Home Cinema 5050UB/5050UBe
User's Guide
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Welcome to the Home Cinema 5050UB/5050UBe User's Guide.

For a printable PDF copy of this guide, click here.
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

Additional Projector Software and Manuals

Projector Part Locations

Projector Features

The Home Cinema 5050UB and 5050UBe projectors include these special features:

Bright, high-resolution projection system

• Up to 2600 lumens of color brightness (color light output) and 2600 lumens of white brightness (white light output)

  Note: Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118.

• 1080p native resolution with 4K Enhancement

• Images up to 300 inches (7.62 m) for projection on any wall or screen

Full 3D projection

• Active 3D projection with optional RF active shutter glasses

• Supports side-by-side, top-and-bottom, and frame-packing 3D formats

Flexible connectivity

• Two HDMI ports with HDCP 2.2 support for video device or computer connections

• Support for an optical HDMI connection

• One MHL-compatible HDMI port on the WirelessHD Transmitter (Home Cinema 5050UBe)

Easy-to-use setup and operation features

• Powered vertical and horizontal lens shift, and vertical keystone correction buttons for flexible projector placement
- 2.1× optical zoom ratio for improved zooming capability

**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 product box included all of these parts:

1. Projector
2. Remote control
3. Remote control batteries (two AA alkaline)
4. Power cord
5. HDMI cable clips (2)
6. Terminal cover (Home Cinema 5050UBe)
The Home Cinema 5050UBe also comes with the following parts:

1. WirelessHD Transmitter
2. AC adapter and cord

Parent topic: Projector Features

Additional Components

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

Note: To connect a Mac that does not include a compatible video output port, you need to obtain an adapter that allows you to connect to an input port on the projector. Contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter that allows you to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer for compatible adapter options.

Unless listed as available from Epson in this table, see your local computer or electronics dealer for purchase information.

<table>
<thead>
<tr>
<th>Signal or connection type</th>
<th>Additional component necessary</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>Compatible HDMI cable</td>
</tr>
<tr>
<td></td>
<td>Available for purchase from Epson or an authorized Epson reseller.</td>
</tr>
<tr>
<td>Optical HDMI</td>
<td>Compatible optical HDMI cable</td>
</tr>
<tr>
<td>Signal or connection type</td>
<td>Additional component necessary</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------------------------</td>
</tr>
</tbody>
</table>
| MHL (Home Cinema 5050UBe) | MHL-compatible device or a device with one of the following:  
|                           | • MHL cable  
|                           | • HDMI cable with a MHL adapter compatible with your device  
|                           | • Integrated MHL connector  
|                           | (The HDMI4 port on the WirelessHD transmitter supports MHL. Some devices may require an external power supply.) |
| 3D                       | Compatible HDMI cable and active shutter 3D glasses  
|                           | Available for purchase from Epson or an authorized Epson reseller.  
|                           | If your video source is a 3D Blu-ray disc, you also need a Blu-ray player that supports 3D playback. See your local computer or electronics dealer for purchase information. |
| External audio            | Speakers, an audio video receiver, or a video source with speaker connections, and the cables necessary for connecting them  
|                           | Your projector does not have an internal speaker or audio out ports. |
| VGA                      | To connect a computer through its VGA port to the projector's VGA video port, you need a VGA computer cable.  
|                           | Available for purchase from Epson or an authorized Epson reseller. |

**Parent topic:** [Projector Features](#)  
**Related references**  
[Optional Equipment and Replacement Parts](#)  

## 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) in the U.S. or 800-807-7766 in Canada. Or you can purchase online at [epsonstore.com](http://epsonstore.com) (U.S. sales) or [epsonstore.ca](http://epsonstore.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 (ELPLP89)</td>
<td>V13H010L89</td>
</tr>
</tbody>
</table>
### Option or part | Part number
--- | ---
Replacement air filter (ELPAF39) | V13H134A39
RF 3D glasses (ELPGS03) | V12H548006
Wireless LAN module (ELPAP10) | V12H731P02
Projector ceiling mount | CHF4000
Belkin PureAV HDMI audio video cable, 6 ft | AV22300-06
Belkin PureAV HDMI audio video cable, 3 ft | AV22300-03

In addition to the accessories listed above, a 1-year extended service plan is available.

**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 Home 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 Home Service brochure for details.

Register your product online at this site: 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? Here's where to look for help:

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

- If you still need help after checking this manual and any other sources listed here, 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

Additional Projector Software and Manuals

After connecting and setting up the projector, install the projector software. You may need to install it from a software CD, if included, or download the software and manuals as necessary.

You can install the projector software programs listed here and view their manuals for instructions on using them.

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

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<tr>
<th>Projector software</th>
<th>Manual</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>Epson iProjection</td>
<td>Epson iProjection Operation Guide (Windows/Mac)</td>
<td>Lets you project the computer screens of users over a network. You can download the latest software and documentation from the Epson web site. Go to <a href="https://www.epson.com/support">epson.com/support</a> (U.S.) or <a href="https://www.epson.ca/support">epson.ca/support</a> (Canada) and select your projector.</td>
</tr>
<tr>
<td>Epson iProjection app</td>
<td>Instructions are included with the app</td>
<td>Lets you project from an iOS or Android device if your projector is connected to a network that includes a wireless access point. Visit <a href="https://www.epson.com/iProjection">epson.com/iProjection</a> (U.S.) or <a href="https://www.epson.ca/iProjection">epson.ca/iProjection</a> (Canada) for more information.</td>
</tr>
<tr>
<td>Projector software</td>
<td>Manual</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>—</td>
<td>Open Source Software License</td>
<td>You can download this document from the Epson web site. Go to epson.com/support (U.S.) or epson.ca/support (Canada) and select your projector.</td>
</tr>
</tbody>
</table>

**Note:** Epson iProjection is not recommended for use with streaming video.

**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 - Remote Control

**Parent topic:** Introduction to Your Projector
Projector Parts - Front/Top

1 Lamp cover
2 Exhaust vent
3 Lens shutter
4 Lens
5 Air intake/air filter cover
6 Remote receivers
7 Control panel

Parent topic: Projector Part Locations
Projector Parts - Rear

1. Security slot
2. AC input port
3. Remote receiver
4. Opt.HDMI (300mA) port (USB power for optical HDMI connections)
5. HDMI1 port (supports HDCP 2.2)
6. HDMI2 port (supports HDCP 2.2)
7. USB port (for optional wireless LAN module and firmware updates)
8. Service port
9. LAN port
10. PC port (VGA)
11. RS-232C port
12. Trigger Out port (12V DC @ 200 mA max)

Parent topic: Projector Part Locations

Related tasks
- Attaching and Removing the Cable Clips
- Installing a Security Cable
Projector Parts - Base

1 Mounting bracket holes (M4x9)
2 Rear foot
3 Front adjustable feet

Parent topic: Projector Part Locations
Projector Parts - Control Panel

1  **Status** light
2  **Lamp** light
3  **Temp** light
4  **Menu** button (accesses projector menu system)
5  **Enter** button (selects options)
6  Control panel cover
7  Vertical keystone adjustment buttons (adjust screen shape) and arrow buttons
8  Arrow buttons
9  **Esc** button (cancels/exits functions)
10 **Lens** button (cycles through lens adjustment options)
11 **Source** button (cycles through the list of sources)
12 Power button/light

Parent topic: Projector Part Locations

Projector Parts - Remote Control
Home Cinema 5050UB

1 On button (turns on projector)
2 Home button (displays Home screen)
Source buttons (select specific video input sources)

Link Menu button (displays the main menu of the connected device)

Control buttons (control playback and other features of connected devices that support the HDMI CEC standard)

HDMI Link button (displays the settings menu for HDMI Link)

Lens button (cycles through lens adjustment options)

Arrow buttons (move though on-screen options)

Default button (returns selected setting to default value)

Menu button (accesses projector menu system)

Memory button (accesses the Memory menu)

Frame Int button (adjusts the Frame Interpolation setting)

RGBCMY button (adjusts hue, saturation, and brightness for each RGBCMY color)

User button (customizable for different functions)

3D Format button (changes the 3D format)

HDR button (adjusts the dynamic color range)

Pattern button (displays a test pattern)

Lens2 button (loads the second saved lens position)

Lens1 button (loads the first saved lens position)

Esc button (cancels/exits functions)

Enter button (selects options)

Image Enh button (displays the Image Enhancement menu)

Color Mode button (selects display modes)

Aspect button (selects the image aspect ratio)

Blank button (turns off video projection)

Illumination button (lights the remote control)

Standby button (turns off the projector)
1  **On** button (turns on projector)
2  **Home** button (displays Home screen)
3  **Source** buttons (select specific video input sources)
Link Menu button (displays the main menu of the connected device)
Control buttons (control playback and other features of connected devices that support the HDMI CEC standard)

HDMI Link button (displays the settings menu for HDMI Link)

Lens button (cycles through lens adjustment options)
Arrow buttons (move through on-screen options)
Default button (returns selected setting to default value)

Menu button (accesses projector menu system)
Memory button (accesses the Memory menu)

Frame Int button (adjusts the Frame Interpolation setting)

RGBCMY button (adjusts hue, saturation, and brightness for each RGBCMY color)
User button (customizable for different functions)

Wireless HD buttons (control WirelessHD functions (Home Cinema 5050UBe))

3D Format button (changes the 3D format)

HDR button (adjusts the dynamic color range)

Pattern button (displays a test pattern)

Lens2 button (loads the second saved lens position)
Lens1 button (loads the first saved lens position)

Esc button (cancels/exports functions)
Enter button (selects options)

Image Enh button (displays the Image Enhancement menu)

Color Mode button (selects display modes)

Aspect button (selects the image aspect ratio)
Blank button (turns off video projection)

Illumination button (lights the remote control)

Standby button (turns off the projector)

Parent topic: Projector Part Locations
Related references
Remote Control Operation
Setting Up the Projector

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

- Projector Placement
- Projector Connections
- Installing Batteries in the Remote Control

Projector Placement

You can place the projector on almost any flat surface to project an image.

You can also install the projector in a ceiling mount if you want to use it in a fixed location.

Keep these considerations in mind as you select a projector location:

- Place the projector on a sturdy, level surface or install it using a compatible mount.
- Leave plenty of space around and under the projector for ventilation, and do not place it on top of or next to anything that could block the vents.
- Position the projector within reach of a grounded electrical outlet or extension cord.

Projector Setup and Installation Options

- Projection Distance

Parent topic: Setting Up the Projector

Related tasks

- Changing the Projection Mode Using the Menus

Projector Setup and Installation Options

You can set up or install your projector in the following ways:
Rear Ceiling

Wherever you set up the projector, make sure to position it squarely in front of the center of the screen, not at an angle, if possible. If the projector cannot be centered in front of the screen, use lens shift to reposition the image instead of using keystone correction for better image quality.

If you project from the ceiling or from the rear, be sure to select the correct **Projection** option in the projector’s menu system.

**Parent topic:** Projector Placement

**Related references**

Projector Setup Settings - Extended Menu

**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.

Use the tables here 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 [epson.com/support](http://epson.com/support) (U.S.) or [epson.ca/support](http://epson.ca/support) (Canada).

![Diagram of projector and screen distances]

### 16:9 Aspect Ratio Image or Screen

<table>
<thead>
<tr>
<th>Screen or image size</th>
<th>Projection distance (1) Wide to Tele</th>
<th>Offset from lens center (2)</th>
<th>Offset from lens center (3)</th>
<th>Horizontal offset from lens center</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 inches (127 cm)</td>
<td>58 to 123 inches (148 to 313 cm)</td>
<td>11.3 inches (29 cm)</td>
<td>35.9 inches (91 cm)</td>
<td>±20.5 inches (52 cm)</td>
</tr>
<tr>
<td>60 inches (152.4 cm)</td>
<td>70 to 148 inches (178 to 376 cm)</td>
<td>13.6 inches (35 cm)</td>
<td>43 inches (109 cm)</td>
<td>±24.6 inches (63 cm)</td>
</tr>
<tr>
<td>80 inches (203.2 cm)</td>
<td>94 to 198 inches (239 to 630 cm)</td>
<td>18.2 inches (46 cm)</td>
<td>57.4 inches (146 cm)</td>
<td>±32.8 inches (83 cm)</td>
</tr>
<tr>
<td>100 inches (254 cm)</td>
<td>118 to 248 inches (300 to 630 cm)</td>
<td>22.7 inches (58 cm)</td>
<td>71.7 inches (182 cm)</td>
<td>±41 inches (104 cm)</td>
</tr>
<tr>
<td>150 inches (381 cm)</td>
<td>178 to 373 inches (452 to 947 cm)</td>
<td>34 inches (86 cm)</td>
<td>107.6 inches (273 cm)</td>
<td>±61.6 inches (156 cm)</td>
</tr>
<tr>
<td>200 inches (508 cm)</td>
<td>238 to 498 inches (604 to 1264 cm)</td>
<td>45.4 inches (115 cm)</td>
<td>143.4 inches (364 cm)</td>
<td>±82.1 inches (209 cm)</td>
</tr>
<tr>
<td>Screen or image size</td>
<td>Projection distance (1) Wide to Tele</td>
<td>Offset from lens center (2)</td>
<td>Offset from lens center (3)</td>
<td>Horizontal offset from lens center</td>
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<tr>
<td>250 inches (635 cm)</td>
<td>297 to 623 inches (756 to 1582 cm)</td>
<td>56.7 inches (144 cm)</td>
<td>179.3 inches (455 cm)</td>
<td>±102.6 inches (261 cm)</td>
</tr>
<tr>
<td>300 inches (762 cm)</td>
<td>357 to 748 inches (908 to 1899 cm)</td>
<td>68.1 inches (173 cm)</td>
<td>215.2 inches (547 cm)</td>
<td>±123.1 inches (313 cm)</td>
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<tr>
<td><strong>4:3 Aspect Ratio Image or Screen</strong></td>
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<td></td>
</tr>
<tr>
<td>Screen or image size</td>
<td>Projection distance (1) Wide to Tele</td>
<td>Offset from lens center (2)</td>
<td>Offset from lens center (3)</td>
<td>Horizontal offset from lens center</td>
</tr>
<tr>
<td>50 inches (127 cm)</td>
<td>72 to 151 inches (182 to 384 cm)</td>
<td>13.9 inches (35 cm)</td>
<td>43.9 inches (111 cm)</td>
<td>±25.1 inches (56 cm)</td>
</tr>
<tr>
<td>60 inches (152.4 cm)</td>
<td>86 to 182 inches (219 to 462 cm)</td>
<td>16.7 inches (42 cm)</td>
<td>52.7 inches (134 cm)</td>
<td>±30.1 inches (77 cm)</td>
</tr>
<tr>
<td>80 inches (203.2 cm)</td>
<td>115 to 243 inches (293 to 617 cm)</td>
<td>22.2 inches (56 cm)</td>
<td>70.2 inches (178 cm)</td>
<td>±40.2 inches (102 cm)</td>
</tr>
<tr>
<td>100 inches (254 cm)</td>
<td>145 to 304 inches (368 to 772 cm)</td>
<td>27.8 inches (71 cm)</td>
<td>87.8 inches (223 cm)</td>
<td>±50.2 inches (128 cm)</td>
</tr>
<tr>
<td>120 inches (304.8 cm)</td>
<td>174 to 365 inches (442 to 927 cm)</td>
<td>33.3 inches (854 cm)</td>
<td>105.3 inches (268 cm)</td>
<td>±60.3 inches (153 cm)</td>
</tr>
<tr>
<td>150 inches (381 cm)</td>
<td>218 to 457 inches (554 to 1160 cm)</td>
<td>41.7 inches (106 cm)</td>
<td>131.7 inches (334 cm)</td>
<td>±75.4 inches (191 cm)</td>
</tr>
<tr>
<td>200 inches (508 cm)</td>
<td>291 to 610 inches (740 to 1548 cm)</td>
<td>55.6 inches (141 cm)</td>
<td>175.6 inches (446 cm)</td>
<td>±100.5 inches (255 cm)</td>
</tr>
<tr>
<td>220 inches (558.8 cm)</td>
<td>321 to 671 inches (814 to 1704 cm)</td>
<td>61.1 inches (155 cm)</td>
<td>193.1 inches (491 cm)</td>
<td>±110.5 inches (281 cm)</td>
</tr>
</tbody>
</table>
### Screen or image size

<table>
<thead>
<tr>
<th>Screen or image size</th>
<th>Projection distance (1)</th>
<th>Offset from lens center (2)</th>
<th>Offset from lens center (3)</th>
<th>Horizontal offset from lens center</th>
</tr>
</thead>
<tbody>
<tr>
<td>244.8 inches (622 cm)</td>
<td>357 to 746 inches (906 to 1896 cm)</td>
<td>68 inches (173 cm)</td>
<td>214.8 inches (546 cm)</td>
<td>±123 inches (312 cm)</td>
</tr>
</tbody>
</table>

Parent topic: Projector Placement

## Projector Connections

See these sections to connect the projector to a variety of projection sources.

