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      Easy Interactive Tools for Saving, Printing, and More ................................. 120
Welcome to the BrightLink 425Wi/430i/435Wi User's Guide.
Introduction to Your Projector

Refer to these sections to learn more about your projector and this manual.

Projector Features
Notations Used in the Documentation
Where to Go for Additional Information
Projector Part Locations

Projector Features

BrightLink 425Wi/430i/435Wi projectors include these special features:

Bright, high-resolution projection system

- BrightLink 425Wi: Up to 2500 lumens of brightness (white light output and color light output)
  BrightLink 430i/435Wi: Up to 3000 lumens of brightness (white light output and color light output)
- BrightLink 430i: Native resolution of 1024 × 768 pixels (XGA)
  BrightLink 425Wi/435Wi: Native resolution of 1280 × 800 pixels (WXGA)

Interactive solution

- Turn most surfaces into an interactive learning center; no need to purchase a whiteboard
- Easy installation and setup
- Includes everything you need for a total interactive solution

Flexible connectivity

- Plug-and-play 3-in-1 USB projection, audio, and mouse control for instant setup
- HDMI port for computer or video device connection
- Wired network support for projection
- Projector monitoring and control via remote network computer
- Optional wireless network support, including video and audio transfer
- PC Free photo slide shows via connected USB memory devices or EPSON document camera
- Dual VGA ports for connections by multiple presenters
- Port for connecting an external monitor or second projector
- Port for connecting a microphone
Innovative display and operation features

- Low total cost of ownership with long-life projector lamp and high-efficiency air filter
- High digital zoom ratio for larger images in shorter projection distances
- 3000:1 contrast ratio and Auto Iris control for sharp, detailed images
- Built-in closed captioning decoder
- Powerful 16 W speaker system with audio out port for connecting external speakers
- Epson's Instant Off and Direct Power On features for quick setup and shut down
- Support for Crestron RoomView network monitoring systems
- Network message broadcast system to project timely messages to all networked projectors

Product Box Contents
Additional Components
Optional Equipment and Replacement Parts
Warranty and Registration Information

Parent topic: Introduction to Your Projector
Related concepts
Projector Part Locations

Product Box Contents

Save all the packaging in case you need to ship the projector. Always use the original packaging (or equivalent) when shipping.

Make sure your projector box included all of these parts:
Note: If you purchased the RM Easiteach software option, your box will include 2 additional CDs. The included Short Throw Wall Mount (ELPMB27) is boxed separately. (Instructions for mounting the projector to a wall and attaching the interactive module are included in the wall mount box.)

1  Projector
2  Lens cover
Remote control
2 AA alkaline batteries (for remote control)
2 interactive pens
4 AAA alkaline batteries (2 batteries for each interactive pen)
Interactive module
Pen tray
USB cable
Power cord
VGA computer cable
Battery charger with 4 AAA rechargeable batteries (for interactive pens)
M4 × 10 mm hexagon socket head cap bolt with washer and spring washer
M3 × 8 mm cross-head screw
M4 hexagonal wrench
Projector software CD (for network usage)
Projector software for Easy Interactive Function CD-ROM
TeamBoard Draw CD
Password Protected sticker

Parent topic: Projector Features

Additional Components

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

- To receive an S-Video signal, you need an S-Video cable compatible with your device. See your local computer or electronics dealer for purchase information.
- To receive a component video signal, you need a D-sub, 15-pin, component-to-VGA video cable. You can purchase one from Epson or an authorized EPSON reseller.
- To receive an HDMI signal, you need a compatible HDMI cable. See your local computer or electronics dealer for purchase information.
To connect a Mac that includes only a Mini DisplayPort or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector's HDMI port. Contact Apple for compatible adapter options. Older Mac computers (2009 and earlier) may not support audio through the HDMI port.

To project with audio from certain ports, you may need a commercially available audio cable compatible with your device. See your local computer or electronics dealer for purchase information.

Note: To connect a Mac that includes only a Mini DisplayPort 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.

### Optional Equipment and Replacement Parts

You can purchase screens, other optional accessories, and replacement parts 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).

Epson offers the following optional accessories and replacement parts for your projector:

<table>
<thead>
<tr>
<th>Option or part</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genuine EPSON replacement lamp (ELPLP60) BrightLink 425Wi</td>
<td>V13H010L60</td>
</tr>
<tr>
<td>Genuine EPSON replacement lamp (ELPLP61) BrightLink 430i/435Wi</td>
<td>V13H010L61</td>
</tr>
<tr>
<td>Air filter replacement set (2 filters) (ELPAF36)</td>
<td>V13H134A36</td>
</tr>
<tr>
<td>Wireless LAN module (ELPAP07)</td>
<td>V12H418P12</td>
</tr>
<tr>
<td>Quick Wireless Connection USB key (ELPAP08)</td>
<td>V12H005M08</td>
</tr>
<tr>
<td>Additional interactive pen (ELPPN02)</td>
<td>V12H442001</td>
</tr>
<tr>
<td>EPSON DC-11 document camera (ELPDC11)</td>
<td>V12H377020</td>
</tr>
<tr>
<td>EPSON DC-06 document camera (ELPDC06)</td>
<td>V12H321005</td>
</tr>
<tr>
<td>PowerLite Pilot (ELPCB01)</td>
<td>V12H443020</td>
</tr>
<tr>
<td>Wireless pendant microphone (ELPMC02)</td>
<td>V12H4430M2</td>
</tr>
<tr>
<td>Option or part</td>
<td>Part number</td>
</tr>
<tr>
<td>---------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Active speakers (ELPSP02)</td>
<td>V12H467020</td>
</tr>
<tr>
<td>On wall cable management kit</td>
<td>ELPCK01</td>
</tr>
<tr>
<td>Kensington security lock</td>
<td>ELPSL01</td>
</tr>
<tr>
<td>90-inch whiteboard</td>
<td>V12H468002</td>
</tr>
<tr>
<td>96-inch whiteboard</td>
<td>V12H468001</td>
</tr>
<tr>
<td>6 ft (1.8 m) VGA computer cable (ELPKC02)</td>
<td>F3H982-06</td>
</tr>
<tr>
<td>10 ft (3.0 m) VGA computer cable (ELPKC09)</td>
<td>F3H982-10</td>
</tr>
<tr>
<td>25 ft (20 m) VGA computer cable (ELPKC10)</td>
<td>F3H982-25</td>
</tr>
<tr>
<td>Component-to-VGA video cable</td>
<td>ELPKC19</td>
</tr>
<tr>
<td>1-Year Extended Depot Repair Service Plan</td>
<td>EPPFTPA1</td>
</tr>
<tr>
<td>1-Year Extended Exchange Warranty</td>
<td>EPPEXPA1</td>
</tr>
<tr>
<td>2-Year Extended Depot Repair Service Plan</td>
<td>EPPFTPA2</td>
</tr>
</tbody>
</table>

**Parent topic:** Projector Features

**Warranty and Registration Information**

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

In addition, Epson offers free Extra Care 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, Canada, or Puerto Rico. See the Extra Care Road Service brochure for details.

Register your product online using the projector CD or at this site: [www.epson.com/webreg](http://www.epson.com/webreg)

Registering also lets you receive special updates on new accessories, products, and services.

**Parent topic:** Projector Features

**Notations Used in the Documentation**

Follow the guidelines in these notations as you read your documentation:

- **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 information.

Parent topic: Introduction to Your Projector

Where to Go for Additional Information

Need quick help on using your projector during a presentation? Here's where to look for help:

• Built-in help system
  Press the Help button on the remote control or projector to get quick solutions to common problems.

• www.epson.com/support (U.S) or www.epson.ca/support (Canada)
  View FAQs (frequently asked questions) and e-mail your questions to Epson technical support 24 hours a day.

• For detailed instructions on using your projector in a network environment, see the EasyMP Network Projection Operation Guide installed with this manual from your projector CD.

• If you still need help after checking this manual and the sources listed above, you can use the EPSON PrivateLine Support service to get help fast. For details, see "Where to Get Help".

Parent topic: Introduction to Your Projector

Related references
Where to Get Help

Projector Part Locations

Check the projector part illustrations to learn about the parts on your projector.

Projector Parts - Front/Top
Projector Parts - Rear
Projector Parts - Base
Projector Parts - Control Panel
Projector Parts - Interactive Module
Projector Parts - Interactive Pen
Projector Parts - Remote Control

Parent topic: Introduction to Your Projector
1. Remote control receiver
2. Foot release lever
3. Front adjustable foot
4. Air intake vent (air filter)
5. Focus ring
6  Control panel
7  Lamp cover
8  Exhaust vent
9  Projector status lights
10 Lens cover

Parent topic: Projector Part Locations

Projector Parts - Rear

1  HDMI port
2  Video port
3  RS-232C port
4  Monitor Out port
5  Audio1 port
6  Audio Out port
7  Mic (microphone) port
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Power inlet</td>
</tr>
<tr>
<td>9</td>
<td>Kensington security slot</td>
</tr>
<tr>
<td>10</td>
<td>Optional wireless LAN unit slot</td>
</tr>
<tr>
<td>11</td>
<td>Speaker</td>
</tr>
<tr>
<td>12</td>
<td>Network (LAN) port</td>
</tr>
<tr>
<td>13</td>
<td>USB TypeA port</td>
</tr>
<tr>
<td>14</td>
<td>USB TypeB port</td>
</tr>
<tr>
<td>15</td>
<td>Computer2 port</td>
</tr>
<tr>
<td>16</td>
<td>Audio2 port</td>
</tr>
<tr>
<td>17</td>
<td>Computer1 port</td>
</tr>
<tr>
<td>18</td>
<td>L-Audio-R audio ports</td>
</tr>
<tr>
<td>19</td>
<td>S-Video port</td>
</tr>
</tbody>
</table>

**Parent topic:** [Projector Part Locations](#)
Projector Parts - Base

1  Ceiling mount holes (3)
2  Wall mount holes (5)
3  Rear feet
4  Security cable attachment point
5  Front adjustable foot

Parent topic: Projector Part Locations
Projector Parts - Control Panel

1. Power button
2. **Source Search** button (searches for connected video sources)
3. **Enter** button (selects options)
4. Vertical keystone adjustment buttons (adjust screen shape) and arrow buttons
5. **Help** button (accesses projector help information)
6. **Esc** button (cancels/exits functions)
7. **Wide/Tele** buttons (adjust projected image size), horizontal keystone adjustment buttons (adjust screen shape), and arrow buttons
8. **Menu** button (accesses projector menu system)

**Parent topic:** Projector Part Locations

**Related references**

Projector Light Status
Projector Parts - Interactive Module

1 Interactive receiver window
2 USB port cover

Parent topic: Projector Part Locations

Projector Parts - Interactive Pen

1 Battery indicator light
2 Button
3 Attachment for optional strap or cord

Parent topic: Projector Part Locations
Projector Parts - Remote Control

1. Power button
2 Computer button (cycles through connected computer sources)
3 Video button (cycles through connected video sources)
4 Numeric buttons (enter numbers)
5 Auto button (automatically adjusts position, tracking, and sync settings)
6 Aspect button (selects the image aspect ratio)
7 Num button (when held down, switches numeric buttons to number function)
8 Menu button (accesses projector menu system)
9 Arrow buttons (move through on-screen options and control wireless mouse functions)
10 Enter button (selects options and controls wireless mouse functions)
11 User button (customizable for different functions)
12 Page up/down buttons (control presentation slides)
13 E-Zoom +/– buttons (zoom into and out of the image)
14 A/V Mute button (turns off picture and sound)
15 Help button (accesses projector help information)
16 Freeze button (stops video action)
17 Volume up/down buttons (adjust speaker volume)
18 Pointer button (activates on-screen pointer)
19 Esc button (cancels/exits functions and controls wireless mouse functions)
20 Color Mode button (selects display modes)
21 LAN button
22 USB button (cycles through connected USB sources)
23 Source Search button (searches for connected sources)

Parent topic: Projector Part Locations
Setting Up the Projector

Follow the instructions in these sections to set up your projector for use.

Projection Distance
Projector Connections
Installing Batteries in the Remote Control
Installing Batteries in the Interactive Pens

Projection Distance

The distance at which you place the projector from the screen determines the approximate size of the image. The image size increases the farther the projector is from the screen, but can vary depending on the zoom factor, aspect ratio, and other settings.

Refer to the tables in the Installation Guide to determine approximately how far to place the projector from the screen based on the size of the projected image. (Conversion figures may have been rounded up or down.) You can also use the projector Throw Distance Calculator at www.epson.com/support (U.S.) or www.epson.ca/support (Canada).

Parent topic: Setting Up the Projector

Projector Connections

You can connect the projector to a variety of computer, video, and audio sources to display presentations, movies, or other images, with or without sound.

- Connect any type of computer that has a USB port, standard video output (monitor) port, or HDMI port.
- For video projection, connect devices such as DVD players, gaming consoles, digital cameras, and camera phones with compatible video output ports.
- If your presentation or video includes sound, you can connect audio input cables, if necessary.
- For slide shows without a computer, you can connect USB devices (such as a flash drive or camera) or an optional EPSON document camera.

Caution: If you will use the projector at altitudes above 4921 feet (1500 m), turn on High Altitude Mode to ensure the projector’s internal temperature is regulated properly.

Connecting to the Interactive Module
Connecting to Computer Sources
Connecting to Video Sources
Connecting to an External Computer Monitor
Connecting to External Speakers
Connecting a Microphone
Connecting to External USB Devices
Connecting to a Document Camera

Parent topic: Setting Up the Projector

Related references
Projector Setup Settings - Extended Menu
Product Box Contents

Connecting to the Interactive Module

The interactive module is a receiver that works with your projector to turn virtually any surface into an interactive whiteboard. Connect the USB cable from the interactive module to any available USB port on your computer.

Parent topic: Projector Connections

Connecting to Computer Sources

Follow the instructions in these sections to connect a computer to the projector.
Connecting to a Computer for USB Video and Audio

If your computer meets the system requirements, you can send video and audio output to the projector through the computer’s USB port (preferably USB 2.0). Connect the projector to your computer using a USB cable.

**Note:** You may experience slow interactive pen function when connecting the projector to your computer using a USB cable. For the best interactive performance, VGA or HDMI cable connections are recommended.

1. Turn on your computer.
2. Connect the cable to your projector’s USB **TypeB** port.
3. Connect the other end to any available USB port on your computer.
4. Do one of the following:
   - **Windows 7/Windows Vista:** Select Run EMP_UDSE.exe in the dialog box that appears to install the EPSON USB Display software.
   - **Windows XP:** Wait as messages appear on your computer screen and the projector installs the EPSON USB Display software on your computer.
   - **Windows 2000:** Select Computer, EPSON_PJ_UD, and EMP_UDSE.EXE to install the EPSON USB Display software.
Mac OS X: The USB Display setup folder appears on your screen. Select USB Display Installer and follow the on-screen instructions to install the EPSON USB Display software.

Follow any on-screen instructions. You need to install this software only the first time you connect the projector to the computer.

The projector displays the image from your computer's desktop and outputs sound, if your presentation contains audio.

Parent topic: Connecting to Computer Sources
Related references
Projector Setup Settings - Extended Menu

Connecting to a Computer for VGA Video

You can connect the projector to your computer using a VGA computer cable.

Note: To connect a Mac that includes only a Mini DisplayPort 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.

1. If necessary, disconnect your computer's monitor cable.
2. Connect the VGA computer cable to your computer's monitor port.
3. Connect the other end to a Computer port on the projector.
4. Tighten the screws on the VGA connectors.

Parent topic: Connecting to Computer Sources
Connecting to a Computer for HDMI Video and Audio

If your computer has an HDMI port, you can connect it to the projector using an optional HDMI cable.
**Note:** To connect a Mac that includes only a Mini DisplayPort or Mini-DVI port for video output, you need to obtain an adapter that allows you to connect to the projector’s **HDMI** port. Contact Apple for compatible adapter options. Older Mac computers (2009 and earlier) may not support audio through the **HDMI** port.

1. Connect the HDMI cable to your computer’s HDMI output port.
2. Connect the other end to the projector’s **HDMI** port.

**Parent topic:** Connecting to Computer Sources

### Connecting to a Computer for USB Mouse Control

If you connected your computer to a **Computer**, **USB TypeB**, or **HDMI** port on the projector, you can set up the remote control to act as a wireless mouse. This lets you control computer presentations at a distance from your computer. To do this, connect the projector to your computer using a USB cable, if it is not connected already.

1. Connect the USB cable to your projector’s **USB TypeB** port.
2. Connect the other end to any available USB port on your computer.
3. If necessary, configure your computer to work with an external USB mouse. See your computer documentation for details.

**Parent topic:** Connecting to Computer Sources
Connecting to a Computer for Sound

If your computer presentation includes sound and you did not connect it to the projector's USB TypeB or HDMI port, you can still play sound through the projector's speaker system. Just connect an optional 3.5 mm stereo mini-jack audio cable as described here.

1. Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.
2. Connect the other end to the Audio port that corresponds to the Computer port you are using.

Parent topic: Connecting to Computer Sources

Connecting to Video Sources

Follow the instructions in these sections to connect video devices to the projector.

Connecting to an HDMI Video Source
Connecting to a Component-to-VGA Video Source
Connecting to a Composite Video Source
Connecting to an S-Video Video Source
Connecting to a Video Source for Sound

Parent topic: Projector Connections

Connecting to an HDMI Video Source

If your video source has an HDMI port, you can connect it to the projector using an optional HDMI cable. The HDMI connection provides the best image quality.

1. Connect the HDMI cable to your video source’s HDMI output port.
2. Connect the other end to the projector's **HDMI** port.

Parent topic: Connecting to Video Sources

Connecting to a Component-to-VGA Video Source

If your video source has component video ports, you can connect it to the projector using a component-to-VGA video cable. Depending on your component ports, you may need to use an adapter cable along with a component video cable.

1. Connect the component connectors to your video source’s color-coded component video output ports, usually labeled Y, Pb, Pr or Y, Cb, Cr. If you are using an adapter, connect these connectors to your component video cable.

2. Connect the VGA connector to the projector’s **Computer** port.

If your image colors appear incorrect, you may need to change the **Input Signal** setting in the projector’s Signal menu.

Parent topic: Connecting to Video Sources
Related references
Input Signal Settings - Signal Menu

Connecting to a Composite Video Source
If your video source has a composite video port, you can connect it to the projector using an optional RCA-style video or A/V cable.
1. Connect the cable with the yellow connector to your video source’s yellow video output port.
2. Connect the other end to the projector’s Video port.

Parent topic: Connecting to Video Sources

Connecting to an S-Video Video Source
If your video source has an S-Video port, you can connect it to the projector using an optional S-Video cable.
1. Connect the S-Video cable to your video source’s S-Video output port.
2. Connect the other end to the projector’s S-Video port.

