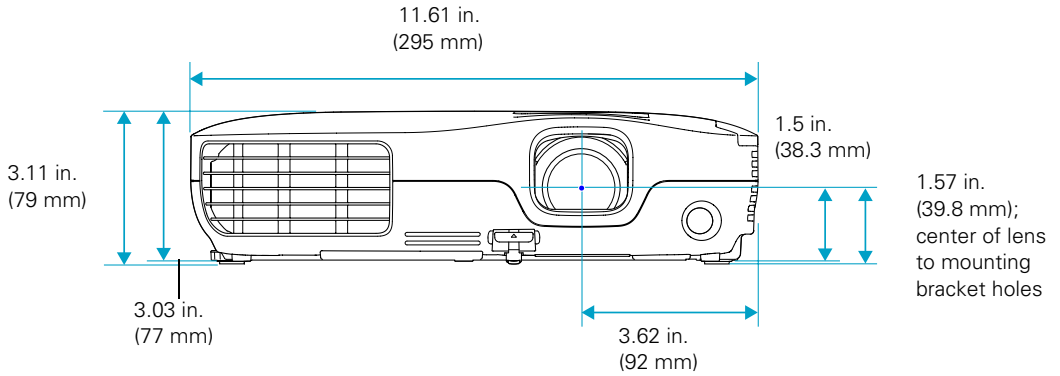
Use the dimensions below to guide you in placing or installing the projector.

### VS200





**EX3200/EX5200/EX7200**



## *Registration and Warranty*

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

In addition, Epson offers free Extra Care<sup>SM</sup> Road Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, Epson will ship you a replacement unit anywhere in the United States or Canada. See the brochure included with your projector for details.

You can register using the included CD, or you can register online at [epson.com/webreg](http://epson.com/webreg). Registering also lets you receive special updates on new accessories, products, and service.

## *Optional Accessories*

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

<b>Product</b>	<b>Part number</b>
Replacement lamp	V13H010L58
Replacement air filter set	V13H134A25
Universal projector ceiling mount	ELPMBPJF
Adjustable suspended ceiling channel kit	ELPMBP01
False ceiling plate kit	ELPMBP02
Structural round ceiling plate	ELPMBP03
Adjustable extension column (pipe) 8" - 11"	ELPMBC01
Kensington security lock	ELPSL01
50-inch portable screen (4:3 aspect ratio)	ELPSC06
80-inch portable pop-up screen (4:3 aspect ratio)	ELPSC08
Accolade® Duet™ Portable Projector Screen (4:3/16:9)	ELPSC80

<b>Product</b>	<b>Part number</b>
Component-to-VGA video cable S-Video cable	ELPKC19 ELPSV01
DC-06 document camera (ELPDC06) DC-10s document camera DC-11 document camera (ELPDC11)	V12H321005 ELPDC10S V12H377020
Molded hard-shell wheeled carrying case	ELPKS58

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



# 1 *Setting Up the Projector*

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

You can also connect the projector to a USB storage device or digital camera (EX5200/EX7200 only).

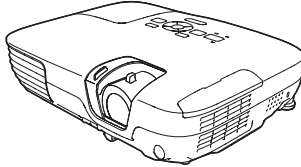
Follow the instructions in this chapter on:

- 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 (EX5200/EX7200 only)
- Turning the projector on and off

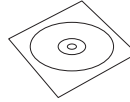
# Unpacking the Projector

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

## VS200



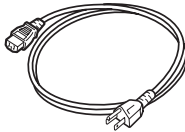
Projector



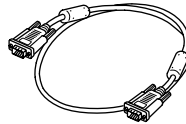
PDF manuals and registration CD-ROM



Remote control



Power cord

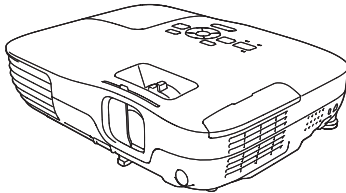


VGA computer cable

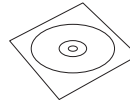


2 AA batteries (for remote control)

## EX3200/EX5200/EX7200



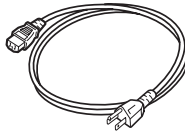
Projector



PDF manuals and registration CD-ROM



Password Protected sticker



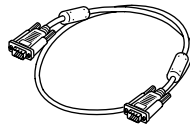
Power cord



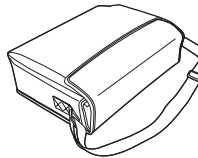
Remote control



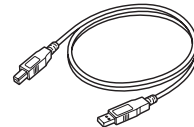
2 AA batteries (for remote control)



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 91 for transportation instructions. If you are moving the projector by hand, use a carrying case (included with the EX3200/EX5200/EX7200 only).

## ***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 (EX5200/EX7200 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 Epson. See "Optional Accessories" on page 18.
- To receive an S-Video signal, you'll need an S-Video cable. One may be included with your video equipment, or you can purchase one from Epson. See "Optional Accessories" on page 18.
- To receive an audio signal, you'll need an RCA-type audio cable with two male plugs (EX5200/EX7200), or a stereo mini-jack to RCA-type audio adapter cable (with red and white jacks on one end; VS200/EX3200).

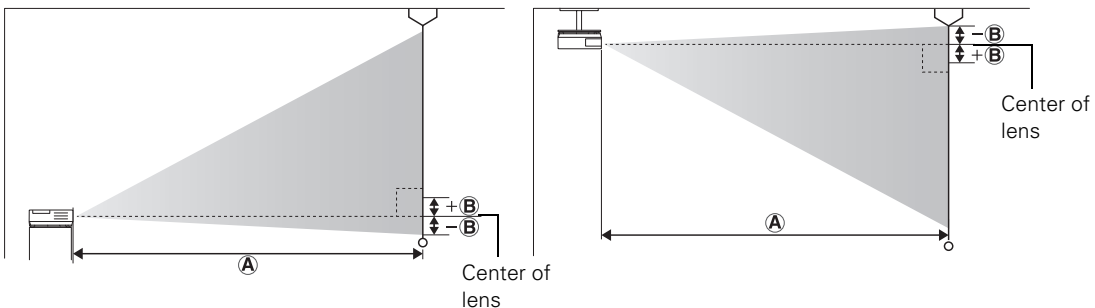
## Positioning the Projector

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.



**VS200/EX3200 (4:3 images)**

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</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)

**VS200/EX3200 (16:9 images)**

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</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)

### VS200/EX3200 (16:10 images)

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</b>
30 inches (76 cm)	36 to 50 inches (93 to 126 cm)	-0.5 inch (-1 cm)
50 inches (127 cm)	61 to 83 inches (156 to 212 cm)	-0.8 inch (-2 cm)
60 inches (152 cm)	74 to 100 inches (188 to 255 cm)	-1 inch (-2 cm)
80 inches (203 cm)	99 to 134 inches (252 to 341 cm)	-1.3 inch (-3 cm)
100 inches (254 cm)	124 to 168 inches (315 to 426 cm)	-1.6 inches (-4 cm)
150 inches (381 cm)	187 to 252 inches (474 to 641 cm)	-2.4 inches (-6 cm)
200 inches (508 cm)	256 to 346 inches (651 to 880 cm)	-3.3 inches (-8 cm)

### EX5200 (4:3 images)

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</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)

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</b>
250 inches (635 cm)	299 to 359 inches (759 to 912 cm)	-16.7 inches (-42 cm)
300 inches (762 cm)	359 to 431 inches (912 to 1095 cm)	-20 inches (-51 cm)

### EX5200 (16:9 images)

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</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)

### EX5200 (16:10 images)

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</b>
30 inches (76 cm)	37 to 45 inches (94 to 113 cm)	-0.5 inch (-1 cm)
40 inches (102 cm)	50 to 60 inches (126 to 152 cm)	-0.7 inch (-2 cm)
50 inches (127 cm)	62 to 75 inches (159 to 191 cm)	-0.9 inch (-2 cm)

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</b>
60 inches (152 cm)	75 to 90 inches (191 to 230 cm)	-1.1 inch (-3 cm)
80 inches (203 cm)	101 to 121 inches (256 to 307 cm)	-1.4 inch (-4 cm)
100 inches (254 cm)	126 to 152 inches (320 to 385 cm)	-1.8 inch (-4 cm)
150 inches (381 cm)	190 to 228 inches (482 to 579 cm)	-2.7 inches (-7 cm)
200 inches (508 cm)	253 to 304 inches (643 to 773 cm)	-3.5 inches (-9 cm)
250 inches (635 cm)	317 to 381 inches (805 to 967 cm)	-4.4 inches (-11 cm)
280 inches (699 cm)	355 to 426 inches (902 to 1083 cm)	-5 inches (-13 cm)

**EX7200 (4:3 image)**

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</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)

**EX7200 (16:9 image)**

<b>Screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</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)

**EX7200 (16:10 image)**

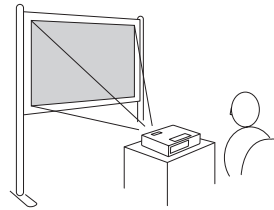
<b>Diagonal screen size</b>	<b>Projection distance (A) Wide to Tele</b>	<b>Offset (B)</b>
40 inches (102 cm)	44 to 53 inches (111 to 134 cm)	-3 inches (-8 cm)
50 inches (127 cm)	55 to 66 inches (139 to 168 cm)	-3.8 inches (-10 cm)
60 inches (152 cm)	66 to 79 inches (168 to 202 cm)	-4.5 inches (-12 cm)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

## 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

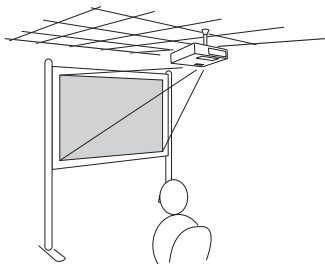
After positioning the projector, you may want to connect a Kensington MicroSaver® anti-theft device to the lock port on the projector. You can purchase this from Epson; see page 18.