**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 an HDMI Video Source
- Connecting to Computer Sources
- Attaching and Removing the Cable Clips
- Connecting to External Speakers
- Connecting to a Trigger Out Port

Parent topic: Setting Up the Projector

### 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.

**Note:** To display signals in the 18 Gbps transmission band, such as from a 4K 60 fps source, use a cable rated for 18Gbps signals.
2. Connect the other end to one of the projector’s HDMI ports. If you are connecting an optical HDMI cable, you must also connect the cable’s USB power connector to the **Opt.HDMI (300mA)** port.

   ![HDMI Cable Connection](image)

**Note:** When an audio/video source that meets the HDMI CEC standard is connected to the projector’s HDMI port, you can use the projector’s remote control to control certain features of the linked device by pressing the **HDMI Link** button on the remote control and setting **HDMI Link** to **On**.

**Parent topic:** Projector Connections

**Related references**

Projector Feature Settings - Settings Menu

**Related tasks**

Attaching and Removing the Cable Clips

---

### Connecting to Computer Sources

Follow the instructions in these sections to connect a computer to the projector.

- Connecting to a Computer for VGA Video
- Connecting to a Computer for HDMI Video

**Parent topic:** Projector Connections

### 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 does not include a compatible video output port, you need to obtain an adapter that allows you to connect to an input port on the projector. Contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter that allows you to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer 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 PC port on the projector.

4. Tighten the screws on the VGA connector.

Parent topic: Connecting to Computer Sources

Connecting to a Computer for HDMI Video

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 does not include a compatible video output port, you need to obtain an adapter that allows you to connect to an input port on the projector. Contact Apple for compatible adapter options. To connect a smartphone or tablet, you may need to obtain an adapter that allows you to connect to the projector. This allows you to mirror your smartphone or tablet screens, watch movies, and more. Contact your device manufacturer for compatible adapter options.

1. Connect the HDMI cable to your computer's HDMI output port.
2. Connect the other end to one of the projector's HDMI ports. If you are connecting an optical HDMI cable, you must also connect the cable's USB power connector to the Opt.HDMI (300mA) port.

Parent topic: Connecting to Computer Sources

Related tasks
Attaching and Removing the Cable Clips

Attaching and Removing the Cable Clips

You can install the cable clips that came with your projector to provide additional support to the HDMI cables.

1. Plug in the HDMI cables.
2. Insert each guide into the cable clip holes near the **HDMI** port.
3. Attach the cable clips to the HDMI cables. Be sure to leave the clamps unlocked.
4. Slide each cable clip onto the guides and lock the clamps onto the connectors.

To remove the cable clips, open the clamps and disconnect the cables. Then pinch the sides of each guide and carefully pull them out of the cable clip holes.

**Parent topic:** Projector Connections

### Connecting to External Speakers

To add sound, you can connect your video source and speakers to an audio video receiver, then connect the receiver to the projector using one of the receiver's compatible video outputs (an HDMI connection provides the best image quality, if available). You can also connect speakers to any video source that has its own speaker connections.

1. Video source
2 Surround sound speakers
3 Receiver
4 Video cable

Parent topic: Projector Connections

Connecting to a Trigger Out Port

You can connect your projector to external devices such as motorized screens that support a trigger signal. When active, a 12V (200 mA maximum) signal is sent to the connected device while the projector is powered on.

1. Connect a 3.5 mm stereo mini-jack cable to the external device's trigger port. See your device's documentation for details.
2. Connect the other end to the projector's Trigger Out port.

3. Turn on the Trigger Out setting in the projector's Extended menu.

Parent topic: Projector Connections
Related references
Projector Setup Settings - Extended Menu

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. Remove the battery cover.

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

**Related references**

Remote Control Specifications
Using the Projector on a Network

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

**Note:** Epson iProjection is not recommended for use with streaming video.

* Wired Network Projection
* Wireless Network Projection
* Selecting External Network Detection Settings

**Wired Network Projection**

You can project through a wired network. To do this, you connect the projector to your network with an Ethernet cable, and then set up your projector and computer for network projection.

You can use Epson iProjection to project static images and presentations over a wired network.

**Note:** Epson iProjection is not recommended for use with streaming video.

After connecting and setting up the projector, install the projector software. You may need to install it from a software CD, if included, or download the software and manuals as necessary.

**Note:** If your projector is connected via a LAN (Ethernet) cable to a network that includes a wireless access point, you can connect to the projector wirelessly through the access point using the Epson network software.

Connecting to a Wired Network
Selecting Wired Network Settings

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

**Related references**

Additional Projector Software and Manuals

**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, tablets, or smartphones over 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.
   • **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen on a smartphone or tablet.
   • **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices using the Epson iProjection app.

   **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. Press **Finish** when you are done.

7. Select the Wired LAN menu and press Enter.

   ![Wired LAN menu]

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHCP</td>
<td>On</td>
</tr>
<tr>
<td>IP Address</td>
<td>192.168.100.100</td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway Address</td>
<td>192.168.200.1</td>
</tr>
<tr>
<td>IP Address Display</td>
<td>On</td>
</tr>
</tbody>
</table>

8. 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**. Press **Finish** when you are done.

9. To prevent display of the IP address on the standby screen, turn off **IP Address Display**.
10. 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 project over a wireless network. To do this, you must set up your projector and computer for wireless projection.

**Note:** The Epson 802.11b/g/n wireless LAN module is not included with your projector and is optional.

To connect wirelessly to your projector, configure the connection using the projector’s Network menus. After connecting and setting up the projector, install the projector software. You may need to install it from a software CD, if included, or download the software and manuals as necessary.

You can use Epson iProjection to project static images and presentations over a wireless network.

**Note:** Epson iProjection is not recommended for use with streaming video.
Installing the Wireless LAN Module

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

Note: The wireless LAN module is not included with your projector.

Insert the wireless LAN module into the USB port.

The light on the wireless LAN module turns on when the module is installed and operating. The light flashes when the module is communicating over the network.

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**.

4. Make sure the **Wireless LAN Power** setting is set to **On**.
5. Select **Network Configuration** and press **Enter**.
6. Select the **Basic** menu and press **Enter**.
7. 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.
   - **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the Remote or Basic Control screen on a smartphone or tablet.
   - **Display LAN Info** lets you select how the projector displays network information. You can select an option to display a QR code that lets you quickly connect your iOS or Android devices with the Epson iProjection app.

   **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. Press **Finish** when you are done.

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

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

10. 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, or iOS or Android device.
Wireless LAN Menu Settings
Restricted IP Addresses
Parent topic: Wireless Network Projection

Wireless LAN Menu Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
</table>
| Connection Mode         | Quick, Advanced | Selects the type of wireless connection:  
**Quick**: lets you quickly connect to local devices without an internet connection  
**Advanced**: lets you connect to multiple computers via a wireless network access point (infrastructure mode) |
| Channel                 | 1ch, 6ch, 11ch | In Quick connection mode, selects the frequency band (channel) used by the wireless LAN                                                      |
| SSID                    | Up 32 alphanumeric characters | Sets the SSID (network name) of the wireless LAN system the projector is connecting to                                                        |
| Search Access Point     | To Search View | Searches for available wireless network access points in Advanced connection mode                                                             |
| IP Settings             | —             | Turns on DHCP if your network assigns addresses automatically; set to Off to manually enter the network's IP Address, Subnet Mask, and Gateway Address (see list of restricted IP addresses in link below) |
| SSID Display            | On, Off       | Selects whether to display the SSID on the network standby screen and the Home screen                                                            |
### Setting Options Description

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address Display</td>
<td>On</td>
<td>Selects whether to display the IP address on the network standby screen and the Home screen</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td></td>
</tr>
</tbody>
</table>

**Parent topic:** Selecting Wireless Network Settings Manually

**Related references**

- Restricted IP Addresses

### Restricted IP Addresses

When manually entering IP Settings, you cannot use these ranges of IP addresses:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Restricted IP addresses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IP Address</strong></td>
<td>0.0.0.0&lt;br&gt;127.x.x.x&lt;br&gt;224.0.0.0 to 255.255.255.255</td>
</tr>
<tr>
<td><strong>Subnet Mask</strong></td>
<td>0.0.0.0&lt;br&gt;255.255.255.255</td>
</tr>
<tr>
<td><strong>Gateway Address</strong></td>
<td>0.0.0.0&lt;br&gt;127.x.x.x&lt;br&gt;224.0.0.0 to 255.255.255.255</td>
</tr>
</tbody>
</table>

**Parent topic:** Selecting Wireless Network Settings Manually

### Using a QR Code to Connect a Mobile Device

After you select the wireless network settings for your projector, you can display a QR code on the screen and use it to connect a mobile device using the Epson iProjection app.

**Note:** Make sure you have installed the latest version of Epson iProjection on your device. Visit [epson.com/iprojection](http://epson.com/iprojection) (U.S.) or [epson.ca/iprojection](http://epson.ca/iprojection) (Canada) for more information.

1. Press the **Menu** button.
2. Select the **Network** menu and press **Enter**.

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

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

5. Set the **Display LAN Info** setting to **Text & QR Code**.

6. Select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
7. Do one of the following:
   • Press the **LAN** button on the remote control.
   • Select **Display the QR Code** in the projector's Network menu.
   • Press the **Home** button on the remote control and select **Display the QR Code** on the Home screen.

   Your projector displays the QR code on the projection surface.

   **Note:** If you do not see the QR code after pressing the **LAN** button, press **Enter** to display it.

8. Start Epson iProjection on your mobile device.

9. Use the QR code reader feature to read the QR code and connect your device to the projector. Visit [epson.com/iprojection](http://epson.com/iprojection) (U.S.) or [epson.ca/iprojection](http://epson.ca/iprojection) (Canada) for instructions.

**Parent topic:** Wireless Network Projection

### Searching for a Wireless Network

You can use your projector's site survey function to quickly locate and connect to available wireless networks.

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 **Wireless LAN** menu and press Enter.

6. Select **Advanced** as the Connection Mode setting and press Enter.
7. Select **Search Access Point** and press Enter.
8. Select the name of the wireless network you want to connect to and press Enter.
9. If the network has security enabled, enter the wireless password.

You see a screen like this:

![Network Configuration Menu](image)

![Security Passphrase](image)
10. Select the settings on the Security menu as necessary for your network.
11. When you finish selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

**Parent topic:** Wireless Network Projection

**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, access the Desktop and 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 projector's SSID.
3. Click **Connect**.

**Parent topic:** Wireless Network Projection

**Selecting Wireless Network Settings on Mac**

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

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 projector's SSID.

**Parent topic:** Wireless Network Projection

**Enabling WPA or WPA2 Security**

Set up the WPA or WPA2 security settings to match your network's settings. Check with your network administrator for guidance on entering the correct information.

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 **Security** menu and press **Enter**.

6. Select the settings on the Security menu as necessary for your network.

7. 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**

**Parent topic:** Wireless Network Projection

**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>No, WPA2-PSK, WPA/WPA2-PSK</td>
<td>Selects the type of security used on the wireless network</td>
</tr>
</tbody>
</table>
## Selecting External Network Detection Settings

If you are using a compatible network control system, you can select settings that allow your projector to be detected by those systems.

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. If you want to use the notification function of PJLink, turn on the **PJLink Notification** setting and enter the IP address of the notification recipient in the **Notified IP Address** setting.
6. If your network environment uses an AMX controller, turn on the **AMX Device Discovery** setting to allow the projector to be detected.
7. If your network environment uses a Control4 or Control4 SDDP controller, turn on the **Control4 SDDP** setting to allow the projector to be detected.

### Table: Setting Options

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passphrase</td>
<td>—</td>
<td>For the selected security, selects the pre-shared passphrase used on the network</td>
</tr>
</tbody>
</table>

Parent topic: Enabling WPA or WPA2 Security
8. 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
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
Viewing 3D Images
Selecting the Language for the Projector Menus
Adjusting the Image Height
Adjusting the Image Position Using Lens Shift
Image Shape
Resizing the Image with the Zoom Feature
Focusing the Image with the Lens Button
Remote Control Operation
Selecting an Image Source
Projection Modes
Image Aspect Ratio
Color Mode

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. Connect the power cord to the projector's power inlet.
2. Plug the power cord into an electrical outlet.

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

   The projector's power light turns blue. This indicates that the projector is receiving power.

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

   The shutter opens and the status light flashes blue as the projector warms up. Once the projector is warmed up, the status light stops flashing and turns blue.

   **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** button on the projector to detect the video source, or press a source button on the remote control.

• If the Home screen is displayed, select the source you want to project.

**Using the Home Screen**

**Parent topic:** Using Basic Projector Features

**Related references**

*Projector Setup Settings - Extended Menu*

**Using the Home Screen**

You can select input sources and other frequently used options from the Home screen.

1. To display the Home screen, do one of the following:

   • Press the **Home** button on the remote control.

   • Turn on the projector with the **Home Screen Auto Disp** setting enabled.

   • Turn on the projector when no signal is received from the selected input source.
2. Press the arrow buttons on the remote control or control panel to navigate the screen, and press **Enter** to select an option.

![Diagram of projector menu options]

1. Select the video source you want to project
2. Display the Connection Guide
3. Display the projector's menus
4. Select customizable menu options
5. Select to change the 3D settings
6. Select to change the Color Mode

**Note:** Your Home screen may look different from the illustration shown here. You can select the customizable menu options using the **Custom Function 1** and **Custom Function 2** settings in the Extended menu.

3. Press the **Home** button to hide the Home screen.

**Parent topic:** Turning On the Projector

**Related references**

- Projector Setup Settings - Extended Menu
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.

**Note:** When using the Blank feature, the projector lamp is still on. To turn off the lamp, turn off the projector.

1. Press the power button on the projector or the **Standby** button on the remote control.
   The projector displays a shutdown confirmation screen.

   ![Power Off?](image)
   
   **Yes:** Press blue button
   **No:** Press any other button

2. Press the power button on the projector or the **Standby** button on the remote control again. (To leave it on, press any other button.)
   The lamp turns off and the lens shutter closes. The projector's **Status** light flashes and then turns off.

   **Note:** If you unplug the projector before the **Status** light stops flashing and need to turn the projector back on, wait until the lamp has cooled down (about 10 minutes), plug the power cord back in, and turn the projector on again. You cannot operate the projector until it finishes cooling down.
3. To transport or store the projector, make sure the Status light is off, then unplug the power cord.

Caution: To avoid damaging the projector or lamp, never unplug the power cord when the Status light is on or flashing.

Parent topic: Using Basic Projector Features
Related tasks
Shutting Off the Picture Temporarily
Transporting the Projector

Viewing 3D Images

You can view 3D images using your projector. Viewing 3D images requires a 3D-compatible video device, a compatible HDMI cable, and a pair of Epson RF 3D glasses.

You can purchase Epson RF 3D glasses from an Epson authorized reseller. To find the nearest reseller, call 800-GO-EPSON (800-463-7766) in the U.S. or 800-807-7766 in Canada. Or you can purchase online at epsonstore.com (U.S. sales) or epsonstore.ca (Canadian sales).

Note: Make sure the 3D Display setting on the Signal menu is set to Auto or 3D.

1. Connect a 3D-compatible video device to the projector using a compatible HDMI cable.

   Note: You can also connect a 3D HDMI source to the WirelessHD Transmitter (Home Cinema 5050UBe).

2. Turn on the video device, then turn on the projector.
3. Begin playback from the video device.
   
   **Note:** Make sure you set the video device to play content in 3D mode.

4. Slide the power switch on the 3D glasses to the **On** position.

5. Put on the 3D glasses and view the projected image. If you do not see a 3D image, pair the glasses with the projector.
   
   **Note:** If you change the video source or you are not within range of your projector, the glasses enter standby mode and the status light flashes green. Slide the power switch on the glasses to the **Off** position and then back to the **On** position to resume 3D viewing.
   