Parent topic: Connecting to Video Sources
Connecting to a Video Source for Sound

You can play sound through the projector's speaker system if your video source has audio output ports.

If you are projecting video using a **Computer** port, connect the projector to the video source using an optional stereo mini-jack audio cable.

If you are projecting video using the **Video** or **S-Video** port, connect the projector to the video source using an RCA audio cable.

1. Connect the audio cable to your video source’s audio-out ports.
2. Do one of the following:
   - Connect the other end of the cable to the projector’s **Audio** port that corresponds to the **Computer** port you are using for video.
   - Connect the red and white plugs on the other end of the cable to the projector’s **L-Audio-R** ports.

Parent topic: Connecting to Video Sources

Connecting to an External Computer Monitor

If you connected the projector to a computer using a **Computer** port, you can also connect an external monitor to the projector. This lets you see your presentation on the external monitor even when the projected image is not visible.

**Note:** Monitors that use a refresh rate less than 60 MHz may not be able to display images correctly.
1. Make sure your computer is connected to the projector’s **Computer** port. If there are two computer ports, make sure you use the **Computer1** port.

2. Connect the external monitor’s cable to your projector’s **Monitor Out** port.

---

**Parent topic:** [Projector Connections](#)

---

**Connecting to External Speakers**

To enhance the sound from your presentation, you can connect the projector to external speakers with built-in amplifiers. You can control the volume using the projector’s remote control.

**Note:** The projector’s built-in speaker system is disabled when you connect external speakers.

1. Make sure your computer or video source is connected to the projector with both audio and video cables as necessary.

2. Locate the appropriate cable to connect your external speakers, such as a stereo mini-jack-to-pin-jack cable, or another type of cable or adapter.

3. Connect one end of the cable to your external speakers as necessary.

4. Connect the stereo mini-jack end of the cable to your projector’s **Audio Out** port.

---

**Parent topic:** [Projector Connections](#)
Connecting a Microphone

You can connect a microphone to the projector's Mic port to provide audio support during presentations.

**Note:** The projector supports dynamic microphones only. (Condenser microphones are not supported.)

If you want to output audio from the microphone when the projector is turned off, you need to adjust the Standby Mode and Standby Microphone settings in the Extended menu.

1. Connect the microphone cable to the projector's Mic port.

2. Turn on the microphone, if necessary.

Parent topic: Projector Connections

Related references

Projector Setup Settings - Extended Menu

Connecting to External USB Devices

Follow the instructions in these sections to connect external USB devices to the projector.

- USB Device Projection
- Connecting a USB Device or Camera to the Projector
- Selecting the Connected USB Source
- Disconnecting a USB Device or Camera From the Projector

Parent topic: Projector Connections

USB Device Projection

You can project images and other content without using a computer or video device by connecting any of these devices to your projector:

- USB flash drive
- Digital camera or camera phone
- USB hard drive
- Multimedia storage viewer
- USB memory card reader

**Note:** Digital cameras or camera phones must be USB-mounted devices, not TWAIN-compliant devices.

You can project slide shows from image files on a connected USB device or memory card reader.

**Parent topic:** Connecting to External USB Devices

**Related topics**
- Projecting a Slide Show

**Connecting a USB Device or Camera to the Projector**

You can connect your USB device or camera to the projector's USB TypeA port and use it to project images and other content.

1. If your USB device came with a power adapter, plug the device into an electrical outlet.
2. Connect the USB cable (or USB flash drive or USB memory card reader) into the projector's USB TypeA port shown here.
Note: Do not connect a USB hub or a USB cable longer than 10 feet (3 m), or the device may not operate correctly.

3. Connect the other end of the cable (if applicable) to your device.

Parent topic: Connecting to External USB Devices

Related topics

Selecting the Connected USB Source

You can switch the projector's display to the source you connected to a USB Type A port.

1. Make sure the connected USB source is turned on, if necessary.
2. Press the USB button on the remote control.
3. Press the button again to cycle through other USB sources, if available.

Parent topic: Connecting to External USB Devices

Disconnecting a USB Device or Camera From the Projector

When you finish presenting with a connected USB device or camera, you must prepare to disconnect the device from the projector.

1. If the device has a power button, turn off and unplug the device.
2. Disconnect the USB device or camera from the projector.

Parent topic: Connecting to External USB Devices
Connecting to a Document Camera

You can connect the EPSON DC-06 document camera to your projector's USB TypeA port to project images viewed by the camera.

**Note:** For additional features supported by software, connect the EPSON DC-06 document camera to your computer instead of the projector. You may be able to connect different EPSON document camera models to your projector's Computer port. See the document camera's manual for instructions.

1. Locate the USB cable that came with the document camera.
2. Connect the USB cable to the projector's USB TypeA port.
3. Connect the other end of the cable to the document camera's USB TypeB port.

Parent topic: Projector Connections

Related references

Optional Equipment and Replacement Parts

Installing Batteries in the Remote Control

The remote control uses the two AA batteries that came with the projector.

**Caution:** Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.
1. Open the battery cover as shown.

2. Insert the batteries with the + and – ends facing as shown.
3. Close the battery cover and press it down until it clicks into place.

**Warning:** Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

**Parent topic:** Setting Up the Projector

### Installing Batteries in the Interactive Pens

Each pen uses two AAA batteries.

**Caution:** Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.

1. Press in the tab on the battery cover and lift the cover off.
2. Insert the batteries with the + and – ends facing as shown.

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

**Warning:** Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

**Parent topic:** Setting Up the Projector
Using the Projector on a Network

Follow the instructions in these sections to set up your projector for use on a network.

Note: To use the interactive pens with your projected computer image, you need to connect the USB cable from the interactive module to your computer, even if you are projecting through the network.

Wired Network Projection
Wireless Network Projection
Setting Up Projector Network E-Mail Alerts
Setting Up Monitoring Using SNMP
Controlling a Networked Projector Using a Web Browser
Crestron RoomView Support

Wired Network Projection

You can send images to your projector through a wired network. To do this, you connect the projector to your network, and then set up your projector and computer for network projection.

After connecting and setting up the projector as described here, install the network software from the Epson Projector Software CD-ROM on your computer. Use the following software and documentation to set up, control, and monitor network projection:

- **EasyMP Network Projection** software sets up your computer for network projection. See the EasyMP Network Projection Operation Guide installed from your projector CD for instructions.

- **EasyMP Monitor** software (Windows only) lets you monitor and control your projector through the network. You can download the latest software and documentation from the Epson web site. Go to www.epson.com/support (U.S.) or www.epson.ca/support (Canada) and select your projector.

Note: If your projector is connected via a LAN cable to a network that includes a wireless access point, you can connect to the projector wirelessly using the EasyMP Network Projection software.

Connecting to a Wired Network
Selecting Wired Network Settings

Parent topic: Using the Projector on a Network
Connecting to a Wired Network

To connect the projector to a wired local area network (LAN), use a 100Base-TX or 10Base-T network cable. To ensure proper data transmission, use a Category 5 shielded cable or better.

1. Connect one end of the network cable to your network hub, switch, or router.
2. Connect the other end of the cable to the projector's LAN port.

Parent topic: Wired Network Projection

Selecting Wired Network Settings

Before you can project from computers on your network, you must select the network settings for the projector using its menu system.

**Note:** Make sure you already connected the projector to your wired network using the LAN port.

1. Turn on the projector.
2. Press the Menu button.
3. Select the **Network** menu and press **Enter**.

4. Select **Network Configuration** and press **Enter**.

5. Select the **Basic** menu and press **Enter**.

6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
• **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.

• **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web.

• **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. You must enter a displayed, randomized keyword from a computer using the EasyMP Network Projection software to access the projector.

**Note:** Use the displayed keyboard to enter the name, passwords and keyword. Press the arrow buttons on the remote control to highlight characters and press **Enter** to select them.

7. Select the **Wired LAN** menu and press **Enter**.

8. If necessary, select **IP Settings** and press **Enter**.

9. Select your IP Settings as necessary:
   - If your network assigns addresses automatically, turn on the **DHCP** setting.
   - If you must set addresses manually, turn off **DHCP** and enter the projector’s **IP Address**, **Subnet Mask**, and **Gateway Address** as needed.

**Note:** To highlight the numbers you want from the displayed keyboard, press the arrow buttons on the remote control. To select a highlighted number, press **Enter**.
10. To prevent display of the IP address on the standby screen, turn off **IP Address Display**.

11. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

**Parent topic:** Wired Network Projection

## Wireless Network Projection

You can send images to your projector through a wireless network. To do this, you must install the optional EPSON 802.11b/g/n wireless LAN module, and then set up your projector and computer for wireless projection.

**Note:** To use the interactive pens with your projected computer image, you need to connect the USB cable from the interactive module to the computer, even if you are projecting wirelessly through the network.

**Note:** If your projector is connected via a LAN cable to a network that includes a wireless access point, you can connect to the projector wirelessly using the EasyMP Network Projection software.

After installing the module and setting up the projector, install the network software from the Epson Projector Software CD on your computer. Use the following software and documentation to set up, control, and monitor wireless projection:

- **EasyMP Network Projection** software sets up your computer for wireless network projection. See the EasyMP Network Projection Operation Guide installed from your projector CD for instructions.
- **EasyMP Monitor** software (Windows only) lets you monitor and control your projector through the network. You can download the latest software and documentation from the Epson web site. Go to www.epson.com/support (U.S.) or www.epson.ca/support (Canada) and select your projector.

**Note:** You can also connect your computer to the projector wirelessly using the EPSON Quick Wireless Connection USB key (Windows only). Your computer does not need to be connected to a wireless network or need additional network software to use this connection option.

**Installing the Wireless LAN Module**
**Using Quick Wireless Connection (Windows Only)**
**Selecting Wireless Network Settings Manually**
**Selecting Wireless Network Settings in Windows**
**Selecting Wireless Network Settings in Mac OS X**
**Setting Up Wireless Network Security**
Installing the Wireless LAN Module

To use the projector over a wireless network, install the optional EPSON 802.11b/g/n wireless LAN module. Do not install any other type of wireless LAN module.

**Caution:** Never remove the module while its indicator light is green or flashing, or while you are projecting wirelessly. You may damage the module or lose data.

1. Turn off the projector and unplug the power cord.
2. Remove the screw securing the wireless LAN module stopper, then remove the stopper.
3. Insert the wireless LAN module into the port.

4. Replace the wireless LAN module stopper and secure it using the screw you removed.

5. Plug in and turn on the projector.

**Parent topic:** Wireless Network Projection
Optional Equipment and Replacement Parts

Using Quick Wireless Connection (Windows Only)

You can use the optional EPSON Quick Wireless Connection USB key to quickly connect the projector to a Windows computer wirelessly. Then you can project your presentation and remove the key when you are done.

1. Turn on the projector.
2. Connect the USB key to the projector's USB TypeA port.
   You see a projected message that the network information update is complete.
3. Remove the USB key.
4. Now connect the USB key to a USB port on your computer or notebook.

   **Note:** In Windows Vista, if you see the AutoPlay window, select Run LaunchU3.exe, then select Allow on the next screen.

5. Follow the on-screen instructions to install the Quick Wireless Connection driver.

   **Note:** If you see a Windows Firewall message, click Yes to disable the firewall.

   After a few minutes, your computer image is displayed by the projector. If it does not appear, press the LAN button on your projector remote control or restart your computer.

6. Run your presentation as necessary.
7. When you finish projecting wirelessly, remove the USB key from your computer.

   **Note:** You may need to restart your computer to reactivate your wireless LAN connection.

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings Manually

Before you can project from your wireless network, you must select the network settings for the projector using its menu system.

1. Turn on the projector.
2. Press the Menu button.
3. Select the **Network** menu and press **Enter**.

![Network menu screenshot]

4. Select **Network Configuration** and press **Enter**.

5. Select the **Basic** menu and press **Enter**.

![Basic menu screenshot]

6. Select the following basic options as necessary:
   - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
• **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.

• **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the web.

• **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. You must enter a displayed, randomized keyword from a computer using the EasyMP Network Projection software to access the projector.

**Note:** Use the displayed keyboard to enter the name, passwords and keyword. Press the arrow buttons on the remote control to highlight characters and press **Enter** to select them.

7. Select the **Wireless LAN** menu and press **Enter**.

8. Select the settings on the Wireless LAN menu as necessary for your network.

9. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

After you complete the wireless settings for your projector, you need to select the wireless network on your computer.

**Wireless LAN Menu Settings**

**Parent topic:** Wireless Network Projection
Wireless LAN Menu Settings

Note: See your projector’s EasyMP Network Projection Operation Guide for details on selecting these settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless LAN Power</td>
<td>On, Off</td>
<td>Turns on wireless LAN support</td>
</tr>
<tr>
<td>Connection Mode</td>
<td>Quick, Advanced</td>
<td>Selects the type of wireless connection:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Quick</strong>: lets you quickly connect to one computer or use the optional EPSON Quick Wireless Connection USB key to connect</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Advanced</strong>: lets you connect to multiple computers via a wireless network access point</td>
</tr>
<tr>
<td>Channel</td>
<td>1ch, 6ch, 11ch</td>
<td>In <strong>Quick</strong> connection mode, selects the frequency band (channel) used by the wireless LAN</td>
</tr>
<tr>
<td>Wireless LAN Sys.</td>
<td>802.11b/g, 802.11b/g/n</td>
<td>Sets the type of wireless LAN system the projector is connecting to</td>
</tr>
<tr>
<td>SSID Auto Setting</td>
<td>On, Off</td>
<td>Turns on automatic SSID searching in <strong>Quick</strong> connection mode; set to <strong>Off</strong> when connecting to multiple projectors at the same time</td>
</tr>
<tr>
<td>SSID</td>
<td>Up 32 alphanumeric characters</td>
<td>Sets the SSID (network name) of the wireless LAN system the projector is connecting to</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IP Settings</td>
<td>DHCP (On or Off)</td>
<td>Selects DHCP if your network assigns addresses automatically, or turns off DHCP so you can enter the network's IP address, subnet mask, and gateway address as needed</td>
</tr>
<tr>
<td></td>
<td>IP Address</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subnet Mask</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gateway Address</td>
<td></td>
</tr>
<tr>
<td>SSID Display</td>
<td>On</td>
<td>Selects whether to display the SSID on the network standby screen</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>IP Address Display</td>
<td>On</td>
<td>Selects whether to display the IP address on the network standby screen</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td></td>
</tr>
</tbody>
</table>

Parent topic: Selecting Wireless Network Settings Manually

Selecting Wireless Network Settings in Windows

Before connecting to the projector, select the correct wireless network on your computer.

1. To access your wireless utility software, double-click the network icon on the Windows taskbar.
2. Do one of the following:
   • If your projector is set up on an existing network (Advanced mode), select the network name (SSID).
   • If your projector is configured for Quick mode, select the SSID you assigned to the projector.
3. Click Connect.

Parent topic: Wireless Network Projection

Selecting Wireless Network Settings in Mac OS X

Before connecting to the projector, select the correct wireless network in Mac OS X.

1. Click the AirPort icon on the menu bar at the top of the screen.
2. Make sure AirPort is turned on, then do one of the following:
   • If your projector is set up on an existing network (Advanced mode), select the network name (SSID).
   • If your projector is configured for Quick mode, select the SSID you assigned to the projector.
Setting Up Wireless Network Security

You can set up security for your projector to use on the wireless network. Set up one of the following security options to match the settings used on your network:

- WEP encryption
- WPA security

**Note:** Check with your network administrator for guidance on entering the correct information.

1. Press the **Menu** button.
2. Select the **Network** menu and press **Enter**.
3. Select **Network Configuration** and press **Enter**.
4. Select the **Security** menu and press **Enter**.
5. Select the security settings as necessary to match your network settings.
6. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

**Wireless Security Menu Settings**
**Wireless Security Menu Settings**

Settings on the Security menu let you select the type of security and security settings that match the network you are connecting the projector to.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security</td>
<td>WEP and WPA types available</td>
<td>Selects the type of security used on the wireless network</td>
</tr>
<tr>
<td>WEP Encryption</td>
<td>128Bit, 64Bit</td>
<td>For WEP security, selects the type of encryption coding</td>
</tr>
<tr>
<td>Format</td>
<td>ASCII, HEX</td>
<td>For WEP security, selects the encryption input method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>ASCII</strong>: enables text input</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>HEX</strong>: enables hexadecimal input</td>
</tr>
<tr>
<td>Key ID</td>
<td>1 to 4</td>
<td>For WEP security, selects the WEP encryption key ID</td>
</tr>
<tr>
<td>Encryption Key 1 to 4</td>
<td>Various characters depending on selected WEP Encryption and Format settings</td>
<td>For the selected WEP Key ID setting, enter the key used for WEP encryption:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>128 bit ASCII: 13 alphanumeric characters</td>
</tr>
<tr>
<td></td>
<td></td>
<td>128 bit HEX: 26 characters (0 to 9 and A to F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>64 bit ASCII: 5 alphanumeric characters</td>
</tr>
<tr>
<td></td>
<td></td>
<td>64 bit HEX: 10 characters (0 to 9 and A to F)</td>
</tr>
<tr>
<td>Authentication Type</td>
<td>Open, Shared</td>
<td>For WEP security, selects the type of WEP authentication used</td>
</tr>
<tr>
<td>PSK</td>
<td>Various keys from 8 to 32 characters</td>
<td>For WPA-PSK or WPA-2-PSK security, selects the pre-shared key used on the network</td>
</tr>
</tbody>
</table>
Setting Up Projector Network E-Mail Alerts

You can set up the projector to send you an e-mail alert over the network if there is a problem with the projector.

1. Press the Menu button.
2. Select the Network menu and press Enter.
4. Select the Mail menu and press Enter.
5. Turn on Mail Notification.
6. Enter the IP address for the SMTP Server option.
   
   **Note:** Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).
7. Select a number for the SMTP server Port Number, from 1 to 65535 (default is 25).
8. Choose an **Address** field, enter the e-mail address, and select the alerts you want to receive there. Repeat for up to three addresses.

   **Note:** Your e-mail address can be up to 32 alphanumeric characters long.

9. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

   **Note:** If a critical problem causes a projector to shut down, you may not receive an e-mail alert.

   *Network Projector E-mail Alert Messages*

   *Parent topic: Using the Projector on a Network*

**Network Projector E-mail Alert Messages**

When a problem occurs with a networked projector, and you selected to receive e-mail alerts, you receive an e-mail containing the following information:

- **EPSON Projector** on the subject line
- The name of the projector experiencing a problem
- The IP address of the affected projector
- Detailed information about the problem

   **Note:** If a critical problem causes a projector to shut down, you may not receive an e-mail alert.

   *Parent topic: Setting Up Projector Network E-Mail Alerts*

**Setting Up Monitoring Using SNMP**

Network administrators can install SNMP (Simple Network Management Protocol) software on network computers so they can monitor projectors. If your network uses this software, you can set up the projector for SNMP monitoring.