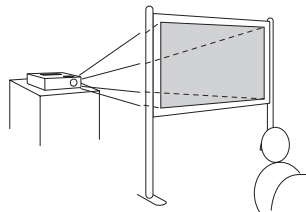
Front projection

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 51). The EX5200/EX7200 may be able to correct the distortion automatically.

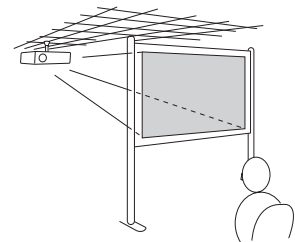
You can also install the projector in three other viewing setups: ceiling projection, rear projection onto a semi-transparent screen, or rear/ceiling projection.



Ceiling projection



Rear projection



Rear/ceiling projection

To project from overhead, you'll need the optional ceiling mounting hardware (see page 18). You'll also need to select the appropriate **Projection** setting in the projector's Extended menu to orient the image correctly (see page 75).

---

## Connecting to a Computer


You can connect the projector to a Windows or Macintosh computer using the projector's **TypeB** USB port. This lets you carry a lightweight cable with you when you transport the projector (see page 31).

You can connect the projector to any computer that has a standard video output (monitor) port, including desktop models, PC and Macintosh computers, and hand-held devices. See page 34 for instructions.

To play sound through the projector, connect an audio cable (see page 41).

You may be able to use your remote control as a wireless mouse when projecting from a computer (see page 61).

### Connecting to the USB Port

You can connect a PC with a 32-bit version of Windows 7, Windows Vista®, Windows XP, or Windows 2000 (SP4) or a Macintosh computer with OS X 10.5.1 or 10.6.x 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.


1. Follow the instructions beginning on page 45 to turn on the projector.
2. Make sure the **USB Type B** setting on the Extended menu is set to **USB Display** (see page 75).
3. Turn on your computer.

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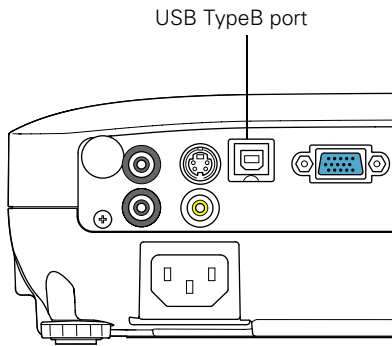
#### **note**

*To connect a Macintosh that includes only a Mini Display Port or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's VGA video port. Contact Apple for compatible adapter options.*

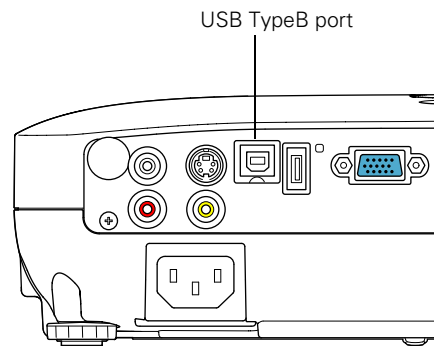
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4. Connect the square end of a USB cable to the projector's TypeB (square)  USB port.

**VS200/EX3200**



**EX5200/EX7200**



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

The first time you connect a computer to the projector's USB port, you will need to install software from the projector on your computer (see page 33).

6. You can connect an optional audio cable if you want to play sound through the projector (see page 41).

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.



## ***Installing Software***

The first time you connect a computer to the projector's USB port, you will need to install software from the projector on your computer. Follow the instructions for your operating system.

### ***Windows 7 and Windows Vista***

When you see the Auto Play window, click **Run EMP\_UDSE.EXE**. Follow the instructions on the screen to install the Epson USB Display software.

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** button on the remote control or the projector.

### ***Windows XP and Windows 2000***

Follow the instructions on the screen to install the Epson USB Display software.

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** button on the remote control or the projector.

### ***Macintosh***

The setup folder for USB display is displayed in the Finder. Double-click the **USB Display Installer** icon and follow the on-screen instructions to install the software.

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** button on the remote control or the projector.

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#### ***note***

*If the software screen does not display automatically, double-click **Computer** or **My Computer**, then double-click **EPSON\_PJ\_UD**.*

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#### ***note***

*It may take a few minutes before the computer's desktop is displayed by the projector.*

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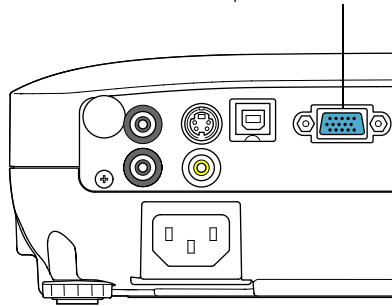
## Connecting to the VGA Computer Port

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.

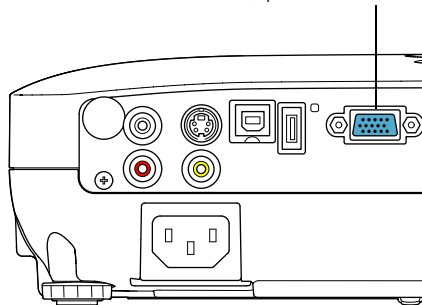
### VS200/EX3200

Computer (Component Video) port



### EX5200/EX7200

Computer (Component Video) port



2. You may need to change the **Input Signal** setting in the projector's **Signal** menu to **RGB** or **Auto** (see page 72).
3. You can connect an optional audio cable to play sound through the projector (see page 41).

### 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.*

4. You may also be able to use the remote control as a wireless mouse (see page 61).

When you've finished making connections, see page 45 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:

- EX5200/EX7200 only: If your video device has an HDMI connector, see “Connecting an HDMI Video Source (EX5200/EX7200 Only)” on page 36.
- If your video device has a yellow RCA video output connector, see “Connecting a Composite Video Source” on page 37.
- If your video device has an S-Video connector, see “Connecting an S-Video Source” on page 38.
- If your video device has a component video port (three connectors labeled either Y/Cb/Cr or Y/Pb/Pr), see “Connecting a Component Video Source” on page 39.
- If your video device has an RGB video port, see “Connecting an RGB Video Source” on page 40.

After connecting video cables, you may also want to connect an optional audio cable to play sound through the projector; see page 41.

If you connect using an HDMI cable (EX5200/EX7200 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 (EX5200/ EX7200 Only)**

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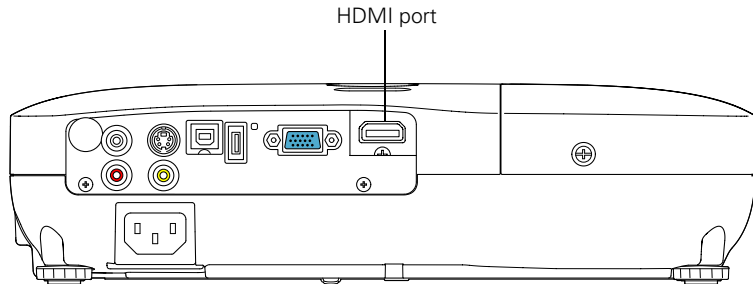
### **note**

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

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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 video equipment and the HDMI connector on the projector.

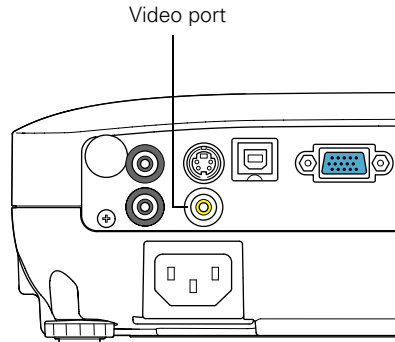


When you've finished making connections, see page 45 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

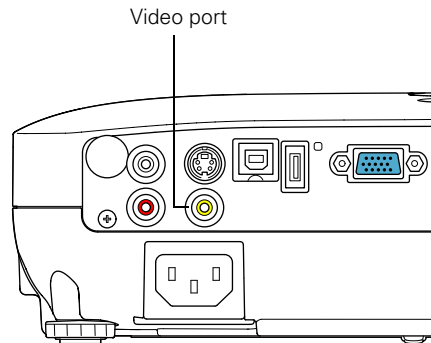
## Connecting a Composite Video Source

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

### VS200/EX3200



### EX5200/EX7200



2. If you want to play sound through the projector, see page 41 for instructions on connecting an audio cable.

When you've finished making connections, see page 45 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.*

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**note**

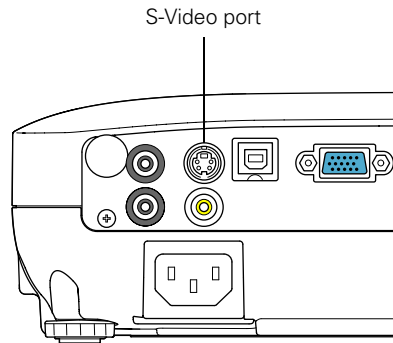
*If the S-Video cable was not provided with your video device, you can purchase one from Epson; see page 18.*