   **Note:** Make sure you are within 32 ft (10 m) of the projector when using the 3D glasses or you may lose your connection.

**Pairing the 3D Glasses with the Projector**

**Charging the 3D Glasses**

**3D Viewing Range**

**Parent topic:** Using Basic Projector Features

**Related references**

- **Input Signal Settings - Signal Menu**

**Pairing the 3D Glasses with the Projector**

Pair the glasses with the projector to establish communication between them for 3D viewing.

1. Turn on the projector.
2. Set the image source on the projector to HDMI or WirelessHD (Home Cinema 5050UBe).
3. Project a 3D image.
4. Slide the power switch on the 3D glasses to the On position.

5. Move the glasses within 10 feet (3 m) of the projector and hold down the Pairing button for at least three seconds.

   ![Pairing button](image.png)

   The status light on the glasses flashes green and red. If pairing is successful, the light turns green for 10 seconds and then turns off.

**Parent topic:** Viewing 3D Images

### Charging the 3D Glasses

When the status light on the glasses flashes red to indicate a low battery, it is time to charge the glasses.
1. Connect the smaller end of the charging cable to the port on the bridge of the glasses.

   ![Image of glasses with charging cable connection]

   **Note:** Make sure you connect the cable in the correct orientation or you may damage the glasses or cable.

2. Do one of the following:
   - Plug the other end of the charging cable into a powered USB port on a computer or other device.
   - Plug the other end of the charging cable into a USB-to-AC adapter with the following specifications:
     - Input: 100-240V, ~0.15A, 50-60Hz
     - Output: 5V=1A

   The glasses are fully charged when the status light on the glasses stays green.

**Parent topic:** Viewing 3D Images
**3D Viewing Range**

When you view 3D images, make sure you are positioned within the viewing range shown here.

![3D Viewing Range Diagram](image)

1. 32 ft (10 m)

**Parent topic:** Viewing 3D Images

**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

### Adjusting the Image Height

If you are projecting from a table or other flat surface, and the image is too high or low, you can adjust the image height using the projector’s adjustable feet.

1. Turn on the projector and display an image.
2. If the image is tilted, rotate the front feet to adjust their height.
3. To adjust the position of the projected image further, press the Lens button on the remote control or projector until Adjust Lens Shift appears on the screen and follow the on-screen instructions.

If the projected image is unevenly rectangular, you need to adjust the image shape.

**Parent topic:** Using Basic Projector Features

**Related concepts**

Image Shape

**Related tasks**

- Adjusting the Image Position Using Lens Shift
- Correcting Image Shape With the Keystone Buttons
- Adjusting the Image Position Using Lens Shift

### Adjusting the Image Position Using Lens Shift

If you cannot install the projector directly in front of the screen, you can adjust the position of the projected image using the lens shift feature.

1. Turn on the projector and display an image.
2. Press the Lens button on the control panel or remote control.
3. Press the Lens button repeatedly until Adjust Lens Shift appears on the screen.
4. Press the arrow buttons on the remote control or the control panel to adjust the position of the projected image as necessary.
1. Maximum horizontal range (H × 47%)
2. Maximum vertical range (V × 96%)
3. 1/2 the vertical height of the image
4. 1/2 the horizontal width of the image

**Note:** You cannot move the image to both the horizontal and vertical maximum values.

5. When you are finished, press the **Esc** button on the control panel or remote control.

**Note:** When adjusting the image height, position the image lower than where you want it to be and then move it up. This will help prevent the image from moving down after adjustment. The image is clearest when the lens is at the home position. To move the lens to the home position, press and hold the **Lens** button on the remote control or control panel for at least three seconds.

**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.

**Correcting Image Shape With the Keystone Buttons**

**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 **Pattern** button on the remote control.
2. Press a keystone button on the projector's control panel.

![Keystone button on projector control panel]

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
- Resizing the Image with the Zoom Feature

### Resizing the Image with the Zoom Feature

You can adjust the size of the projected image using the zoom feature.

1. Turn on the projector and display an image.
2. Press the **Lens** button on the control panel or remote control.

   ![Zoom button on projector control panel]

3. Press the **Lens** button repeatedly until **Adjust Zoom** is displayed on the screen.
4. Press and hold the left or right arrow button on the control panel or remote control to resize the image.
5. Press the **Esc** button on the control panel or remote control when finished.

**Parent topic:** Using Basic Projector Features
Focusing the Image with the Lens Button

You can adjust the sharpness of the projected image using the focus feature.

1. Turn on the projector and display an image.
2. Press the **Lens** button on the control panel or remote control.

3. Press the **Lens** button repeatedly until **Adjust Focus** is displayed on the screen.
4. Press and hold the left or right arrow button on the control panel or remote control to focus the image.
5. Press the **Esc** button on the control panel or remote control when finished.

Parent topic: Using Basic Projector Features

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room. You can point it at the screen, or the front or back of the projector.

Make sure that you aim the remote control at the projector's receivers within the distance and angles listed here.
Vertical

1 32 feet (10 m)
2 ± 30°
3 60°
4 10°
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** button on the projector 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.

   **Home Cinema 5050UB:**

   1. HDMI port sources
   2. Computer port source (VGA)
   3. Network source
Home Cinema 5050UBe:

1. HDMI port sources
2. Computer port source (VGA)
3. Network source
4. WirelessHD source

- Press the **Home** button on the remote control and select your image source.
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.

Changing the Projection Mode Using the Menus

Parent topic: Using Basic Projector Features

Changing the Projection Mode Using the Menus

You can change the projection mode to flip the image over top-to-bottom and/or left-to-right using the projector menus.

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

**Related concepts**

Projector Placement

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**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.

**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.

**Note:** For HDMI sources, the input signal determines the image’s aspect ratio.

1. Turn on the projector and switch to the image source you want to use.
2. Press the **Aspect** button on the remote control.

![Aspect button on remote control]

A list of the available aspect ratios appears.

3. To cycle through the available aspect ratios for your input signal, press the up or down arrow button.
4. Press **Enter** to select the aspect ratio.
Available Image Aspect Ratios

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

**Note:** When the projector is in 3D mode, the aspect ratio is automatically set to **Normal**.

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

<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.</td>
</tr>
<tr>
<td>Normal</td>
<td>Displays images using the full projection area and maintains the aspect ratio of the image.</td>
</tr>
<tr>
<td>Zoom</td>
<td>Displays images using the full width of the projection area and maintains the aspect ratio of the image.</td>
</tr>
<tr>
<td>Full</td>
<td>Displays images using the full width of the projection area, but does not maintain the aspect ratio.</td>
</tr>
</tbody>
</table>

**Note:** When projecting a 4K signal, you can select only **Normal** as the aspect ratio setting.

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**

Parent topic: **Using Basic Projector Features**
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.

A list of available Color Modes appears.

4. To cycle through all the available Color Modes for your input signal, press the up or down arrow button.
5. Press **Enter** to select a Color Mode.

**Parent topic:** Color Mode

Available Color Modes

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

**2D Images**

<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>Natural</td>
<td>Best for projecting in a dark room</td>
</tr>
<tr>
<td>Bright Cinema</td>
<td>Best for projecting in a room with closed curtains</td>
</tr>
<tr>
<td>Cinema</td>
<td>Best for projecting color movies in a dark room</td>
</tr>
<tr>
<td>B&amp;W Cinema</td>
<td>Best for projecting black and white movies in a dark room</td>
</tr>
<tr>
<td>Digital Cinema</td>
<td>Projects using the same color spectrum as digital movie theaters</td>
</tr>
</tbody>
</table>
3D Images

<table>
<thead>
<tr>
<th>Color Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Dynamic</td>
<td>Best for projecting in a bright room</td>
</tr>
<tr>
<td>3D Cinema</td>
<td>Best for projecting movies in a dark room</td>
</tr>
</tbody>
</table>

Parent topic: Color Mode

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 choose one of the following:
   - **High Speed** to adjust brightness as soon as the scene changes.
   - **Normal** for standard brightness adjustment.

**Note:** You can set Auto Iris for each Color Mode that supports the feature.
5. Press **Menu** or **Esc** to exit the menus.

Parent topic: Color Mode
Adjusting Projector Features

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

Shutting Off the Picture Temporarily
Projector Security Features
Using Advanced Image Adjustment Features
Saving Settings to Memory and Using Saved Settings
Saving the Lens Position and Using Saved Lens Positions

Shutting Off the Picture Temporarily

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

1. Press the Blank button on the remote control to temporarily stop projection.

![Blank button](image)

2. To turn the picture back on, press the Blank button again.

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:

- Lens lock to prevent changing the zoom, focus, or lens shift 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.

Locking the Projector's Lens Settings and Buttons
Installing a Security Cable
Locking the Projector's Lens Settings and Buttons

You can lock the buttons on the projector's control panel to prevent anyone from using the projector. You can also lock the zoom, focus, and lens shift settings to prevent them from being adjusted.

**Note:** You can use the remote control to control the projector when the control panel buttons are locked.

1. Press the **Menu** button.
2. Select the **Settings** menu and press **Enter**.
3. Select the **Lock Setting** setting and press **Enter**.
4. Select one of these lock types and press **Enter**:
   - To lock the zoom, focus, and lens shift settings, select **Lens Lock**.
   - To lock the projector's power button, select **Child Lock**. To turn the projector on, you must press the power button for longer than three seconds.

   **Note:** **Child Lock** does not prevent the projector from turning on when the power cord is connected if the **Direct Power On Setting** is set to **On**.

   - To lock all buttons, select **Control Panel Lock > Full Lock**.
   - To lock all buttons except the power button, select **Control Panel Lock > Partial Lock**.
Note: The lock icon is displayed on the screen if any control panel buttons are pressed while this setting is enabled.

You see a confirmation prompt.

5. Select Yes and press Enter.
6. Restart the projector for the lock settings to take effect.

Unlocking the Projector's Buttons

Parent topic: Projector Security Features

Related references
Projector Feature Settings - Settings Menu

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. You can also set the Control Panel Lock setting to Off in the Settings menu.

Parent topic: Locking the Projector's Lens Settings and Buttons

Installing a Security Cable

You can use the security slot on the back of the projector to attach a Kensington lock. See your local computer or electronics dealer for purchase information.

Parent topic: Projector Security Features

Using Advanced Image Adjustment Features

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

Note: Not all adjustments may be available depending on the projection mode and input signal.

Using Frame Interpolation
Using Frame Interpolation

You can use the projector's Frame Interpolation feature to smooth fast-moving video by comparing consecutive image frames and inserting an intermediate image frame between them.

**Note:** This feature may not be available depending on the projection mode and input signal.

1. Press the **Frame Int** button.

You see a screen like this:
2. Select the level of interpolation and press **Enter**.
3. When you are finished, press the **Frame Int** button.

**Note:** If your resulting images contain noise, turn off the **Frame Interpolation** setting.

**Parent topic:** Using Advanced Image Adjustment Features

### Using 4K Enhancement

Using the projector's 4K Enhancement Technology, you can receive 4K (3840 × 2160 pixel) signals and project ultra high-definition images. This technology shifts each pixel diagonally by 0.5 pixel to double the image resolution.

**Note:** This feature may not be available depending on the projection mode and input signal.

1. Press the **Menu** button on the remote control.
   You see a screen like this:

![Menu screen](image)

2. Select the **Image Enhancement** setting and press **Enter**.
You see a screen like this:

3. Select the **4K Enhancement** setting and press **Enter**.
4. Select one of the following options and press **Enter**:
   - **Off** to disable 4K enhancement
   - **On** to enable 4K enhancement
5. Press **Menu** to exit the menus.

**Parent topic:** Using Advanced Image Adjustment Features

### Creating Image Presets

You can quickly optimize your projected image by selecting image adjustment settings and saving them as a preset you can reuse later.

To quickly switch between image presets, press the **Image Enh** button on the remote control, select an image preset and press **Enter**.

You can save the following settings in a preset:
- Noise Reduction
- MPEG Noise Reduction
- Super-resolution
- Detail Enhancement
1. Press the **Menu** button.
   You see a screen like this:

![Image Enhancement Menu]

2. Select the **Image Enhancement** setting and press **Enter**.
3. Select the **Image Preset Mode** setting and press **Enter**.

![Image Preset Mode]

4. Select one of the presets and press **Enter**.

   **Note:** If you select a previously used preset, your new adjustments overwrite the old ones.

5. Press **Esc** to return to the Image Enhancement menu.
6. Fine-tune the following settings:
   - Noise Reduction
• MPEG Noise Reduction
• Super-resolution
• Detail Enhancement

7. Press Menu or Esc to exit the menus.
   The currently selected Image Preset Mode will be updated with the current settings.

Parent topic: Using Advanced Image Adjustment Features

Using MPEG Noise Reduction

If you are projecting MPEG movies, you can reduce dots and block noise by adjusting the MPEG Noise Reduction setting.

Note: This feature may not be available depending on the projection mode and input signal.

1. Press the Menu button.
   You see a screen like this:

   ![Menu Screen]

2. Select the Image Enhancement setting and press Enter.
3. Select the MPEG Noise Reduction setting and press Enter.
4. Select the level of noise reduction and press Enter.
5. Press Menu or Esc to exit the menus.
Adjusting Scaled Resolution Images (Super-resolution)

You can sharpen blurry, low-resolution images that had their resolution scaled up for projection using the Super-resolution setting.

**Note:** This feature may not be available depending on the projection mode and input signal.

1. Turn on the projector and switch to the image source you want to use.
2. Press the **Menu** button.
   
   You see a screen like this:

   ![Menu screenshot]

3. Select the **Image Enhancement** setting and press **Enter**.
4. Select the **Super-resolution** setting and press **Enter**.
5. Adjust each of the following options as necessary:
   - **Fine Line Adjust** to enhance fine details such as hair and fabric patterns
   - **Soft Focus Detail** to enhance the outline, background, and main parts of an image

   **Note:** Higher values increase the intensity of the effect.

6. Press **Menu** or **Esc** to exit the menus.
Adjusting Detail Enhancement

You can enhance the contrast in detailed areas of an image to create a more textured look.

Note: This feature may not be available depending on the projection mode and input signal.

1. Turn on the projector and switch to the image source you want to use.
2. Press the Menu button.
   You see a screen like this:

4. Select the Detail Enhancement setting and press Enter.
5. Adjust each of the following options as necessary:
   • Strength to adjust the image contrast
   • Range to adjust the enhanced area of the image

   Note: Higher values increase the intensity of the effect.

6. Press Menu or Esc to exit the menus.

Parent topic: Using Advanced Image Adjustment Features
# Image Adjustment Restrictions

Some advanced adjustment settings cannot be used with certain projection modes or input signals.

<table>
<thead>
<tr>
<th>Input type</th>
<th>Fine mode (Image Processing)</th>
<th>Fast mode (Image Processing)</th>
<th>3D</th>
<th>4K input</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2K</td>
<td>2K</td>
<td>2K 3D</td>
<td>4K</td>
</tr>
<tr>
<td><strong>Projection Mode</strong></td>
<td>2K</td>
<td>4K Enh.</td>
<td>2K</td>
<td>4K Enh.</td>
</tr>
<tr>
<td>Frame Interpolation</td>
<td>Yes</td>
<td>Yes*</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Image Enhancement - 4K Preset</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
</tr>
<tr>
<td>Noise Reduction</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>MPEG Noise Reduction</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Super-resolution/Detail Enhancement</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Image Enhancement - 2K Preset</strong></td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
</tr>
<tr>
<td>Noise Reduction</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>MPEG Noise Reduction</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Super-resolution/Detail Enhancement</td>
<td>Yes</td>
<td>—</td>
<td>Yes</td>
<td>—</td>
</tr>
</tbody>
</table>

* Frame Interpolation can only be used with 3D or 4K Enhancement if the signal is 1080p @ 24 Hz.

The following restrictions apply when using image enhancements:

- Fast mode (Image Processing) is not available when displaying a 4K picture.
- Fast mode (Image Processing) cannot be used with 3D or 4K projection.
- 3D projection cannot be used with 4K projection.

**Parent topic:** Using Advanced Image Adjustment Features

## Adjusting the Color Convergence (Panel Alignment)

You can use the Panel Alignment feature to manually adjust the color convergence (the alignment of the red, green and blue colors) in the projected image.
Note: You can adjust only the red or blue color convergence. Green is the standard color panel and cannot be adjusted.