1. Press the **Menu** button.
2. Select the **Network** menu and press **Enter**.
3. Select **Network Configuration** and press **Enter**.
4. Select the **Others** menu and press **Enter**.

5. Enter up to two IP addresses to receive SNMP notifications, using 0 to 255 for each address field.

   **Note:** Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).

6. If available, select the **Priority Gateway** setting for your network.

7. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.

8. If your network environment uses a Crestron RoomView controller, turn on the **Crestron RoomView** setting to allow the projector to be detected.

9. If you are connecting to a network using Bonjour, turn on the **Bonjour** setting.

10. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

**Parent topic:** [Using the Projector on a Network](#)

### Controlling a Networked Projector Using a Web Browser

Once you have connected your projector to your network, you can select projector settings and control projection using a compatible web browser. This lets you access the projector remotely.
**Note:** The web setup and control features support Microsoft Internet Explorer 6.0 or later, and Safari on networks that do not use a proxy server for connection. You cannot select all of the projector menu settings or control all projector functions using a web browser.

**Note:** If you set Standby Mode to **Communication On**, you can use a Web browser to select settings and control projection even if the projector is in standby mode. You cannot select all of the projector menu settings or control all projector functions using a web browser.

1. Make sure the projector is turned on.
2. Start your web browser on a computer connected to the network.
3. Type the projector's IP address into the browser's address box and press the computer's **Enter** key. You see the Web Control screen.
4. To select projector menu settings, select the name of the menu and follow the on-screen instructions to select settings.
5. To control projection remotely, select the **Web Remote** option. You see this screen:

![Web Remote screen](image)

1. **Power button control**
2. Selects **Computer** port source
3 Selects Video, S-Video, and HDMI port sources
4 Freeze button control
5 A/V Mute button control
6 Page Up and Page Down button controls
7 Searches for sources
8 Selects the network source
9 Selects the USB Display or USB device source
10 Volume button controls
11 Closed Caption control

6. Select the icon corresponding to the projector function you want to control.

Parent topic: Using the Projector on a Network

Crestron RoomView Support

If you are using the Crestron RoomView network monitoring and control system, you can set up your projector for use on the system. Crestron RoomView lets you control and monitor your projector using a web browser.

Note: You cannot use the EPSON Web Control feature or the Message Broadcasting plug-in for EasyMP Monitor when you use Crestron RoomView.

For additional information on Crestron RoomView, contact Crestron.

Setting Up Crestron RoomView Support

To set up your projector for monitoring and control using a Crestron RoomView system, make sure your computer and projector are connected to the network. If you are connecting wirelessly, set up the projector using the Advanced network connection mode.

1. Press the Menu button.
2. Select the Network menu and press Enter.
3. Select **Network Configuration** and press **Enter**.
4. Select the **Others** menu and press **Enter**.

5. Set the **Crestron RoomView** setting to **On** to allow the projector to be detected.
6. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
7. Turn off the projector, then turn it on again to enable the setting.

**Parent topic:** [Crestron RoomView Support](#)

### Controlling a Networked Projector Using Crestron RoomView

Once you have set up your projector to use Crestron RoomView, you can control and monitor projection using a compatible web browser.

1. Start your web browser on a computer connected to the network.
2. Type the projector's IP address into the browser's address box and press the computer's **Enter** key.

   You see this screen:
3. Select the input source that you want to control in the Sources List box. You can scroll through available sources using the up and down arrows in the box.

4. To control projection remotely, click the on-screen buttons that correspond to the projector's remote control buttons. You can scroll through button options at the bottom of the screen.

   **Note:** These on-screen buttons do not directly correspond to the projector's remote control buttons:
   - **OK** acts as the **Enter** button
   - **Menu** displays the **Configuration** menu

5. To view information about the projector, click the **Info** tab.

6. To change projector, Crestron, and password settings, click the **Tools** tab, select settings on the displayed screen, and click **Send**.

7. When you finish selecting settings, click **Exit** to exit the program.

**Parent topic:** [Crestron RoomView Support](#)
Using Basic Projector Features

Follow the instructions in these sections to use your projector's basic features.

- Turning On the Projector
- Turning Off the Projector
- Selecting the Language for the Projector Menus
- Image Shape
- Resizing the Image with the Wide and Tele Buttons
- Focusing the Image Using the Focus Ring
- Remote Control Operation
- Selecting an Image Source
- Projection Modes
- Image Aspect Ratio
- Color Mode
- Controlling the Volume with the Volume Buttons
- Projecting a Slide Show

Turning On the Projector

Turn on the computer or video equipment you want to use before you turn on the projector so it can display the image source.
1. Remove the projector's lens cover.

2. Connect the power cord to the projector's power inlet.

3. Plug the power cord into an electrical outlet.
The projector's power light turns orange. This indicates that the projector is receiving power, but is not yet turned on (it is in standby mode).

**Note:** With **Direct Power On** turned on, the projector turns on as soon as you plug it in.

4. Press the power button on the projector or the remote control to turn on the projector.

   The projector beeps and the power light flashes green as the projector warms up. After about five seconds, the power light stops flashing and turns green.

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

If you do not see a projected image right away, try the following:

- Turn on the connected computer or video device.
- Insert a DVD or other video media, and press the play button (if necessary).
- Press the **Source Search** button on the projector or remote control to detect the video source.
- Press the button for the video source on the remote control.

**Parent topic:** Using Basic Projector Features

**Related references**

- [Projector Setup Settings - Extended Menu](#)

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### Turning Off the Projector

Before turning off the projector, shut down any computer connected to it so you can see the computer display during shutdown.

**Note:** Turn off this product when not in use to prolong the life of the projector. Lamp life will vary depending upon mode selected, environmental conditions, and usage. Brightness decreases over time.

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

   The projector displays a shutdown confirmation screen.
2. Press the power button again. (To leave it on, press any other button.)
   The projector beeps twice, the lamp turns off, and the power light turns orange.

   **Note:** With Epson's Instant Off technology, there is no cool-down period so you can pack up the projector for transport right away (if necessary).

   **Caution:** Do not turn the projector on immediately after turning it off. Turning the projector on and off frequently may shorten the life of the lamp.

3. To transport or store the projector, make sure the power light is orange (but not flashing), then unplug the power cord.

   **Caution:** To avoid damaging the projector or lamp, never unplug the power cord when the power light is green or flashing orange.
4. Replace the projector’s lens cover.

Parent topic: Using Basic Projector Features

Selecting the Language for the Projector Menus

If you want to view the projector's menus and messages in another language, you can change the Language setting.

1. Turn on the projector.
2. Press the Menu button.
3. Select the **Extended** menu and press **Enter**.

4. Select the **Language** setting and press **Enter**.

5. Select the language you want to use and press **Enter**.

6. Press **Menu** or **Esc** to exit the menus.

Parent topic: Using Basic Projector Features

**Image Shape**

You can project an evenly rectangular image by placing the projector directly in front of the center of the screen and keeping it level. If you place the projector at an angle to the screen, or tilted up or down, or off to the side, you may need to correct the image shape for the best display quality.

**Note:** For interactive use, the image must be evenly rectangular, without distortion.

**Correcting Image Shape with the Keystone Buttons**

**Correcting Image Shape with Quick Corner**

Parent topic: Using Basic Projector Features

**Correcting Image Shape with the Keystone Buttons**

You can use the projector’s keystone correction buttons to correct the shape of an image that is unevenly rectangular on the sides.
1. Turn on the projector and display an image.

   **Note:** You can display a pattern to aid in adjusting the projected image using the Settings menu.

2. Press one of these keystone buttons on the control panel to display the Keystone adjustment screen.

3. Press a keystone button on the projector's control panel to adjust the image shape.
Note: The horizontal keystone adjustment buttons are labeled **Wide** and **Tele**.

After correction, your image is slightly smaller.

Note: If the projector is installed out of reach, you can also correct the image shape using the Keystone settings in the projector menus.

Parent topic: Image Shape

Related references

Projector Feature Settings - Settings Menu

**Correcting Image Shape with Quick Corner**

You can use the projector's Quick Corner setting to correct the shape and size of an image that is unevenly rectangular on all sides.

1. Turn on the projector and display an image.

   Note: You can display a pattern to aid in adjusting the projected image using the Settings menu.

2. Press the **Menu** button.
3. Select the **Settings** menu and press **Enter**.

4. Select the **Keystone** setting and press **Enter**.

5. Select the **Quick Corner** setting and press **Enter**. Then press **Enter** again. You see the Quick Corner adjustment screen.
6. Use the arrow buttons on the projector or the remote control to select the corner of the image you want to adjust. Then press Enter.
7. Press the arrow buttons to adjust the image shape as necessary.
8. When you are finished, press Esc.
Resizing the Image with the Wide and Tele Buttons

1. Turn on the projector and display an image.
2. To enlarge the image size, press the Wide button on the projector's control panel.
3. To reduce the image size, press the Tele button.

Note: If the projector is installed out of reach, you can also adjust the image size using the Zoom setting in the projector menus.

Parent topic: Using Basic Projector Features

Focusing the Image Using the Focus Ring

1. Turn on the projector and display an image.

Note: You can display a pattern to aid in adjusting the projected image using the Settings menu.
2. To sharpen the image focus, rotate the projector’s focus ring.

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 19.7 feet (6 m) away. You can point it at the screen or board, or the front or back of the projector.

Make sure that you aim the remote control at the projector’s receivers within the angles listed here.
1 19.7 feet (6 m)
2 ± 30º
3 70º

**Note:** Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you will not use the remote control for a long time, remove the batteries.

**Using the Remote Control as a Wireless Mouse**

**Using the Remote Control as a Presentation Pointer**

**Parent topic:** Using Basic Projector Features

**Related tasks**

Replacing the Remote Control Batteries

---

**Using the Remote Control as a Wireless Mouse**

You can use the projector’s remote control as a wireless mouse so you can control your computer presentation from a distance.

1. Connect the projector to a computer using the projector’s USB TypeB, Computer, or HDMI port to display video.

2. If you connected your computer to the Computer or HDMI port, also connect a USB cable to the projector’s USB TypeB port and to a USB port on your computer (for wireless mouse support).

3. Start your presentation.

4. Use the following buttons on the remote control to control your presentation:
   - To move through slides or pages, press the up or down Page buttons.
To move the cursor on the screen, use the arrow buttons.

To left-click, press the button once (press it twice to double-click).

To right-click, press the Esc button.

To drag-and-drop, hold the button as you move the cursor with the arrow buttons, then release at the destination.

**Parent topic:** Remote Control Operation

**Related references**

Projector Setup Settings - Extended Menu

**Using the Remote Control as a Presentation Pointer**

You can use the projector's remote control as a pointer to help you call out important information during a presentation. The default pointer shape is an arrow, but you can select an alternative shape using the Settings menu.

1. Press the **Pointer** button on the remote control.
2. Use the arrow buttons on the remote control to move the pointer on the screen.

3. Press **Esc** to clear the pointer from the screen.

**Parent topic:** Remote Control Operation

**Related references**

- Projector Feature Settings - Settings Menu

---

**Selecting an Image Source**

If you connected multiple image sources to the projector, such as a computer and DVD player, you may want to switch from one image source to the other.

1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press its play button (if necessary).
3. Do one of the following:
   - Press the **Source Search** button on the projector or remote control until you see the image from the source you want.
• Press the button for the source you want on the remote control. If there is more than one port for that source, press the button again to cycle through the sources.

1 Computer port sources
2 Video and HDMI sources
3 USB port sources (computer display and external devices)
4 Network source (LAN)

Parent topic: Using Basic Projector Features

Projection Modes
Depending on how you positioned the projector, you may need to change the projection mode so your images project correctly.
• **Front** (default setting) lets you project from a table in front of the screen.
• **Front/Ceiling** flips the image over top-to-bottom to project upside-down from a ceiling or wall mount.
• **Rear** flips the image horizontally to project from behind a translucent screen.
• **Rear/Ceiling** flips the image over top-to-bottom and horizontally to project from the ceiling and behind a translucent screen.
You can change the projection mode using the remote control or by changing a menu setting.

**Changing the Projection Mode Using the Remote Control**

1. Turn on the projector and display an image.
2. Hold down the A/V Mute button on the remote control for five seconds.
3. To change projection back to the original mode, hold down the A/V Mute button for five seconds again.

**Changing the Projection Mode Using the Menus**

1. Turn on the projector and display an image.
2. Press the Menu button.
3. Select the **Extended** menu and press **Enter**.

![Extended Menu Options](image)

4. Select the **Projection** setting and press **Enter**.

5. Select a projection mode and press **Enter**.

6. Press **Menu** or **Esc** to exit the menus.

**Parent topic:** Projection Modes

### Image Aspect Ratio

The projector can display images in different width-to-height ratios called aspect ratios. Normally the input signal from your video source determines the image’s aspect ratio. However, for certain images you can change the aspect ratio to fit your screen by pressing a button on the remote control.

If you always want to use a particular aspect ratio for a certain video input source, you can select it using the projector’s menus.

**Note:** If you change the image aspect ratio while using the interactive pen, you will need to recalibrate the pen.

**Changing the Image Aspect Ratio**

**Available Image Aspect Ratios**

**Parent topic:** Using Basic Projector Features
Changing the Image Aspect Ratio
You can change the aspect ratio of the displayed image to resize it.
1. Turn on the projector and switch to the image source you want to use.
2. Press the Aspect button on the remote control.

The shape and size of the displayed image changes, and the name of the aspect ratio appears briefly on the screen.
3. To cycle through the available aspect ratios for your input signal, press the Aspect button repeatedly.

Available Image Aspect Ratios
You can select the following image aspect ratios, depending on the input signal from your image source.

**Note:** Black bands and cropped images may project in certain aspect ratios, depending on the aspect ratio and resolution of your input signal.

**BrightLink 425Wi/435Wi**

<table>
<thead>
<tr>
<th>Aspect ratio setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>Automatically sets the aspect ratio according to the input signal and the Resolution setting.</td>
</tr>
</tbody>
</table>
### Aspect ratio setting

<table>
<thead>
<tr>
<th>Description</th>
<th>Normal</th>
<th>Displays images using the full projection area and maintains the aspect ratio of the image.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:9</td>
<td></td>
<td>Converts the aspect ratio of the image to 16:9.</td>
</tr>
<tr>
<td>Full</td>
<td></td>
<td>Displays images using the full width of the projection area, but does not maintain the aspect ratio.</td>
</tr>
<tr>
<td>Zoom</td>
<td></td>
<td>Displays images using the full width of the projection area and maintains the aspect ratio of the image.</td>
</tr>
<tr>
<td>Native</td>
<td></td>
<td>Displays images as is (aspect ratio and resolution are maintained).</td>
</tr>
</tbody>
</table>

#### BrightLink 430i

<table>
<thead>
<tr>
<th>Description</th>
<th>Auto</th>
<th>Automatically sets the aspect ratio according to the input signal and the Resolution setting.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td></td>
<td>Displays images using the full projection area and maintains the aspect ratio of the image.</td>
</tr>
<tr>
<td>4:3</td>
<td></td>
<td>Displays images using the full projection area at 4:3 aspect ratio.</td>
</tr>
<tr>
<td>16:9</td>
<td></td>
<td>Converts the aspect ratio of the image to 16:9.</td>
</tr>
</tbody>
</table>

**Note:** The Auto aspect ratio setting is available only for HDMI image sources.

**Parent topic:** [Image Aspect Ratio](#)

### Color Mode

The projector offers different Color Modes to provide optimum brightness, contrast, and color for a variety of viewing environments and image types. You can select a mode designed to match your image and environment, or experiment with the available modes.

If you always want to use a particular color mode for a certain video input source, you can select it using the projector menus.

**Changing the Color Mode**

**Available Color Modes**

**Turning On Auto Iris**
Changing the Color Mode

You can change the projector's Color Mode using the remote control to optimize the image for your viewing environment.

1. Turn on the projector and switch to the image source you want to use.
2. If you are projecting from a DVD player or other video source, insert a disc or other video media and press the play button, if necessary.
3. Press the **Color Mode** button on the remote control to change the Color Mode.

The image appearance changes and the name of the Color Mode appears briefly on the screen.

4. To cycle through all the available Color Modes for your input signal, press the **Color Mode** button repeatedly.

### Available Color Modes

You can set the projector to use these Color Modes, depending on the input source you are using:

<table>
<thead>
<tr>
<th>Color Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic</td>
<td>Best for projecting in a bright room</td>
</tr>
<tr>
<td>Presentation</td>
<td>Best for color presentations in a bright room</td>
</tr>
<tr>
<td>Theatre</td>
<td>Best for movies projected in a dark room</td>
</tr>
<tr>
<td>Photo</td>
<td>Best for still images projected in a bright room</td>
</tr>
<tr>
<td>Color Mode</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Sports</td>
<td>Best for television images in a bright room</td>
</tr>
<tr>
<td>sRGB</td>
<td>Best for standard sRGB computer displays</td>
</tr>
<tr>
<td>Blackboard</td>
<td>Best for presentations onto a green chalkboard (adjusts the colors accordingly)</td>
</tr>
<tr>
<td>Whiteboard</td>
<td>Best for presentations onto a whiteboard (adjusts the colors accordingly)</td>
</tr>
</tbody>
</table>

Parent topic: Color Mode

Related references
Image Quality Settings - Image Menu

Turning On Auto Iris

In certain color modes, you can turn on the Auto Iris setting to automatically optimize the image based on the brightness of the content you project.

1. Turn on the projector and switch to the image source you want to use.
2. Press the Menu button.
4. Select the Auto Iris setting and select On.

**Note:** You can turn Auto Iris on or off for each Color Mode that supports the feature. You cannot change the Auto Iris setting when you are using a Closed Caption setting.

5. Press Menu or Esc to exit the menus.

**Parent topic:** Color Mode

### Controlling the Volume with the Volume Buttons

You can use the Volume buttons on the remote control to adjust the volume as you project a presentation with audio. The volume buttons control the projector’s internal speaker system. You must adjust the volume separately for each connected input source.

1. Turn on the projector and start a presentation that includes audio.
2. Press the Volume buttons as necessary to lower or raise the volume.

   ![Volume buttons](image)

   A volume gauge appears on the screen.

