

EPSON®

EF21/EF22 User's Guide

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EF21/EF22 User's Guide

Welcome to the EF21/EF22 *User's Guide*.

For a printable PDF copy of this guide, [click here](#).

Note: Availability of products in this guide varies by country.

Introduction to Your Projector

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

[Projector Features](#)

[Projector Part Locations](#)

Projector Features

The EF21 and EF22 projectors include these special features:

Bright, high-resolution projection system

- Up to 1000 lumens of color brightness (color light output) and 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.

- High-definition mini cinema lens
- Advanced 3LCD technology
- Epson microlaser array projection technology
- Up to 150 inches (12.5 ft diagonal) projected image size (no screen required)

Flexible connectivity

- Built-in Google TV
- Built-in Chromecast functionality
- HDMI port for streaming devices or other HDMI sources
- Small, portable design
- Audio out port for connecting headphones
- 2-channel integrated stereo speaker system

Innovative display and operation features

- Long-life laser light source
- 5,000,000:1 exceeded contrast ratio and Dynamic Contrast control for sharp, detailed images
- Use the projector as a Bluetooth speaker

- One remote controls projector and connected HDMI CEC devices

[Product Box Contents](#)

[Additional Components](#)

[Optional Equipment and Replacement Parts](#)

[Warranty and Registration Information \(U.S. and Canada\)](#)

[Warranty and Registration Information \(Latin America\)](#)

[Notations Used in the Documentation](#)

[Where to Go for Additional Information](#)

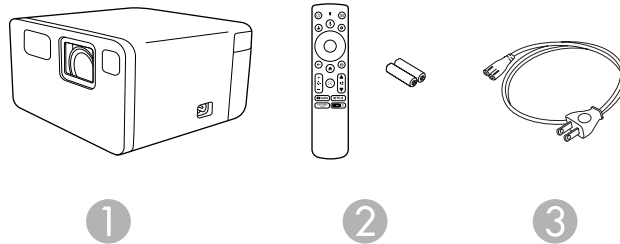
Parent topic: [Introduction to Your Projector](#)

Product Box Contents

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

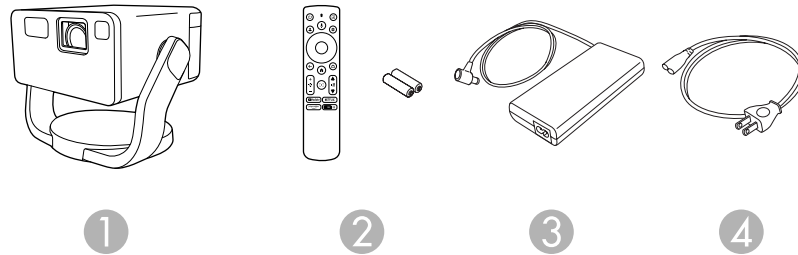
Make sure your projector box included all of these parts:

EF21



- 1 Projector
- 2 Projector remote control and 2 AAA batteries
- 3 Power cord

EF22



- 1 Projector
- 2 Projector remote control and 2 AAA batteries
- 3 AC adapter
- 4 Power 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 HDMI output port, you need to obtain an adapter that allows you to connect to the HDMI port on the projector. Contact Apple for compatible HDMI 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.

Note: The projector's HDMI port does not support MHL.

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

Signal or connection type	Additional component necessary
HDMI	Compatible HDMI cable U.S. and Canada: Available for purchase from Epson or an authorized Epson reseller. Latin America: Available for purchase from an authorized Epson reseller.
USB	Compatible USB cable
Audio out	Commercially available 3.5 mm mini jack stereo cable

Parent topic: [Projector Features](#)

Optional Equipment and Replacement Parts

U.S. and Canada: 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).

Latin America: You can purchase optional accessories and replacement parts from an Epson authorized reseller. To find the nearest reseller, go to latin.epson.com. Or you can click the "Where to Get Help" link below to contact your nearest sales office.

Note: Availability of accessories varies by country.

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

U.S. and Canada:

Option or part	Part number
Safety wire set (ELPWR01)	V12H003W01
Travel case	EF22EF21BAGB

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

Latin America:

Option or part	Part number
Safety wire set (ELPWR01)	V12H003W01

Parent topic: [Projector Features](#)

Related references

[Where to Get Help \(U.S. and Canada\)](#)

[Where to Get Help \(Latin America\)](#)

Warranty and Registration Information (U.S. and Canada)

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

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](#)

Warranty and Registration Information (Latin America)

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

Register your product online at latin.epson.com/registro

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: [Projector Features](#)

Where to Go for Additional Information

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

- <https://support.google.com/googletv/> for Google TV support
- epson.com/support (U.S.), epson.ca/support (Canada), or latin.epson.com/support (Latin America)

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 (U.S. and Canada only). For details, see "Where to Get Help."