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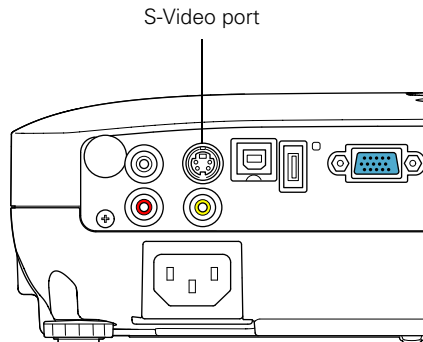
## **Connecting an S-Video Source**

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

### **VS200/EX3200**



### **EX5200/EX7200**



2. If you want to play sound through the projector, see page 41 for instructions on connecting an audio cable.

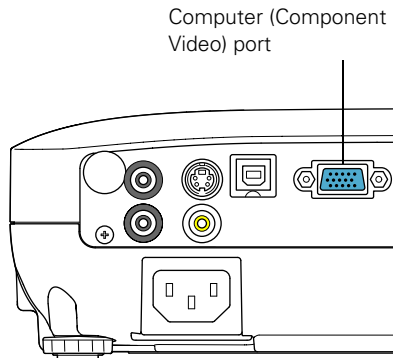
When you've finished making connections, see page 45 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

## Connecting a Component Video Source

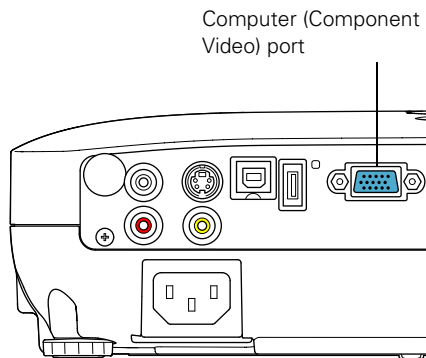
If your video equipment has component video connectors (three connectors labeled either Y/Cb/Cr or Y/Pb/Pr), you can purchase a component-to-VGA video cable from Epson (see page 18) or an electronics dealer.

1. Connect the component end of the cable (3 male RCA) to the Y/Cb/Cr (or Y/Pb/Pr) connectors on your device.
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.

### VS200/EX3200



### EX5200/EX7200



3. You may need to change the **Input Signal** setting in the projector's **Signal** menu to **Auto** (see page 72).

4. If you want to play sound through the projector, see page 41 for instructions on connecting an audio cable.

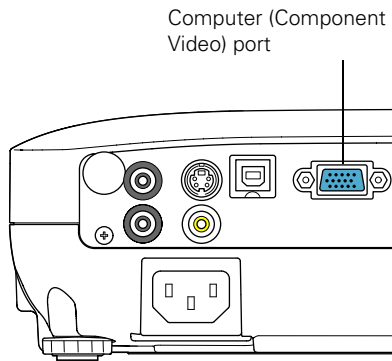
When you've finished making connections, see page 45 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

### **Connecting an RGB Video Source**

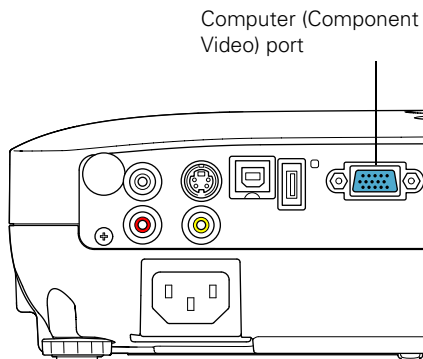
You can connect to an RGB video source using the VGA computer cable provided with the projector.

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

#### **VS200/EX3200**



#### **EX5200/EX7200**



2. You may need to change the **Input Signal** setting in the projector's **Signal** menu to **RGB** (see page 72).



3. If you want to play sound through the projector, see page 41 for instructions on connecting audio cables.

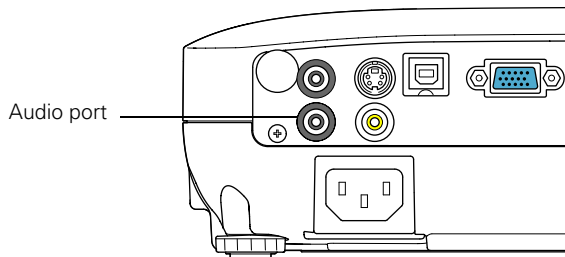
When you've finished making connections, see page 45 for instructions on turning on the projector and Chapter 2 for instructions on displaying and adjusting the image.

## *Playing Sound Through the Projector*

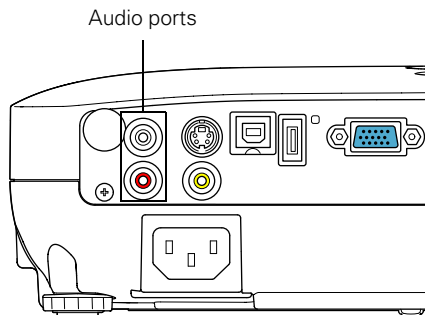
You can play sound through the projector's speaker system.

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

**VS200/EX3200**



**EX5200/EX7200**



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

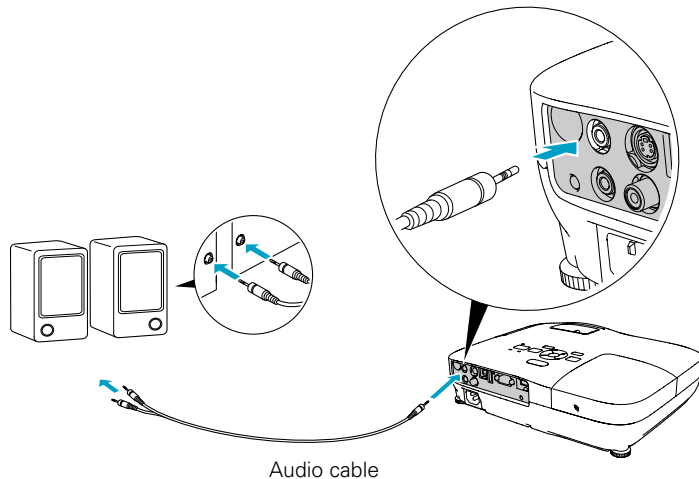
## **Connecting External Speakers (VS200/EX3200 Only)**

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.

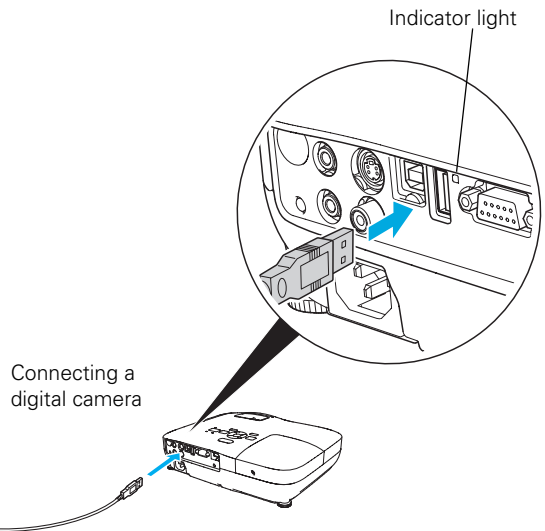
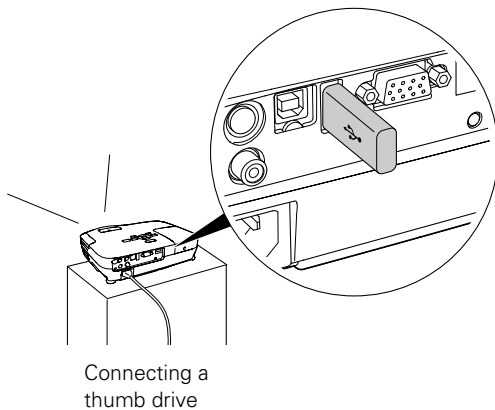
The projector's internal speaker system is disabled while sound is output to external speakers.

## Connecting a Digital Camera or Other USB Device (EX5200/EX7200 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 63 for details.

Use the USB cable specified for your device.

1. Follow the instructions beginning on page 45 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.



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.

### **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.

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 63 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.

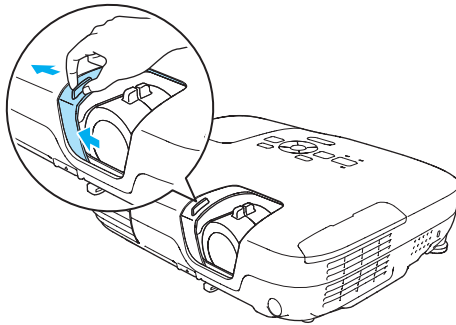
## *Turning the Projector On and Off*

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 50).