3. To set the volume to a specific level for an input source, you can set the volume using the projector’s menus.

**Parent topic:** Using Basic Projector Features

**Related references**

- Projector Feature Settings - Settings Menu

### Projecting a Slide Show

You can use your projector’s Slideshow feature whenever you connect a USB device that contains compatible image files. This lets you quickly and easily display a slide show, and control it using the projector’s remote control.
Slideshow Features
Supported Slideshow File Types
Starting a Slide Show

Parent topic: Using Basic Projector Features
Related concepts
USB Device Projection

Related tasks
Connecting a USB Device or Camera to the Projector

Slideshow Features
Your projector's Slideshow feature lets you do the following:

• Display individual images
• Present a slide show of all images in a folder

Parent topic: Projecting a Slide Show

Supported Slideshow File Types
You can project these types of files using the projector’s Slideshow feature.

Note: For best results, place your files on media that is formatted in FAT16/32.
### Starting a Slide Show

After connecting a USB device to the projector, you can switch to the USB input source and start your slide show.

**Note:** You can change the Slideshow operation options or add special effects by highlighting **Option** at the bottom of the screen and pressing **Enter**.

1. Press the **USB** button on the projector remote control.
   
   The **Slideshow** screen appears.
2. Do the following as necessary to locate your files:
   • If you need to display files inside a subfolder on your device, press the arrow buttons to highlight the folder and press the Enter button.
   • To move back up a folder level on your device, highlight Back to Top and press Enter.
   • To view additional images in a folder, highlight Next page or Previous page and press Enter.

3. Do one of the following to start your slide show:
   • To display an individual image, press the arrow buttons to highlight the image and press Enter. (Press the Esc button to return to the file list screen.)
   • To display a slide show of all the images in a folder, press the arrow buttons to highlight the Slideshow option at the bottom of the screen and press Enter.

   **Note:** If any file names are longer than 8 characters or include unsupported symbols, the file names may be shortened or changed only in the screen display.

4. While projecting, use the following commands to control the display as necessary:
   • To rotate a displayed image, press the up or down arrow button.
   • To move to the next or previous image, press the left or right arrow button.

5. To stop the display, follow the on-screen instructions or press the Esc button.

   **Slideshows Display Options**
   **Parent topic:** Projecting a Slide Show
Related tasks
Disconnecting a USB Device or Camera From the Projector

Slideshow Display Options
You can select these display options when using the projector’s Slideshow feature.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Order</td>
<td>Name Order</td>
<td>Displays files in name order</td>
</tr>
<tr>
<td></td>
<td>Date Order</td>
<td>Displays files in date order</td>
</tr>
<tr>
<td>Sort Order</td>
<td>In Ascending</td>
<td>Sorts files in first-to-last order</td>
</tr>
<tr>
<td></td>
<td>In Descending</td>
<td>Sorts files in last-to-first order</td>
</tr>
<tr>
<td>Continuous Play</td>
<td>On</td>
<td>Displays a slide show continuously</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Displays a slide show one time through</td>
</tr>
<tr>
<td>Screen Switching Time</td>
<td>No</td>
<td>Does not display the next file automatically</td>
</tr>
<tr>
<td></td>
<td>1 Second to 60 Seconds</td>
<td>Displays files for the selected time and switches to the next file automatically</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>Effect</td>
<td>Wipe</td>
<td>Transitions between images with a wipe effect</td>
</tr>
<tr>
<td></td>
<td>Dissolve</td>
<td>Transitions between images with a dissolve effect</td>
</tr>
<tr>
<td></td>
<td>Random</td>
<td>Transitions between images using a random variety of effects</td>
</tr>
</tbody>
</table>

**Parent topic:** Starting a Slide Show
Adjusting Projector Features

Follow the instructions in these sections to use your projector's feature adjustments.

- Shutting Off the Picture and Sound Temporarily
- Stopping Video Action Temporarily
- Zooming Into and Out of Images
- Projector Security Features
- Creating a User Pattern to Display

Shutting Off the Picture and Sound Temporarily

You can temporarily turn off the projected picture and sound if you want to redirect your audience's attention during a presentation. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

If you want to display an image such as a company logo or picture when the presentation is stopped, you can set up this feature using the projector's menus.

1. Press the A/V Mute button on the remote control to temporarily stop projection and mute any sound.

![Remote control buttons](image)

2. To turn the picture and sound back on, press A/V Mute again.

Parent topic: Adjusting Projector Features

Related references

Projector Setup Settings - Extended Menu
Stopping Video Action Temporarily

You can temporarily stop the action in a video or computer presentation and keep the current image on
the screen. Any sound or video action continues to run, however, so you cannot resume projection at the
point that you stopped it.

**Note:** You can also stop video action using the interactive pens.

1. Press the **Freeze** button on the remote control to stop the video action.

2. To restart the video action in progress, press **Freeze** again.

**Parent topic:** Adjusting Projector Features

Zooming Into and Out of Images

You can draw attention to parts of a presentation by zooming into a portion of the image and enlarging it
on the screen.

**Note:** You can also zoom into your image using the interactive pens.

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

2. Use the following buttons on the remote control to adjust the zoomed image:
   - Use the arrow buttons to position the crosshair in the image area you want to zoom into.
   - Press the **E-Zoom +** button repeatedly to zoom into the image area, enlarging it as necessary.
   - To pan around the zoomed image area, use the arrow buttons.
   - To zoom out of the image, press the **E-Zoom –** button as necessary.
   - To return to the original image size, press **Esc**.

**Parent topic:** Adjusting Projector Features

### Projector Security Features

You can secure your projector to deter theft or prevent unintended use by setting up the following security features:

- Password security to prevent the projector from being turned on, and prevent changes to the startup screen and other settings.
- Button lock security to block operation of the projector using the buttons on the control panel.
- Security cabling to physically cable the projector in place.

**Password Security Types**

**Locking the Projector’s Buttons**

**Installing a Security Cable**

**Parent topic:** Adjusting Projector Features

### Password Security Types

You can set up these types of password security using one shared password:

- **Power On Protect** password prevents anyone from using the projector without first entering a password.
- **User’s Logo Protect** password prevents anyone from changing the custom screen the projector can display when it turns on or when you use the A/V Mute feature. The presence of the custom screen discourages theft by identifying the projector’s owner.
- **Network Protect** password prevents anyone from changing the network settings in the projector menus.

**Setting a Password**
Setting a Password

To use password security, you must set a password.

1. Hold down the Freeze button on the remote control until you see the Password Protect menu. This takes about five seconds.

![Password Protect menu](image)

2. Press the down arrow to select **Password** and press Enter. You see the prompt “Change the password?”.  
3. Select **Yes** and press Enter.  
4. Hold down the **Num** button on the remote control and use the numeric buttons to set a four-digit password.
The password displays as **** as you enter it. Then you see the confirmation prompt.

5. Enter the password again.
   You see the message "Password accepted."

6. Press Esc to return to the Password Protect menu.

7. Make a note of the password and keep it in a safe place in case you forget it.

Parent topic: Password Security Types

Selecting Password Security Types

After setting a password, you see the Password Protect menu. Select the password security types you want to use.

If you do not see this menu, hold down the Freeze button on the remote control for five seconds until the menu appears.

1. To prevent unauthorized use of the projector, select Power On Protect, press Enter, select On, press Enter again, and press Esc.

2. To prevent changes to the User's Logo screen or related display settings, select User's Logo Protect, press Enter, select On, press Enter again, and press Esc.

3. To prevent changes to network settings, select Network Protect, press Enter, select On, press Enter again, and press Esc.

You can attach the Password Protect sticker to the projector as an additional theft deterrent.

Note: Be sure to keep the remote control in a safe place; if you lose it, you will not be able to enter the password required to use the projector.

Parent topic: Password Security Types
Entering a Password to Use the Projector

If a password is set up and a Power On Protect password is enabled, you see a prompt to enter a password whenever you turn on the projector.

You must enter the correct password to use the projector.

1. Hold down the **Num** button on the remote control while you enter the password using the numeric buttons.

   The password screen closes.

2. If the password is incorrect, the following may happen:
   - You see a "wrong password" message and a prompt to try again. Enter the correct password to proceed.
- If you enter an incorrect password several times in succession, the projector displays a request code and a message to contact EPSON Support. When you contact EPSON Support, provide the displayed request code and proof of ownership for assistance in unlocking the projector.

**Parent topic:** Password Security Types

**Saving a User's Logo Image to Display**

You can transfer an image to the projector and then display it whenever the projector turns on. You can also display the image when the projector is not receiving an input signal or when you temporarily stop projection (using the A/V Mute feature). This transferred image is called the User's Logo screen.

The image you select as the User's Logo can be a photo, graphic, or company logo, which is useful in identifying the projector's owner to help deter theft. You can prevent changes to the User's Logo by setting up password protection for it.

1. Display the image you want to project as the User's Logo.
2. Press the **Menu** button, select the **Extended** menu, and press **Enter**.
3. Select the **User's Logo** setting and press **Enter**.
   
   You see a prompt asking if you want to use the displayed image as a user's logo.
4. Select **Yes** and press **Enter**.
   
   You see a selection box overlaying your image.
5. Use the arrow buttons on the remote control to surround the image area you want to use as the User's Logo and press **Enter**.
   
   You see a prompt asking if you want to select this image area.
6. Select Yes and press Enter. (If you want to change the selected area, select No, press Enter, and repeat the last step.)

You see the User's Logo zoom factor menu.

7. Select a zoom percentage and press Enter.

You see a prompt asking if you want to save the image as the User's Logo.

8. Select Yes and press Enter.

Note: It takes a few moments for the projector to save the image; do not use the projector, its remote control, or any connected equipment until it is finished.

You see a completion message.

9. Press Esc to exit the message screen.

10. Select the Extended menu and press Enter.

11. Select Display and press Enter.

12. Select when you want to display the User's Logo screen:

   • To display it whenever there is no input signal, select Display Background and set it to Logo.
   • To display it whenever you turn the projector on, select Startup Screen and set it to On.
   • To display it whenever you press the A/V Mute button, select A/V Mute and set it to Logo.

To prevent anyone from changing the User's Logo settings without first entering a password, set a password and enable User's Logo security.

Parent topic: Password Security Types
Locking the Projector’s Buttons

You can lock the buttons on the projector’s control panel to prevent anyone from using the projector. You can lock all the buttons or all the buttons except the power button.

1. Press the Menu button.
2. Select the Settings menu and press Enter.
3. Select the Control Panel Lock setting and press Enter.
4. Select one of these lock types and press Enter:
   - To lock all of the projector’s buttons, select Full Lock.
   - To lock all buttons except the power button, select Partial Lock.
   You see a confirmation prompt.
5. Select Yes and press Enter.

Unlocking the Projector’s Buttons

If the projector’s buttons have been locked, hold the Enter button on the projector’s control panel for seven seconds to unlock them.

Parent topic: Projector Security Features

Parent topic: Locking the Projector’s Buttons
Installing a Security Cable

You can install two types of security cables on the projector to deter theft.

- Use the security slot on the back of the projector to attach a Kensington Microsaver Security system, available from Epson.
- Use the security cable attachment point on the projector to attach a wire cable and secure it to a room fixture or heavy furniture.

Parent topic: Projector Security Features

Creating a User Pattern to Display

You can transfer an image to the projector and then display it as a pattern to aid in presentations when you use the Pattern Display feature. This transferred image is called the User Pattern.

1. Display the image you want to project as the User Pattern from a connected computer or video source.
2. Press the **Menu** button, select the **Settings** menu, and press **Enter**.

3. Select the **Pattern** setting and press **Enter**.

4. Select the **User Pattern** setting and press **Enter**.
   
   You see a prompt asking if you want to use the displayed image as a User Pattern.

5. Select **Yes** and press **Enter**.

   **Note:** It takes a few moments for the projector to save the image; do not use the projector, its remote control, or any connected equipment until it is finished.

   You see a completion message.

6. Press **Esc** to exit the message screen.

**Parent topic:** Adjusting Projector Features

**Related references**

- Projector Feature Settings - Settings Menu
Using the Interactive Pens

The BrightLink interactive pens turn any wall into an interactive whiteboard.

Installing Easy Interactive Driver
Checking the Connection Status of the Interactive Module
Calibrating the Projector
Using the Pens
Easy Interactive Tools
Windows Tablet PC and Ink Tools

Installing Easy Interactive Driver

Before you can use the interactive pens, you need to install Easy Interactive Driver on the computer connected to the projector. The Easy Interactive Driver software is available on the "EPSON Projector Software for Easy Interactive Function" CD that came with the projector. The software is also available for download from the Epson website. Go to www.epson.com/support (U.S.) or www.epson.ca/support (Canada) and select your projector.

1. Insert the CD labeled "EPSON Projector Software for Easy Interactive Function" in your drive.
2. Do one of the following:
   • Windows: If you see the AutoPlay window, select Run EIDriverVxxx_Setup.exe. If you see the User Account Control screen, select Yes or Continue.
   • Mac OS X: Double-click the EIDriverVxxx_Setup icon in the Epson window.
3. Select your language.
4. Follow the on-screen instructions to install the software. Make sure you select Register to Startup (Windows) or Start up (Mac OS X).

Parent topic: Using the Interactive Pens

Checking the Connection Status of the Interactive Module

The Easy Interactive Driver icon in the taskbar (Windows) or in the Dock (Mac) shows the connection status between your computer and the interactive module.

Note: It may take a minute for the icon to appear after you turn on your computer and the projector.

• If you see the icon, the computer and interactive module are connected correctly.
• If the icon has a red X above it, the computer and interactive module are not connected correctly. Make sure the USB cable between the interactive module and your computer is securely connected.

• If you don't see the icon, make sure Easy Interactive Driver is installed on your computer, then do one of the following to launch the driver:
  • **Windows**: Click or Start > All Programs or Programs > EPSON Projector > Easy Interactive Driver.
  • **Mac OS X**: Open the Application folder, then select the Easy Interactive Driver icon.

Parent topic: Using the Interactive Pens

## Calibrating the Projector

Calibration sets up the connection between your computer and the interactive pen so that you can control or interact with the image being projected from the computer. This simple process ensures that your computer can accurately detect the position of the pen on the projection surface.

You need to calibrate before using the pen for the first time, or if you change the resolution on your computer or connect a different computer. You can use either pen for calibration.

Two types of calibration are available:

• **Normal**, which is faster and appropriate for most situations (25 calibration points)

• **Advanced**, which is recommended when you need higher accuracy (49 calibration points)

You may need to recalibrate if you change the projector's aspect ratio or if you change the following settings: Auto Setup, Resolution, Tracking, Sync, Position, Aspect, Keystone, or Zoom.

1. To start calibrating, do one of the following:
  • **Windows**: Click the icon in the system tray on your taskbar (lower right corner of your screen), then select Calibrate (Normal) or Calibrate (Advanced).
  • **Mac OS X**: Click the icon in the Dock, select Calibrate from the menu bar, then select Calibrate (Normal) or Calibrate (Advanced).

2. After you read the message about calibration, click OK.

You see a flashing green circle in the upper left corner of your projected image.

3. Touch the center of the circle with the tip of the pen.

The circle stops flashing and turns black. You see another circle on the right.
Note: For the most accurate calibration, make sure you hold the pen at an angle to the projection surface and touch the center of the circle.

4. Touch the center of the next circle, then repeat. When you get to the end of the row, the next circle appears at the left edge of a new row.

Note: Make sure you are not blocking the signal between the pen and the interactive module. Don’t press the button on the pen while calibrating.

If you make a mistake or the circles start jumping ahead, press Esc on your computer keyboard and restart the calibration process.

5. Continue until all of the circles are black.
The Easy Interactive Driver allows you to use the pen as a mouse. If you installed interactive whiteboard software such as Easy Interactive Tools or TeamBoard Draw, you can also use the pens to write or draw on the projected image.

Press the button on the pen to test the batteries. If the indicator light is green, the batteries have enough power.

Follow these tips to use the pen as a mouse:
• For best performance, hold the pen at an angle, rather than perpendicular to the board.
• To left-click, tap on the board.
• To double-click, tap twice.
• To right-click, tap while pressing the button on the pen.
• To click and drag, tap and drag with the pen.

**Parent topic:** Using the Interactive Pens

**Easy Interactive Tools**

Easy Interactive Tools lets you use your interactive pen as a mouse to navigate, select, scroll, draw, save, and interact with projected content from your computer.

These two modes are available:

- Interactive mode displays the toolbar on the projected image and lets you use the pen as a mouse to open applications, access links, and operate scroll bars, for example. You can also annotate whatever is displayed from your computer.
- Whiteboard mode lets you project one of 3 solid colors or 6 background patterns, and use the toolbar to write or draw on the background. You can also import images from your computer or a document camera.

**Easy Interactive Tools System Requirements**

Install Easy Interactive Tools
Starting and Exiting Easy Interactive Tools
Using the Easy Interactive Tools for Interactive Mode
Using Easy Interactive Annotation Tools
Using the Easy Interactive Tools for Whiteboard Mode
Using Easy Interactive Tools for Saving, Printing, and More

**Parent topic:** Using the Interactive Pens

**Easy Interactive Tools System Requirements**

Your computer system must meet the system requirements here to use Easy Interactive Tools.

**Note:** Easy Interactive Driver must be installed and running to use Easy Interactive Tools.
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Windows</th>
<th>Mac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows XP Professional, Home Edition, and Tablet PC Edition (32-bit); except for Service Pack 1</td>
<td>Mac OS X 10.4.x, 10.5.x, 10.6.x, or 10.7.x</td>
</tr>
<tr>
<td></td>
<td>Windows Vista Ultimate, Enterprise, Business, Home Premium, and Home Basic (32-bit)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 7 Ultimate, Enterprise, Professional, and Home Premium (32- and 64-bit); Home Basic (32-bit)</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Pentium M 1.6 GHz or faster (Core2 Duo 1.2 GHz or faster recommended)</td>
<td>Power PC G4 1.5 GHz or faster (Core Duo 1.5 GHz or faster recommended)</td>
</tr>
<tr>
<td>Memory</td>
<td>512MB or more (1G or more recommended)</td>
<td></td>
</tr>
<tr>
<td>Hard disk space</td>
<td>100MB or more</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>Resolution between 1024 × 768 and 1920 × 1080, 16-bit color or greater</td>
<td></td>
</tr>
</tbody>
</table>

**Parent topic:** Easy Interactive Tools

**Installing Easy Interactive Tools**

The Easy Interactive Tools software is available for download from the Epson website. Go to www.epson.com/support (U.S.) or www.epson.ca/support (Canada) and select your projector.

After downloading the software, double-click the downloaded file to begin installation. Follow the on-screen instructions to install the software.

**Note:** Make sure you select **Register to Startup** (Windows) or **Start up** (Mac OS X) during the installation process.

**Parent topic:** Easy Interactive Tools

**Starting and Exiting Easy Interactive Tools**

Make sure Easy Interactive Tools is installed on your computer, and the computer is connected to the projector and the interactive module.