Note: Allow your projector to warm up for at least 10 to 15 minutes and make sure the image is in focus before you use the Panel Alignment feature. For best results, project an image sized at least 60 inches (152 cm) diagonally in a dark room and on a projection surface that is not colored or textured.

1. Turn on the projector.
2. Press the Menu button.
3. Select the Extended menu and press Enter.
4. Select the Display setting and press Enter.
5. Select the Panel Alignment setting and press Enter.
6. Select the Panel Alignment setting and press Enter.
7. Select On and press Enter.
8. Select the Select Color setting and choose one of the following:
   • R to adjust the red color convergence.
   • B to adjust the blue color convergence.
9. Select the Pattern Color setting and press Enter.
10. Select the pattern you want to use and press Enter.
11. Select **Start Adjustments** and press **Enter**.
You see this screen:

![Panel Alignment]
Starting adjustments.
Shift the whole panel
Adjust the four corners

12. Select one of the following:
- Select *Shift the whole panel* to adjust the whole panel at the same time. (This is not recommended, as usually only certain areas of the panel need to be adjusted.) Continue with step 13.
- Select *Adjust the four corners* to adjust the corners of the panel one at a time. Skip to step 16.

13. Press **Enter**.
You see a screen like this:
14. Use the arrow buttons on the remote control to adjust the color alignment of the color you selected for the Select Color setting.

15. When you are finished adjusting the screen, press Enter.

You see this screen:

![Panel Alignment]

Adjustment complete.
To make finer adjustments, you can also select the four corners and then adjust.

[Panel Alignment]

Adjust the four corners
Exit

Note: The Shift the whole panel option affects the grid lines in the entire screen. To fine-tune your adjustments, continue with the next steps.

16. Select Adjust the four corners and press Enter. (Otherwise, select Exit and press Enter.)

17. Use the arrow buttons on the remote control to adjust the color alignment in the corner of the screen highlighted by the orange box.

18. Press the Enter button to move to the next corner of the screen.

19. When you are finished adjusting each corner of the screen, press Enter.
You see this screen:

![Panel Alignment]

Adjustment complete.
To make finer adjustments, you can also select any intersection and then adjust.

Select intersection and adjust  
Exit

20. Do one of the following:

- If your projector's panel alignment is now correct, select Exit and press Enter to return to the Panel Alignment menu.
- If your projector needs additional panel alignment, select Select intersection and adjust and press Enter. Use the arrow keys on the remote control to highlight the corner of any misaligned box on the screen, press Enter, make any necessary adjustments and press Enter again. Repeat this step as necessary for the other intersections.

Parent topic: Using Advanced Image Adjustment Features

Adjusting the Color Tone (Color Uniformity)

You can use the Color Uniformity feature to manually adjust the color tone balance in the projected image.

1. Press the Menu button.
2. Select the **Extended** menu and press **Enter**.

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

4. Select the **Color Uniformity** setting and press **Enter**.

   You see this screen:

   5. Press **Enter** and select **On**.

   6. Press **Esc**.

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7. Select the Adjustment Level setting and press Enter.
8. Press the right and left arrow buttons to adjust the level, then press Esc.
9. Select the Start Adjustments setting and press Enter.

![Image of Color Uniformity settings]

10. Select the area of the screen that you want to adjust and press Enter.

   **Note:** Adjust the outer areas first, then adjust the entire screen.

11. Select the color (Red, Green, or Blue) you want to adjust, and use the left arrow button to weaken the color tone and the right arrow button to strengthen the color tone.

12. Press Esc.

13. Repeat steps 10 and 11 for each area you want to adjust.

14. Repeat steps 7 to 11 for each adjustment level.

15. When you are finished, press the Menu button.

**Parent topic:** Using Advanced Image Adjustment Features

### Saving Settings to Memory and Using Saved Settings

You can save customized settings for each of your video inputs and then select the saved settings whenever you want to use them.

**Note:** You can save the Image settings and the Lens Adjustment (Focus, Zoom, and Lens Shift) function values.

1. Turn on the projector and display an image.
2. Press the **Menu** button.

   **Note:** You can also press the **Memory** button on the remote control to access the Memory menu directly.

3. Select the **Settings** menu and press **Enter**.
4. Select the **Memory** setting and press **Enter**.

   You see this screen:

   ![Memory Menu](image)

5. Select one of the following options:
   - **Load Memory**: Overwrites your current settings with saved settings
   - **Save Memory**: Saves your current settings to memory (10 memories with different names are available)

   **Note:** A memory name that has already been used is indicated by a blue mark. Saving over a previously saved memory overwrites the settings with your current settings.

   - **Erase Memory**: Erases the selected memory settings
   - **Rename Memory**: Renames a saved memory

6. Press **Esc** to exit.

**Parent topic:** Adjusting Projector Features
Saving the Lens Position and Using Saved Lens Positions

You can save the focus, zoom, and lens shift settings and then select the saved settings whenever you want to use them.

1. Turn on the projector and display an image.
2. Adjust the focus, zoom, and lens shift settings.
3. Press the Menu button.

   **Note:** You can also press the Memory button on the remote control to access the Memory menu directly.

4. Select the Settings menu and press Enter.
5. Select the Memory setting and press Enter.

   You see this screen:

   ![Menu Screen](image)

   6. Select one of the following options:
      - **Load Lens Position:** Overwrites your current focus, zoom, and lens shift settings with saved settings

   **Note:** You can load the saved settings from Memory1 or Memory2 by pressing the Lens1 or Lens2 buttons on the remote control.
• **Save Lens Position**: Saves your current focus, zoom, and lens shift settings to memory (10 memories with different names are available)

**Note**: A memory name that has already been used is indicated by a blue mark. Saving over a previously saved memory overwrites the settings with your current settings.

• **Erase Lens Position**: Erases the selected lens position settings

• **Rename Lens Position**: Renames a saved lens position (12 characters maximum)

7. Press Esc to exit.

**Parent topic**: Adjusting Projector Features
Using WirelessHD

You can use the included WirelessHD transmitter to wirelessly stream up to 4K UHD content from a video device to the projector (Home Cinema 5050UBe).

WirelessHD Transmitter Parts
WirelessHD Transmission Range
WirelessHD Remote Control Operation
Connecting the WirelessHD Transmitter
Viewing WirelessHD Content
Switching WirelessHD Sources

WirelessHD Transmitter Parts

Front

1. Power button (turns the transmitter on or off)
2. Input button (cycles through image sources)
3. WiHD/Pass button (cycles output signal between the projector and a display device connected to the transmitter’s HDMI Out port)
4  Power switch (turns the transmitter on or off)
5  **On/Standby** light (flashes when starting up; lit when the transmitter is on)
6  **WiHD** light (lit when sending a wireless signal to the projector)
7  **Link** light (lit when connected to the projector; flashing when searching for the projector or when on standby)
8  **TV** light (lit when the **HDMI Out** port is selected as the output)
9  1-4 (HDMI1 through HDMI4) lights (lit when the port is projecting)

**Back**

1  **AC input port** (connects to the AC adapter)
2  **HDMI Out** port (connects to display devices such as a television)
3  **Optical Audio-Out** port (connects to devices with an optical digital audio input port)
4  **HDMI1-HDMI3** input ports (connect to your input devices)
5  **HDMI4** port (connects to your input device; supports MHL connections)
6  3D glasses charging port (connects a USB cable to charge 3D glasses)
7  **Setup** button (recessed on bottom of transmitter; press for 5 seconds to reset the transmitter settings)

**Parent topic:** Using WirelessHD
WirelessHD Transmission Range

Place the WirelessHD Transmitter within the distance and angles shown here. Make sure the front of the WirelessHD Transmitter faces the front of the projector. Place the WirelessHD transmitter on a wooden shelf or other location that does not block the signal.

**Vertical (on surface)**

1. 16 feet (5 m)
2. 32 feet (10 m)
3. 60°
4. 30°

**Vertical (inverted on ceiling)**

1. 16 feet (5 m)
2. 32 feet (10 m)
3. 30°
4. 60°
When positioning the WirelessHD transmitter, note the following:

- The wireless transmission range varies depending on the placement and material of the furniture and walls. The values provided here are for your reference only.
- The projector cannot communicate through walls.
- When checking the signal, place the projector and WirelessHD Transmitter close to each other and make sure there are no other projectors operating nearby.
- The antennas are built into the front of the projector and the WirelessHD Transmitter. Make sure the antennas are facing one another when setting up the devices.
- Depending on the signal strength, the image's color information may be automatically discarded to avoid any interruptions and maintain a constant connection. To avoid any deterioration in image quality, adjust the position of the transmitter so that the **Video Reception** setting is as strong as possible. If no image is being input, the **Video Reception** setting displays 0%, even if the projector and transmitter are connected.
- Reception sensitivity varies depending on the resolution of the input image.

**Parent topic:** Using WirelessHD
WirelessHD Remote Control Operation

The remote control lets you control the WirelessHD transmitter from almost anywhere in the room. Make sure that you aim the remote control at the WirelessHD transmitter’s remote receiver within the distance and angles shown here.

Vertical

1  13 feet (4 m)
2  32 feet (10 m)
3  ± 40°
1 13 feet (4 m)
2 32 feet (10 m)
3 ± 40°

**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.

Parent topic: Using WirelessHD

**Connecting the WirelessHD Transmitter**

You can connect up to four HDMI input sources and one HDMI output source to your WirelessHD transmitter.
Note: Your projector does not have speakers or an audio out port. The WirelessHD Transmitter has an optical audio out port. If your sound system does not have an optical audio input, you will need to connect the audio source directly to your sound system.

1. Plug the AC adapter into the AC input port on the WirelessHD transmitter and into an electrical outlet.

![Diagram showing AC adapter plugged into WirelessHD transmitter and electrical outlet](image1.png)

2. Connect HDMI cables to your video devices and to the HDMI input ports on the side and back of the WirelessHD transmitter.

![Diagram showing HDMI cables connected](image2.png)

Note: You can connect an MHL-compatible streaming device, smartphone, or tablet to the HDMI4 port on the WirelessHD Transmitter. Some devices may require an external power source.
3. To use the WirelessHD transmitter as a pass-through device to a television or other display, connect an HDMI cable to the display device and to the **HDMI Out** port on the back of the transmitter.

Parent topic: Using WirelessHD

**Viewing WirelessHD Content**

You can project content wirelessly from any device connected to the WirelessHD transmitter.

1. Turn on the video equipment or computer you connected to the transmitter and want to project from.
2. Press the power switch on the side of the transmitter to turn on the transmitter.
3. Turn on the projector.
4. Press the **WirelessHD** button on the projector remote control.
   - The **WiHD** light on the transmitter turns on and your projector displays content wirelessly.

   **Note:** If the WirelessHD connection fails, press the **Setup** button on the bottom of the WirelessHD transmitter and try again. See the link below for other potential solutions.

Parent topic: Using WirelessHD

Related references

Solutions When a WirelessHD Source Does Not Display Correctly

**Switching WirelessHD Sources**

If you have connected multiple HDMI input sources to your WirelessHD transmitter, you can use the projector remote control to switch between sources.

1. Aim the remote control at the WirelessHD transmitter.
2. Press the **Input** button on the remote control or the WirelessHD transmitter repeatedly to select the input source you want.

   ![Diagram showing Input button and input sources]

After a few seconds, the display switches to the selected source.

**Parent topic:** Using WirelessHD
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 button 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, resolution, or other menu settings.

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color Mode</strong></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><strong>Color Saturation</strong></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>
</tbody>
</table>

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>Sharpness</td>
<td>Varying levels available</td>
<td>Adjusts the sharpness or softness of image details</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
<td><strong>Standard:</strong> enhances outlines for the entire image; adjusts the <strong>Thin Line Enhancement</strong> and <strong>Thick Line Enhancement</strong> settings as well (defaults to 5)</td>
</tr>
<tr>
<td></td>
<td>Thin Line Enhancement</td>
<td><strong>Thin Line Enhancement:</strong> enhances details such as hair and clothing patterns</td>
</tr>
<tr>
<td></td>
<td>Thick Line Enhancement</td>
<td><strong>Thick Line Enhancement:</strong> enhances backgrounds and larger elements</td>
</tr>
<tr>
<td>Color Temp. (color temperature)</td>
<td>Color Temp.</td>
<td><strong>Color Temp.:</strong> sets the overall color tone; higher values tint the image blue and lower values tint the image red (defaults to 8)</td>
</tr>
<tr>
<td></td>
<td>Skin Tone</td>
<td><strong>Skin Tone:</strong> makes fine adjustments to the color tone; higher values tint the image green and lower values tint the image red (defaults to 3)</td>
</tr>
<tr>
<td></td>
<td>Customized</td>
<td><strong>Customized:</strong> adjusts the offset and gain for each RGB color</td>
</tr>
<tr>
<td></td>
<td>Grayscale</td>
<td><strong>Grayscale:</strong> adjust individual amounts of red, green, and blue for 8 levels of gray; adjust <strong>Brightness</strong> to increase or decrease R/G/B at the same time; press <strong>Enter</strong> to switch the background to the current input source</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Frame Interpolation</td>
<td>Off, Weak, Normal, Strong</td>
<td>Adjusts the smoothness of movement in the image; only available for 1080p signals at 24 Hz.</td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>See the Image Enhancement table in this topic.</td>
<td></td>
</tr>
</tbody>
</table>
| Advanced         | Gamma, RGBCMY, Deinterlacing, Lens Iris | Selects various detailed color settings  
|                  |                  | **Gamma**: adjusts the gamma levels of the image. Select **Custom** to adjust the gamma while viewing a still image with a graph that displays the effect of gamma adjustment for each graph point.  
|                  |                  | **RGBCMY**: adjusts the hue, saturation, and brightness for each color  
|                  |                  | **Deinterlacing**: sets whether to convert interlaced-to-progressive signals for certain video image types  
|                  |                  | • **Off**: for fast-moving video images  
|                  |                  | • **Video**: for most video images  
|                  |                  | • **Film/Auto**: for movies, computer graphics, and animation  
<p>|                  |                  | <strong>Lens Iris</strong>: adjusts the contrast of the image by adjusting the amount of light entering the lens |</p>
<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>High, Medium, ECO</td>
<td>Selects the brightness mode of the projector lamp (can also be set by Color Mode) &lt;br&gt;<strong>High</strong>: sets maximum lamp brightness &lt;br&gt;<strong>Medium</strong>: reduces the brightness of the lamp &lt;br&gt;<strong>ECO</strong>: reduces lamp brightness and fan noise, and saves power and lamp life</td>
</tr>
<tr>
<td>Auto Iris</td>
<td>Off, Normal, High Speed</td>
<td>Adjusts the projected luminance based on the image brightness when certain Color Modes are selected</td>
</tr>
</tbody>
</table>

**Image Enhancement settings:**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4K Enhancement</td>
<td>On, Off</td>
<td>Accepts 4K signals and enhances the output of 1080p signals (defaults to On)</td>
</tr>
<tr>
<td>Image Preset Mode</td>
<td>Preset 1 to 5</td>
<td>Selects one of five preset groups of settings for the next image enhancement options &lt;br&gt;To set a preset, change the Image Enhancement options to the desired levels and select a preset. &lt;br&gt;To switch between presets, select a different preset without changing settings.</td>
</tr>
<tr>
<td>Noise Reduction</td>
<td>Varying levels available</td>
<td>Reduces flickering in analog images</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MPEG Noise Reduction</td>
<td>Varying levels available</td>
<td>Reduces the noise or artifacts seen in MPEG video</td>
</tr>
<tr>
<td>Super-resolution</td>
<td>Fine Line Adjust</td>
<td>Sharpens blurred images resulting from increasing resolution</td>
</tr>
<tr>
<td></td>
<td>Soft Focus Detail</td>
<td></td>
</tr>
<tr>
<td>Detail Enhancement</td>
<td>Range</td>
<td>Enhances details to create clear outlines</td>
</tr>
<tr>
<td></td>
<td>Strength</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Range</strong>: higher settings increase the affected area around the outline</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Strength</strong>: increases the effect of higher settings</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Range</strong> and <strong>Strength</strong> vary based on the <strong>Image Preset Mode</strong> setting.</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.
**Note:** The available settings depend on the currently selected input source. You cannot change the Signal menu settings when the LAN source is selected.