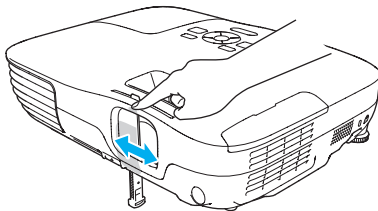
Follow these steps to turn on the projector:

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

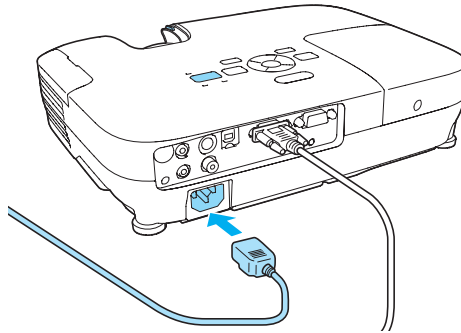
### **VS200**




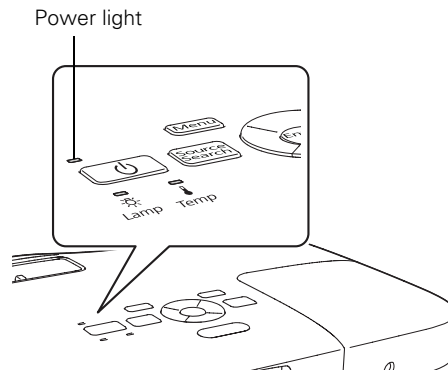
### **EX3200/EX5200/EX7200**




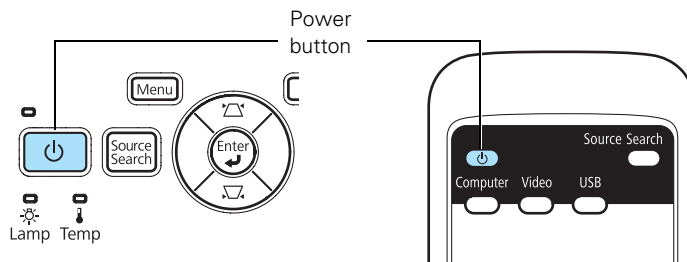
2. Plug one end of the power cord into the projector, and the other end into an electrical outlet.





The  power light turns orange.




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



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.

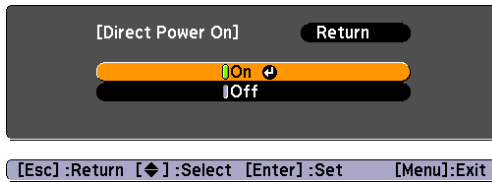
4. If you are prompted to enter a password, see page 78.

## Using the Direct Power On Function

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

Follow these steps to enable Direct Power On:

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



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

---

### **warning**

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

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### **note**

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

---

---

## note

*Lamp life 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 76). 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.*

---

## 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.



# 2

## *Displaying and Adjusting the Image*

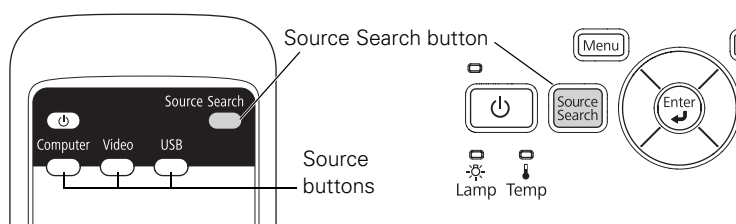
Follow the guidelines in this chapter for:

- 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 97 for solutions.

Select **USB** to project from a USB device (EX5200/EX7200 only). See page 63 for instructions.

## Adjusting the Image

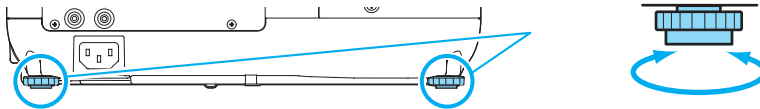
Once you see your image, you may need to make certain adjustments:

- If the image is too high or too low, reposition it as described below.
- If the image isn't square, see page 51.
- To focus or zoom your image, see page 53.
- To quickly adjust the color, brightness, or contrast, see page 54.
- To change the image aspect ratio, see page 55.
- If you need to fine-tune the image and/or sound, see Chapter 4.

## Adjusting the Position of the Image

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

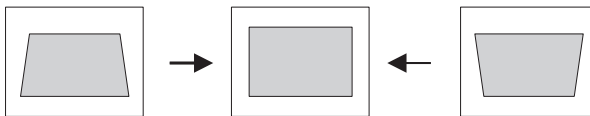
1. Press the foot release lever up and lift the front of the projector.
2. Once the image is positioned where you want it, release the lever to lock the foot in position.
3. If the image is tilted or you need to fine-tune the height of the image, you can turn the projector's adjustable rear feet.



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.

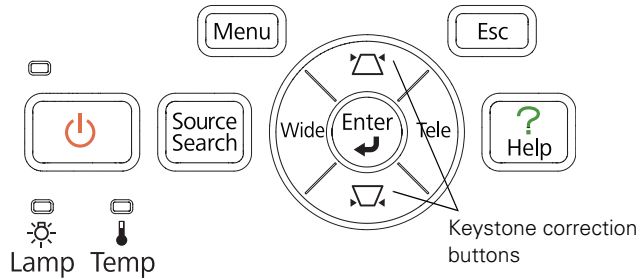


The EX5200 and EX7200 projectors include an **Auto Keystone** function that detects and corrects vertical keystone distortion. It takes about one second after the projector starts for the image to be corrected.

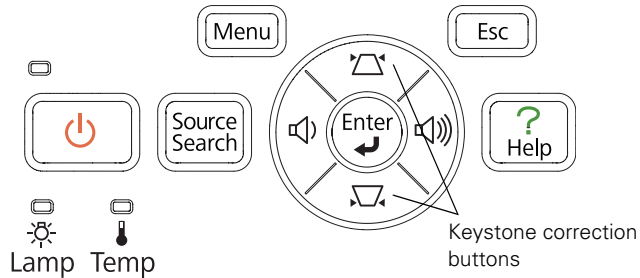
If your image is still distorted, or you are using the VS200 or EX3200 projector, do one of the following:

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

#### VS200/EX3200



#### EX5200/EX7200

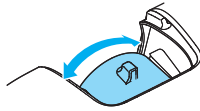


- Select the **Keystone** setting in the projector's **Settings** menu (see page 73). Then use the arrow buttons on the remote control to adjust the shape of the image.

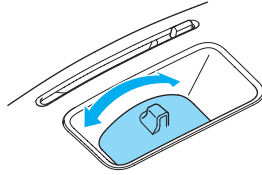
## Focusing and Zooming the Image

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

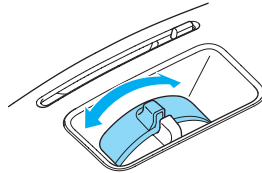
**VS200**



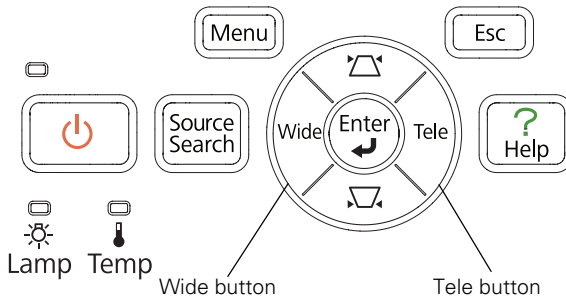
**EX3200**



**EX5200/EX7200**



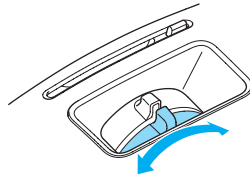
VS200/EX3200: to enlarge or reduce the image, press the **Wide** (enlarge) or **Tele** (reduce) button on the projector's control panel. You can also use the **Zoom** setting in the projector's **Settings** menu; see page 73 for instructions.



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 60 for instructions.

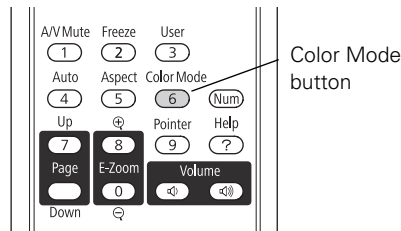
EX5200/EX7200: to enlarge or reduce the image, turn the zoom ring.



## 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:

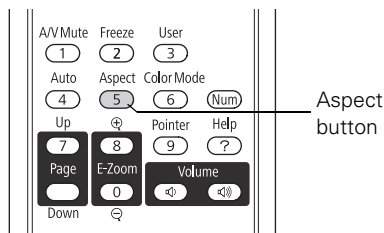
- **Dynamic:** Brightest mode; for video games or TV in a bright room.
- **Presentation:** For color presentations in a bright room.
- **Theatre:** For natural-toned movies in a darkened room.
- **Photo:** For vivid, high-contrast still images in a bright room (only available when the source is set to **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:

### VS200/EX3200/EX5200

- **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 EX5200 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.

### **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 EX5200/EX7200.*

## EX7200

- **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.
- **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.
- **16:9:** Converts the aspect ratio of the image to 16:9. 4:3 ratio images are elongated horizontally to fit.
- **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.
- **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.
- **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 (EX5200/EX7200 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 90. 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

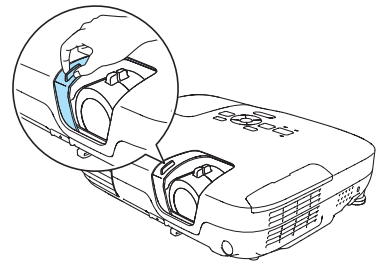
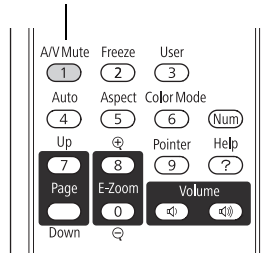
You can use the remote control to temporarily turn off the picture and sound, freeze the action, zoom in on the picture, and adjust the volume.