1. Turn on your computer and wait until you see its desktop image projected.
2. To start Easy Interactive Tools, do one of the following:

- **Windows**: Double-click the **Easy Interactive Tools** icon on your desktop or select 🌟 or **Start > All Programs** or **Programs > EPSON Projector > Easy Interactive Tools**.
- **Mac OS X**: Select **Applications > Easy Interactive Tools > Easy Interactive Tools**.

The Easy Interactive Toolbar appears on the projected image, and an arrow appears on the other side of the image.
**Note:** The illustration shows the interactive mode toolbar on the left, and the whiteboard mode toolbar on the right. You can select the Close icon to hide the toolbar, then select the arrow to redisplay the toolbar.

3. To exit Easy Interactive Tools, select the X in the lower right corner of the toolbar.

**Parent topic:** Easy Interactive Tools

### Using the Easy Interactive Tools for Interactive Mode

You can use the pen as a mouse and add annotations to your presentations or other work displayed from your computer. Follow the instructions in these sections to use the tools for interactive mouse mode.

- Easy Interactive Tools for Interactive Mode
- Using the On-Screen Keyboard
- Using a Document Camera With Easy Interactive Tools
- Using the Magnifier

**Parent topic:** Easy Interactive Tools

### Easy Interactive Tools for Interactive Mode

<table>
<thead>
<tr>
<th>Switch to interactive mode</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Switch to whiteboard mode</td>
<td></td>
</tr>
<tr>
<td>Toggle between mouse and pen modes</td>
<td></td>
</tr>
<tr>
<td>Save the current screen</td>
<td></td>
</tr>
<tr>
<td>Undo multiple operations (one at a time)</td>
<td></td>
</tr>
<tr>
<td>Redo multiple operations (one at a time)</td>
<td></td>
</tr>
<tr>
<td>Page up in a browser or other software program</td>
<td></td>
</tr>
<tr>
<td>Page down in a browser or other software program</td>
<td></td>
</tr>
<tr>
<td>Display the image from a document camera connected to the computer via USB</td>
<td></td>
</tr>
<tr>
<td>Use an on-screen keyboard to enter text on a website or in a browser or other software program</td>
<td></td>
</tr>
<tr>
<td>Use the magnifier to display an enlarged view of the image at the center of the screen</td>
<td></td>
</tr>
<tr>
<td>Display additional tools for saving, printing, and more</td>
<td></td>
</tr>
<tr>
<td>Insert a circle, square, triangle, or other shape</td>
<td></td>
</tr>
</tbody>
</table>

**Parent topic:** Using the Easy Interactive Tools for Interactive Mode

**Using the On-Screen Keyboard**

You can enter text in a browser or other program, such as a word processor or spreadsheet.

1. Open your internet browser or other program.

2. Select the [Keyboard tool.](#)
You see the on-screen keyboard.

3. Tap on the projected field where you want to enter text.
4. Select the letters and numbers on the on-screen keyboard.

**Parent topic:** Using the Easy Interactive Tools for Interactive Mode

**Using a Document Camera With Easy Interactive Tools**

You can connect a document camera to your computer and use Easy Interactive Tools to annotate and work with any image projected from the camera.

1. Connect a document camera to your computer's USB port and focus on the image you want to project.

2. Select the Camera tool.
   You see a window like this:
3. Select the camera you want to use from the drop-down list.
4. Do one of the following to work with the image if necessary:
   • To search among connected sources, select the icon.
   • To zoom in, select the icon.
   • To zoom out, select the icon.
   • To display a full-screen image from the camera, select the icon.
5. When you are done, close the camera window.

Parent topic: Using the Easy Interactive Tools for Interactive Mode

Using the Magnifier

You can use the Magnifier tool to zoom in on a section of your projected image.
1. Select the Magnifier tool.
   You see a window like this:

   ![Magnifier tool window]

2. Drag the Magnifier window to the area you want to enlarge.
3. Do the following to adjust the magnification as necessary:
   - To zoom in, select the 🔍 icon.
   - To zoom out, select the 🔍 icon.
4. When you are done, close the Magnifier window.

   **Parent topic:** Using the Easy Interactive Tools for Interactive Mode

### Using Easy Interactive Annotation Tools

Follow the instructions in these sections to use the Easy Interactive Tools for annotation.

**Easy Interactive Annotation Tools**

- Selecting Line Width and Color With Easy Interactive Tools

   **Parent topic:** Easy Interactive Tools

**Easy Interactive Annotation Tools**

The annotation tools shown here appear on the lower half of the toolbar and are available in all modes.
<table>
<thead>
<tr>
<th>Icon</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Custom Pen Icon]</td>
<td>Change custom pen color and width</td>
</tr>
<tr>
<td>![Custom Pen Icon]</td>
<td>Write or draw with custom pen</td>
</tr>
<tr>
<td>![Highlighter Pen Icon]</td>
<td>Change highlighter pen color and width</td>
</tr>
<tr>
<td>![Highlighter Pen Icon]</td>
<td>Write or draw with transparent highlighter pen</td>
</tr>
<tr>
<td>![Black Pen Icon]</td>
<td>Write or draw with black pen (fine point on left, thick point on right)</td>
</tr>
<tr>
<td>![Red Pen Icon]</td>
<td>Write or draw with red pen (fine point on left, thick point on right)</td>
</tr>
<tr>
<td>![Blue Pen Icon]</td>
<td>Write or draw with blue pen (fine point on left, thick point on right)</td>
</tr>
<tr>
<td>![Eraser Icon]</td>
<td>Use the eraser (thin width on left, thick width on right)</td>
</tr>
<tr>
<td>![Clear Annotations Icon]</td>
<td>Clear all annotations (select Undo to restore annotations)</td>
</tr>
</tbody>
</table>
Selecting Line Width and Color With Easy Interactive Tools

You can select the color and line width for both the custom Pen and the Highlighter tools.

1. Select the icon next to the custom Pen or Highlighter annotation tool.
   A box like the following appears:

   ![Color and line width selection box]

2. Select the line width and color you want to use for the Pen or Highlighter tools.

3. Select the or tool, then use the pen to write or draw on the projection surface.

Parent topic: Using Easy Interactive Annotation Tools
Using the Easy Interactive Tools for Whiteboard Mode

You can write or draw on a blank surface, add background images, and save your pages. Follow the instructions in these sections to use the tools for whiteboard mode.

Easy Interactive Tools for Whiteboard Mode
Using the Shapes Tool in Whiteboard Mode

Parent topic: Easy Interactive Tools

Easy Interactive Tools for Whiteboard Mode

To display the whiteboard tools shown here, select the Whiteboard icon on the toolbar.
Undo multiple operations (one at a time)

Redo multiple operations (one at a time)

Display a list of pages currently being edited

Open a new page

Insert an image from a file or from a document camera connected to the computer

Delete the current page

Use the magnifier to display an enlarged view of the image at the center of the screen

Display a cursor that you can use to adjust the size or position of an inserted image

Display additional tools for saving, printing, and more

Insert a circle, square, triangle, or other shape

**Parent topic:** Using the Easy Interactive Tools for Whiteboard Mode

**Using the Shapes Tool in Whiteboard Mode**

You can add a variety of shapes to your projected image and select the color and line width.

1. Select the Shapes tool.
   
   The Shapes box opens:
2. Select the line width, color, and shape you want to create, or select the Line tool to define your own shape.

3. Drag the pen on the projection surface to draw the shape you want.

**Parent topic:** Using the Easy Interactive Tools for Whiteboard Mode

**Using Easy Interactive Tools for Saving, Printing, and More**

Follow the instructions in these sections to use the tools that let you save and print your annotated pages, adjust settings, access help, and perform other special functions.

**Easy Interactive Tools for Saving, Printing, and More**
Working With the Page List
Saving Your Pages
Selecting Language and General Settings

**Parent topic:** Easy Interactive Tools

**Easy Interactive Tools for Saving, Printing, and More**

To display the additional tools shown here, select the Other tools icon on the interactive or whiteboard toolbar.

**Note:** Only the first 4 tools are available in whiteboard mode.
Display a spotlight effect that hides most of the image and reveals a circular area. Drag the spotlight frame to reveal different parts of the image.

Cover the projected image with a shade. Drag the sides to move or resize the shaded area.

Print the currently displayed image. In whiteboard mode, you can print all of the current pages or select the ones you want.

Open the settings screen, which lets you select general settings, language, and settings for saving your pages.

Change the next pen tap to a right-click (interactive mouse mode only)

Display Help information for Easy Interactive Tools (interactive mouse mode only)

**Parent topic:** Using Easy Interactive Tools for Saving, Printing, and More

**Working With the Page List**

You can display thumbnail images of the pages you are working with in the current Easy Interactive Tools session.

1. Select the Page list tool.

   Thumbnail images of the current pages open on the side of your screen:
2. Do one of the following:
   • To keep the page list open, select the icon.
   • To close the page list, select the X in the upper right corner.

Parent topic: Using Easy Interactive Tools for Saving, Printing, and More

Saving Your Pages

You can save your screen or pages as .jpg, .bmp, .png, or .pdf files and select the location where you want to store your files.

To save as .jpg files in your Documents > Easy Interactive Tools folder, simply select the Save tool. Easy Interactive Tools names your file automatically based on the date and time. You can save the
current screen with annotations in interactive mode, or all the pages in the current session in whiteboard mode.

You can also select other locations and formats for saving your files, as described here. If you save as PDF, for example, all your whiteboard pages are combined in one file.

1. Select the Keyboard tool.
   The on-screen keyboard is displayed.

2. Select the Other tools icon.
   You see additional tools.

3. Select the Settings tool.
   The Settings window opens.

4. Select the **Save Settings** tab.
   You see a screen like the following:
5. Select the location, file name, and file type for saving annotation mode and whiteboard mode pages. Easy Interactive Tools will automatically add the date and time to each file you save.

6. If you want to select different settings each time you save, select the Check when saving checkbox.

7. Select OK to close the Settings window.

8. When you want to save, select the Save tool.

   If you selected Check when saving, the on-screen keyboard is displayed, along with a window like the following:
9. Select the location and file type and enter a file name using the on-screen keyboard if necessary.
10. Select Save.

**Parent topic:** Using Easy Interactive Tools for Saving, Printing, and More

**Selecting Language and General Settings**

You can change the following settings in Easy Interactive Tools:

- Toolbar size
- Page list display position
- Spotlight shape
- Language (Windows only)

1. Select the ![Other tools icon](image)
   You see additional tools.

2. Select the ![Settings icon](image)
   The Settings window opens.
3. Select the toolbar size, page list display position, and spotlight shape.

4. If you want to change the language, select the Language settings tab, then select the language you want.

5. Select OK to close the Settings window.

Parent topic: Using Easy Interactive Tools for Saving, Printing, and More

Windows Tablet PC and Ink Tools

If you are using Windows 7 or Windows Vista, you can use the Tablet PC and Ink tools to add handwritten input and annotations to your work.

Using Windows Tablet PC and Ink Features

Parent topic: Using the Interactive Pens
Using Windows Tablet PC and Ink Features

If you are using Windows 7 or Windows Vista, you can use the Tablet PC input panel to add handwritten input and convert it to text.

If you have Microsoft Office 2003 or later, you can also use the Ink function to add handwritten notes to a Word document, Excel spreadsheet, or PowerPoint presentation.

Note: Option names for the annotation functions may vary depending on your version of Microsoft Office.

- To open the Tablet PC input panel, select ➔ All Programs > Accessories > Tablet PC > Tablet PC Input Panel.

You can write in the box using the pen, then select from a variety of options to edit and convert the text.

- To add Ink annotations in Microsoft Office applications, select the Review menu, then select Start Inking.

You can select from a variety of Ink Tools:
• To annotate your PowerPoint slides in Slideshow mode, press and hold the pen against the projection surface to right-click, then select **Pointer Options > Pen** from the pop-up menu.

  **Note:** This also works in Windows XP.

For more information about these features, see your Windows Help.

**Parent topic:** [Windows Tablet PC and Ink Tools](#)
Adjusting the Menu Settings

Follow the instructions in these sections to access the projector menu system and change projector settings.

Using the Projector's Menus
Image Quality Settings - Image Menu
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu
Projector Setup Settings - Extended Menu
Projector Network Settings - Network Menu
Projector Information Display - Info Menu
Projector Reset Options - Reset Menu

Using the Projector's Menus

You can use the projector's menus to adjust the settings that control how your projector works. The projector displays the menus on the screen.

1. Press the **Menu** button on the control panel or remote control.

You see the menu screen displaying the Image menu settings.
2. Press the up or down arrow buttons to move through the menus listed on the left. The settings for each menu are displayed on the right.

   **Note:** The available settings depend on the current input source.

3. To change settings in the displayed menu, press Enter.
4. Press the up or down arrow button to move through the settings.
5. Change the settings using the buttons listed on the bottom of the menu screens.
6. To return all the menu settings to their default values, select Reset.
7. When you finish changing settings on a menu, press Esc.
8. Press Menu or Esc to exit the menus.

**Parent topic:** Adjusting the Menu Settings

---

**Image Quality Settings - Image Menu**

Settings on the Image menu let you adjust the quality of your image for the input source you are currently using. The available settings depend on the currently selected input source.
To change settings for an input source, make sure the source is connected and select that source.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Mode</td>
<td>See the list of available Color Modes</td>
<td>Adjusts the vividness of image colors for various image types and environments</td>
</tr>
<tr>
<td>Brightness</td>
<td>Varying levels available</td>
<td>Lightens or darkens the overall image</td>
</tr>
<tr>
<td>Contrast</td>
<td>Varying levels available</td>
<td>Adjusts the difference between light and dark areas of the image</td>
</tr>
<tr>
<td>Color Saturation</td>
<td>Varying levels available</td>
<td>Adjusts the intensity of the image colors</td>
</tr>
<tr>
<td>Tint</td>
<td>Varying levels available</td>
<td>Adjusts the balance of green to magenta tones in the image</td>
</tr>
<tr>
<td>Sharpness</td>
<td>Varying levels available</td>
<td>Adjusts the sharpness or softness of image details</td>
</tr>
<tr>
<td>Abs. Color Temp. (absolute color temperature)</td>
<td>5000 to 10000 °K (Kelvin)</td>
<td>Sets the color tone based on color temperature</td>
</tr>
<tr>
<td>Color Adjustment</td>
<td>Slider bars for each color</td>
<td>Adjusts the intensity of individual hues in the image</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>---------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Auto Iris</td>
<td>On, Off</td>
<td>Adjusts the projected luminance based on the image brightness when certain Color Modes are selected</td>
</tr>
</tbody>
</table>

**Note:** The **Brightness** setting does not affect lamp brightness. To change the lamp brightness mode, use the **Power Consumption** setting.

**Parent topic:** Adjusting the Menu Settings

**Related references**

Available Color Modes

### Input Signal Settings - Signal Menu

Normally the projector detects and optimizes the input signal settings automatically. If you need to customize the settings, you can use the Signal menu. The available settings depend on the currently selected input source.

![Signal Menu](image)

**Note:** You can restore the default settings of the **Position**, **Tracking**, and **Sync** settings by pressing the **Auto** button on the remote control.

To change settings for an input source, make sure the source is connected and select that source.

---

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<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Setup</td>
<td>On, Off</td>
<td>Automatically optimizes computer image quality (when On)</td>
</tr>
<tr>
<td>Resolution</td>
<td>Auto, Normal, Wide</td>
<td>Sets the input signal resolution if not detected automatically using the Auto option</td>
</tr>
<tr>
<td>Tracking</td>
<td>Varying levels available</td>
<td>Adjusts signal to eliminate vertical stripes in computer images</td>
</tr>
<tr>
<td>Sync.</td>
<td>Varying levels available</td>
<td>Adjusts signal to eliminate fuzziness or flickering in computer images</td>
</tr>
<tr>
<td>Position</td>
<td>Up, down, left, right</td>
<td>Adjusts the image location on the screen</td>
</tr>
<tr>
<td>Progressive</td>
<td>Off, Video, Film/Auto</td>
<td>Sets whether to convert interlaced-to-progressive signals for certain video image types</td>
</tr>
<tr>
<td>Noise Reduction</td>
<td>Off, NR1, NR2</td>
<td>Reduces flickering in analog images in two levels</td>
</tr>
<tr>
<td>HDMI Video Range</td>
<td>Normal, Expanded, Auto</td>
<td>Sets the video range to match the setting of the device connected to the HDMI input port</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Input Signal</td>
<td>Auto&lt;br&gt;RGB&lt;br&gt;Component</td>
<td>Specifies the signal type from input sources connected to computer ports</td>
</tr>
<tr>
<td></td>
<td>Auto</td>
<td>Auto: detects signals automatically</td>
</tr>
<tr>
<td></td>
<td>RGB</td>
<td>RGB: corrects color for computer/RGB video inputs</td>
</tr>
<tr>
<td></td>
<td>Component</td>
<td>Component: corrects color for component video inputs</td>
</tr>
<tr>
<td>Video Signal</td>
<td>Auto&lt;br&gt;Various video standards</td>
<td>Specifies the signal type from the input sources connected to the video ports</td>
</tr>
<tr>
<td>Aspect</td>
<td>See the list of available aspect ratios</td>
<td>Sets the aspect ratio (width-to-height ratio) for the selected input source</td>
</tr>
</tbody>
</table>

Parent topic: Adjusting the Menu Settings

Related references
Available Image Aspect Ratios

Projector Feature Settings - Settings Menu

Options on the Settings menu let you customize various projector features.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keystone</td>
<td>H/V Keystone, Quick Corner</td>
<td>Adjusts image shape to rectangular (horizontally and vertically)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>H/V Keystone</strong>: lets you manually correct horizontal and vertical sides, or turn automatic correction on or off</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Quick Corner</strong>: select to correct image shape and alignment using an on-screen display</td>
</tr>
<tr>
<td>Zoom</td>
<td>Varying levels available</td>
<td>Adjusts the size of the projected image</td>
</tr>
<tr>
<td>Control Panel Lock</td>
<td>Full Lock, Partial Lock, Off</td>
<td>Controls projector button locking to secure the projector</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Full Lock</strong>: locks all buttons</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Partial Lock</strong>: locks all buttons except the power button</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Off</strong>: no buttons locked</td>
</tr>
<tr>
<td>Pointer Shape</td>
<td>Three shapes available</td>
<td>Changes the shape of the remote control pointer feature</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Normal</td>
<td>Selects the brightness mode of the projector lamp</td>
</tr>
<tr>
<td></td>
<td>ECO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Normal: sets maximum lamp brightness</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECO: reduces lamp brightness and fan noise, and saves power and lamp life</td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td>Varying levels available</td>
<td>Adjusts the volume of projector’s speaker system or external speakers</td>
</tr>
<tr>
<td>Mic Input Level</td>
<td>Varying levels available</td>
<td>Adjusts the volume of the projector’s speaker system when you use a connected microphone</td>
</tr>
<tr>
<td>Remote Receiver</td>
<td>Front</td>
<td>Limits reception of remote control signals by the selected receiver; Off turns off all receivers</td>
</tr>
<tr>
<td></td>
<td>Rear</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Front/Rear</td>
<td></td>
</tr>
<tr>
<td>User Button</td>
<td>Power Consumption</td>
<td>Assigns a menu option to the User button on the remote control for one-touch access</td>
</tr>
<tr>
<td></td>
<td>Info</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Progressive</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Closed Caption</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Test Pattern</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Resolution</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mic Input Level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pattern Display</td>
<td></td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>Pattern</td>
<td>Pattern Display&lt;br&gt;Pattern Type&lt;br&gt;User Pattern&lt;br&gt;Test Pattern</td>
<td>Selects various pattern display options&lt;br&gt;<strong>Pattern Display</strong>: lets you display the selected pattern type on the screen to aid in presentation&lt;br&gt;<strong>Pattern Type</strong>: selects the type of grid or line pattern to display&lt;br&gt;<strong>User Pattern</strong>: captures a projected screen and saves it as a pattern for display&lt;br&gt;<strong>Test Pattern</strong>: displays a test pattern to assist in focusing and zooming the image and correcting image shape</td>
</tr>
</tbody>
</table>