Parent topic: [Projector Features](#)

Projector Part Locations

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

[Projector Parts - Front/Top](#)

[Projector Parts - Rear/Side](#)

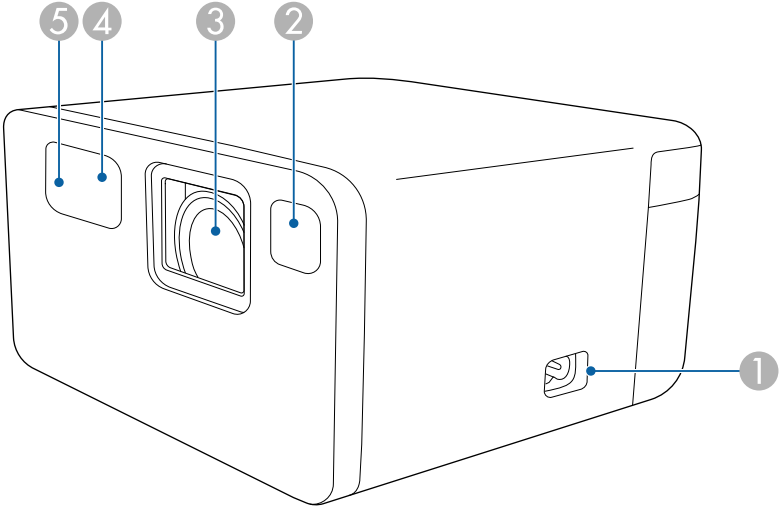
[Projector Parts - Base](#)

[Projector Parts - Remote Control](#)

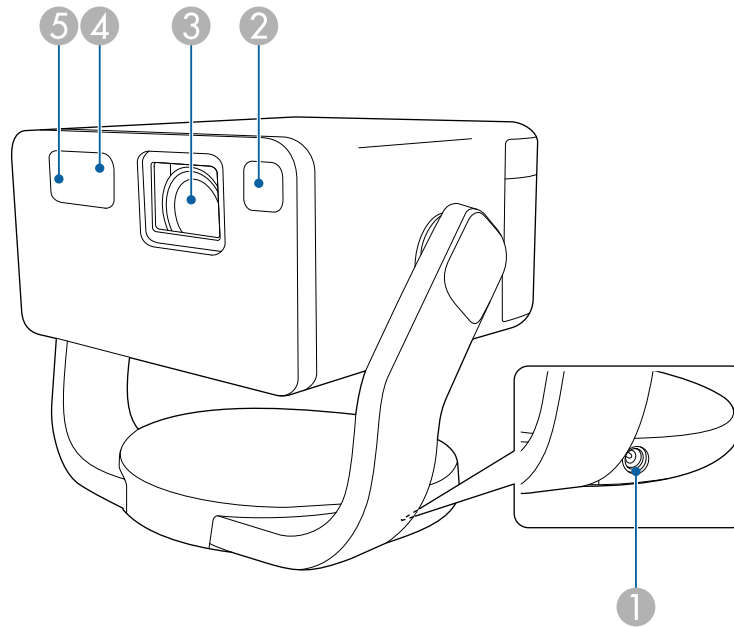
Parent topic: [Introduction to Your Projector](#)

Projector Parts - Front/Top

EF21



EF22

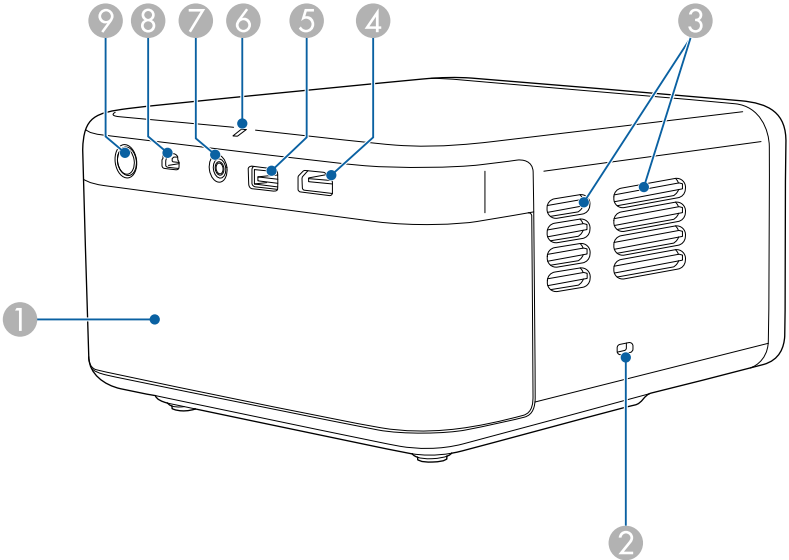


1	Power inlet	Connects the power cord to the projector (EF21). Connects the AC adapter to the stand (EF22).
2	Sensor	Detects obstacles that are interfering with the projection area and automatically adjusts the shape and focus of the projected image. It also reduces the brightness of the light source to minimize glare (Smart eye protection).
3	Lens	Projects images.
4	Remote receiver	Receives signals from the remote control.
5	Camera	Automatically adjusts the shape and focus of the projected image.