### 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.

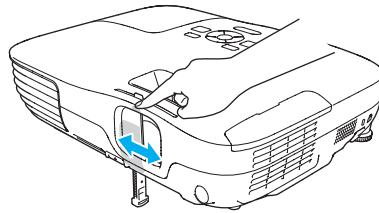
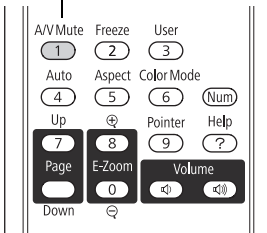
#### VS200

A/V Mute button



## EX3200/EX5200/EX7200

A/V Mute button



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 79 for more information.)

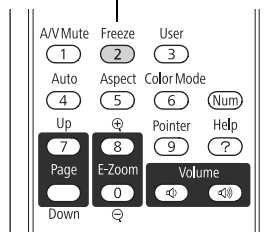
You can also set the Lens Cover Timer setting to automatically turn off the projector after 30 minutes to protect the projector if the A/V Mute slide is closed for a long time. See page 75 for instructions.

## 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.

Freeze button



### **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.*

---

**note**

You cannot use the Progressive feature (see page 71) while you are using E-Zoom.



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## Zooming In on Your Image

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

1. Press the E-Zoom + button on the remote control.  
You see a crosshair indicating the center of the zoom-in area.
2. Use the 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

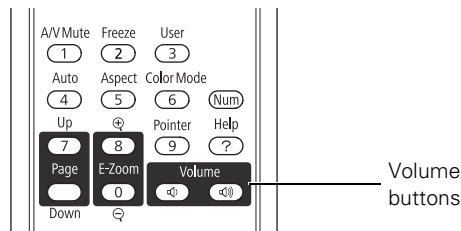
To change the volume on the projector, press the  or  button on the remote control.



---

**note**

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

---



On the EX5200/EX7200 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 74.

# Operating Your Computer With the Remote Control

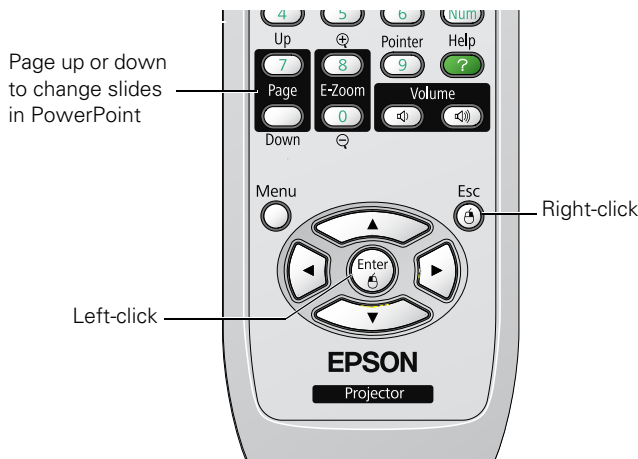
You can use the remote control in place of your computer's mouse so you won't have to stand next to the computer to control the presentation.

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 31) and select the function you want to use (see page 61).

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 75). Then you can control your presentation using those buttons.



## **note**

*You can use the remote control as a wireless mouse only when projecting from the Computer (Component Video) or HDMI (EX5200/EX7200 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 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 75). Then you can control your presentation as follows:

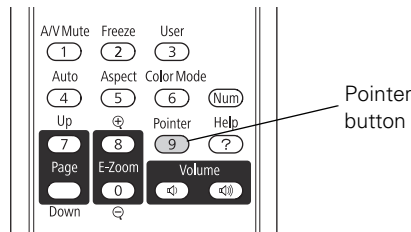
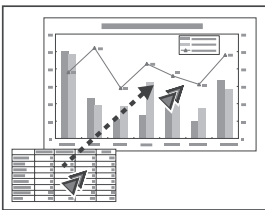
- Use the arrow buttons to move the cursor on the screen.
- Press the **Enter** button once to left-click, or twice to double-click. Press the **Esc** button to right-click.
- To drag-and-drop, hold down the **Enter** button. Then use the arrow buttons to drag the object. When it's where you want it, 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 (EX5200/ EX7200 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 **Source Search** button or one of the specific **Source** buttons on the remote control. To return to the Slideshow source, press **Source 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 43).

---

#### **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.*

---

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

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.

---

### **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.

---



- 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.
- 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	<b>Name order</b> displays files in name order <b>Date order</b> displays files in date order
Sort order	<b>In Ascending</b> sorts the files first to last <b>In Descending</b> sorts the files last to first
Continuous play	<b>On</b> displays a slideshow continuously <b>Off</b> displays a slideshow one time through

Option	Available settings
Screen switching time	<b>No</b> does not switch file display automatically <b>1Sec. to 60Sec.</b> displays files for the selected time and switches them automatically
Effect	<b>Wipe</b> transitions between images with a wipe effect <b>Dissolve</b> transitions between images with a dissolve effect <b>Random</b> 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*

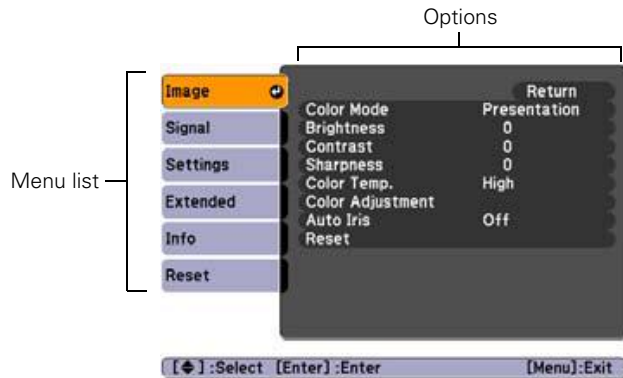
You can use the projector's on-screen menus to adjust the image, sound, and other features. This chapter covers the following information:

- 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.

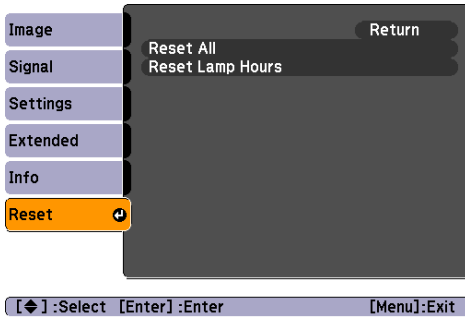
2. Use the arrow buttons on the remote control or the projector to scroll through the menu list. When you've highlighted the desired menu, press the **Enter** button to select it.
3. Once you've selected the menu, use the arrow buttons to scroll through the list of options. (Some of the options may be 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/USB display/ RGB video/  
USB\*



Component video/ Composite video/  
S-Video



\* EX5200/EX7200 only

### **note**

*If you are using the **HDMI port (EX5200/EX7200 only)**, you see the menu on the left if the 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).*

---

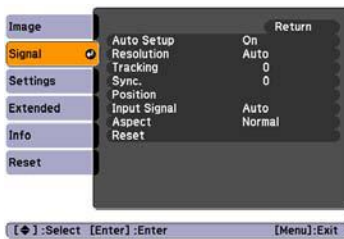
2. Adjust the desired options as needed:

- **Color Mode**  
Lets you quickly adjust the color and brightness for various environments. You can save a different setting for each source. See page 54 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.)

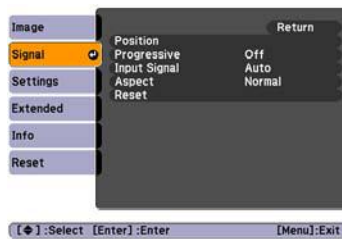
# Adjusting Signal Settings

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.

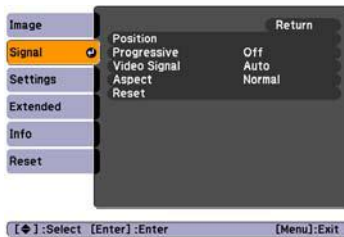
1. Press the **Menu** button and select the **Signal** menu. You see a screen similar to one of those below. (The settings will be different depending on the source you are projecting from.)



Computer/RGB video



Component video



Composite video/S-Video



HDMI (EX5200/EX7200 only)

---

**note**

You can also use the remote control's **Auto** button to automatically reset the projector's **Tracking**, **Sync**, and **Position** settings. See page 101 for details.

---

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**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 (EX5200/EX7200 only).

The HDMI Video Range setting cannot be set for digital RGB signals (EX5200/EX7200 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).

### ■ 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 (EX5200/EX7200 only). Turn this setting on to convert interlaced signals into progressive signals (best for moving images). Leave the setting **Off** for still images.

### ■ HDMI Video Range (EX5200/EX7200 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 device that outputs a component video signal (with connectors labeled Y/Cb/Cr or Y/Pb/Pr).

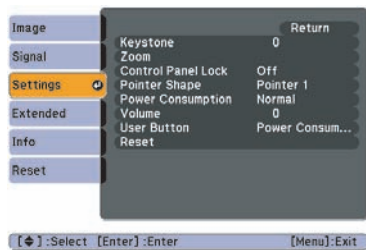


- **Video Signal** (composite or S-Video signals only)  
Select the setting for the type of equipment you've connected to the **Video** port. Leave this setting at **Auto** unless you are using a 60-Hz PAL system (then select **PAL60**).
- **Aspect**  
Sets the image's aspect ratio (ratio of width to height). See page 55 for more information.