**Parent topic**: Adjusting the Menu Settings  
**Related references**  
Solutions When the Image is Not Rectangular  
**Related tasks**  
Correcting Image Shape with the Keystone Buttons  
Correcting Image Shape with Quick Corner

**Projector Setup Settings - Extended Menu**

Settings on the Extended menu let you customize various projector setup features that control its operation.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Messages</td>
<td>Selects various display options</td>
</tr>
<tr>
<td></td>
<td>Display Background</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Startup Screen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A/V Mute</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Messages</strong>: controls whether messages are displayed on the screen</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Display Background</strong>: selects the screen color or logo to display when no signal is received</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Startup Screen</strong>: controls whether a special screen appears when the projector starts up</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>A/V Mute</strong>: selects the screen color or logo to display when A/V Mute is turned on</td>
</tr>
<tr>
<td>Closed Caption</td>
<td>Off</td>
<td>Controls use of closed captions and selects the closed caption channel</td>
</tr>
<tr>
<td></td>
<td>CC1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC2</td>
<td></td>
</tr>
<tr>
<td>User's Logo</td>
<td></td>
<td>Creates a screen that the projector displays to identify itself and enhance security</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Projection</td>
<td>Front</td>
<td>Selects the way the projector faces the screen so the image is oriented correctly (rear settings cannot be used with the interactive pens)</td>
</tr>
<tr>
<td></td>
<td>Front/Ceiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rear</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rear Ceiling</td>
<td></td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Operation</td>
<td>Direct Power On</td>
<td>Selects various operation options</td>
</tr>
<tr>
<td></td>
<td>Sleep Mode</td>
<td>Direct Power On: lets you turn on the projector without pressing the power button</td>
</tr>
<tr>
<td></td>
<td>Sleep Mode Timer</td>
<td>Sleep Mode: automatically turns off the projector after an interval of inactivity</td>
</tr>
<tr>
<td></td>
<td>High Altitude Mode</td>
<td>High Altitude Mode: regulates the projector's operating temperature at altitudes above 4921 feet (1500 m)</td>
</tr>
<tr>
<td></td>
<td>Audio Input</td>
<td>Audio Input: specifies the audio input source if not detected automatically using the Auto option</td>
</tr>
<tr>
<td>Standby Mode</td>
<td>Communication On</td>
<td>Selects whether the following can occur when the projector is in standby mode (on) or not (off)</td>
</tr>
<tr>
<td></td>
<td>Communication Off</td>
<td>• Projector can be monitored over a network</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Display output signals on an external monitor from the Computer1 port</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Output audio from a connected microphone</td>
</tr>
<tr>
<td>Standby Microphone</td>
<td>On</td>
<td>Selects whether the projector can output audio from a connected microphone even when the projector is in standby mode</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Language</td>
<td>Various languages available</td>
<td>Selects the language for projector menu and message displays (not changed by Reset option)</td>
</tr>
</tbody>
</table>

Parent topic: Adjusting the Menu Settings

**Projector Network Settings - Network Menu**

Settings on the Network menu let you view network information and set up the projector for monitoring and control over a network.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net. Info - Wireless LAN</td>
<td>Connection mode, Antenna level, Projector Name, SSID, DHCP, IP Address, Subnet Mask, Gateway Address, MAC Address, Region Code</td>
<td>Displays wireless network status and details</td>
</tr>
<tr>
<td>Net. Info - Wired LAN</td>
<td>Projector Name, DHCP, IP Address, Subnet Mask, Gateway Address, MAC Address</td>
<td>Displays wired network status and details</td>
</tr>
<tr>
<td>Network Configuration</td>
<td>Accesses additional network menus</td>
<td>Configures your network settings</td>
</tr>
</tbody>
</table>

Parent topic: Adjusting the Menu Settings

Related concepts

Wired Network Projection
Wireless Network Projection

**Projector Information Display - Info Menu**

You can display information about the projector and input sources by viewing the Info menu. However, you cannot change any settings in the menu.
Note: Available settings depend on the current input source. The lamp usage timer does not register any hours until you have used the lamp for at least 10 hours.

<table>
<thead>
<tr>
<th>Information item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp Hours</td>
<td>Displays the number of hours (H) the lamp has been used in <strong>Normal</strong> and <strong>ECO</strong> Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon</td>
</tr>
<tr>
<td>Source</td>
<td>Displays the name of the port to which the current input source is connected</td>
</tr>
<tr>
<td>Input Signal</td>
<td>Displays the input signal setting of the current input source</td>
</tr>
<tr>
<td>Resolution</td>
<td>Displays the resolution of the current input source</td>
</tr>
<tr>
<td>Video Signal</td>
<td>Displays the video signal format of the current input source</td>
</tr>
<tr>
<td>Refresh Rate</td>
<td>Displays the refresh rate of the current input source</td>
</tr>
<tr>
<td>Sync Info</td>
<td>Displays information that may be needed by a service technician</td>
</tr>
<tr>
<td>Status</td>
<td>Displays information about projector problems that may be needed by a service technician</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Displays the projector's serial number</td>
</tr>
<tr>
<td>Event ID</td>
<td>Displays the Event ID number corresponding to a specific projector problem; see the list of Event ID codes</td>
</tr>
</tbody>
</table>
Event ID Code List

If the **Event ID** option on the Info menu displays a code number, check this list of Event ID codes for the solution to the projector problem associated with the code.

<table>
<thead>
<tr>
<th>Event ID code</th>
<th>Cause and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0432</td>
<td>The EasyMP Network Projection program did not start. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0435</td>
<td>Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.</td>
</tr>
<tr>
<td>0434</td>
<td>Cannot display the transferred images. Restart the EasyMP Network Projection program.</td>
</tr>
<tr>
<td>0433</td>
<td>Communication with computer was disconnected. Restart the EasyMP Network Projection program.</td>
</tr>
<tr>
<td>0482</td>
<td>The EasyMP Network Projection program quit unexpectedly. Check the network communication status, then turn the projector off and then on again.</td>
</tr>
<tr>
<td>0481</td>
<td>A projector system error has occurred. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0483</td>
<td>Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID.</td>
</tr>
<tr>
<td>0482</td>
<td>The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.</td>
</tr>
</tbody>
</table>
### Event ID code | Cause and solution
---|---
0893 | The WEP/TKIP/AES encryption type does not match. Make sure the wireless network security settings are correct.
0894 | Communication with unauthorized access point was disconnected. Contact your network administrator.
0898 | Failed to acquire DHCP. Make sure the DHCP server is operating correctly. If you are not using DHCP, turn off the DHCP setting in the Network menus.
0899 | A communication error has occurred. Try restarting the EasyMP Network Projection program and restarting your projector. If that does not solve the problem, contact Epson for help.

Parent topic: Projector Information Display - Info Menu

**Projector Reset Options - Reset Menu**

You can reset most of the projector settings to their default values using the **Reset All** option on the Reset menu.

You can also reset the projector's lamp usage timer to zero when you replace the lamp using the **Reset Lamp Hours** option.

You cannot reset the following settings using the **Reset All** option:

- Input Signal
• User’s Logo
• Language
• Network menu items
• Lamp Hours
• Password
• Zoom

Parent topic: Adjusting the Menu Settings
Maintaining and Transporting the Projector

Follow the instructions in these sections to maintain your projector and transport it from place to place.

Projector Maintenance
Transporting the Projector

Projector Maintenance

Your projector needs little maintenance to keep working at its best.
You may need to clean the lens periodically, and clean the air filter and air vents to prevent the projector from overheating due to blocked ventilation.
The only parts you should replace are the lamp, air filter, and remote control batteries. If any other part needs replacing, contact Epson or an authorized EPSON servicer.

Warning: Before cleaning any part of the projector, turn it off and unplug the power cord. Never open any cover on the projector, except as specifically explained in this manual. Dangerous electrical voltages in the projector can injure you severely.

Warning: Do not try to service this product yourself, except as specifically explained in this manual. Refer all other servicing to qualified servicers.

Cleaning the Lens and Receiver Window
Cleaning the Projector Case
Air Filter and Vent Maintenance
Projector Lamp Maintenance
Replacing the Remote Control Batteries
Replacing the Pen Batteries
Parent topic: Maintaining and Transporting the Projector

Cleaning the Lens and Receiver Window

Clean the projector's lens and the interactive module's receiver window periodically, or whenever you notice dust or smudges on either surface.

• To remove dust or smudges, gently wipe the lens or receiver window with lens-cleaning paper.
• To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the lens or receiver window. Do not spray any liquid directly on the lens or receiver window.

**Warning:** Do not use a lens cleaner that contains flammable gas. The high heat generated by the projector lamp may cause a fire.

**Caution:** Do not use glass cleaner to clean the lens or receiver window, or you may damage them. Do not use canned air, or the gases may leave a residue. Avoid touching the lens or receiver window with your bare hands to prevent fingerprints on or damage to either surface.

**Parent topic:** Projector Maintenance

### Cleaning the Projector Case

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

• To remove dust or dirt, use a soft, dry, lint-free cloth.

• To remove stubborn dirt, use a soft cloth moistened with water and mild soap. Do not spray liquid directly on the projector.

**Caution:** Do not use wax, alcohol, benzene, paint thinner, or other chemicals to clean the projector case. These can damage the case. Do not use canned air, or the gases may leave a residue.

**Parent topic:** Projector Maintenance

### Air Filter and Vent Maintenance

The projector’s air filter keeps the intake air clean. If dust collects on the air filter or vents, clean them as described in this manual. Dust clogs may cause the projector to overheat due to improper ventilation.

Be sure to clean the air filter and vents if you see a message telling you to do so. Also make sure nothing blocks the vents.

**Cleaning the Air Filter and Vents**

**Replacing the Air Filter**

**Parent topic:** Projector Maintenance

### Cleaning the Air Filter and Vents

Clean the projector’s air filter or vents if they get dusty, or if you see a message telling you to clean them.

1. Turn off the projector and unplug the power cord.
2. Gently remove the dust using a small vacuum designed for computers or a very soft brush (such as a paintbrush).

![Image of a projector with dust on the air filter]

**Note:** You can remove the air filter so you can clean both sides of it. Do not rinse the air filter in water, or use any detergent or solvent to clean it.

**Caution:** Do not use canned air, or the gases may leave a residue.

3. If dust is difficult to remove or the air filter is damaged, replace the air filter.

**Parent topic:** Air Filter and Vent Maintenance

### Replacing the Air Filter

You need to replace the air filter in the following situations:

- After cleaning the air filter, you see a message telling you to clean or replace it
- The air filter is torn or damaged

You can replace the air filter while the projector is mounted on the wall or ceiling.

1. Turn off the projector and unplug the power cord.
2. Push the tab on the air filter cover and open the cover.

3. Pull the air filter out of the projector.

**Note:** Air filters contain polypropylene. Dispose of used air filters according to local regulations.
4. Place the new air filter in the projector as shown.

5. Close the air filter cover.

Parent topic: Air Filter and Vent Maintenance

Projector Lamp Maintenance

The projector keeps track of the number of hours the lamp is used and displays this information in the projector’s menu system.
Replace the lamp as soon as possible when the following occurs:

- The projected image gets darker or starts to deteriorate
- A message appears when you turn on the projector telling you to replace the lamp
- The projector's lamp light is flashing orange

Replacing the Lamp
Resetting the Lamp Timer

Parent topic: Projector Maintenance

Related references
Optional Equipment and Replacement Parts
Projector Lamp Specifications
Projector Information Display - Info Menu

Replacing the Lamp

Before you replace the lamp, let the projector cool down for at least one hour so the lamp will not be hot.

Warning: Let the lamp fully cool before replacing it to avoid injury.

You can replace the lamp while the projector is mounted to the ceiling, if necessary.

1. Turn off the projector and unplug the power cord.
2. Allow the projector lamp to cool down for at least one hour.
3. Use the screwdriver included with the replacement lamp to loosen the screw securing the lamp cover.

**Warning:** If the lamp is broken, glass fragments may be loose inside the lamp chamber. Be careful removing any broken glass to avoid injury.

4. Slide the lamp cover out and lift it off.
5. Loosen the screws securing the lamp to the projector. The screws do not come all the way out.

6. Lift up the lamp handle and gently pull the lamp out of the projector.
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.

7. Gently insert the new lamp into the projector. If it does not fit easily, make sure it is facing the right way. Press the handle down.

Caution: Do not touch any glass on the lamp assembly to avoid premature lamp failure.
8. Push in the lamp firmly and tighten the screws to secure it.

9. Replace the lamp cover and tighten the screw to secure it.

Note: Be sure the lamp cover is securely installed or the lamp will not come on.
Reset the lamp timer to zero to keep track of the new lamp’s usage.

**Parent topic:** Projector Lamp Maintenance

**Related tasks**

Resetting the Lamp Timer

**Resetting the Lamp Timer**

You must reset the lamp timer after replacing the projector’s lamp to clear the lamp replacement message and to keep track of lamp usage correctly.

**Note:** Do not reset the lamp timer if you have not replaced the lamp to avoid inaccurate lamp usage information.

1. Turn on the projector.
2. Press the **Menu** button.
3. Select the **Reset** menu and press **Enter**.
4. Select **Reset Lamp Hours** and press **Enter**.
   You see a prompt asking if you want to reset the lamp hours.
5. Select **Yes** and press **Enter**.
6. Press **Menu** or **Esc** to exit the menus.

**Parent topic:** Projector Lamp Maintenance
Replacing the Remote Control Batteries

The remote control uses two AA manganese or alkaline batteries. Replace the batteries as soon as they run out.

**Caution:** Use only the type of batteries specified in this manual. Do not install batteries of different types, or mix new and old batteries.

1. Open the battery cover as shown.

2. Remove the old batteries.

**Warning:** If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.
3. Insert the batteries with the + and – ends facing as shown.

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

**Warning:** Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

**Parent topic:** Projector Maintenance

**Related references**
Remote Control Operation
Replacing the Pen Batteries

To check the pen batteries, press the button on the pen. If the indicator light is green, the batteries have enough power.

If you need to replace the batteries, use two AAA rechargeable or alkaline batteries.

**Caution:** Use only the type of batteries specified in this manual.

1. Press in the tab on the battery cover and lift the cover off.

2. Remove the old batteries.

   **Warning:** If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.

3. Insert the batteries with the + and – ends facing as shown.
4. Replace the battery cover and press it down until it clicks into place.

**Warning:** Dispose of used batteries according to local regulations. Do not expose batteries to heat or flame. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed.

**Parent topic:** Projector Maintenance

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**Transporting the Projector**

The projector contains precision parts, some of which are glass. Follow these guidelines to transport or ship the projector safely:

- Remove any equipment connected to the projector.
- When transporting the projector a long distance or as checked luggage, pack it in a firm box with cushioning around it and mark the box "Fragile."
- When shipping the projector for repairs, place it in its original packing materials, if possible, or use equivalent materials with cushioning around the projector. Mark the box "Fragile."

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

**Parent topic:** Maintaining and Transporting the Projector
Solving Problems

Check the solutions in these sections if you have any problems using the projector.

Projection Problem Tips
Projector Light Status
Using the Projector Help Displays
Solving Image or Sound Problems
Solving Projector or Remote Control Operation Problems
Solving Interactive Pen Problems
Solutions When Network Alert E-Mails are Not Received
Where to Get Help

Projection Problem Tips

If the projector is not working properly, try turning it off and unplugging it. Then plug it back in and turn it on.

If this does not solve the problem, check the following:

• The lights on the projector may indicate what the problem is.
• The projector’s Help system can display information about common problems, if the projector is operating.
• The solutions in this manual can help you solve many problems.

If none of these solutions help, you can contact Epson for technical support.

Parent topic: Solving Problems

Projector Light Status

The lights on the projector’s control panel indicate the projector status and let you know when a problem occurs. Check the status and color of the lights and look for a solution in the table below.
1  Power light  
2  Lamp light  
3  Temperature light  

<table>
<thead>
<tr>
<th>Power light</th>
<th>Lamp light</th>
<th>Temperature light</th>
<th>Status and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Off</td>
<td>Off</td>
<td>Normal operation.</td>
</tr>
<tr>
<td>Flashing green</td>
<td>Off</td>
<td>Off</td>
<td>Warming up. Wait for an image to appear.</td>
</tr>
<tr>
<td>Orange</td>
<td>Off</td>
<td>Off</td>
<td>Standby or sleep mode.</td>
</tr>
<tr>
<td>Flashing orange</td>
<td>Off</td>
<td>Off</td>
<td>Preparing network monitoring or shutting down. (Wait for the light to remain orange before unplugging the projector.)</td>
</tr>
<tr>
<td>Flashing red</td>
<td>Off</td>
<td>Flashing orange</td>
<td>Projector is too hot.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Make sure the environmental temperature is not too hot.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• If overheating continues, replace the air filter.</td>
</tr>
<tr>
<td>Power light</td>
<td>Lamp light</td>
<td>Temperature light</td>
<td>Status and solution</td>
</tr>
<tr>
<td>-------------</td>
<td>------------</td>
<td>-------------------</td>
<td>---------------------</td>
</tr>
</tbody>
</table>
| Red         | Off        | Red               | Projector has overheated and turned off. Leave it turned off to cool down for five minutes.  
• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.  
• If operating the projector at high altitude, turn on **High Altitude Mode**.  
• If overheating continues, replace the air filter.  
• If the problem persists, unplug the projector and contact Epson for help. |
| Red         | Flashing red | Off               | Lamp has a problem.  
• Check to see if the lamp is burned out, broken, or installed incorrectly. Reseat or replace the lamp as necessary.  
• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.  
• If operating the projector at high altitude, turn on **High Altitude Mode**.  
• If the problem persists, unplug the projector and contact Epson for help. |
| On          | Flashing orange | Off               | Replace the lamp soon to avoid damage. Do not continue using the projector. |
| Red         | Off        | Flashing red      | A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help. |
| Red or flashing red | Flashing red | Flashing red      | Internal projector error. Turn the projector off, unplug it, and contact Epson for help. |

**Note:** If the lights display a pattern not listed in the table above, turn the projector off, unplug it, and contact Epson for help.