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>3D Setup</td>
<td>3D Display</td>
<td>Selects various 3D options</td>
</tr>
<tr>
<td></td>
<td>3D Format</td>
<td>3D Display: enables 3D mode</td>
</tr>
<tr>
<td></td>
<td>3D Depth</td>
<td>3D Format: selects the 3D format</td>
</tr>
<tr>
<td></td>
<td>Diagonal Screen Size</td>
<td>3D Depth: sets the depth for the 3D image</td>
</tr>
<tr>
<td></td>
<td>3D Brightness</td>
<td>Diagonal Screen Size: selects the actual size of the screen to maximize the 3D effect</td>
</tr>
<tr>
<td></td>
<td>Inverse 3D Glasses</td>
<td>Inverse 3D Glasses: reverses the images projected for the left and right eyes (enable only if using rear projection or if 3D images do not display correctly)</td>
</tr>
<tr>
<td></td>
<td>3D Viewing Notice</td>
<td>3D Brightness: adjusts the brightness of the 3D image</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inverse 3D Glasses: reverses the images projected for the left and right eyes (enable only if using rear projection or if 3D images do not display correctly)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3D Viewing Notice: enables the viewing notice displayed when using 3D mode</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>
<tr>
<td>Tracking</td>
<td>Varying levels available</td>
<td>Adjusts signal to eliminate vertical stripes in computer images from the PC input port</td>
</tr>
<tr>
<td>Sync.</td>
<td>Varying levels available</td>
<td>Adjusts signal to eliminate fuzziness or flickering in computer images from the PC input port</td>
</tr>
<tr>
<td>Position</td>
<td>Up, down, left, right</td>
<td>Adjusts the image location on the screen</td>
</tr>
<tr>
<td>Auto Setup</td>
<td>On</td>
<td>Automatically optimizes computer image quality</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>Overscan</td>
<td>Auto, Off, 4%, 8%</td>
<td>Enlarges the image to prevent noise at the edge of the image; mainly used with older image formats. Turn off <strong>Overscan</strong> if you are using the <strong>Anamorphic Wide</strong> aspect ratio.</td>
</tr>
<tr>
<td>Color Space (may be located in <strong>Advanced</strong> menu depending on model)</td>
<td>Auto, BT.709, BT.2020</td>
<td>Sets the conversion system for the color space; set to <strong>Auto</strong> for most cases</td>
</tr>
</tbody>
</table>
| Dynamic Range    | Dynamic Range, Signal Status, HDR10 Setting, HLG Setting | **Dynamic Range**: changes the range of dark and bright areas in the image; set to **Auto** for most cases  
**Signal Status**: displays the detected input image signal  
**HDR10 Setting**: changes the Perceptual Quantizer (PQ) curve of the HDR10 dynamic range (image brightness)  
**HLG Setting**: changes the PQ curve of the Hybrid Log-Gamma (HLG) dynamic range (image brightness) |
<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced</td>
<td>Video Range</td>
<td><strong>Video Range</strong>: sets the video range to match the setting of the device connected to an HDMI input port or WirelessHD Transmitter; <strong>Auto, Limited (16-235)</strong>, <strong>Full (0-255)</strong></td>
</tr>
<tr>
<td></td>
<td>EDID</td>
<td>Your device may be set to Normal (Limited) or Expand (Full).</td>
</tr>
<tr>
<td></td>
<td>Image Processing</td>
<td><strong>EDID</strong>: Changes the EDID settings; select <strong>Expanded</strong> when projecting a 3840 × 2160 signal at 60 Hz (not available when accessing a WirelessHD signal</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Image Processing</strong>: adjusts how images are processed; select <strong>Fast</strong> to display images quicker; select <strong>Fine</strong> to display images in higher quality; the <strong>Fast</strong> setting disables all image adjustment features.</td>
</tr>
</tbody>
</table>

**Note:** The **Reset** setting does not reset the **Diagonal Screen Size**, **3D Viewing Notice**, and **Aspect** settings. The **Aspect** setting is not available for HD video signals.

**Parent topic:** Adjusting the Menu Settings

**Related concepts**

- Image Aspect Ratio

**Related tasks**

- Viewing 3D Images
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>Varying levels available</td>
<td>Adjusts image shape to rectangular (vertically)</td>
</tr>
<tr>
<td>Blanking</td>
<td>Various settings</td>
<td>Covers part of the image with a black screen to hide raster lines at the edge of the screen. Using this feature reduces the image size.</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>HDMI Link</td>
<td>Device Connections</td>
<td>Adjusts the HDMI Link options</td>
</tr>
<tr>
<td></td>
<td>HDMI Link</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Audio Out Device</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Home Cinema 5050UBe)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power On Link</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Off Link</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Link Buffer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Device Connections</strong>: lists the devices connected to the HDMI1 and HDMI2 ports</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>HDMI Link</strong>: enables or disables the HDMI Link function</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Audio Out Device</strong>: selects which port on the WirelessHD Transmitter outputs audio</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Power On Link</strong>: controls what happens when you turn on the projector or a linked device</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>PJ -&gt; Device or Bidirectional</strong>: turns on the linked device when the projector is turned on</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Device -&gt; PJ or Bidirectional</strong>: turns on the projector when the linked device is turned on</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Power Off Link</strong>: controls whether linked devices are turned off when the projector is turned off</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Link Buffer</strong>: improves weak HDMI Link connections</td>
</tr>
<tr>
<td>WirelessHD</td>
<td>Connected Device</td>
<td>Adjusts settings for use with the WirelessHD transmitter</td>
</tr>
<tr>
<td>(Home Cinema 5050UBe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WirelessHD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Video Reception</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reset</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Connected Device</strong>: displays a list of available WirelessHD devices</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>WirelessHD</strong>: controls whether the projector receives WirelessHD signals</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Video Reception</strong>: displays the strength of the WirelessHD signal</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Reset</strong>: resets the WirelessHD settings to their defaults</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Lock Setting</td>
<td>Lens Lock&lt;br&gt;Child Lock&lt;br&gt;Control Panel Lock</td>
<td>Controls projector lens and control panel button locking to secure the projector &lt;br&gt;&lt;br&gt;&lt;strong&gt;Lens Lock&lt;/strong&gt;: locks the focus, zoom, and lens shift settings &lt;br&gt;&lt;strong&gt;Child Lock&lt;/strong&gt;: locks the power button &lt;br&gt;&lt;strong&gt;Control Panel Lock&lt;/strong&gt;: &lt;br&gt;• &lt;strong&gt;Full Lock&lt;/strong&gt;: locks all buttons &lt;br&gt;• &lt;strong&gt;Partial Lock&lt;/strong&gt;: locks all buttons except the power button &lt;br&gt;• &lt;strong&gt;Off&lt;/strong&gt;: no buttons locked</td>
</tr>
<tr>
<td>User Button</td>
<td>Fine/Fast (Image Processing)&lt;br&gt;3D Display&lt;br&gt;Power Consumption&lt;br&gt;Info&lt;br&gt;WiHD Video Reception (Home Cinema 5050UBe)</td>
<td>Assigns a menu option to the User button on the remote control for one-touch access</td>
</tr>
<tr>
<td>Setting</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Memory</td>
<td>Load Memory</td>
<td>Controls the saved projector settings and lens positions</td>
</tr>
<tr>
<td></td>
<td>Save Memory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Erase Memory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rename Memory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Load Lens Position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Save Lens Position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Erase Lens Position</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rename Lens Position</td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>The WirelessHD Reset option does not reset the settings on the WirelessHD Transmitter. To reset the transmitter settings, press and hold the Setup button on the WirelessHD Transmitter for five seconds.</td>
<td></td>
</tr>
<tr>
<td>Parent topic: Adjusting the Menu Settings</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**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>
</table>
| Home Screen   | Home Screen Auto Disp. Custom Function 1 Custom Function 2 | Adjust settings on the Home Screen  
**Home Screen Auto Disp.:** controls whether the Home screen displays automatically when the projector is turned on  
**Custom Function 1 / Custom Function 2:** let you customize the options displayed on the Home screen and save your settings as a preset |
| Display       | —                                | See the **Display** settings table in this topic                           |
### Display settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Menu Position</td>
<td>Selects the position of the projector menu displayed on the screen</td>
</tr>
<tr>
<td>Messages</td>
<td>Controls whether messages are displayed on the screen</td>
</tr>
<tr>
<td>Display Background</td>
<td>Selects the screen color or logo to display when no signal is received</td>
</tr>
<tr>
<td>Startup Screen</td>
<td>Controls whether a special screen appears when the projector starts up</td>
</tr>
<tr>
<td>Standby Confirmation</td>
<td>Displays a confirmation message after pressing the Standby button on the remote control</td>
</tr>
<tr>
<td>Panel Alignment</td>
<td>Corrects color misalignment in the projected image</td>
</tr>
<tr>
<td>Color Uniformity</td>
<td>Adjusts the color tone balance</td>
</tr>
</tbody>
</table>

### Operation settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>See the Operation settings table in this topic</td>
</tr>
<tr>
<td>Standby Mode</td>
<td>Indicates whether the projector can be monitored over a network while in standby mode</td>
</tr>
<tr>
<td>Language</td>
<td>Selects the language for projector menu and message displays (not changed by Reset option)</td>
</tr>
</tbody>
</table>

### Projection

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projection</td>
<td>Front</td>
<td>Selects the way the projector faces the screen so the image is oriented correctly</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>Description</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Direct Power On</td>
<td>Turns on the projector when you plug it in</td>
<td></td>
</tr>
<tr>
<td>Sleep Mode</td>
<td>Automatically places the projector in standby mode after an interval of inactivity</td>
<td></td>
</tr>
<tr>
<td>Sleep Mode Timer</td>
<td>Sets the time before the projector automatically turns off (Sleep Mode must be turned on)</td>
<td></td>
</tr>
<tr>
<td>Illumination</td>
<td>Turns off the status indicator lights on the projector</td>
<td></td>
</tr>
<tr>
<td>Trigger Out</td>
<td>Outputs a DC 12V signal at 200 mA maximum from the 3.5 mm mini-jack <strong>Trigger Out</strong> port whenever the projector is turned on.</td>
<td></td>
</tr>
<tr>
<td>High Altitude Mode</td>
<td>Regulates the projector’s operating temperature at altitudes above 4921 feet (1500 m)</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The **Reset** setting does not reset the **Memory**, **Projection**, **High Altitude Mode**, **Standby Mode** or **Language** settings.

**Parent topic:** Adjusting the Menu Settings

**Related concepts**
- Projection Modes

**Related references**
- Available Image Aspect Ratios

**Related tasks**
- Using the Home Screen
- Selecting External Network Detection Settings
- Adjusting the Color Convergence (Panel Alignment)
- Connecting to a Trigger Out Port

**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.
**Note:** Some settings are available only if the optional wireless LAN module is installed.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless LAN Power</td>
<td>On</td>
<td>Enable or disable wireless communication</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>Net. Info - Wireless LAN</td>
<td>Connection mode</td>
<td>Displays wireless network status and details</td>
</tr>
<tr>
<td></td>
<td>Wireless LAN Sys.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Antenna level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Projector Name</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SSID</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DHCP</td>
<td></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></td>
<td>MAC Address</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Region Code</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>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>Display the QR Code</td>
<td>—</td>
<td>Displays the QR Code</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 references**  
Wireless LAN Menu Settings  
Wireless Security Menu Settings  
**Related tasks**  
Selecting Wired Network Settings  

**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: To view the firmware version of the projector or other components, select **Version**.

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.

**Projector Info** information

<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</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>Scan Mode</td>
<td>Displays the scan mode 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>3D Format</td>
<td>Displays the format of the 3D signal</td>
</tr>
<tr>
<td>Sync Info</td>
<td>Displays information that may be needed by a service technician</td>
</tr>
<tr>
<td>Color Depth</td>
<td>Displays the color depth and color difference</td>
</tr>
<tr>
<td>Color Format</td>
<td>Displays information about the color space and dynamic range</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>0022</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>0027</td>
<td></td>
</tr>
<tr>
<td>0028</td>
<td></td>
</tr>
<tr>
<td>0029</td>
<td></td>
</tr>
<tr>
<td>0030</td>
<td></td>
</tr>
<tr>
<td>0031</td>
<td></td>
</tr>
<tr>
<td>0035</td>
<td></td>
</tr>
<tr>
<td>0434</td>
<td></td>
</tr>
<tr>
<td>0481</td>
<td></td>
</tr>
<tr>
<td>0482</td>
<td></td>
</tr>
<tr>
<td>0485</td>
<td></td>
</tr>
<tr>
<td>0432</td>
<td>Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0433</td>
<td>Cannot display the transferred images. Restart the network software.</td>
</tr>
<tr>
<td>0435</td>
<td>Communication with computer was disconnected. Restart the network software.</td>
</tr>
<tr>
<td>Event ID code</td>
<td>Cause and solution</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>04FE</td>
<td>The network software quit unexpectedly. Check the network communication status, then turn the projector off and then on again.</td>
</tr>
<tr>
<td>0479</td>
<td>A projector system error has occurred. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>04FF</td>
<td>A projector system error has occurred. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0891</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>0892</td>
<td>The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.</td>
</tr>
<tr>
<td>0894</td>
<td>Communication with unauthorized access point was disconnected. Contact your network administrator.</td>
</tr>
<tr>
<td>0898</td>
<td>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.</td>
</tr>
<tr>
<td>0020</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0026</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0032</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0036</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0037</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0038</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
<tr>
<td>0899</td>
<td>Communication error. Turn the projector off and then on again.</td>
</tr>
</tbody>
</table>

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 Config option on the Reset menu.

You can reset the projector's lamp usage timer to zero when you replace the lamp using the Reset Lamp Hours option, reset the lens position entries using the Reset Lens Position option, and reset all memory entries using the Reset Memory option.
**Note:** The **Reset Lens Position** option does not re-center the lens; it only deletes the saved settings.

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

- Language
- Lamp Hours
- Memory settings
- All settings in the Network menu
- Panel Alignment
- Color Uniformity

**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
Cleaning the Projector Case
Cleaning the 3D Glasses
Air Filter and Vent Maintenance
Projector Lamp Maintenance
Replacing the Remote Control Batteries

Parent topic: Maintaining and Transporting the Projector

Cleaning the Lens

Clean the projector's lens periodically, or whenever you notice dust or smudges on the surface.

Note: If the projector has been in use, wait 30 minutes before cleaning the lens.
• To remove dust or smudges, gently move the shutter to the side and wipe the lens with lens-cleaning paper.
• To remove stubborn smudges, moisten a soft, lint-free cloth with lens cleaner and gently wipe the lens. Do not spray any liquid directly on the lens.

**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 or any harsh materials to clean the lens and do not subject the lens to any impacts; you may damage it. Do not use canned air, or the gases may leave a residue. Avoid touching the lens with your bare hands to prevent fingerprints on or damage to the lens surface.

Parent topic: Projector Maintenance

### Cleaning the Projector Case

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

**Note:** If the projector has been in use, wait 30 minutes before cleaning it.

• 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, benzine, 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 flammable residue.

Parent topic: Projector Maintenance

### Cleaning the 3D Glasses

To remove dust, dirt, smudges, or fingerprints from the glasses, use a soft, dry, lint-free cloth.
Note: Unplug any charging cables from the glasses before cleaning them.

Caution: Do not use paper towels or any other abrasive materials to clean the glasses.

Parent topic: Projector Maintenance

Air Filter and Vent Maintenance

Regular filter maintenance is important to maintaining your projector. Your Epson projector is designed with an easily accessible, user-replaceable filter to protect your projector and make regular maintenance simple. Filter maintenance intervals will depend on the environment.

If regular maintenance is not performed, your Epson projector will notify you when the temperature inside the projector has reached a high level. Do not wait until this warning appears to maintain your projector filter as prolonged exposure to high temperatures may reduce the life of your projector or lamp.

Damage due to the failure to properly maintain the projector or its filter may not be covered by the projector or lamp Limited Warranties.

Cleaning the Air Filter
Replacing the Air Filter

Parent topic: Projector Maintenance

Related references
Projector Light Status

Cleaning the Air Filter

You need to clean the projector's air filter in the following situations:

- The filter or vents get dusty.
• You see a message telling you to clean it.
  1. Turn off the projector and unplug the power cord.
  2. Press and hold the tab on the air filter cover, and pull to remove the cover.

3. Pull the air filter out of the projector.
4. Tap each side of the air filter 4 to 5 times to shake off any excess dust.

Caution: Do not use excessive force when tapping the air filter, or it may crack and become unusable. Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not use canned air; the gases may leave a residue, or push dust and debris into the projector’s optics or other sensitive areas.