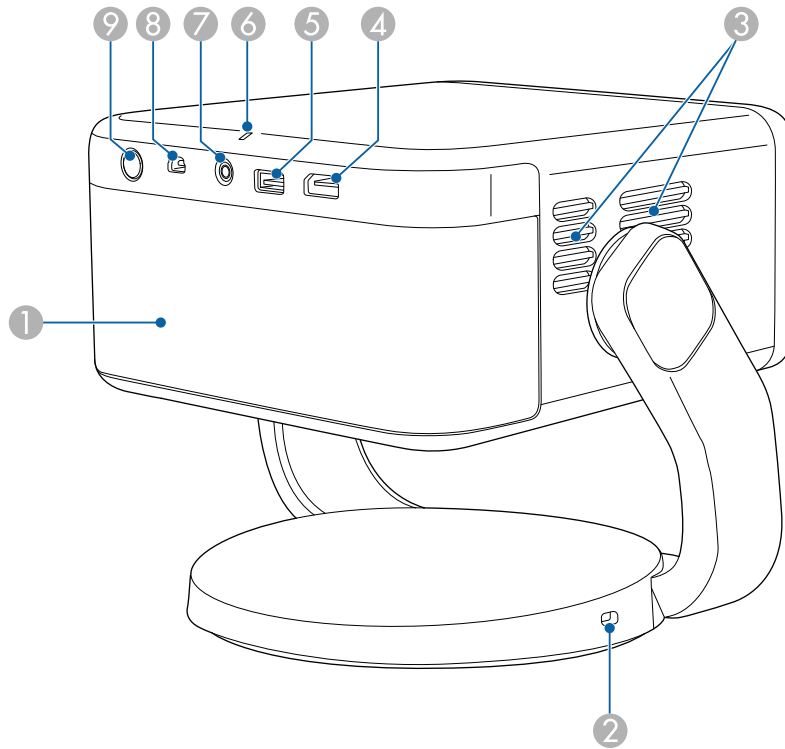
Parent topic: [Projector Part Locations](#)

Projector Parts - Rear/Side

EF21



EF22



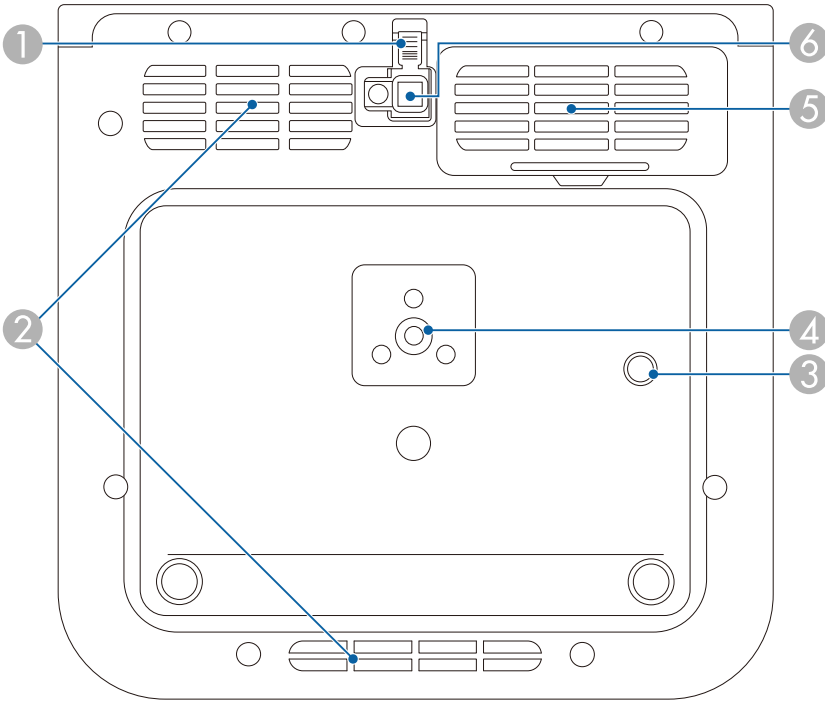
1	Speaker	Outputs audio.
2	Security slot	You can install the security cable on the projector to deter theft.
3	Air exhaust vents	Exhaust vents for air used to cool the projector internally. Warning: While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.

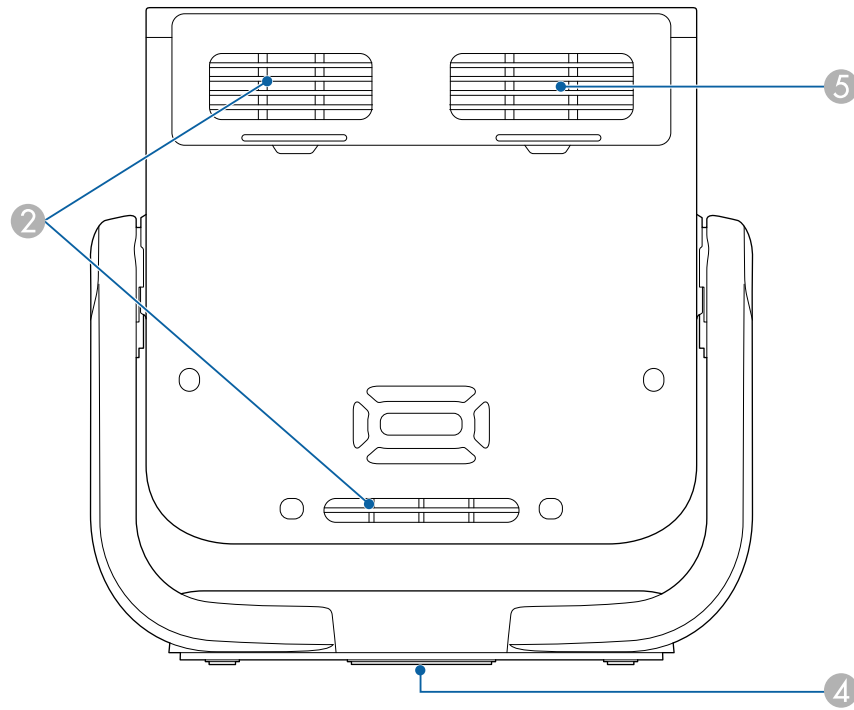
4	HDMI (ARC) port	Inputs video signals from HDMI compatible video equipment and computers. This projector is compatible with HDCP 2.3 and this port is compatible with HDMI ARC.
5	USB-A port	Connects a commercially available USB device such as a webcam, external HDD, or keyboard. Note: This port is not guaranteed to operate for all devices that support USB.
6	Status indicator	Indicates the projector's status.
7	Audio Out port	Outputs audio from the current input source to headphones.
8	Service port	This port is not normally used.
9	Power button	Turns the projector on and off.