**Parent topic:** Solving Problems
Using the Projector Help Displays

You can display information to help you solve common problems using the projector's Help system.

1. Turn on the projector.
2. Press the Help button on the projector or the remote control.
   You see the Help menu.
3. Use the up and down arrow buttons to highlight the problem you want to solve.
4. Press Enter to view the solutions.
5. When you are finished, do one of the following:
   • To select another problem to solve, press Esc.
   • To exit the help system, press Help.

Parent topic: Solving Problems

Solving Image or Sound Problems

Check the solutions in these sections if you have any problems with projected images or sound.

Solutions When No Image Appears
Solutions When Image is Incorrect Using the USB Display Function
Solutions When "No Signal" Message Appears
Solutions When "Not Supported" Message Appears
Solutions When Only a Partial Image Appears
Solutions When the Image is Not Rectangular
Solutions When the Image Contains Noise or Static
Solutions When the Image is Fuzzy or Blurry
Solutions When the Image Brightness or Colors are Incorrect
Solutions When No Image Appears

If no image appears, try the following solutions:

- Make sure the lens cover is open or off.
- Press the A/V Mute button on the remote control to see if the image was temporarily turned off.
- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- Press the projector's power button to wake it from standby or sleep mode. Also see if your connected computer is in sleep mode or displaying a blank screen saver.
- Check the settings on the Signal menu to make sure they are correct for the current video source.
- Adjust the Brightness setting or select the Normal Power Consumption setting.
- Check the Display setting to make sure Messages is set to On.
- If the projector does not respond when you press the control panel buttons, the buttons may be locked. Unlock the buttons.
- If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

Related references

Projector Setup Settings - Extended Menu
Image Quality Settings - Image Menu
Input Signal Settings - Signal Menu
Projector Feature Settings - Settings Menu

Related tasks
Unlocking the Projector's Buttons
Solutions When Image is Incorrect Using the USB Display Function

If no image appears or if the image appears incorrectly using the USB Display function, try the following solutions:

• Press the **USB** button on the remote control.
• Make sure the USB Display software has installed correctly. Install it manually if necessary.
• With Mac OS X, select the **USB Display** icon in the Dock or from the **Applications** folder.
• With Windows Media Center, reduce the screen size from full screen mode.
• With Windows DirectX, turn off DirectX functions.
• If the mouse cursor flickers, select **Make the movement of the mouse pointer smooth** in the EPSON USB Display Settings program on your computer.
• Turn off the **Transfer layered window** setting in the EPSON USB Display Settings program on your computer.

**Parent topic:** Solving Image or Sound Problems

**Related references**

*Projector Setup Settings - Extended Menu*

Solutions When "No Signal" Message Appears

If the "No Signal" message appears, try the following solutions:

• Press the **Source Search** button and wait a few seconds for an image to appear.
• Turn on the connected computer or video source, and press its play button to begin your presentation, if necessary.
• Check the connection from the projector to your video sources.
• If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
• If necessary, turn the projector and the connected computer or video source off and then on again.

*Displaying From a PC Laptop*

*Displaying From a Mac Laptop*

**Parent topic:** Solving Image or Sound Problems

Displaying From a PC Laptop

If you see the "No Signal" message when you display from a PC laptop, you need to set up the laptop to display on an external monitor.
1. Hold down the laptop’s **Fn** key and press the key labelled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear.

2. To display on both the laptop's monitor and the projector, try pressing the same keys again.

3. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled. (See your computer or Windows manual for instructions.)

4. If necessary, check your video card settings and set the multiple display option to **Clone**.

**Parent topic:** Solutions When "No Signal" Message Appears

### Displaying From a Mac Laptop

If you see the "No Signal" message when you display from a Mac laptop, you need to set up the laptop for mirrored display. (See your laptop manual for details.)

1. Open the **System Preferences** utility and select **Displays**.
2. Select the **VGA Display** or **Color LCD** option, if necessary.
3. Click the **Arrange or Arrangement** tab.
4. Select the **Mirror Displays** checkbox.

**Parent topic:** Solutions When "No Signal" Message Appears

### Solutions When "Not Supported" Message Appears

If the "Not Supported" message appears, try the following solutions:

- Make sure the correct input signal is selected on the Signal menu.
- Make sure the computer’s display resolution does not exceed the projector’s resolution and frequency limit. If necessary, select a different display resolution for your computer. (See your computer manual for details.)

**Parent topic:** Solving Image or Sound Problems

**Related references**

- [Input Signal Settings - Signal Menu](#)
- [Supported Video Display Formats](#)

### Solutions When Only a Partial Image Appears

If only a partial computer image appears, try the following solutions:

- Press the **Auto** button on the remote control to optimize the image signal.
• Try adjusting the image position using the **Position** menu setting.
• Press the **Aspect** button on the remote control to select a different image aspect ratio.
• If you zoomed into or out of the image using the **E-Zoom** buttons, press the **Esc** button twice to return to a full display.
• Check your computer display settings to disable dual display and set the resolution within the projector’s limits. (See your computer manual for details.)
• Check the resolution assigned to your presentation files to see if they are created for a different resolution than you are projecting in. (See your software help for details.)

**Parent topic:** Solving Image or Sound Problems

**Related references**
- [Input Signal Settings - Signal Menu](#)
- [Supported Video Display Formats](#)

**Solutions When the Image is Not Rectangular**

If the projected image is not evenly rectangular, try the following solutions:
• If the projector is not mounted on the wall or ceiling, place it directly in front of the center of the screen, facing it squarely, if possible.
• Adjust the **Quick Corner** or **Keystone** setting to correct the image shape.

**Parent topic:** Solving Image or Sound Problems

**Related references**
- [Projector Feature Settings - Settings Menu](#)

**Related tasks**
- [Correcting Image Shape with the Keystone Buttons](#)
- [Correcting Image Shape with Quick Corner](#)

**Solutions When the Image Contains Noise or Static**

If the projected image seems to contain electronic interference (noise) or static, try the following solutions:
• Check the cables connecting your computer or video source to the projector. They should be:
  • Separated from the power cord to prevent interference
  • Securely connected at both ends
• Not connected to an extension cable
• Check the settings on the projector’s Signal menu to make sure they match the video source. If available for your video source, adjust the **Progressive** and **Noise Reduction** settings.
• Select a computer video resolution that is compatible with the projector.
• If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the **Tracking** and **Sync** settings.
• If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting to improve image quality.
• If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.

**Parent topic:** Solving Image or Sound Problems

**Related references**

- Input Signal Settings - Signal Menu
- Supported Video Display Formats

**Related tasks**

- Displaying From a PC Laptop
- Displaying From a Mac Laptop

### Solutions When the Image is Fuzzy or Blurry

If the projected image is fuzzy or blurry, try the following solutions:

• Adjust the image focus.
• Clean the projector lens.
• Position the projector close enough to the screen, and directly in front of it.
• Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
• Adjust the **Sharpness** setting to improve image quality.
• If you are projecting from a computer, press the **Auto** button on the remote control to automatically adjust the tracking and sync. If any bands or overall blurriness remains, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync** settings.

**Parent topic:** Solving Image or Sound Problems

**Related references**

- Input Signal Settings - Signal Menu
Solutions When the Image Brightness or Colors are Incorrect

If the projected image is too dark or light, or the colors are incorrect, try the following solutions:

- Press the **Color Mode** button on the remote control to try different color modes for the image and environment.
- Adjust the available settings on the Image menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, **Color Adjustment**, and/or **Color Saturation**.
- Make sure you selected the correct input source on the Signal menu.
- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.
- If the colors are incorrect from a video source, make sure you selected the correct **Video Signal** setting.
- If you are using the **ECO** Power Consumption setting, try selecting **Normal** in the Settings menu.
- If the image has been progressively darkening, you may need to replace the projector lamp soon.

Parent topic: Solving Image or Sound Problems

Related concepts
Projector Lamp Maintenance

Related references
- Input Signal Settings - Signal Menu
- Image Quality Settings - Image Menu
- Projector Feature Settings - Settings Menu

Solutions When There is No Sound or Low Volume

If there is no sound when you expect it or the volume is too low, try the following solutions:

- Adjust the projector's volume settings.
- Press the **A/V Mute** button on the remote control to resume video and audio if they were temporarily stopped.
• Press the **Source Search** button to switch to the correct input source, if necessary.
• Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
• Check the audio cable connections between the projector and your video source.
• If you do not hear sound from an HDMI source, set the connected device to PCM output.
• Make sure any connected audio cables are labelled "No Resistance".
• If you are using the USB Display function, turn on the **Output audio from the projector** setting in the EPSON USB Display Settings program on your computer.
• If you are using a Mac and you do not hear sound from an HDMI source, make sure your Mac supports audio through the HDMI port. If not, you need to connect an audio cable.
• If you want to use a connected audio source when the projector is off, set the **Standby Mode** option to **Communication On** and turn on the **Standby Audio** option.

**Parent topic:** [Solving Image or Sound Problems](#)

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**Solutions to Microphone Problems**

If there is no sound when you use a microphone connected to the projector, try the following solutions:

• Make sure the microphone is securely connected to the projector.
• Make sure you are using a dynamic microphone, not a condenser microphone.
• Adjust the **Mic Input Level** setting as necessary in the projector’s menus.
• If you want to use the microphone when the projector is off, set the **Standby Mode** option to **Communication On** and turn on the **Standby Microphone** option.

**Parent topic:** [Solving Image or Sound Problems](#)

**Related references**

- [Projector Feature Settings - Settings Menu](#)
- [Projector Setup Settings - Extended Menu](#)

**Related tasks**

- [Connecting a Microphone](#)

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**Solving Projector or Remote Control Operation Problems**

Check the solutions in these sections if you have problems operating the projector or remote control.

**Solutions to Projector Power or Shut-Off Problems**

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Solutions to Problems with the Remote Control

Solutions to Password Problems

Parent topic: Solving Problems

Solutions to Projector Power or Shut-Off Problems

If the projector does not come on when you press the power button or it shuts off unexpectedly, try the following solutions:

• Make sure the power cord is securely connected to the projector and to a working electrical outlet.

• The projector’s buttons may be locked for security. Unlock the buttons or use the remote control to turn on the projector.

• The power cord may be defective. Disconnect the cord and contact Epson.

• If the projector’s lamp shuts off unexpectedly, it may have entered sleep mode after a period of inactivity. Begin a presentation to wake the projector.

• If the projector’s lamp shuts off and the power and Temp lights are red, the projector has overheated and shut off. Check the solutions for this light status.

• If the power button on the remote control does not turn on the projector, check its batteries and make sure the Remote Receivers setting is turned on in the projector’s menus, if available.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references

Projector Feature Settings - Settings Menu
Projector Light Status

Related tasks

Unlocking the Projector’s Buttons

Solutions to Problems with the Remote Control

If the projector does not respond to remote control commands, try the following solutions:

• Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.

• Make sure you are operating the remote control within the reception angle and range of the projector.

• Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.
- Strong fluorescent lighting, direct sunlight, or infrared device signals may be interfering with the projector's remote receivers. Dim the lights or move the projector away from the sun or interfering equipment.
- If available, turn off one of the remote receivers in the projector's menu system, or check if all the remote receivers were turned off.
- If you assigned an ID number to the remote control to operate multiple projectors, you may need to check or change the ID setting (feature not available with all projectors).
- If you lose the remote control, you can order another one from Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

Related references
Projector Feature Settings - Settings Menu
Optional Equipment and Replacement Parts
Remote Control Operation

Solutions to Password Problems

If you cannot enter or remember a password, try the following solutions:
- You may have turned on password protection without first setting a password. Try entering 0000 using the remote control.
- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson.
- If you lose the remote control you cannot enter a password. Order a new one from Epson.

Parent topic: Solving Projector or Remote Control Operation Problems

Solving Interactive Pen Problems

Check the solutions in these sections if you have problems using the interactive pens.

- Solutions When "Hardware Device Not Found" Message Appears
- Solutions When "Error Occurred in the Easy Interactive Function" Message Appears
- Solutions When the Interactive Pens Do Not Work
- Solutions When Calibration is Difficult
- Solutions When the Interactive Pen Position Is Not Accurate
- Solutions When the Interactive Pens are Slow or Difficult to Use

Parent topic: Solving Problems
Solutions When "Hardware Device Not Found" Message Appears
If the "Hardware device not found" message appears, try the following solutions:
• Check the USB cable connection from the interactive module to your computer. Try disconnecting and then reconnecting the cable.
• If you are projecting from a laptop computer, make sure the battery has enough power, or connect the laptop to a power outlet.

Parent topic: Solving Interactive Pen Problems
Related tasks
Connecting to the Interactive Module

Solutions When "Error Occurred in the Easy Interactive Function" Message Appears
If the "Error occurred in the Easy Interactive Function" message appears, contact Epson for help.

Parent topic: Solving Interactive Pen Problems
Related references
Where to Get Help

Solutions When the Interactive Pens Do Not Work
If the pens do not work, try the following solutions:
• Make sure nothing is blocking the signal between the pen and the interactive module on the projector.
• Try holding the pen at a different angle so that your hand is not blocking the signal.
• Make sure the pen batteries have enough power. If the light on the pen doesn't turn green when you press the button, you need to replace the batteries.
• Make sure Easy Interactive Driver is installed and running on your computer. You should see the icon in your taskbar (Windows) or in the Dock (Mac OS X).
   If you don't see the icon, do one of the following to start Easy Interactive Driver:
   • **Windows**: Select or Start > All Programs or Programs > EPSON Projector > Easy Interactive Driver.
   • **Mac OS X**: Open the Applications folder, then select the Easy Interactive Driver icon.
   If the icon has a red X above it ( ), make sure the USB cable is securely connected to your computer and the interactive module. If necessary, try disconnecting and reconnecting the USB cable to your computer.
• Dim the room lights and turn off any fluorescent lights. Make sure the projection surface and interactive module are not in direct sunlight or other sources of bright lighting.
• Make sure the receiver window on the interactive module is clean and free from dust.
• Make sure there is no interference from infrared devices such as infrared remote controls, infrared microphones, and infrared mice.
• Make sure the location is free from electromagnetic interference from nearby equipment (such as electric motors or transformers).
• Make sure you have calibrated the system. Try recalibrating.

Note: You cannot use both pens at the same time.

Parent topic: Solving Interactive Pen Problems
Related tasks
Replacing the Pen Batteries
Installing Easy Interactive Driver
Checking the Connection Status of the Interactive Module
Calibrating the Projector
Using the Pens

Solutions When Calibration is Difficult
If you are having trouble calibrating, try the following solutions:
• Try restarting the Easy Interactive Driver.
• If the flashing circles don’t appear when you try to calibrate, make sure the USB cable from the interactive module is securely connected to the computer.
• If the circles don’t stop flashing and don’t turn black (or they stop flashing and turn black automatically), dim or turn off any bright lights near the projection surface.

Parent topic: Solving Interactive Pen Problems
Related tasks
Connecting to the Interactive Module
Checking the Connection Status of the Interactive Module
Solutions When the Interactive Pen Position Is Not Accurate

If the pen position is not the same as the cursor, try the following solutions:

• Try recalibrating.
• If you use the E-Zoom + button on the remote control to enlarge the image, the pen position is not accurate. When you return to the original size, the position should be correct.

Parent topic: Solving Interactive Pen Problems
Related tasks
Calibrating the Projector

Solutions When the Interactive Pens are Slow or Difficult to Use

If the pens are difficult to use or respond too slowly, try the following solutions:

• For easier operation, hold the pen at an angle to the projection surface.
• For the best performance, connect your computer to the projector using an HDMI or VGA cable. Using a USB cable to display your computer image (USB Display) may slow interactive pen function.
• Dim the room lights and turn off any fluorescent lights. Make sure the projection surface and interactive module are not in direct sunlight or other sources of bright lighting.
• Make sure the receiver window on the interactive module is clean and free from dust.
• Make sure there is no interference from infrared devices such as infrared remote controls, infrared microphones, and infrared mice.
• Make sure the location is free from electromagnetic interference from nearby equipment (such as electric motors or transformers).
• Make sure you have calibrated the system. Try recalibrating.

Parent topic: Solving Interactive Pen Problems
Related tasks
Connecting to a Computer for VGA Video
Connecting to a Computer for HDMI Video and Audio
Calibrating the Projector
Solutions When Network Alert E-Mails are Not Received

If you do not receive an e-mail alerting you to problems with a projector over the network, try the following solutions:

• Make sure the projector is turned on and connected to the network correctly. (If an error shut down the projector, it cannot send an e-mail.)
• Make sure you set up the projector e-mail alert settings correctly on the projector's network Mail menu or in the network software.
• Set the Standby Mode setting to Communication On so the network software can monitor the projector in standby mode.

Related concepts
Wired Network Projection
Wireless Network Projection

Related references
Projector Setup Settings - Extended Menu
Projector Network Settings - Network Menu

Where to Get Help

If you need to contact Epson for technical support services, use the following support options.

Internet Support
Visit Epson’s support website at www.epson.com/support (U.S.) or www.epson.ca/support (Canada) for solutions to common problems with your projector. 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 EPSON PrivateLine Support card included with your projector. This service is available for the duration of your warranty period. You may also speak with a projector support specialist by dialing (562) 276-4394 (U.S.) or (905) 709-3839 (Canada).

Support hours are 6 AM to 8 PM, Pacific Time, Monday through Friday and 7 AM to 4 PM, Pacific Time, Saturday.

Days and hours of support are subject to change without notice. Toll or long distance charges may apply.
Before you call, have the following information ready:

- Product name
- Product serial number (located on the bottom or rear of the projector, or in menu system)
- 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, other optional accessories, and replacement parts 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).

To purchase a replacement remote control, call (562) 276-4394 (U.S.) or (905) 709-3839 (for dealer referral in Canada).

**Parent topic:** Solving Problems
Technical Specifications

These sections list the technical specifications of your projector.