5. Vacuum the front of the air filter (the side with the tabs) to remove any remaining dust.

Note: If dust is difficult to remove or the air filter is damaged, replace the air filter.
6. Place the air filter back in the projector as shown.

7. Attach the air filter cover as shown.

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

**Related tasks**

Replacing the Air Filter

**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 to the ceiling or placed on a table.

1. Turn off the projector and unplug the power cord.
2. Press and hold the tab on the air filter cover, and pull to remove 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. Attach the air filter cover as shown.

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
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. If the projector is installed on the ceiling, stand to the side of the lamp cover and not underneath it; pieces of glass could fall into your eyes or mouth when you open the lamp cover.
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. Lower the handle.

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.

Caution: Do not over-tighten the screws.
9. Replace the lamp cover and tighten the screw to secure it.

![Image of lamp cover being replaced]

**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**.

![Reset menu screenshot](image)

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. Remove 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. 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

**Related references**
- Remote Control Specifications

**Transporting the Projector**

The projector contains precision parts, some of which are glass. Follow these guidelines to transport, ship, or store the projector safely:
• Remove any equipment connected to the projector.
• Center the lens position using the **Lens** button.

**Caution:** If you transport the projector when the lens is not centered, the lens shift mechanism may be damaged.

• 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

**Related tasks**
**Turning Off the Projector**
Solving Problems

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

Projection Problem Tips
Projector Light Status
Solving Image Problems
Solving Projector or Remote Control Operation Problems
Solving Network Problems
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 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 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 here.

1. Status light
2. Lamp light
3. Temp light
4. Power light

<table>
<thead>
<tr>
<th>Power light</th>
<th>Status light</th>
<th>Lamp light</th>
<th>Temp light</th>
<th>Status and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Standby or sleep mode</td>
</tr>
<tr>
<td>Blue</td>
<td>Blue</td>
<td>Off</td>
<td>Off</td>
<td>Normal operation</td>
</tr>
<tr>
<td>Power light</td>
<td>Status light</td>
<td>Lamp light</td>
<td>Temp light</td>
<td>Status and solution</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Blue</td>
<td>Flashing blue</td>
<td>Off</td>
<td>Off</td>
<td>Warming up; wait for an image to appear</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Shutting down; when the <strong>Status</strong> light stops flashing, you can unplug the projector</td>
</tr>
<tr>
<td>Blue</td>
<td>Varies</td>
<td>Off</td>
<td>Flashing orange</td>
<td>Projector is too hot</td>
</tr>
<tr>
<td></td>
<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></td>
<td>• Clean or replace the air filter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Make sure the environmental temperature is not too hot</td>
</tr>
<tr>
<td>Off</td>
<td>Flashing blue</td>
<td>Off</td>
<td>Orange</td>
<td>Projector has overheated and turned off; leave it turned off to cool down for about five minutes. After the fan has stopped, do the following:</td>
</tr>
<tr>
<td></td>
<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></td>
<td>• Clean or replace the air filter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• If operating the projector at high altitude, turn on <strong>High Altitude Mode</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• If the problem persists, unplug the projector and contact Epson for help</td>
</tr>
<tr>
<td>Power light</td>
<td>Status light</td>
<td>Lamp light</td>
<td>Temp light</td>
<td>Status and solution</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>-----------</td>
<td>------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Off</td>
<td>Flashing blue</td>
<td>Orange</td>
<td>Off</td>
<td>Lamp has a problem</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Check the Lamp Hours in the <strong>Info</strong> menu to see if the lamp is burned out. Unplug the projector, wait for the lamp to cool down, and check if it is broken or installed incorrectly; reseat or replace the lamp as necessary.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Clean or replace the air filter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Make sure the lamp cover is closed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• If operating the projector at high altitude, turn on <strong>High Altitude Mode</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• If the problem persists, unplug the projector and contact Epson for help</td>
</tr>
<tr>
<td>Blue</td>
<td>Varies</td>
<td>Flashing orange</td>
<td>Off</td>
<td>Replace the lamp soon to avoid damage; do not continue using the projector</td>
</tr>
<tr>
<td>Off</td>
<td>Flashing blue</td>
<td>Off</td>
<td>Flashing orange</td>
<td>A fan or sensor has a problem; turn the projector off, unplug it, and contact Epson for help</td>
</tr>
<tr>
<td>Off</td>
<td>Flashing blue</td>
<td>Flashing orange</td>
<td>Flashing orange</td>
<td>Auto Iris or Cinema Filter error; turn the projector off, unplug it, and contact Epson for help</td>
</tr>
<tr>
<td>Off</td>
<td>Flashing blue</td>
<td>Orange</td>
<td>Orange</td>
<td>Power error; turn the projector off, unplug it, and contact Epson for help</td>
</tr>
<tr>
<td>Off</td>
<td>Flashing blue</td>
<td>Flashing orange</td>
<td>Off</td>
<td>Internal projector error; turn the projector off, unplug it, and contact Epson for help</td>
</tr>
</tbody>
</table>

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

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

Solutions When No Image Appears
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 a 3D Image Does Not Display Correctly
Solutions When a WirelessHD Source Does Not Display Correctly

Parent topic: Solving Problems

Solutions When No Image Appears

If no image appears, try the following solutions:

- Make sure the lens cover is open all the way.
- Press the Blank 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.
- Press the Menu button. If the projector menu displays, there may be a problem with the connected video source, cable connection, or port.
• 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.
• 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.
• If the other solutions do not solve the problem, reset all of the projector settings using the options on the Reset menu.

Parent topic: Solving Image Problems

Related references
Image Quality Settings - Image Menu
Projector Setup Settings - Extended Menu

Related tasks
Unlocking the Projector's Buttons

Solutions When "No Signal" Message Appears

If the "No Signal" message appears, try the following solutions:
• Press the Source button on the projector repeatedly to cycle through the available sources. Wait a few seconds for an image to appear.
• Press a source button on the remote to select an available source. Wait a few seconds for an image to appear.
• Press the Home button on the remote control to select from a list of available sources.
• 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.
• Try a different video cable.
• If the other solutions do not solve the problem, reset all of the projector settings using the options on the Reset menu.
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 labeled with a monitor icon or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear. To display on both the laptop's monitor and the projector, try pressing the same keys again.

   **Note:** On Windows 7 or later, hold down the Windows key and press **P** at the same time, then click **Duplicate**.

2. 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 and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)

3. If necessary, check your video card settings and set the multiple display option to **Clone**, **Mirror**, or **Duplicate**.

**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**, **Display**, or **Color LCD**.

2. Click the **Arrange** or **Arrangement** tab.

3. 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:

- Set the computer's display resolution to the native resolution of the projector.
• 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.)
• As a test, try setting the computer's display resolution to the lowest possible setting, and then gradually increase it as necessary.
• Check the input resolution under **Projector Info** in the **Info** menu and make sure that the projector supports that resolution.

Parent topic: Solving Image Problems

Related references
Input Signal Settings - Signal Menu
Projector Setup Settings - Extended Menu
Supported Video Display Formats

Solutions When Only a Partial Image Appears

If only a partial computer image appears, try the following solutions:
• Try adjusting the image position using the **Lens** button on the remote control or control panel.
• Press the **Aspect** button on the remote control to select a different image aspect ratio.
• Select a different image aspect ratio in the Signal menu.
• Check the cables connecting the computer or video source to the projector. Try connecting different cables.
• 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 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:
• Place the projector directly in front of the center of the screen, facing it squarely, if possible.
• Try to fix the image using lens shift before adjusting the **Keystone** setting.
• If you adjusted the projector height using the projector feet, press the keystone buttons on the projector to adjust the image shape.
• Adjust the image shape using the **Keystone** menu setting.

**Parent topic:** Solving Image Problems

**Related references**
- Projector Feature Settings - Settings Menu

**Related tasks**
- Correcting Image Shape With the Keystone Buttons

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**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
  • No longer than 9.8 feet (3 m) for VGA/computer cables or 24 feet (7.3 m) for HDMI cables
• 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 **Deinterlacing** and **Noise Reduction** settings.
• Select a computer video resolution and refresh rate that are compatible with the projector.
• 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.
• Try turning off **Frame Interpolation** or turning on **Image Enhancement** in the Image menu.

**Parent topic:** Solving Image Problems

**Related references**
- Image Quality Settings - Image Menu
- Input Signal Settings - Signal Menu
- Supported Video Display Formats
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.
• Check the lens for condensation.

**Note:** To avoid condensation on the lens after bringing the projector in from a cold environment, let the projector warm up to room temperature before using it.

• 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, adjust the computer's resolution to match the projector's native resolution, if possible.
• Check the resolution of your video source. If you are projecting from a standard definition video source, your image will not be as clear as an HD (720p/1080i/1080p) video source.

**Parent topic:** Solving Image Problems

**Related references**

Projection Distance
Image Quality Settings - Image Menu

**Related tasks**

Focusing the Image with the Lens Button
Cleaning the Lens

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.
• Check your video source settings.
• Turn off the HDR mode in the **Dynamic Range** setting or set the **Color Space** setting to **BT.709**.
• For HDR images, set the **Dynamic Range** setting to **Auto**.
• Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.
• Position the projector close enough to the screen.
• If the image has been progressively darkening, you may need to replace the projector lamp soon.

**Parent topic:** Solving Image Problems

**Related references**
- Image Quality Settings - Image Menu
- Projector Setup Settings - Extended Menu

### Solutions When a 3D Image Does Not Display Correctly

If a 3D image does not display correctly, try the following solutions:

• Make sure the **3D Display** setting on the Signal menu is set to **Auto** or **3D**.
• Make sure your video device and media are both 3D-compatible. Refer to the documentation that came with your video device for more information.
• Make sure you are using an HDMI cable that supports 3D signals.
• Make sure you selected the correct **3D Format** setting on the Signal menu. Normally this should be set to **Auto**, but in some cases you may need to select a different setting to match the 3D signal from your video device.
• Make sure you are using RF 3D active shutter glasses. You can purchase them from Epson.
• Make sure your 3D glasses are turned on and fully charged. If the glasses have entered standby mode, slide the power switch on the glasses to the **Off** position and then back to the **On** position.
• Make sure your 3D glasses are paired with the projector.
• Adjust the **3D Depth** setting on the Signal menu.
• Make sure you are within the 3D viewing range.
• To minimize 3D crosstalk, reduce the brightness of 3D images by selecting the following settings:
  • **Color Mode**: **3D Cinema**
  • **3D Brightness**: **Low**
  • **3D Depth**: **0**
  • **HDMI Video Range**: **Normal**
• Make sure your screen size matches the **Diagonal Screen Size** setting on the Signal menu.
• Avoid using the projector near wireless networks, microwave ovens, 2.4 GHz cordless phones, or other devices that use the 2.4 GHz frequency band. These devices can interfere with the signal between the projector and the 3D glasses.

• If the other solutions do not solve the problem, change the **Inverse 3D Glasses** setting on the Signal menu. Return the setting to its original value if changing it does not solve the problem as it can adversely affect the 3D image.

**Parent topic:** Solving Image Problems

**Related references**

- Projector Feature Settings - Settings Menu
- 3D Viewing Range
- Optional Equipment and Replacement Parts

**Related tasks**

- Pairing the 3D Glasses with the Projector
- Charging the 3D Glasses
- Cleaning the 3D Glasses

**Solutions When a WirelessHD Source Does Not Display Correctly**

If a WirelessHD source does not display correctly, try the following solutions:

• Make sure WirelessHD is selected as the image source on the projector.

• Select the WirelessHD Video Reception option in the Settings menu and check the strength of the WirelessHD signal. If the signal is weak, you may need to move the transmitter closer to the projector or remove any large objects located between the transmitter and the projector.

• Make sure that your projector is connected to the correct WirelessHD device. It can take up to 30 seconds for a signal to sync and appear after connecting.

• You may need to reset the WirelessHD connection. Turn off both the WirelessHD transmitter and the projector. Start playback on your video device, then turn on the WirelessHD transmitter and the projector. Wait 10 seconds, then press the **Setup** button on the bottom of the transmitter.

• Make sure the WirelessHD transmitter is within 32 feet (10 m) of the projector, isn’t obstructed by any large objects, and is not placed on a metal surface.

• If you are viewing wireless content, make sure that the WiHD light on the transmitter is on. If it is off, press the **WiHD/Pass** button on the remote control or transmitter.

• If you are viewing wireless content, make sure that the WiHD light on the transmitter is on. If it is off, press the **Output** button on the remote control or the **WiHD/Pass** button on the transmitter.
• Make sure the HDMI cable between the source and the WirelessHD transmitter conforms to HDMI standards.

Parent topic: Solving Image Problems

Related references
WirelessHD Transmission Range

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
Solutions to Problems with the Remote Control
Solutions to Panel Alignment Problems
Solutions When Using HDMI Link

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.

• If the projector's lamp shuts off unexpectedly, it may have entered standby mode after a period of inactivity. Press the power button to wake the projector and adjust the Sleep Mode Timer setting to change the sleep interval.

• Turn off the HDMI Link setting. If this resolves the issue, check the settings on connected devices and make sure the projector is not receiving shut down requests over CEC.

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

• The power cord may be defective. Try another power cord. If that doesn't work, disconnect the cord and contact Epson.

• Make sure the lamp and lamp cover are installed correctly.

Parent topic: Solving Projector or Remote Control Operation Problems
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.
- Make sure the projector is not warming up or shutting down.
- 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 on one of the remote receivers in the projector’s menu system, or check if all the remote receivers were turned off.
- If you lose the remote control, you can purchase another from an authorized Epson reseller.
- If you are using the WirelessHD buttons on the remote, make sure you point the remote at the WirelessHD transmitter.

Parent topic: Solving Projector or Remote Control Operation Problems

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

Related tasks
Replacing the Remote Control Batteries
Solutions to Panel Alignment Problems
If the panel alignment does not result in a satisfactory picture, try the following solutions:
• Make sure the Projection setting matches the installation position.
• Make sure the projection surface is not colored or textured. Project on a white surface with no texture.
• Leave the projector on for 10 to 15 minutes before adjusting the panel alignment.
• The projected image size should be at least 60 inches (152 cm) during panel alignment.
• If the image contains too much magenta, adjust the red and blue panels.
• If the pattern lines look fuzzy or out of focus, adjust the focus before performing the panel alignment.

Parent topic: Solving Projector or Remote Control Operation Problems
Related references
Projection Distance
Related tasks
Focusing the Image with the Lens Button
Adjusting the Color Convergence (Panel Alignment)

Solutions When Using HDMI Link
If you cannot control an HDMI device using the HDMI Link buttons, try the following solutions:
• Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
• Make sure the cables meet the HDMI CEC standard.
• Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information.
• If you connected a new device or changed any connections, make sure the CEC function is set for the connected device. You may need to restart the device.
• Connect no more than three devices that support HDMI Link at the same time.
• If you have connected a speaker or receiver, set the output to PCM.

Parent topic: Solving Projector or Remote Control Operation Problems

Solving Network Problems
Check the solutions in these sections if you have problems using the projector on a network.
Solutions When Wireless Authentication Fails

If you cannot authenticate a wireless connection, try the following solutions:

- Make sure the **Wireless LAN Power** setting is set to **On**.
- Check the Security settings and passphrase in the Network Configuration menu.
- Check the Event ID number displayed in the Info menu and check the link below to identify the problem.

**Parent topic:** Solving Network Problems

**Related references**
- Projector Feature Settings - Settings Menu
- Projector Network Settings - Network Menu
- Event ID Code List

Solutions When the Image Contains Static During Network Projection

If the projected image contains static during network projection, try the following solutions:

- Check for any obstacles between the access point, the computer, the mobile device, and the projector. If necessary, change their positions to improve communication. Also make sure that they are not too far apart; move them closer together and try to connect again.
- If the wireless connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.
- If the connection speed declines, reduce the number of connected devices.

**Parent topic:** Solving Network Problems

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 [epson.com/support](http://epson.com/support) (U.S.), [epson.ca/support](http://epson.ca/support) (Canada), or [epson.com.jm/support](http://epson.com.jm/support) (Caribbean) and select your product for solutions to common problems with your projector.
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. 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 the 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) in the U.S. or 800-807-7766 in Canada. Or you can purchase online at epsonstore.com (U.S. sales) or epsonstore.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
Remote Control Specifications
Projector Dimension Specifications
Projector Electrical Specifications
Projector Environmental Specifications
Projector Safety and Approvals Specifications
Supported Video Display Formats

General Projector Specifications

Type of display Poly-silicon TFT active matrix
Resolution 1920 × 1080 pixels (1080P)
Lens F=2.0 to 3.0
Focal length: 22.5 to 46.7 mm
Color reproduction Full color, up to 1.07 billion colors
Brightness High Power Consumption mode:
White light output 2600 lumens (ISO 21118 standard)
Color light output 2600 lumens

Note: Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118.