Parent topic: [Projector Part Locations](#)

Projector Parts - Base

EF21



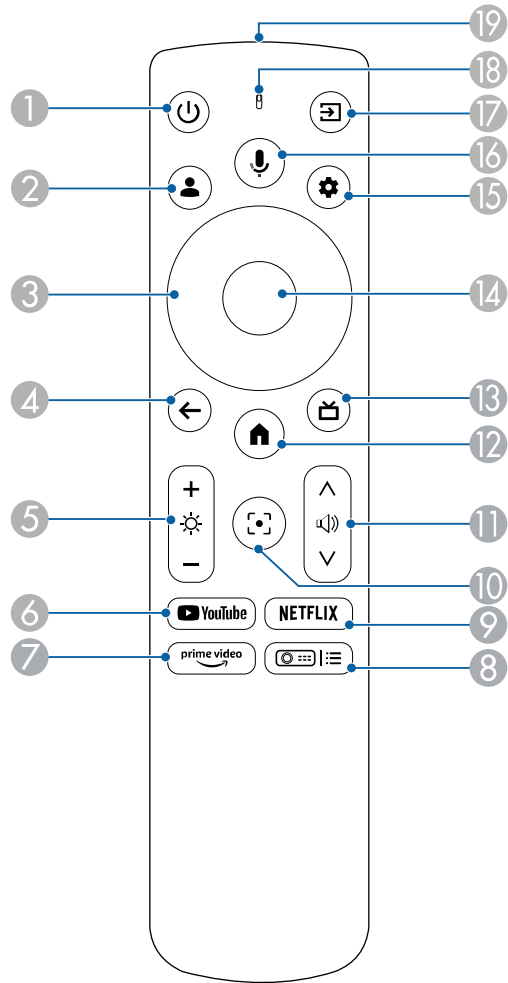
EF22

1	Foot release lever	Press the foot release lever to extend and retract the front adjustable foot (EF21).
2	Air intake vent	Takes in air to cool the projector internally.
3	Security cable attachment point	Attach the optional safety wire here to prevent the projector from falling from the ceiling or wall (EF21).
4	Mounting hole for tripod	Use when mounting the projector on a commercially available tripod. For the EF22, this hole is located at the center of the bottom of the stand.
5	Air intake vent (air filter)	Takes in air to cool the projector internally.












6	Front adjustable foot	When set up on a surface such as a desk, extend the foot to adjust the position of the image (EF21).
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Parent topic: [Projector Part Locations](#)

Projector Parts - Remote Control



1	Power button	Turns the projector on or off.
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2	 user profile button	Displays the user profile.
3	Arrow buttons	Selects items on the home screen to play online content. Selects menu items while displaying the projector's menu.
4	← esc button	Stops the current function. Moves back to the previous menu level while displaying the projector's menu.
5	 brightness up and down button	Lightens or darkens the projected image.
6	 YouTube button	Starts the YouTube application.
7	 Amazon Prime Video button	Starts the Amazon Prime Video application.
8	 projector settings button	Displays the projector menu screen.
9	 Netflix button	Starts the Netflix application.
10	 focus button	Displays the focus adjustment screen. Press the up and down arrow buttons to adjust the focus setting. Hold down this button to automatically correct the focus of the projected image.
11	 volume up and down button	Adjusts the volume for the speaker and headphones.
12	 home button	Displays the Google TV home screen.
13	 HDMI button	Switches to the HDMI source.
14	Enter button	Enters the current selection and moves to the next level while displaying the projector's menu.
15	 settings button	Opens the Google TV dashboard.

16	 Google Assistant button	Press the Google Assistant button on the remote, or say, "Hey Google" to get started. Note: Google Assistant is not available in certain languages and countries. Availability of services varies by country and language.
17	 source search button	Displays a list of available input sources.
18	Indicator/microphone	Turns on when outputting signals from the remote control. Detects audio when you press the  Google Assistant button.
19	Remote control light emitting area	Outputs remote control signals.

Parent topic: [Projector Part Locations](#)

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](#)

[Setting Up Google TV](#)

Projector Placement

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

You can also mount the projector on a commercially available tripod or on a commercially available projector stand.

There is no vertical or horizontal limit to how the projector can be installed.