General Projector Specifications
Projector Lamp Specifications
Interactive Module Specifications
Interactive Pen Specifications
Remote Control Specifications
Projector Dimension Specifications
Projector Electrical Specifications
Projector Environmental Specifications
Projector Safety and Approvals Specifications
Supported Video Display Formats
USB Display System Requirements

General Projector Specifications

<table>
<thead>
<tr>
<th>Type of display</th>
<th>Poly-silicon TFT active matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td><strong>BrightLink 430i:</strong></td>
</tr>
<tr>
<td></td>
<td>1024 × 768 pixels (XGA)</td>
</tr>
<tr>
<td></td>
<td><strong>BrightLink 425Wi/435Wi:</strong></td>
</tr>
<tr>
<td></td>
<td>1280 × 800 pixels (WXGA)</td>
</tr>
<tr>
<td>Lens</td>
<td>F=1.80</td>
</tr>
<tr>
<td></td>
<td>Focal length: 6.48 mm</td>
</tr>
<tr>
<td>Color reproduction</td>
<td>Full color, 16.77 million colors</td>
</tr>
<tr>
<td>Specification</td>
<td>BrightLink 425Wi:</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>Normal Power Consumption mode:</td>
</tr>
<tr>
<td></td>
<td>White light output 2500 lumens (ISO 21118 standard)</td>
</tr>
<tr>
<td></td>
<td>Color light output 2500 lumens</td>
</tr>
<tr>
<td></td>
<td>ECO Power Consumption mode:</td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>3000:1 with Auto Iris on and Normal Power Consumption mode</td>
</tr>
<tr>
<td><strong>Image size</strong></td>
<td><strong>BrightLink 430i:</strong></td>
</tr>
<tr>
<td></td>
<td>(with interactive module) XGA: 63 to 106 inches (1.60 to 2.69 m)</td>
</tr>
<tr>
<td><strong>Projection distance</strong></td>
<td>21 to 48 inches (0.54 to 1.22 m)</td>
</tr>
<tr>
<td><strong>Projection methods</strong></td>
<td>Front, rear, ceiling-mounted</td>
</tr>
<tr>
<td><strong>Optical aspect ratio</strong></td>
<td><strong>BrightLink 430i:</strong> 4:3</td>
</tr>
<tr>
<td></td>
<td>(width-to-height)</td>
</tr>
<tr>
<td><strong>Focus adjustment</strong></td>
<td>Manual</td>
</tr>
<tr>
<td><strong>Zoom adjustment</strong></td>
<td>Digital</td>
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<tr>
<td><strong>Zoom ratio</strong></td>
<td>1:1.35</td>
</tr>
<tr>
<td></td>
<td>(Tele-to-Wide)</td>
</tr>
<tr>
<td>Feature</td>
<td>Specification</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Internal sound system</td>
<td>16 W monaural</td>
</tr>
<tr>
<td>Noise level</td>
<td><strong>BrightLink 425Wi:</strong> 35 dB (Normal Power Consumption mode)</td>
</tr>
<tr>
<td></td>
<td>28 dB (ECO Power Consumption mode)</td>
</tr>
<tr>
<td></td>
<td><strong>BrightLink 430i/435Wi:</strong> 37 dB (Normal Power Consumption mode)</td>
</tr>
<tr>
<td></td>
<td>29 dB (ECO Power Consumption mode)</td>
</tr>
<tr>
<td>Keystone correction angle</td>
<td>Vertical: ± 15°</td>
</tr>
<tr>
<td></td>
<td>Horizontal: ± 15°</td>
</tr>
<tr>
<td>USB Type B port compatibility</td>
<td>USB 1.1 and 2.0 compliant for USB Display or external mouse</td>
</tr>
<tr>
<td>USB Type A port compatibility</td>
<td>USB 1.1 and 2.0 compliant port for USB device input or EPSON document camera display</td>
</tr>
</tbody>
</table>

Parent topic: Technical Specifications

**Projector Lamp Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>UHE (Ultra High Efficiency)</td>
</tr>
<tr>
<td>Power consumption</td>
<td><strong>BrightLink 425Wi:</strong> 200 W</td>
</tr>
<tr>
<td></td>
<td><strong>BrightLink 430i/435Wi:</strong> 230 W</td>
</tr>
</tbody>
</table>
Lamp life

**BrightLink 425Wi:**
Normal Power Consumption mode:
Up to about 5000 hours
ECO Power Consumption mode:
Up to about 6000 hours

**BrightLink 430i/435Wi:**
Normal Power Consumption mode:
Up to about 4000 hours
ECO Power Consumption mode:
Up to about 6000 hours

**Note:** Turn off this product when not in use to prolong the life of the projector. Lamp life will vary depending upon mode selected, environmental conditions, and usage. Brightness decreases over time.

**Parent topic:** Technical Specifications

## Interactive Module Specifications

- **Height:** 3.89 inches (66 mm)
- **Width:** 2.95 inches (75 mm)
- **Length:** 7.72 inches (196 mm)
- **Weight:** 11.28 oz (320 g)
- **Power supply voltage:** 5 V DC
- **Current consumption:** 180 mA

**Parent topic:** Technical Specifications

## Interactive Pen Specifications

- **Current consumption:** 57 mA
- **Power supply voltage:** 5 V DC
### Batteries
- Two alkaline AAA

### Size
- 6.61 inches (168 mm), diameter 0.83 inches (21 mm)

### Weight
- 1.16 oz (33 g)

Parent topic: Technical Specifications

## Remote Control Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reception range</td>
<td>19.7 feet (6 m)</td>
</tr>
<tr>
<td>Batteries</td>
<td>Two alkaline or manganese AA</td>
</tr>
</tbody>
</table>

Parent topic: Technical Specifications

## Projector Dimension Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (excluding feet)</td>
<td>4.13 inches (105 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>13.6 inches (345 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>10.9 inches (277 mm)</td>
</tr>
</tbody>
</table>

**Weight**
- **BrightLink 425Wi:**
  - 8.5 lb (3.86 kg)
- **BrightLink 430i/435Wi:**
  - 8.7 lb (3.95 kg)

Parent topic: Technical Specifications

## Projector Electrical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Power supply</td>
<td>100 to 240 VAC ±10%</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------</td>
</tr>
<tr>
<td><strong>BrightLink 425Wi:</strong></td>
<td>3.0 to 1.3 A</td>
</tr>
<tr>
<td><strong>BrightLink 430i/435Wi:</strong></td>
<td>3.4 to 1.5 A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power consumption</th>
<th>Operating:</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>(100 to 120 V)</em></td>
<td><strong>BrightLink 425Wi:</strong></td>
</tr>
<tr>
<td></td>
<td>Normal Power Consumption mode: 294 W</td>
</tr>
<tr>
<td></td>
<td>ECO Power Consumption mode: 244 W</td>
</tr>
<tr>
<td><strong>BrightLink 430i/435Wi:</strong></td>
<td>Normal Power Consumption mode: 332 W</td>
</tr>
<tr>
<td></td>
<td>ECO Power Consumption mode: 241 W</td>
</tr>
</tbody>
</table>

| Standby: |
| **BrightLink 425Wi:** | 0.29 W (Communication Off), 6.2 W (Communication On) |
| **BrightLink 430i/435Wi:** | 0.28 W (Communication Off), 6.8 W (Communication On) |
Power consumption
(200 to 240 V)

Operating:

**BrightLink 425Wi:**
Normal Power Consumption mode: 283 W
ECO Power Consumption mode: 237 W

**BrightLink 430i/435Wi:**
Normal Power Consumption mode: 316 W
ECO Power Consumption mode: 232 W

Standby:

**BrightLink 425Wi:**
0.39 W (Communication Off), 6.8 W (Communication On)

**BrightLink 430i/435Wi:**
0.37 W (Communication Off), 7.3 W (Communication On)

Parent topic: Technical Specifications

## Projector Environmental Specifications

**Temperature**
Operating: 41 to 95 ºF (5 to 35 ºC)
Storage: 14 to 140 ºF (–10 to 60 ºC)

**Humidity**
(relative, non-condensing)
Operating: 20 to 80%
Storage: 10 to 90%

**Operating altitude**
Up to 4921 feet (1500 m)
Up to 7500 feet (2286 m) with High Altitude Mode enabled

Parent topic: Technical Specifications

## Projector Safety and Approvals Specifications

**United States**
FCC Part 15 Class B (DoC)
UL60950-1
Supported Video Display Formats

For best results, your computer monitor or video card resolution should be set to display in the projector's native resolution. However, your projector includes Epson's SizeWise chip that supports other computer display resolutions, so your image will be resized to fit automatically.

Your computer's monitor or video card refresh rate (vertical frequency) must be compatible with the projector. (See your computer or video card manual for details.)

The table below lists the compatible refresh rate and resolution for each compatible video display format.

<table>
<thead>
<tr>
<th>Display format</th>
<th>Refresh rate (in Hz)</th>
<th>Resolution (in pixels)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer signals (analog RGB)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>60/72/75/85</td>
<td>640 × 480</td>
</tr>
<tr>
<td>SVGA</td>
<td>56/60/72/75/85</td>
<td>800 × 600</td>
</tr>
<tr>
<td>XGA</td>
<td>60/70/75/85</td>
<td>1024 × 768</td>
</tr>
<tr>
<td>WXGA</td>
<td>60</td>
<td>1280 × 768</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>1360 × 768</td>
</tr>
<tr>
<td></td>
<td>60/75/85</td>
<td>1280 × 800</td>
</tr>
<tr>
<td>SXGA</td>
<td>70/75/85</td>
<td>1152 × 864</td>
</tr>
<tr>
<td></td>
<td>60/75/85</td>
<td>1280 × 960</td>
</tr>
<tr>
<td></td>
<td>60/75/85</td>
<td>1280 × 1024</td>
</tr>
<tr>
<td>SXGA+</td>
<td>60/75</td>
<td>1400 × 1050</td>
</tr>
<tr>
<td>WXGA+</td>
<td>60/75/85</td>
<td>1440 × 900</td>
</tr>
<tr>
<td>UXGA</td>
<td>60</td>
<td>1600 × 1200</td>
</tr>
<tr>
<td>WSXGA+* **</td>
<td>60</td>
<td>1680 × 1050</td>
</tr>
<tr>
<td>WUXGA (Reduced Blanking)</td>
<td>60</td>
<td>1920 × 1200</td>
</tr>
<tr>
<td>MAC13&quot;</td>
<td>67</td>
<td>640 × 480</td>
</tr>
<tr>
<td>Display format</td>
<td>Refresh rate (in Hz)</td>
<td>Resolution (in pixels)</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>MAC16&quot;</td>
<td>75</td>
<td>832 × 624</td>
</tr>
<tr>
<td>MAC19&quot;</td>
<td>75</td>
<td>1024 × 768</td>
</tr>
<tr>
<td></td>
<td>59</td>
<td>1024 × 768</td>
</tr>
<tr>
<td>MAC21&quot;</td>
<td>75</td>
<td>1152 × 870</td>
</tr>
<tr>
<td>Composite video</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV (NTSC)</td>
<td>60</td>
<td>720 × 480</td>
</tr>
<tr>
<td>TV (PAL)</td>
<td>50/60</td>
<td>720 × 576</td>
</tr>
<tr>
<td>TV (SECAM)</td>
<td>50</td>
<td>720 × 576</td>
</tr>
<tr>
<td>Component video</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SDTV (480i)</td>
<td>60</td>
<td>720 × 480</td>
</tr>
<tr>
<td>SDTV (576i)</td>
<td>50</td>
<td>720 × 576</td>
</tr>
<tr>
<td>SDTV (480p)</td>
<td>60</td>
<td>720 × 480</td>
</tr>
<tr>
<td>SDTV (576p)</td>
<td>50</td>
<td>720 × 576</td>
</tr>
<tr>
<td>HDTV (720p)</td>
<td>50/60</td>
<td>1280 × 720</td>
</tr>
<tr>
<td>HDTV (1080i)</td>
<td>50/60</td>
<td>1920 × 1080</td>
</tr>
<tr>
<td>HDMI input signals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>60</td>
<td>640 × 480</td>
</tr>
<tr>
<td>SVGA</td>
<td>60</td>
<td>800 × 600</td>
</tr>
<tr>
<td>XGA</td>
<td>60</td>
<td>1024 × 768</td>
</tr>
<tr>
<td>WXGA</td>
<td>60</td>
<td>1280 × 800</td>
</tr>
<tr>
<td>SXGA</td>
<td>60</td>
<td>1280 × 960</td>
</tr>
<tr>
<td>SXGA+</td>
<td>60</td>
<td>1280 × 1024</td>
</tr>
<tr>
<td>UXGA</td>
<td>60</td>
<td>1440 × 1050</td>
</tr>
<tr>
<td>SDTV (480i/480p)</td>
<td>60</td>
<td>720 × 480</td>
</tr>
<tr>
<td>SDTV (576i/576p)</td>
<td>50</td>
<td>720 × 576</td>
</tr>
</tbody>
</table>
### Display format

<table>
<thead>
<tr>
<th>Display format</th>
<th>Refresh rate (in Hz)</th>
<th>Resolution (in pixels)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDTV (720p)</td>
<td>50/60</td>
<td>1280 × 720</td>
</tr>
<tr>
<td>HDTV (1080i)</td>
<td>50/60</td>
<td>1920 × 1080</td>
</tr>
<tr>
<td>HDTV (1080p)</td>
<td>24/30/50/60</td>
<td>1920 × 1080</td>
</tr>
</tbody>
</table>

* BrightLink 425Wi/435Wi only

** Available only when using the **Wide** option as the **Resolution** setting

**Parent topic:** Technical Specifications

---

### USB Display System Requirements

Your computer system must meet the system requirements here to use the projector's USB Display software.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Windows</th>
<th>Mac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows 2000 (Service Pack 4 only)</td>
<td>Mac OS X 10.5.1 or later, 10.6.x, or 10.7.x</td>
</tr>
<tr>
<td></td>
<td>Windows Vista Ultimate, Enterprise, Business, Home Premium, and Home Basic (32-bit)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 7 Ultimate, Enterprise, Professional, and Home Premium (32- and 64-bit); Home Basic and Starter (32-bit)</td>
<td></td>
</tr>
<tr>
<td>USB version</td>
<td>USB 1.1 and above (USB 2.0 recommended)</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Mobil Pentium III 1.2 GHz or faster (1.6 GHz or faster recommended)</td>
<td>Power PC G4 1 GHz or faster (Core Duo 1.83 GHz or faster recommended)</td>
</tr>
<tr>
<td>Memory</td>
<td>256MB or more (512MB or more recommended)</td>
<td>512MB or more</td>
</tr>
<tr>
<td>Hard disk space</td>
<td>20MB or more</td>
<td></td>
</tr>
<tr>
<td>Requirement</td>
<td>Windows</td>
<td>Mac</td>
</tr>
<tr>
<td>-------------</td>
<td>---------</td>
<td>-----</td>
</tr>
<tr>
<td>Display</td>
<td>Resolution between 640 × 480 and 1600 × 1200, 16-bit color or greater</td>
<td></td>
</tr>
</tbody>
</table>

**Parent topic:** Technical Specifications
Notices

Check these sections for important notices about your projector.

- Recycling
- Important Safety Information
- Important Safety Instructions
- FCC Compliance Statement
- Wireless Telegraphy Act Regulations
- Trademarks
- Software Copyright
- Copyright Notice

Recycling

Epson offers a recycling program for end of life products. Please go to www.epson.com/recycle for information on how to return your products for proper disposal.

Parent topic: Notices

Important Safety Information

**Caution:** 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.

Parent topic: Notices
**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 more than 15° forward or back.
- If the projector is mounted on a ceiling or wall, it should be installed by qualified technicians using mounting hardware designed for use with this projector.
- When installing or adjusting a ceiling or wall mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the projector case to crack and the projector to fall from its ceiling mount. This could cause serious injury to anyone under the mount and could damage the projector.
- Do not use the projector near water or sources of heat.
- 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.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- 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 overload wall outlets, extension cords, or power strips. Do not insert the plug into a dusty outlet. This can cause fire or electric shock.
- Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
- 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.
- 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 the 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.
• Never push objects of any kind through the cabinet slots. Never spill liquid of any kind into the projector.

• If you are using two or more projectors side-by-side, leave at least 2 feet (60 cm) of space between the projectors to allow for proper ventilation.

• You may need to clean the air filter and vent. A clogged air filter or vent can block ventilation needed to cool the projector. Do not use canned air, or the gases may leave a residue.

• Do not store the projector outdoors for an extended length of time.

• Except as specifically explained in this manual, 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 manual. Never attempt to disassemble or modify the projector. Refer all repairs to qualified service personnel.

• 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.

• 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.

• Do not use the projector where it may be exposed to rain, water, or excessive humidity.

• Do not use the projector where it may be exposed to smoke, corrosive gases, or excessive dust.

• 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.

• If you use the projector in a country other than where you purchased it, use the correct power cord for that country.

• Do not stand on the projector or place heavy objects on it.

• Do not use the projector outside of the required temperature range of 41 to 95 ºF (5 to 35 ºC). Doing so may cause an unstable display and could lead to projector damage.

• Do not store the projector outside of the required temperature range of 14 to 140 ºF (–10 to 60 ºC) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

• 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 disassemble the lamp or subject it to impacts.

• 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 your eyes or mouth. If you do inhale gases or gases come in contact with your eyes or mouth, seek medical advice immediately.

• 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.

• Do not store the interactive pens or the batteries in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle.

• Remove the batteries from the interactive pens if you will not be using the pens for a long time.

**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.

**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.)

Restriction of Use

**Parent topic:** Notices

**Restriction of Use**

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive; disaster prevention devices; various safety devices; or functional/precision devices, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability.

Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or
medical equipment related to direct medical care, please make your own judgment on this product’s suitability after a full evaluation.

Parent topic: Important Safety Instructions

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 or Declaration 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.

Parent topic: Notices
Wireless Telegraphy Act Regulations

The following acts are prohibited by the Wireless Telegraphy Act:

• Modifying and disassembling (including the antenna)
• Removing the label of conformance

Parent topic: Notices

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Parent topic: Notices

Software Copyright

GNU GPL

This projector product includes the open source software programs which apply the GNU General Public License Version 2 or later version (“GPL Programs”).

We provide the source code of the GPL Programs until five (5) years after the discontinuation of same model of this projector product.

If you desire to receive the source code of the GPL Programs, contact Epson as described in the User’s Guide.

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See the GNU General Public License for more details.
The list of GPL Programs is as follows and the names of author are described in the source code of the
GPL Programs

The list of GPL Programs
• busybox-1.13.4
• iptables-1.4.4
• libgcc1(gcc-4.3.3)
• libstdc++-6.0.10
• linux-2.6.27
• patches
• udhcp 0.9.8
• uvc rev.219
• wireless_tools 29
• EPSON original drivers

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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