Contrast ratio 1,000,000:1 with Dynamic Color Mode, Auto Iris on, low Power Consumption mode, Wide Zoom ratio, Lens shift vertical 10:0 and horizontal center, and Contrast 100%

Image size 50 inches (1.27 m) to 300 inches (7.62 m)
**Projection distance**
58.3 inches (1.48 m) to 748 inches (18.99 m)

**Projection methods**
Front, rear, ceiling-mounted

**Optical aspect ratio**
16:9

**Focus adjustment**
Powered

**Zoom adjustment**
Powered

**Zoom ratio**
1 to 2.1

**Noise level**
31 dB (High Power Consumption mode)
20 dB (ECO Power Consumption mode)

**Keystone correction angle**
± 30°

**USB Type B port compatibility**
USB 1.1 and 2.0 compliant for service and firmware update

**USB Type A port compatibility**
Two USB 1.1 and 2.0 compliant ports; one for wireless LAN, firmware update, and copying menu settings, and one for optical HDMI cable with 300mA power supply

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**Parent topic:** Technical Specifications

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**Projector Lamp Specifications**

**Type**
UHE (Ultra High Efficiency)

**Power consumption**
250 W

**Lamp life**
High Power Consumption mode:
Up to about 3500 hours
ECO Power Consumption mode:
Up to about 5000 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.
Remote Control Specifications

Reception range: 32 feet (10 m)
Batteries: Two alkaline or manganese AA

Projector Dimension Specifications

Height (excluding feet): 6.7 inches (170 mm)
Width: 20.5 inches (520 mm)
Depth: 17.7 inches (450 mm)
Weight:
- **Home Cinema 5050UB**: 24.7 lb (11.2 kg)
- **Home Cinema 5050UBe**: 25.1 lb (11.4 kg)

Projector Electrical Specifications

Rated frequency: 50/60 Hz
Power supply:
- 100 to 240 V AC ±10%
- 3.8 to 1.7 A

Power consumption:
- Operating:
  - High Power Consumption mode: 373 W
  - ECO Power Consumption mode: 283 W
- Standby:
  - 0.3 W (Communication Off), 2.0 W (Communication On)
Power consumption
(220 to 240 V)
 Operating:
High Power Consumption mode: 355 W
ECO Power Consumption mode: 271 W
Standby:
0.3 W (Communication Off), 2.0 W (Communication On)

Parent topic: Technical Specifications

Projector Environmental Specifications

Temperature
Operating: 41 to 95 °F (5 to 35 °C) up to 7500 ft (2286 m)
Operating: 41 to 86 °F (5 to 30 °C) above 7500 ft (2286 m)
Storage: 14 to 140 °F (-10 to 60 °C)

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

Operating altitude
Up to 4921 feet (1500 m)
Up to 10000 feet (3048 m) with High Altitude Mode enabled

Parent topic: Technical Specifications

Related references
Projector Setup Settings - Extended Menu

Projector Safety and Approvals Specifications

United States
FCC Part 15B Class B
UL60950-1 2nd edition/UL62368-1 2nd edition (cTUVus Mark)

Canada
ICES-003 Class B
CSA C22.2 No. 60950-1-07/CSA C22.2 No. 62368-1-14 (cTUVus Mark)

Parent topic: Technical Specifications
**Supported Video Display Formats**

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

The table here 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</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 × 768</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>1280 × 800</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>1366 × 768</td>
</tr>
<tr>
<td>SXGA</td>
<td>60</td>
<td>1280 × 960</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>1280 × 1024</td>
</tr>
<tr>
<td>WXGA++</td>
<td>60</td>
<td>1600 × 900</td>
</tr>
<tr>
<td><strong>HDMI input signals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>60</td>
<td>640 × 480</td>
</tr>
<tr>
<td>SDTV (480i/480p)</td>
<td>59.94</td>
<td>720 × 480</td>
</tr>
<tr>
<td>SDTV (576i/576p)</td>
<td>50</td>
<td>720 × 576</td>
</tr>
<tr>
<td>HDTV (720p)</td>
<td>50/59.94/60</td>
<td>1280 × 720</td>
</tr>
<tr>
<td>HDTV (1080i)</td>
<td>50/59.94/60</td>
<td>1920 × 1080</td>
</tr>
<tr>
<td>HDTV (1080p)</td>
<td>23.98/24/29.97/30/50/59.94/60</td>
<td>1920 × 1080</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>4K × 2K</td>
<td>23.98/24/25/29.97/30/50/59.94/60</td>
<td>3840 × 2160</td>
</tr>
<tr>
<td></td>
<td>23.98/24/25/29.97/30/50/59.94/60</td>
<td>4096 × 2160</td>
</tr>
</tbody>
</table>

**HDMI 3D Signals**

<table>
<thead>
<tr>
<th>Display format</th>
<th>Refresh rate (in Hz)</th>
<th>Resolution (in pixels)</th>
<th>3D formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDTV (720p)</td>
<td>50/59.94/60</td>
<td>1280 × 720</td>
<td>Frame Packing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Side by Side</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Top and Bottom</td>
</tr>
<tr>
<td>HDTV (1080i)</td>
<td>50/59.94/60</td>
<td>1920 × 1080</td>
<td>Side by Side</td>
</tr>
<tr>
<td>HDTV (1080p)</td>
<td>50/59.94/60</td>
<td>1920 × 1080</td>
<td>Side by Side</td>
</tr>
<tr>
<td></td>
<td>23.98/24/50/59.94/60</td>
<td>1920 × 1080</td>
<td>Frame Packing (23.98/24 only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Side by Side</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Top and Bottom (23.98/24 only)</td>
</tr>
</tbody>
</table>

**MHL 3D Input Signals (via optional WirelessHD Transmitter; HDMI4 port only)**

<table>
<thead>
<tr>
<th>Display format</th>
<th>Refresh rate (in Hz)</th>
<th>Resolution (in pixels)</th>
<th>3D formats</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDTV (720p)</td>
<td>50/60</td>
<td>1280 × 720</td>
<td>Side by Side</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Top and Bottom</td>
</tr>
<tr>
<td>HDTV (1080i)</td>
<td>50/60</td>
<td>1920 × 1080</td>
<td>Side by Side</td>
</tr>
<tr>
<td>HDTV (1080p)</td>
<td>50/60</td>
<td>1920 × 1080</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>1920 × 1080</td>
<td>Side by Side</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Top and Bottom</td>
</tr>
</tbody>
</table>

**WirelessHD Input Signal MHL (HDMI4 port only)**
<table>
<thead>
<tr>
<th>Display format</th>
<th>Refresh rate (in Hz)</th>
<th>Resolution (in pixels)</th>
</tr>
</thead>
<tbody>
<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>
<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>
<tr>
<td>4K × 2K</td>
<td>24/25/30</td>
<td>3840 × 2160</td>
</tr>
</tbody>
</table>

**Compatible 4K HDR Signals**

Compatible 4K signals are converted for output as an HDR image. For example, a 4K 60 Hz 4:4:4 8-bit signal is converted to a 4:2:2 10-bit HDR signal.

Press the **Menu** button on the remote control and select the **Info** menu to determine whether you are receiving an HDR signal.

<table>
<thead>
<tr>
<th>Display format (refresh rate)</th>
<th>Refresh rate (in Hz)</th>
<th>Resolution (in pixels)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4K × 2K</td>
<td>23.98/24/25/29.97/30/50/59.94/60</td>
<td>3840 × 2160</td>
</tr>
<tr>
<td></td>
<td>23.98/24/25/29.97/30/50/59.94/60</td>
<td>4096 × 2160</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Display format (refresh rate)</th>
<th>Chroma subsampling (pixel encoding)</th>
<th>Color depth: 24 bits (8-bits per pixel)</th>
<th>Color depth: 30 bits (10-bits per pixel)</th>
<th>Color depth: 36 bits (12-bits per pixel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4K/60p (60 Hz)</td>
<td>4:4:4</td>
<td>HDR</td>
<td>HDR</td>
<td>HDR</td>
</tr>
<tr>
<td></td>
<td>4:2:2</td>
<td>HDR</td>
<td>HDR</td>
<td>HDR</td>
</tr>
<tr>
<td></td>
<td>4:2:0</td>
<td>HDR</td>
<td>HDR</td>
<td>HDR</td>
</tr>
<tr>
<td>4K/24p (24 Hz)</td>
<td>4:4:4</td>
<td>HDR</td>
<td>HDR</td>
<td>HDR</td>
</tr>
<tr>
<td></td>
<td>4:2:2</td>
<td>HDR</td>
<td>HDR</td>
<td>HDR</td>
</tr>
<tr>
<td></td>
<td>4:2:0</td>
<td>This signal does not exist.</td>
<td></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
List of Safety Symbols
FCC Compliance Statement
Binding Arbitration and Class Waiver
Trademarks
Copyright Notice

Recycling

Epson offers a recycling program for end of life products. Please go to this site 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. Avoid standing in front of the projector so the bright light does not shine into 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.
• 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, sources of heat, high-voltage electrical wires, or sources of magnetic fields.
• 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 a dusty outlet. 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. Do not overload wall outlets, extension cords, or power strips. Failure to comply with these precautions could result in fire or electric shock.
• Do not place the projector where the cord can be walked on. This may result in fraying or damage to the plug.
• Unplug the projector from the wall outlet and allow to cool 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, any sprays containing flammable gas, or solvents such as alcohol, paint thinner, or benzine.
• 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. Do not cover the projector with a blanket, curtain, or tablecloth. 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 projector.
• Do not operate the projector in a closed-in cabinet unless proper ventilation is provided.
• Never allow objects of any kind to enter any openings in the projector. Do not leave objects, especially flammable objects, near the projector. Never spill liquid of any kind into the projector.

• 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 or store the projector where it may be exposed to smoke, steam, corrosive gases, excessive dust, vibration, or shock.

• Do not use the projector where flammable or explosive gases may be present.

• 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 below:

  41 to 95 °F (5 to 35 °C) at an altitude of 7500 feet (2286 m) or less, or 41 to 86 °F (5 to 30 °C) at a higher altitude

  Doing so may cause an unstable display and could lead to projector damage. Do not use or store the projector where it may be exposed to sudden changes in temperature.
• Do not store the projector outside of the required temperature range of 14 to 140 °F (–10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

• Do not 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. Do not bring your face close to the projector while it is in use.

• 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 or mouth when you open the lamp cover. If pieces of glass do get into your eyes or mouth, seek medical advice immediately.

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.

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.
List of Safety Symbols

The following table lists the meaning of the safety symbols labeled on the equipment.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Approved Standards</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Symbol]</td>
<td>IEC60417 No.5007</td>
<td>&quot;ON&quot; (power) To indicate connection to the mains.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC60417 No.5008</td>
<td>&quot;OFF&quot; (power) To indicate disconnection from the mains.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC60417 No.5009</td>
<td>Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>ISO7000 No.0434B, IEC3864-B3.1</td>
<td>Caution To identify general caution when using the product.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC60417 No.5041</td>
<td>Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC60417 No.6042 ISO3864-B3.6</td>
<td>Caution, risk of electric shock To identify equipment that has risk of electric shock.</td>
</tr>
<tr>
<td>Symbol</td>
<td>Approved Standards</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| ![House](symbol.png) | IEC60417 No.5957 | For indoor use only  
To identify electrical equipment designed primarily for indoor use. |
| ![Polarity](symbol.png) | IEC60417 No.5926 | Polarity of DC power connector  
To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC power supply may be connected. |
| ![Polarity](symbol.png) | — | Polarity of DC power connector  
To identify the positive and negative connections (the polarity) on a piece of equipment to which a DC power supply may be connected. |
| ![Battery](symbol.png) | IEC60417 No.5001B | Battery, general  
On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals. |
| ![Battery](symbol.png) | IEC60417 No.5002 | Positioning of cell  
To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder. |
| ![Battery](symbol.png) | — | Positioning of cell  
To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder. |
| ![Protective Earth](symbol.png) | IEC60417 No.5019 | Protective earth  
To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode. |
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Approved Standards</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Earth Symbol" /></td>
<td>IEC60417 No.5017</td>
<td>Earth To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required.</td>
</tr>
<tr>
<td><img src="image" alt="Alternating Current Symbol" /></td>
<td>IEC60417 No.5032</td>
<td>Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.</td>
</tr>
<tr>
<td><img src="image" alt="Direct Current Symbol" /></td>
<td>IEC60417 No.5031</td>
<td>Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.</td>
</tr>
<tr>
<td><img src="image" alt="Class II Equipment Symbol" /></td>
<td>IEC60417 No.5172</td>
<td>Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.</td>
</tr>
<tr>
<td><img src="image" alt="General Prohibition Symbol" /></td>
<td>ISO 3864</td>
<td>General prohibition To identify actions or operations that are prohibited.</td>
</tr>
<tr>
<td><img src="image" alt="Contact Prohibition Symbol" /></td>
<td>ISO 3864</td>
<td>Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.</td>
</tr>
<tr>
<td><img src="image" alt="Never Look into Projector Lens Symbol" /></td>
<td>—</td>
<td>Never look into the projector lens while the projector is on.</td>
</tr>
<tr>
<td><img src="image" alt="Never Place Anything on Projector Symbol" /></td>
<td>—</td>
<td>To indicate that the marked item don’t place anything on projector.</td>
</tr>
<tr>
<td>Symbol</td>
<td>Approved Standards</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>ISO3864 IEC60825-1</td>
<td>Caution, laser radiation To indicate the equipment has a laser radiation part.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>ISO 3864</td>
<td>Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC60417 No. 5266</td>
<td>Standby, partial standby To indicate that part of the equipment is in the ready status.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>ISO3864 IEC60417 No. 5057</td>
<td>Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC 60417-6056</td>
<td>Caution (movable fan blades) To indicate that you must keep away from movable parts according to protection standards.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>IEC 60417-6043</td>
<td>Caution (sharp corners) To indicate that you must not touch the sharp corners of the product according to protection standards.</td>
</tr>
<tr>
<td>![Symbol]</td>
<td>—</td>
<td>Never look into the projection lens while the projector is on.</td>
</tr>
</tbody>
</table>

Parent topic: Notices
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 communications. 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

CAN ICES-3(B)/NMB-3(B)

Parent topic: Notices
Binding Arbitration and Class Waiver

1. DISPUTES, BINDING INDIVIDUAL ARBITRATION, AND WAIVER OF CLASS ACTIONS AND CLASS ARBITRATIONS

1.1 Disputes. The terms of this Section 1 shall apply to all Disputes between you and Epson. The term "Dispute" is meant to have the broadest meaning permissible under law and includes any dispute, claim, controversy or action between you and Epson arising out of or relating to this Agreement, Epson branded products (hardware and including any related software), or other transaction involving you and Epson, whether in contract, warranty, misrepresentation, fraud, tort, intentional tort, statute, regulation, ordinance, or any other legal or equitable basis. "DISPUTE" DOES NOT INCLUDE IP CLAIMS, or more specifically, a claim or cause of action for (a) trademark infringement or dilution, (b) patent infringement, (c) copyright infringement or misuse, or (d) trade secret misappropriation (an "IP Claim"). You and Epson also agree, notwithstanding Section 1.6, that a court, not an arbitrator, may decide if a claim or cause of action is for an IP Claim.

1.2 Binding Arbitration. You and Epson agree that all Disputes shall be resolved by binding arbitration according to this Agreement. ARBITRATION MEANS THAT YOU WAIVE YOUR RIGHT TO A JUDGE OR JURY IN A COURT PROCEEDING AND YOUR GROUNDS FOR APPEAL ARE LIMITED. Pursuant to this Agreement, binding arbitration shall be administered by JAMS, a nationally recognized arbitration authority, pursuant to its code of procedures then in effect for consumer related disputes, but excluding any rules that permit joinder or class actions in arbitration (for more detail on procedure, see Section 1.6 below). You and Epson understand and agree that (a) the Federal Arbitration Act (9 U.S.C. §1, et seq.) governs the interpretation and enforcement of this Section 1, (b) this Agreement memorializes a transaction in interstate commerce, and (c) this Section 1 shall survive termination of this Agreement.