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.
- Place the projector so it squarely faces the screen, not at an angle.

Note: If you cannot install the projector squarely facing the screen, correct any resulting keystone distortion using the projector controls. For the best quality images, we recommend adjusting the installation position of the projector to achieve the correct image size and shape.

Make sure you read the following safety instructions when placing or mounting your projector.

[Installation Safety Precautions](#)

[Projector Setup and Installation Options](#)

[Projection Distance](#)

[Installing the Projector on a Tripod or Projector Stand](#)

Parent topic: [Setting Up the Projector](#)

Installation Safety Precautions

When choosing a location to install the projector and performing the installation, note the precautions below:

- You must install a ceiling mount when suspending the projector from a ceiling.
- If you do not install the projector correctly, it could fall and cause damage or injury.
- Do not use adhesives on the mounting hole to prevent the screws from loosening, or use lubricants, oils, or similar substances on the projector; the projector case may crack causing it to fall. This could cause serious injury to anyone under the ceiling mount and could damage the projector.
- Do not install the projector in a location subject to high levels of dust or humidity, or in a location subject to smoke or steam. Otherwise, it could cause a fire or electric shock to occur. The projector's case could also deteriorate and be damaged causing the projector to fall from the mount.
- **Examples of environments that could cause the projector to fall due to case deterioration**
 - Locations subject to excessive smoke or airborne oil particles, such as factories or kitchens
 - Locations containing volatile solvents or chemicals, such as factories or laboratories
 - Locations where the projector could be subjected to detergents or chemicals, such as factories or kitchens
 - Locations in which aroma oils are often used, such as relaxation rooms
 - Near devices that produce excessive smoke, airborne oil particles, or foam at events
 - Locations near humidifiers
- Do not cover the projector's air intake or air exhaust vents. If the vents are covered, the internal temperature could rise and cause a fire.
- Do not use or store the projector in locations where it will be subject to dust or dirt. Otherwise, the quality of the projected image may decline, or the air filter may become clogged, resulting in a malfunction or fire.
- Do not install the projector on an unstable surface or in a location beyond the weight specifications of the projector. Otherwise, it could fall or topple causing an accident and injury.
- When installing the projector in a high position, take measures to prevent falling by using wires to ensure safety in an emergency, such as an earthquake, and to prevent accidents. If it is not installed correctly, it could fall causing an accident and injury.
- Do not install in locations where salt damage could occur, or in locations subject to corrosive gas such as sulphuric gas from hot springs. Otherwise, corrosion could cause the projector to fall. It could also cause the projector to malfunction.

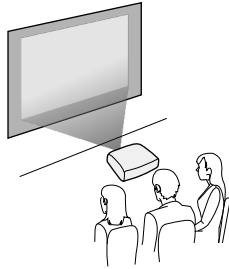
- When carrying the projector, be sure to hold the stand in both hands. Otherwise, the projector could fall causing damage or injury (EF22).

Parent topic: [Projector Placement](#)

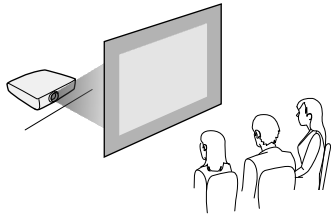
Projector Setup and Installation Options

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

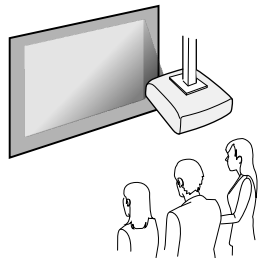
Front



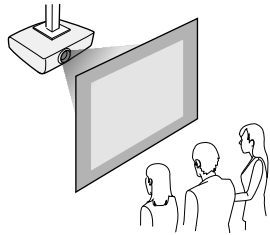
Rear



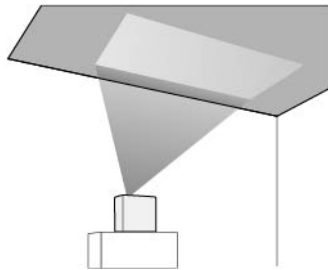
Front ceiling



Rear ceiling



Toward the ceiling



Caution:

Do not cover the projector's lens. If the lens is covered, the internal temperature could rise and it could result in a malfunction.

Note:

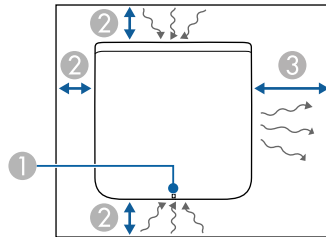
- We recommend installing the projector on a protective mat to prevent the projector or the cloth covering the speaker from being damaged, or the color from staining unprotected surfaces (EF21).
- The sound from the projector's speaker may be muffled (EF21).
- If you tilt the projector toward the ceiling while connection cables are connected to the projector's ports, the cables and ports can be damaged. Disconnect the cables before tilting the projector (EF22).

Note the following precautions when installing the projector:

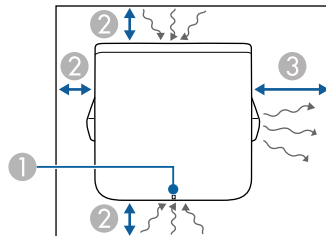
Installation space

Be sure to leave the following amount of space around the projector so as not to block the air exhaust and intake vents.