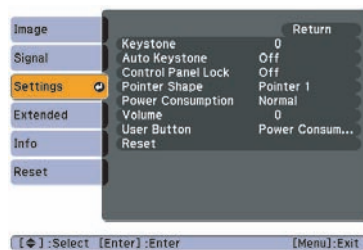
## Customizing Projector Features

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


### VS200/EX3200



### EX5200/EX7200

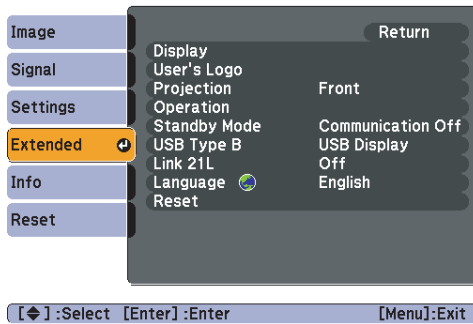


- **Keystone**  
Adjusts the shape of the image if the projector has been tilted upward or downward. If you notice that lines or edges look jagged after adjustment, decrease the **Sharpness** setting (see page 69).
- **Auto Keystone** (EX5200/EX7200 only)  
Automatically compensates for keystone distortion 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** (VS200/EX3200 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 81 for more information.
- **Pointer Shape**  
Lets you choose from three alternative pointer shapes. See page 62 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 79.

## ■ 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).

### **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.*

- **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 4,921 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 61 for restrictions and details.

- **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.

---

**note**

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

---

## 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 **AV Mute** button is pressed. The screen can be locked with a password to discourage theft and provides a way to identify the projector should it be stolen. See page 79.
- 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 81.
- Secure the projector to prevent theft using a cable locking system. See page 82.

### Enabling Password Protection

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

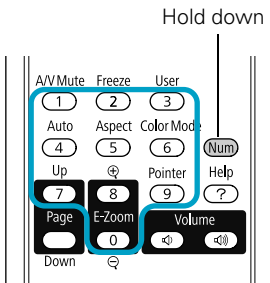
1. Press the **Freeze** button on the remote control for five to seven seconds. You see this screen:



### caution

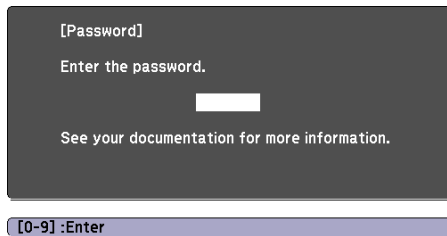
*If you lose the remote control, you will not be able to enter the password. Keep the remote control in a safe place at all times. Also, it's a good idea to write down your password.*

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 79), 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.



### Starting the Projector With a Password

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

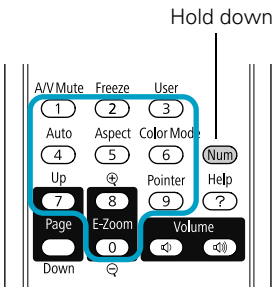


Hold down the **Num** button and use the numeric keypad to enter the four digit password.

The password screen closes and projection begins.

#### note

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



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 104.
- 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.

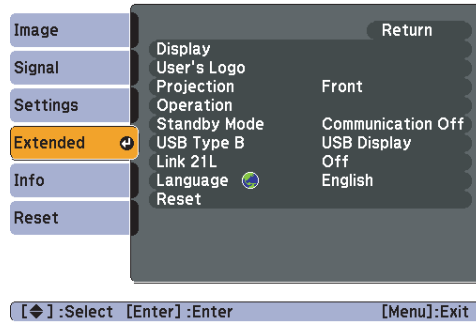
## Capturing the Image

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:

### 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.

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**.
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 58).

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**

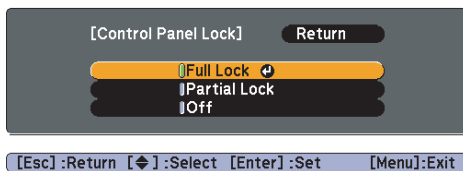
*You can lock these settings to prevent them from being changed without a password (see page 77).*

---

## 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.

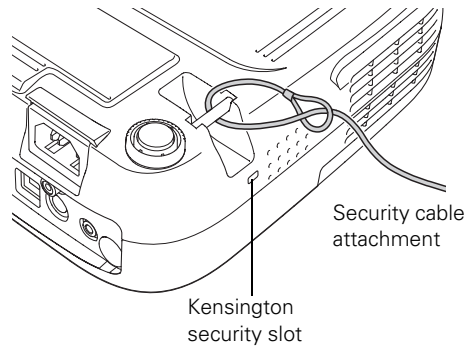
5. Press the **Menu** button to exit.

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 Epson (see page 18).

# 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.

---

## **warning**

*Before you clean any part of the projector, turn it off and unplug the power cord.*

*Never open any cover on the projector, except the lamp cover. Dangerous electrical voltages in the projector can injure you severely. Do not try to service this product yourself, except as specifically explained in this User's Guide. Refer all other servicing to qualified service personnel.*

---

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

This chapter covers the following:

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

---

**caution**

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

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

---

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**note**

*To order replacement air filters, request part number V13H134A25. See page 18 for ordering information.*

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## *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.

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## *Cleaning the Projector Case*

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

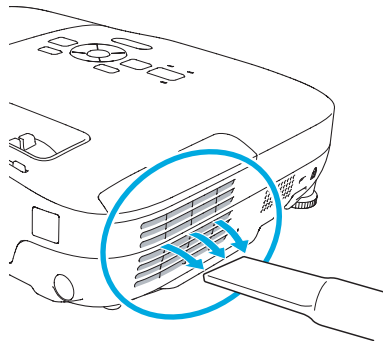
- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent and firmly wring the cloth dry. Then wipe the case.

---

## *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.

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).



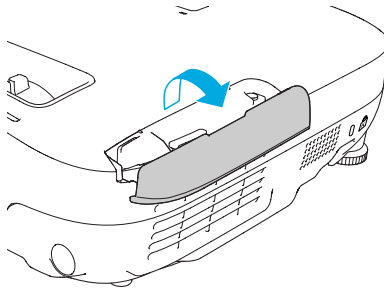
You can remove the air filter to clean both sides.

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

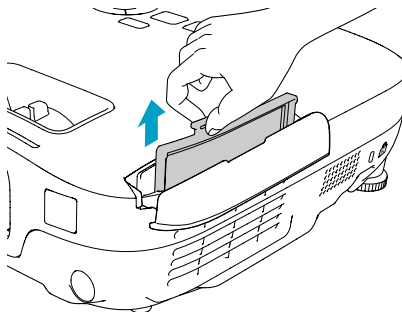
## Replacing the Air Filter

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
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**

*To order replacement air filters, request part number V13H134A25. See page 18 for ordering information.*

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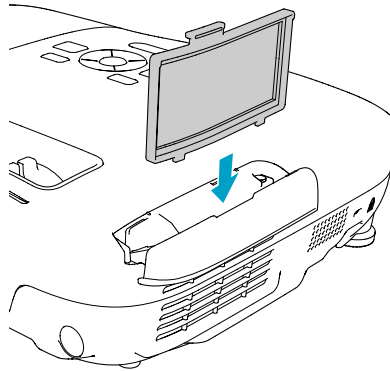
---

### **note**

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

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



- Close the air filter cover.

---

**note**

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


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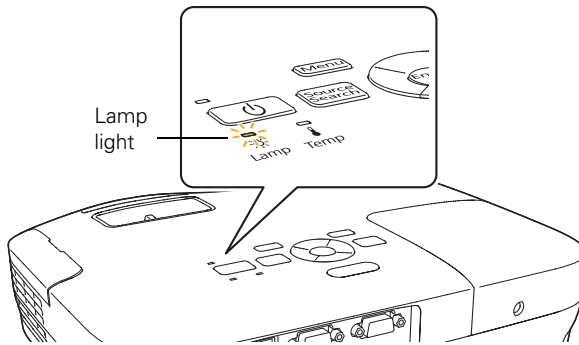
## *Replacing the Lamp*

The life span of the projection lamp is about 4,000 hours if **Power Consumption** in the Settings menu is **Normal** (default), and 5,000 hours if this setting is **ECO**. See page 90 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.

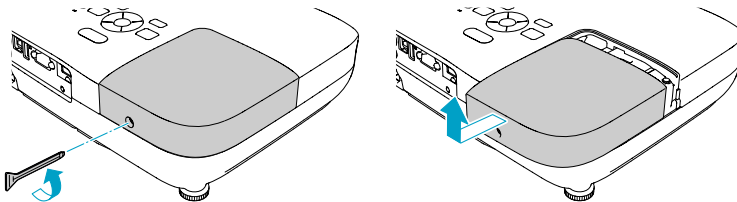
You may also need to replace the lamp if the  Lamp light flashes red. See page 95.



Contact your dealer or call Epson at 800-GO-EPSON (800-463-7766). Request part number V13H010L58.

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.