1.3 Pre-Arbitration Steps and Notice. Before submitting a claim for arbitration, you and Epson agree to try, for sixty (60) days, to resolve any Dispute informally. If Epson and you do not reach an agreement to resolve the Dispute within the sixty (60) days, you or Epson may commence an arbitration. Notice to Epson must be addressed to: Epson America, Inc., ATTN: Legal Department, 3840 Kilroy Airport Way, Long Beach, CA 90806 (the "Epson Address"). The Dispute Notice to you will be sent to the most recent address Epson has in its records for you. For this reason, it is important to notify us if your address changes by emailing us at EAILegal@ea.epson.com or writing us at the Epson Address above. Notice of the Dispute shall include the sender's name, address and contact information, the facts giving rise to the Dispute, and the relief requested (the "Dispute Notice"). Following receipt of the Dispute Notice, Epson and you agree to act in good faith to resolve the Dispute before commencing arbitration.

1.4 Small Claims Court. Notwithstanding the foregoing, you may bring an individual action in the small claims court of your state or municipality if the action is within that court's jurisdiction and is pending only in that court.
1.5 WAIVER OF CLASS ACTIONS AND CLASS ARBITRATIONS. YOU AND EPSON AGREE THAT EACH PARTY MAY BRING DISPUTES AGAINST THE OTHER PARTY ONLY IN AN INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY CLASS OR REPRESENTATIVE PROCEEDING, INCLUDING WITHOUT LIMITATION FEDERAL OR STATE CLASS ACTIONS, OR CLASS ARBITRATIONS. CLASS ACTION LAWSUITS, CLASS-WIDE ARBITRATIONS, PRIVATE ATTORNEY-GENERAL ACTIONS, AND ANY OTHER PROCEEDING WHERE SOMEONE ACTS IN A REPRESENTATIVE CAPACITY ARE NOT ALLOWED. ACCORDINGLY, UNDER THE ARBITRATION PROCEDURES OUTLINED IN THIS SECTION, AN ARBITRATOR SHALL NOT COMBINE OR CONSOLIDATE MORE THAN ONE PARTY’S CLAIMS WITHOUT THE WRITTEN CONSENT OF ALL AFFECTED PARTIES TO AN ARBITRATION PROCEEDING.

1.6 Arbitration Procedure. If you or Epson commences arbitration, the arbitration shall be governed by the rules of JAMS that are in effect when the arbitration is filed, excluding any rules that permit arbitration on a class or representative basis (the "JAMS Rules"), available at http://www.jamsadr.com or by calling 1-800-352-5267, and under the rules set forth in this Agreement. All Disputes shall be resolved by a single neutral arbitrator, and both parties shall have a reasonable opportunity to participate in the selection of the arbitrator. The arbitrator is bound by the terms of this Agreement. The arbitrator, and not any federal, state or local court or agency, shall have exclusive authority to resolve all disputes arising out of or relating to the interpretation, applicability, enforceability or formation of this Agreement, including any claim that all or any part of this Agreement is void or voidable. Notwithstanding this broad delegation of authority to the arbitrator, a court may determine the limited question of whether a claim or cause of action is for an IP Claim, which is excluded from the definition of "Disputes" in Section 1.1 above. The arbitrator shall be empowered to grant whatever relief would be available in a court under law or in equity. The arbitrator may award you the same damages as a court could, and may award declaratory or injunctive relief only in favor of the individual party seeking relief and only to the extent necessary to provide relief warranted by that party’s individual claim. In some instances, the costs of arbitration can exceed the costs of litigation and the right to discovery may be more limited in arbitration than in court. The arbitrator’s award is binding and may be entered as a judgment in any court of competent jurisdiction.

You may choose to engage in arbitration hearings by telephone. Arbitration hearings not conducted by telephone shall take place in a location reasonably accessible from your primary residence, or in Orange County, California, at your option.

a) Initiation of Arbitration Proceeding. If either you or Epson decides to arbitrate a Dispute, both parties agree to the following procedure:

(i) Write a Demand for Arbitration. The demand must include a description of the Dispute and the amount of damages sought to be recovered. You can find a copy of a Demand for Arbitration at http://www.jamsadr.com ("Demand for Arbitration").

(ii) Send three copies of the Demand for Arbitration, plus the appropriate filing fee, to: JAMS, 500 North State College Blvd., Suite 600 Orange, CA 92868, U.S.A.
(iii) Send one copy of the Demand for Arbitration to the other party (same address as the Dispute Notice), or as otherwise agreed by the parties.

b) Hearing Format. During the arbitration, the amount of any settlement offer made shall not be disclosed to the arbitrator until after the arbitrator determines the amount, if any, to which you or Epson is entitled. The discovery or exchange of non-privileged information relevant to the Dispute may be allowed during the arbitration.

c) Arbitration Fees. Epson shall pay, or (if applicable) reimburse you for, all JAMS filings and arbitrator fees for any arbitration commenced (by you or Epson) pursuant to provisions of this Agreement.

d) Award in Your Favor. For Disputes in which you or Epson seeks $75,000 or less in damages exclusive of attorney's fees and costs, if the arbitrator's decision results in an award to you in an amount greater than Epson's last written offer, if any, to settle the Dispute, Epson will: (i) pay you $1,000 or the amount of the award, whichever is greater; (ii) pay you twice the amount of your reasonable attorney's fees, if any; and (iii) reimburse you for any expenses (including expert witness fees and costs) that your attorney reasonably accrues for investigating, preparing, and pursuing the Dispute in arbitration. Except as agreed upon by you and Epson in writing, the arbitrator shall determine the amount of fees, costs, and expenses to be paid by Epson pursuant to this Section 1.6d).

e) Attorney's Fees. Epson will not seek its attorney's fees and expenses for any arbitration commenced involving a Dispute under this Agreement. Your right to attorney's fees and expenses under Section 1.6d) above does not limit your rights to attorney's fees and expenses under applicable law; notwithstanding the foregoing, the arbitrator may not award duplicative awards of attorney's fees and expenses.

1.7 Opt-out. You may elect to opt-out (exclude yourself) from the final, binding, individual arbitration procedure and waiver of class and representative proceedings specified in this Agreement by sending a written letter to the Epson Address within thirty (30) days of your assent to this Agreement (including without limitation the purchase, download, installation of the Software or other applicable use of Epson Hardware, products and services) that specifies (i) your name, (ii) your mailing address, and (iii) your request to be excluded from the final, binding individual arbitration procedure and waiver of class and representative proceedings specified in this Section 1. In the event that you opt-out consistent with the procedure set forth above, all other terms shall continue to apply, including the requirement to provide notice prior to litigation.

1.8 Amendments to Section 1. Notwithstanding any provision in this Agreement to the contrary, you and Epson agree that if Epson makes any future amendments to the dispute resolution procedure and class action waiver provisions (other than a change to Epson's address) in this Agreement, Epson will obtain your affirmative assent to the applicable amendment. If you do not affirmatively assent to the applicable amendment, you are agreeing that you will arbitrate any Dispute between the parties in accordance with the language of this Section 1 (or resolve disputes as provided for in Section 1.7, if you timely elected to opt-out when you first assented to this Agreement).
1.9 **Severability.** If any provision in this Section 1 is found to be unenforceable, that provision shall be severed with the remainder of this Agreement remaining in full force and effect. **The foregoing shall not apply to the prohibition against class or representative actions as provided in Section 1.5.** This means that if Section 1.5 is found to be unenforceable, the entire Section 1 (but only Section 1) shall be null and void.

Parent topic: Notices

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**EPSON**

**EXCEED YOUR VISION**

Parent topic: Notices

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A Note Concerning Responsible Use of Copyrighted Materials

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A Note Concerning Responsible Use of Copyrighted Materials

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Copyright Attribution

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Parent topic: Copyright Notice
Quick Setup

IMPORTANT: Before using this product, make sure you read these instructions and the safety instructions in the online User’s Guide.

Choose a location

Keep the projector level and place it at a height so its lens is even with the top or bottom of the screen and is centered horizontally. If this isn’t possible, see the lens shift feature or the keystone correction button on the projector to reposition the image (see “Adjust the image”).

In order to view 3D images correctly, RF 3D glasses must be worn within 32 feet (10 m) of the projector. Use the image below to determine the viewing distance for 3D projection (the shading represents the 3D viewing area):

See the online User’s Guide for more information on where to place your projector.

Connect the projector

Choose from the following connections. For additional connection types, see the online User’s Guide.

Video device

1. Home Cinema 5050UB/5050UBe: Remove the cover as shown below.

2. Connect multiple video devices and use the Source buttons on the remote control or the Source button on the projector to switch between them.

Note: When connecting a source that requires HDCP 2.2, you must use the HDMI port.

WirelessHD™ Transmitter (Home Cinema 5050UBe)

Follow these steps to set up the included WirelessHD Transmitter.

1. Place the transmitter within 32 feet (10 m) of the projector. Make sure the front of the transmitter faces the front of the projector. See the online User’s Guide for more information on the WirelessHD transmission range.

2. Plug the AC adapter into the transmitter and a wall outlet.

3. Connect the HDMI cables to your video input devices and the HDMI ports on the side and back of the transmitter. You can connect up to four input devices to the transmitter. See “Viewing WirelessHD content” on the back of this sheet for information on switching between input sources.

Note: You can connect tablets, smartphones, and other devices that support the MHL™ standard to the HDMI port on the side of the WirelessHD Transmitter. Some devices may require an adapter or may not require an MHL cable. Not all features or functions may be supported. Check your device’s documentation for more information.

4. To use the transmitter as a pass-through device to a television or other display, connect an HDMI cable to the display device and the HDMI output port on the rear of the transmitter. See “Viewing WirelessHD content” on the back of this sheet for information on switching between wireless and wired display modes.
Turn on your equipment

1. Turn on your video source.
2. Plug in the projector.
3. Press the power button on the projector or the On button on the remote control. The shutter opens and the power light flashes blue, then stays on.

Note: To shut down the projector, press the power button on the projector or the Standby button on the remote control, then press the button again to confirm, if necessary. Wait for cooldown to complete before unplugging the projector.
4. Use the arrow buttons on the remote control to highlight any of the options on the Home screen that appears, then press Enter to select it. You can display a QR code, switch between projection sources, and quickly access various adjustment options from this screen.

5. The default language of the menu system is English. To select another language, press the Menu button on the projector or remote control. Select Extended and press Enter. Select Language and press Enter. Select your language and press Enter. Press the Menu button to exit the menu system.

Using the remote control

Install the batteries as shown (two AA batteries).

Using the remote control

Install the batteries as shown (two AA batteries).

Adjust the image

1. Press the Pattern button on the remote control to display a test pattern.
2. To raise the image or correct a tilted image, adjust the front feet as shown below.
3. Press the Lens button on the remote control and use the buttons to focus the image.
4 Press the Lens button on the remote control again and use the ▼ and ▲ buttons to reduce or enlarge the image.

5 Press the Lens button on the remote control again and use the ▼, ▲, ◀, and ▶ buttons to reposition the image.

6 If your image looks like ▶ or ▼, you can use the ◀ button on the projector to correct this.

Note: Using the keystone adjustment can affect the size and effective resolution of your image. If possible, change the position of your projector to eliminate the keystone effect and use the lens shift option to position the image as necessary.

7 Press Esc to exit.

Viewing 3D images

To view 3D content, you must first connect a 3D-compatible video device to one of the HDMI ports on your projector. You also need a pair of Epson® (part number V12H548006) or Epson-compatible RF 3D active shutter glasses.

1 Turn on and begin playback on the 3D-compatible video device.

Note: Make sure you set the video device to play content in 3D mode.

2 Slide the power switch on your 3D glasses to the On position.

Note: If the glasses don’t automatically display 3D content, you may need to pair them with the projector. Move the glasses within 10 feet (3 m) of the projector, then press and hold the Pairing button on the 3D glasses for at least 3 seconds. The status light on the glasses will alternate flash green and red, then remain green for 10 seconds if pairing is successful.

See the online User’s Guide for more information on adjusting 3D images.

Viewing WirelessHD content

(Home Cinema 5050UBe)

1 Turn on your video device and begin playback.

2 Turn on the power switch on the side of the WirelessHD Transmitter.

3 Turn on the projector.

4 If you have connected a television or other display to the output port on the transmitter and want to switch between wired and wireless display modes, press the Output button on the remote control or transmitter. The WHD light on the transmitter lights up when the wireless display mode is active.

5 Press the WirelessHD button on the projector remote control.

Note: If the WirelessHD connection fails, see the “Troubleshooting” section.

6 If you have connected multiple input devices to the transmitter, press the Input button on the remote control or transmitter once to display the sub-screen menu, then press the button again to switch between the input devices.

See the online User’s Guide for more information on adjusting and configuring the WirelessHD connection and display modes.
Troubleshooting

If you see a black screen or the No signal message after turning on your video device or computer, check the following:

- Make sure the power light on the projector is blue and not flashing.
- Press the Source button on the projector or one of the Source buttons on the remote control to switch to the correct image source, if necessary.
- On some Windows® laptops, you may need to hold down the Fn key and press F7 or the function key that lets you display on an external monitor. It may be labeled CRT/LCD or have an icon such as ©. On Windows 7 or later, hold down the Windows key and press K at the same time, then click Duplicate.
- If you’re using a Mac laptop, open System Preferences and select Displays. Click the Arrangement tab and select the Mirror Displays checkbox.
- If 3D images aren’t displaying properly, check the following:
  - Press the Menu button, then select Signal > 3D Setup > 3D Display and make sure that the 3D option is selected.
  - Make sure that you are within the 3D viewing range. See “Choose a location” on the front of this sheet or the online User’s Guide for more information.
  - Check that your 3D glasses have not entered standby mode. Slide the power switch on the 3D glasses to the Off position, then back to the On position.
  - Check that your video device and media are both 3D-compatible. Refer to the documentation that came with your video device for more information.
  - Make sure you are not using a 4K source.

If Windows® content isn’t displaying properly, check the following:

- Check that the Link light on the transmitter is lit. If the light is flashing slowly, the transmitter could not connect with the projector and has entered standby mode. Verify that the projector is turned on and that all cables are properly connected as shown in the “WirelessHD Transmitter” section on the front of this sheet.
- If the Link light continues to flash, press the Input button on the transmitter and wait 5-10 seconds for the Link light to stay lit. Repeat this procedure up to five times. If the transmitter still hasn’t connected to the projector, press the Setup button on the bottom of the transmitter and try again.
- Make sure the WirelessHD transmitter is within 32 feet (10 m) of the projector, isn’t obstructed by any large objects, and isn’t placed on a metal surface.
- If you are viewing wireless content, make sure that the WiHD light on the transmitter is lit. If it isn’t, press the Output button on the remote control or transmitter.

Where to get help

Manuals

For more information about using the projector, you can view or download the online manuals from the Epson website, as described below.

Telephone support services

To use the Epson PrivateLine® Support service, call (888) 637-7661. This service is available for the duration of your warranty period. You may also speak with a support specialist by calling (949) 274-4409 (U.S.) or (905) 709-8989 (Canada). Support hours are 6 a.m. to 8 p.m., Pacific Time, Monday through Friday, and 7 a.m. to 4 p.m., Pacific Time, Saturday. Days and hours of support are subject to change without notice. Toll or long distance charges may apply.

Internet support

Visit www.epson.com/support (U.S.) or www.epson.ca/support (Canada) and search for your product to find FAQs, troubleshooting advice, or e-mail Epson.

Registration

Register today to get product updates and exclusive offers. You can register online at www.epson.com/webreg.

Optional accessories

For a list of optional accessories, see the online User’s Guide.

You can purchase RF 3D glasses (part number V12H548006) or other accessories from an Epson authorized reseller. To find the nearest reseller, call 888-GO-EPSON (888-463-7766). Or you can purchase online at www.epsonstore.com (U.S. sales) or www.epsonstore.ca (Canadian sales).

To use the Epson PrivateLine® Support service, call (800) 637-7661. This service is available for the duration of your warranty period. You may also speak with a support specialist by calling (844) 729-9535 or (800) 760-8899 (Canada). Support hours are 6 a.m. to 8 p.m., Pacific Time, Monday through Friday, and 7 a.m. to 4 p.m., Pacific Time, Saturday. Days and hours of support are subject to change without notice. Toll or long distance charges may apply.