EF21



EF22

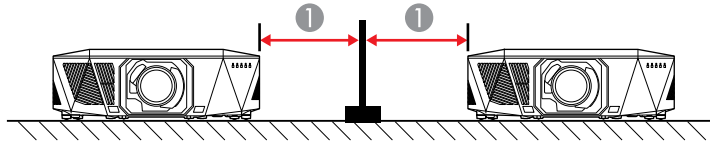


- 1 Status indicator
- 2 3.9 inches (10 cm)
- 3 11.8 inches (30 cm)

Caution:

Install the supplied AC adapter more than 11.8 inches (30 cm) away from the projector. If the temperature of the AC adapter rises due to heat from the projector, the projector may not operate properly (EF22).

If you use a partition, you can narrow the space between the projectors.



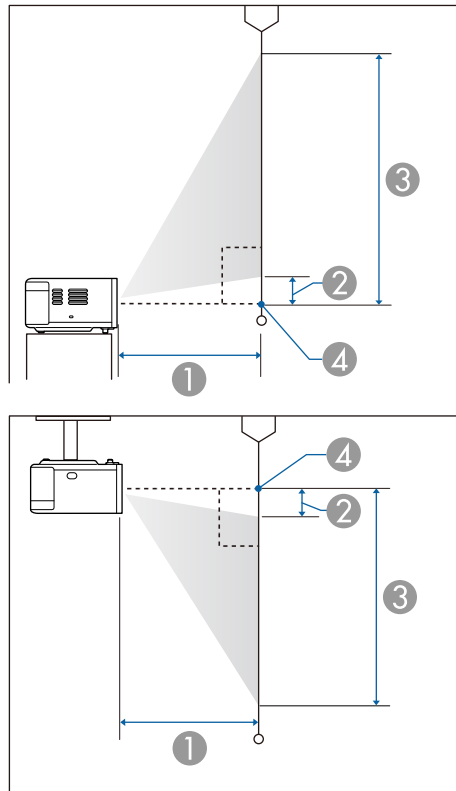
Parent topic: [Projector Placement](#)

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.

Note: When correcting keystone distortion, your image is slightly smaller.

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 Projection Distance Calculator [here](#) (U.S.), [here](#) (Canada), or [here](#) (Latin America).



- 1 Projection distance
- 2 Distance from the center of the lens to the base of the screen.
- 3 Distance from the projector to the top of the screen
- 4 Center of lens

16:9 Aspect Ratio Image or Screen			
Screen or image size	Projection distance (1)	Distance from center of lens to base of screen (2)	Distance from center of lens to top of screen (3)
30 inches	25 inches (64 cm)	0 inches (0 cm)	15 inches (37 cm)
40 inches	34 inches (87 cm)	0 inches (0 cm)	20 inches (50 cm)
50 inches	43 inches (110 cm)	0 inches (0 cm)	25 inches (62 cm)
60 inches	52 inches (132 cm)	0 inches (0 cm)	30 inches (75 cm)
70 inches	61 inches (155 cm)	0 inches (0 cm)	34 inches (87 cm)
80 inches	70 inches (178 cm)	0 inches (0 cm)	39 inches (100 cm)
90 inches	79 inches (201 cm)	0 inches (0 cm)	44 inches (112 cm)
100 inches	88 inches (224 cm)	0 inches (0 cm)	49 inches (125 cm)
120 inches	106 inches (269 cm)	0 inches (0 cm)	59 inches (149 cm)
150 inches	133 inches (337 cm)	0 inches (0 cm)	74 inches (187 cm)

16:10 Aspect Ratio Image or Screen			
Screen or image size	Projection distance (1)	Distance from center of lens to base of screen (2)	Distance from center of lens to top of screen (3)
30 inches	28 inches (70 cm)	0 inches (0 cm)	16 inches (40 cm)
40 inches	37 inches (94 cm)	0 inches (0 cm)	21 inches (54 cm)
50 inches	47 inches (119 cm)	0 inches (0 cm)	27 inches (67 cm)
60 inches	57 inches (144 cm)	0 inches (0 cm)	32 inches (81 cm)
70 inches	66 inches (168 cm)	0 inches (0 cm)	37 inches (94 cm)
80 inches	76 inches (193 cm)	0 inches (0 cm)	43 inches (108 cm)
90 inches	86 inches (217 cm)	0 inches (0 cm)	48 inches (121 cm)
100 inches	96 inches (242 cm)	0 inches (0 cm)	53 inches (135 cm)
120 inches	115 inches (291 cm)	0 inches (0 cm)	64 inches (162 cm)
130 inches	125 inches (316 cm)	0 inches (0 cm)	69 inches (175 cm)

16:10 Aspect Ratio Image or Screen			
Screen or image size	Projection distance (1)	Distance from center of lens to base of screen (2)	Distance from center of lens to top of screen (3)
140 inches	134 inches (341 cm)	0 inches (0 cm)	74 inches (188 cm)