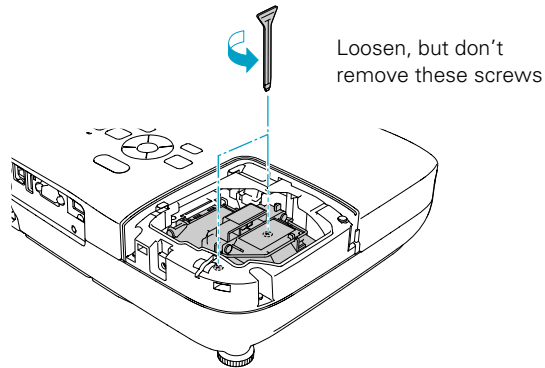
## **warning**

*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.*

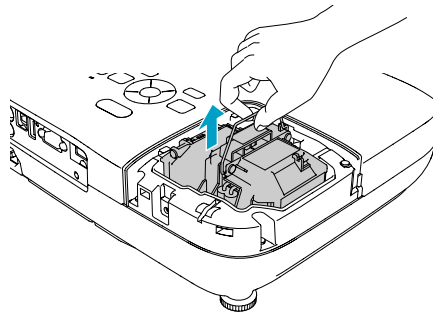
4. Loosen the two screws holding the lamp in place (you can't remove them).



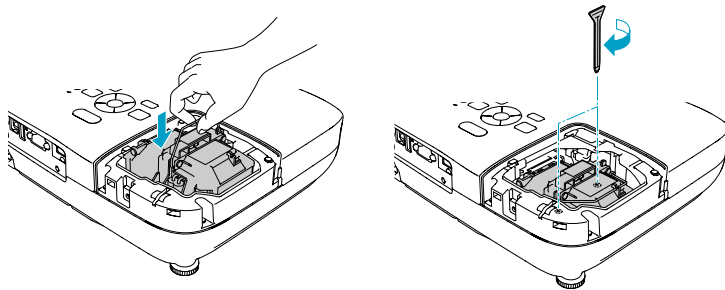
**note**

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

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

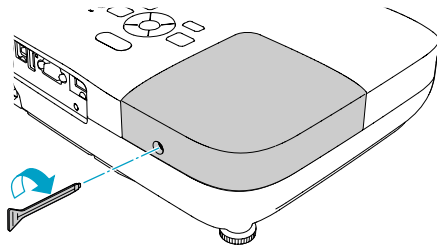


6. Gently insert the new lamp. (If it doesn't fit easily, make sure it is facing the right way.) Then tighten its screws.





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



---

**note**

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

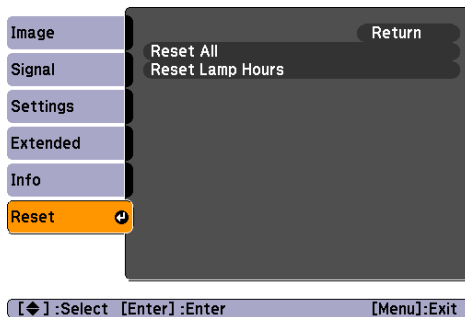
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8. Reset the lamp timer as described in the next section.

### ***Resetting the Lamp Timer***

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

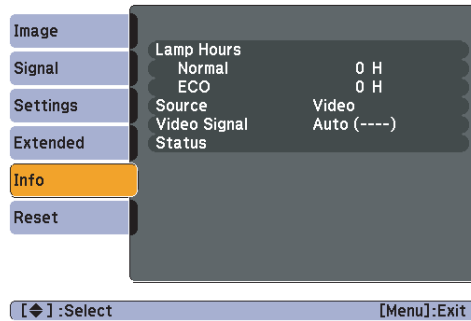
1. Press the **Menu** button on the remote control or on the projector's control panel. You see the main menu.
2. Select the **Reset** menu and press **Enter**. You see this screen:



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.*

### caution

*When replacing batteries, take the following precautions:*

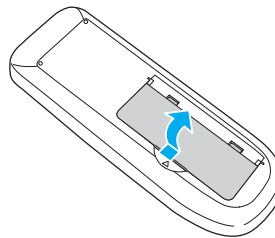
- *Replace the batteries as soon as they run out. If the batteries leak, wipe away battery fluid with a soft cloth. If fluid gets on your hands, wash immediately.*
- *Do not expose batteries to heat or flame.*
- *Dispose of used batteries according to local regulations.*
- *Do not use batteries other 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.*

The life span of the lamp is about 4,000 hours if **Power Consumption** in the **Settings** menu is **Normal** (default), and 5,000 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.

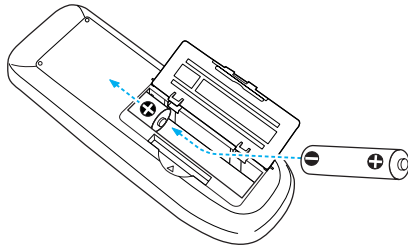
## Replacing the Remote Control Batteries

Replace the batteries in the remote as described below:

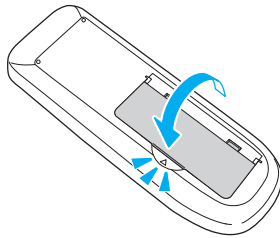
1. Turn the remote control over.
2. Press in on the catch on the battery cover as you lift the cover off.



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



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 a carrying case (included with the EX3200/EX5200/EX7200 only).

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*

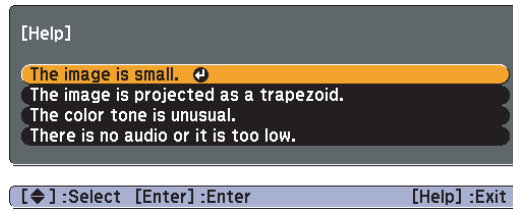
This chapter helps you solve problems with your projector and tells you how to contact technical support for problems you can't solve yourself. The following information is included:

- 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.

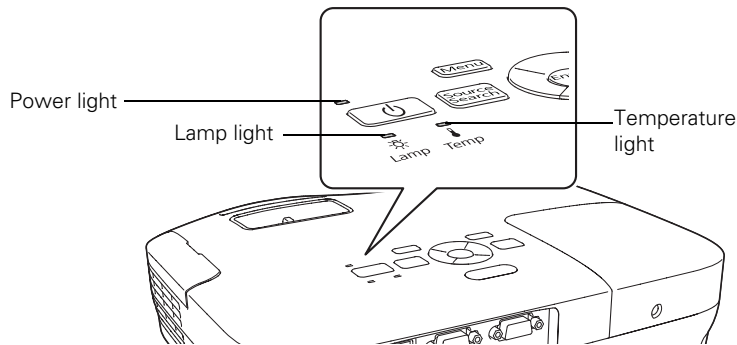
If none of the suggestions solve your problem, see additional solutions to problems in the following sections.

## 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

 <b>Power light status</b>	<b>Description</b>
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	<p>It's time to replace the lamp. See page 86 for instructions. If you continue to use the lamp after the replacement warning, there is an increased possibility that the lamp may break.</p>
 Flashing red  Off  Flashing orange	<p>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.</p>
 Red  Off  Red	<p>The projector is overheating, which turns the lamp off automatically. Wait until the projector switches to standby mode (about 5 minutes). Make sure there is plenty of space around and under the projector for ventilation.</p> <p>The air filter may be clogged. Clean or replace the air filter as described on pages 84 to 86.</p> <p>If you're using the projector above an altitude of 4,921 feet (1,500 meters), turn on <b>High Altitude Mode</b> in the Operation menu (see page 76).</p> <p>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 104.</p> <p><b>Warning:</b> Except as specifically explained in this <i>User's Guide</i>, do not attempt to service this product yourself.</p>
 Flashing red  Red  Flashing red	<p>The projector has an internal problem. Stop using the projector, disconnect the power cord, and contact Epson for help, as described on page 104.</p>
 Red  Off  Flashing red	<p>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 104.</p>
 Red  Flashing red  Off	<p>The lamp may be burnt out. First make sure the lamp cover is securely installed. If that's not the problem, the air filter may be clogged. Clean or replace the air filter as described on pages 84 to 86.</p> <p>If this does not resolve the problem, let the lamp cool and then remove it. If the lamp is cracked, replace it as described on page 86. If the lamp is not cracked, reinstall it. If reinstalling doesn't work, replace the lamp.</p> <p>If you're using the projector above an altitude of 4,921 feet (1,500 meters), turn on <b>High Altitude Mode</b> in the Operation menu (see page 76).</p> <p>If none of these suggestions resolves the problem, contact Epson as described on page 104.</p>
 Flashing red  Flashing red  Flashing red	<p>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 104.</p>



## *Solving Projector Operation Problems*

### **The power doesn't turn on.**






- If the projector doesn't turn on when you press the  power button, make sure the power cord is connected to the projector and plugged into a working electrical outlet.
- The power cord may be defective. Disconnect the cord from the outlet and contact Epson as described on page 104.
- 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 81).

## *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 71).
- You can also try resetting all of the menu settings (see page 69).

**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 31.
- 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.

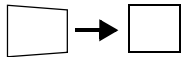
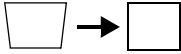
### **The message Not Supported is displayed.**

- Make sure the correct input signal is selected in the Signal menu (see page 71).
- Make sure your computer's resolution and frequency or refresh rate is supported by the projector (see page 111). 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 72 for more information.
- Press the **Aspect** button on the remote control or select the correct **Aspect** setting from the Signal menu. See page 55 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 111.
- 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 71), 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 51.

### **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 72).
- 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 72).
- If you've used the Keystone adjustment, you may need to decrease the **Sharpness** setting in the Image menu (see page 70).
- If you're projecting from a computer, make sure its signal is compatible with the projector. See page 111.
- 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 84.
- Adjust the focus using the focus ring (see page 53).
- 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 24).
- Make sure the lens is not fogged by condensation. You may need to wait before using the projector after moving it from a cold environment to a warm environment.
- 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 72.
  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.

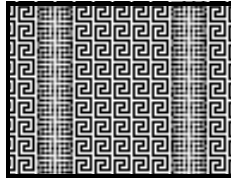
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### **note**

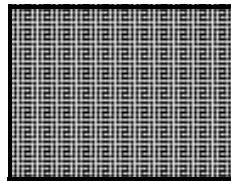
*You must be projecting an image for the **Auto** button to have any effect. It works only with computer images projected through the **Computer (Component Video) port**.*

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2. Adjust the **Tracking** to eliminate vertical bands.



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



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**note**

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

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**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 54 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 73).
- Check your computer display settings to correct the color balance.
- The projector's lamp may need to be replaced. See page 86 for instructions.
- Make sure the correct input signal is selected in the **Signal** menu (see page 72).
- 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 60), 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 41.

## *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 90.
- 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 [VS200](#), [EX3200](#), [EX5200](#), or [EX7200](#) (U.S.) or [VS200](#), [EX3200](#), [EX5200](#), or [EX7200](#) (Canada). You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

### **Speak to a Support Representative**

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

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

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

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



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

- Product name (VS200, EX3200, EX5200, or EX7200)
- 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, call 800-GO-EPSON (800-463-7766). Or you can purchase online at [www.epsonstore.com](http://www.epsonstore.com) (U.S. sales) or [www.epson.ca](http://www.epson.ca) (Canadian sales).



# A *Technical Specifications*

## **General**

Type of display	Poly-silicon TFT active matrix
Resolution (native format)	<b>VS200/EX3200</b> 800 × 600 pixels (SVGA) <b>EX5200</b> 1024 × 768 pixels (XGA) <b>EX7200</b> 1280 × 800 pixels (WXGA)
Color reproduction	16.8 million colors
Light output (brightness)	<b>VS200</b> Normal mode: White light output 2300 lumens (ISO 21118 standard) Color light output 2300 lumens ECO mode: White light output 2040 lumens (ISO 21118 standard) <b>EX3200/EX5200/EX7200</b> Normal mode: White light output 2600 lumens (ISO 21118 standard) Color light output 2600 lumens ECO mode: White light output 2040 lumens (ISO 21118 standard)

Contrast ratio	2000:1 (Dynamic color mode, Normal Power Consumption, with <b>Auto Iris</b> setting turned on in the Image menu; see page 69)
Image size	<b>VS200/EX3200</b> (4:3 image) 30 to 350 inches (76.2 to 889 cm) <b>EX5200</b> (4:3 image) 30 to 300 inches (76.2 to 762 cm) <b>EX7200</b> (16:10 image) 33 to 320 inches (83.8 to 812.8 cm)
Projection distance	<b>VS200/EX3200</b> (4:3 image) 34 to 557 inches (87 to 1414 cm) <b>EX5200</b> (4:3 image) 35 to 431 inches (89 to 1095 cm) <b>EX7200</b> (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	<b>VS200/EX3200/EX5200</b> 4:3 (horizontal:vertical) <b>EX7200</b> 16:10 (horizontal:vertical)
Zoom ratio	<b>VS200/EX3200</b> Digital 1:1.35 <b>EX5200/EX7200</b> Manual 1:1.2
Noise level	<b>VS200</b> 29 dB in ECO mode 34 dB in Normal mode <b>EX3200/EX5200/EX7200</b> 29 dB in ECO mode 37 dB in Normal mode

Keystone correction      Manual:  $\pm 30^\circ$  vertical  
Tilt angle: 0 to  $12^\circ$  vertical  
**EX5200/EX7200 only:**  
Auto Keystone:  $\pm 30^\circ$  vertical

## **Projection Lamp**

Type      UHE (Ultra High Efficiency)  
Power consumption      **VS200**  
175 W  
**EX3200/EX5200/EX7200**  
200 W  
Lamp life      Approx. 4,000 hours (Normal mode)  
Approx. 5,000 hours (ECO mode)  
Part number      V13H010L58

## **Remote Control**

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

## **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)

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### **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.*

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## ***Electrical***

Rated frequency	50/60 Hz AC
Power supply	100 to 240 VAC $\pm$ 10%, 2.8A to 1.2 A
Power consumption	<b>VS200</b> 224 W in ECO mode 244 W in Normal mode <b>EX3200/EX5200/EX7200</b> 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 <b>High Altitude</b> mode in the Extended menu (see page 75)

## ***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.

### VS200/EX3200

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

Mode	Refresh rate (Hz)	Resolution
VGA EGA	85	640 × 350
VGA—60	60	640 × 480
VESA—72	72	640 × 480
VESA—75	75	640 × 480
VESA—85	85	640 × 480
SVGA—56	56	800 × 600*
SVGA—60	60	800 × 600*
SVGA—72	72	800 × 600*
SVGA—75	75	800 × 600*
SVGA—85	85	800 × 600*
XGA—60	60	1024 × 768
XGA—70	70	1024 × 768
XGA—75	75	1024 × 768
XGA—85	85	1024 × 768
SXGA1—70	70	1152 × 864
SXGA1—75	75	1152 × 864
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 (continued)*

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

\* Native resolution

## **EX5200**

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

<b>Mode</b>	<b>Refresh rate (Hz)</b>	<b>Resolution</b>
VGA EGA	85	640 × 350
VGA—60	60	640 × 480
VESA—72	72	640 × 480
VESA—75	75	640 × 480
VESA—85	85	640 × 480
SVGA—56	56	800 × 600
SVGA—60	60	800 × 600
SVGA—72	72	800 × 600
SVGA—75	75	800 × 600
SVGA—85	85	800 × 600



*Computer, component video, composite video, and S-Video (continued)*

<b>Mode</b>	<b>Refresh rate (Hz)</b>	<b>Resolution</b>
XGA—60	60	1024 × 768*
XGA—70	70	1024 × 768*
XGA—75	75	1024 × 768*
XGA—85	85	1024 × 768*
SXGA1—70	70	1152 × 864
SXGA1—75	75	1152 × 864
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
iMAC VGA	117	640 × 480
iMAC SVGA	95	800 × 600
iMAC XGA	75	1024 × 768*
MAC13	67	640 × 480
MAC16	75	832 × 624
MAC19	75	1024 × 768*
MAC19-60	60	1024 × 768*
MAC21	75	1152 × 870
NTSC	60	720 × 480
NTSC 4:43	60	720 × 480
PAL	50	720 × 576
N-PAL	50	720 × 576
M-PAL	60	720 × 576
PAL—60	60	720 × 576
SECAM	50	720 × 576
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
SDTV (480p)	60	720 × 480
SDTV (576p)	50	720 × 576
HDTV (720p)	60/50	1280 × 720
HDTV (1080i)	60/50	1920 × 1080

\* Native resolution

### *HDMI signals*

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

\* Native resolution

### **EX7200**

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

<b>Mode</b>	<b>Refresh rate (Hz)</b>	<b>Resolution</b>
VGA EGA	85	640 × 350
VGA—60	60	640 × 480
VESA—72	72	640 × 480
VESA—75	75	640 × 480
VESA—85	85	640 × 480
SVGA—56	56	800 × 600
SVGA—60	60	800 × 600
SVGA—72	72	800 × 600
SVGA—75	75	800 × 600
SVGA—85	85	800 × 600
XGA—60	60	1024 × 768
XGA—70	70	1024 × 768
XGA—75	75	1024 × 768
XGA—85	85	1024 × 768

*Computer, component video, composite video, and S-Video (continued)*

<b>Mode</b>	<b>Refresh rate (Hz)</b>	<b>Resolution</b>
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*
WXGA—75	75	1280 × 800*
WXGA—85	85	1280 × 800*
SXGA2—60	60	1280 × 960
SXGA2—75	75	1280 × 960
SXGA2—85	85	1280 × 960
SXGA3—60	60	1280 × 1024
SXGA3—75	75	1280 × 1024
SXGA3—85	85	1280 × 1024
WXGA1—60	60	1280 × 768
WXGA2—60	60	1360 × 768
WXGA+60	60	1440 × 900
WXGA+75	75	1440 × 900
WXGA+85	85	1440 × 900
SXGA+60	60	1400 × 1050
SXGA+75	75	1400 × 1050
SXGA+85	85	1400 × 1050
UXGA—60	60	1600 × 1200
WSXGA+—60**	60	1680 × 1050
iMAC VGA	117	640 × 480
iMAC SVGA	95	800 × 600
iMAC XGA	75	1024 × 768
MAC13	67	640 × 480
MAC16	75	832 × 624
MAC19	75	1024 × 768
MAC19-60	60	1024 × 768
MAC21	75	1152 × 870
NTSC	60	720 × 480
NTSC 4:43	60	720 × 480
PAL	50	720 × 576
N-PAL	50	720 × 576
M-PAL	60	720 × 576
PAL—60	60	720 × 576
SECAM	50	720 × 576

*Computer, component video, composite video, and S-Video (continued)*

<b>Mode</b>	<b>Refresh rate (Hz)</b>	<b>Resolution</b>
SDTV (480i)	60	720 × 480
SDTV (576i)	50	720 × 576
SDTV (480p)	60	720 × 480
SDTV (576p)	50	720 × 576
HDTV (720p)	60/50	1280 × 720
HDTV (1080i)	60/50	1920 × 1080

\* Native Resolution

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

*HDMI signals*

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

\* Native Resolution

# 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 109).
- 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.
- (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.
- 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 matériel brouilleur du Canada.*



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