4:3 Aspect Ratio Image or Screen			
Screen or image size	Projection distance (1)	Distance from center of lens to base of screen (2)	Distance from center of lens to top of screen (3)
30 inches	32 inches (79 cm)	0 inches (0 cm)	18 inches (46 cm)
40 inches	43 inches (107 cm)	0 inches (0 cm)	24 inches (61 cm)
50 inches	54 inches (135 cm)	0 inches (0 cm)	30 inches (76 cm)
60 inches	64 inches (163 cm)	0 inches (0 cm)	36 inches (91 cm)
70 inches	75 inches (191 cm)	0 inches (0 cm)	42 inches (107 cm)
80 inches	86 inches (219 cm)	0 inches (0 cm)	48 inches (122 cm)
90 inches	97 inches (247 cm)	0 inches (0 cm)	54 inches (137 cm)
100 inches	108 inches (275 cm)	0 inches (0 cm)	60 inches (152 cm)
120 inches	130 inches (330 cm)	0 inches (0 cm)	72 inches (183 cm)

Parent topic: [Projector Placement](#)

Installing the Projector on a Tripod or Projector Stand

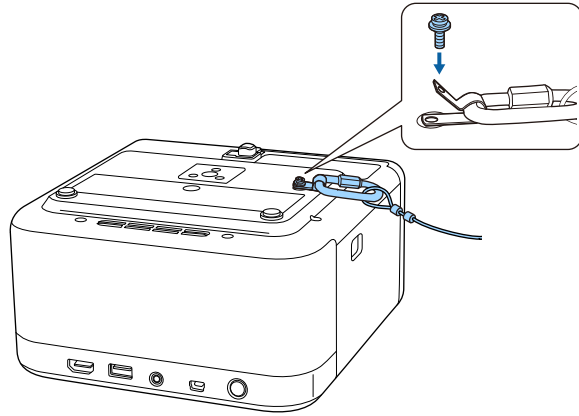
You can mount the projector on a commercially available tripod or projector stand.

- You can install the projector on a tripod that uses 1/4-20UNC size fixed screws.
- When installing the projector in a high place, be sure to install the optional security wire set (ELPWR01) for safety purposes.

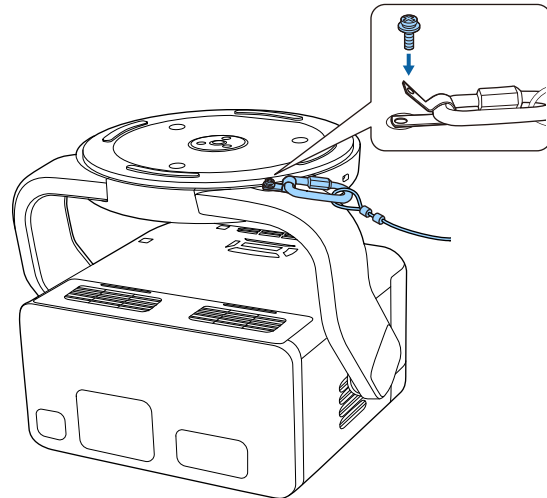
1. Turn the projector upside down.

2. When installing the projector in a high place, attach the optional security wire set (ELPWR01) to the security cable attachment point.

EF21



EF22



3. Mount the projector on a tripod or a projector stand. For details, see the documentation supplied with the tripod or projector stand.

Warning: When mounting the projector on the tripod, note the following points:

- Use a tripod that is strong enough to support the weight of the projector.
- Securely tighten the tripod's screw into the projector's mounting hole. If the screw loosens, the projector could fall or topple causing an accident and injury.
- Do not carry the projector while it is mounted on a tripod. Doing so will put too much pressure on the tripod fixing point and the projector could fall or topple causing an accident and injury.
- Place the tripod on a flat and stable surface. Otherwise, the tripod could topple causing an accident and injury.
- For details on how to use the tripod, see the documentation supplied with the tripod.

Note: When installing the projector in a high place such as a ceiling, make sure you hook the carabiner of the optional security wire set (ELPWR01) to a point that is strong enough to hold the weight of the projector and the mounting hardware.

Parent topic: [Projector Placement](#)

Projector Connections

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

Caution: Check the shape and orientation of the connectors on any cable you plan to connect. Do not force a connector into a port if it does not fit. The device or your projector could be damaged or could malfunction.

Caution: Make sure you connect the projector and video sources first, and then connect the power cord to the projector's power inlet and plug it into an electrical outlet.

Caution: If you tilt the projector toward the ceiling while connection cables are connected to the projector's ports, the cables and ports can be damaged. Disconnect the cables before tilting the projector (EF22).

[Connecting to an HDMI Video Source](#)

[Connecting to a Computer Using HDMI](#)

[Connecting to a USB Device](#)

[Connecting Headphones](#)

[Connecting to External Speakers or an A/V Receiver Using HDMI ARC](#)

Parent topic: [Setting Up the Projector](#)

Connecting to an HDMI Video Source

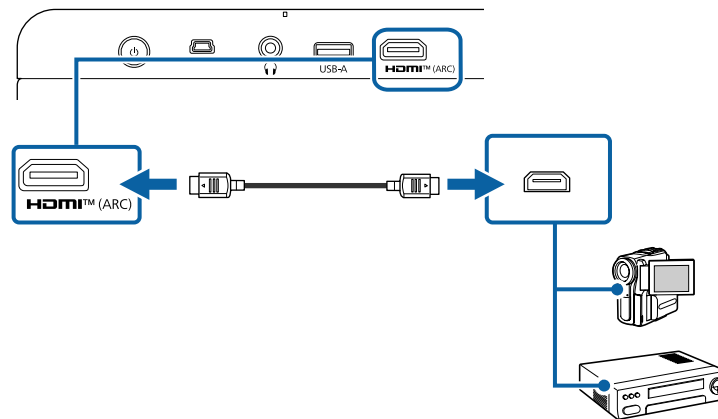
If your video source has an HDMI port, you can connect it to the projector using an HDMI cable. The video source's sound is output to the projector's speaker.

Note: If the port on the connected device has an unusual shape, use the cable supplied with the device or a optional cable to connect the device.

Note: Some video devices are capable of outputting different types of signals. See your video device manual to confirm what type of signals can be output.

Caution: Do not turn on the video source before connecting it to the projector; otherwise, you may damage the projector.

1. Connect one end of an HDMI cable to your video source's HDMI port.
2. Connect the other end of the HDMI cable to the projector's **HDMI (ARC)** port.

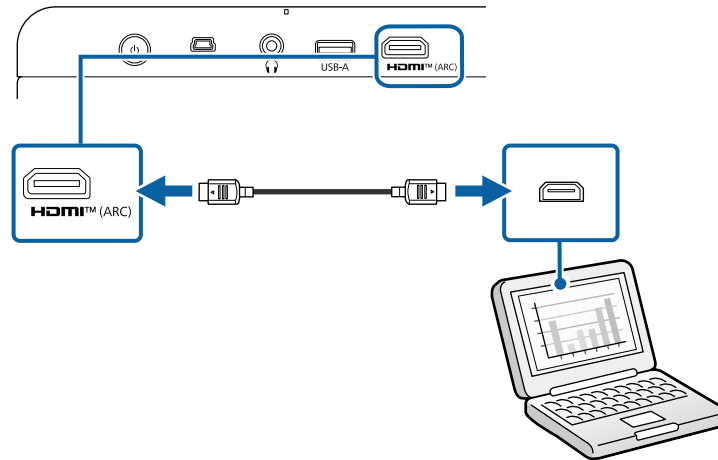


Parent topic: [Projector Connections](#)

Connecting to a Computer Using HDMI

If your computer has an HDMI port, you can connect it to the projector using an HDMI cable.

1. Connect one end of an HDMI cable to your computer's HDMI port.
2. Connect the other end of the HDMI cable to the projector's **HDMI (ARC)** port.



Parent topic: [Projector Connections](#)

Connecting to a USB Device

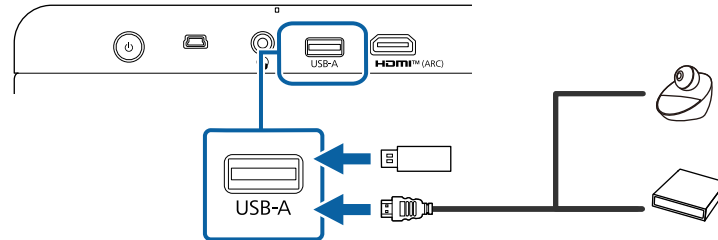
You can connect a USB device or cable to the projector's **USB-A** port to project images from the device. Use the USB cable supplied with the device.

Note: Do not connect a USB hub or a USB cable longer than 9.8 feet (3 m), or the device may not operate correctly.

Make sure the USB device meets the following requirements:

- The device must be a USB flash drive, USB hard drive, a digital camera, or a microphone.
- The **USB-A** port is not guaranteed to operate all devices that support USB.
- You may need an app to project content from your USB device.

- USB hard drives must be USB Mass Storage Class compliant (not all compliant devices are supported); formatted in FAT16/32; self-powered by their own AC power supplies (bus powered drives are not recommended); and should not have multiple partitions.
1. If your USB device came with an AC adapter, plug the device into an electrical outlet.
 2. Connect the USB device or cable to the projector's **USB-A** port.



3. Connect the other end to the USB device as necessary.

The projector displays images stored on the USB device.

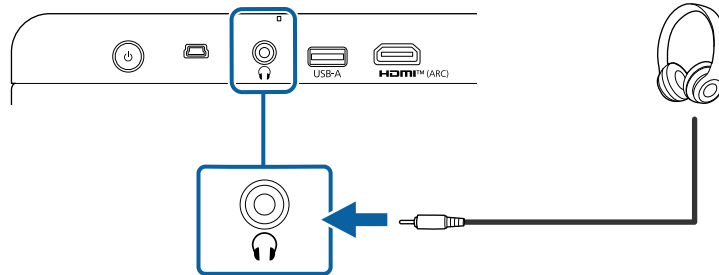
Parent topic: [Projector Connections](#)

Connecting Headphones

You can connect headphones to the projector's audio out port. You can control the volume using the projector remote control.

Caution: Do not start a playback at a high volume setting. Sudden loud noises may cause hearing loss. Always lower the volume before powering off, so that you can power on and then gradually increase the volume.

Note: The projector's audio out port only supports 3-pin stereo headphones using a 3.5-mm mini-stereo cable. If you use any other type of headphones, audio may not be output normally.



Parent topic: [Projector Connections](#)

Connecting to External Speakers or an A/V Receiver Using HDMI ARC

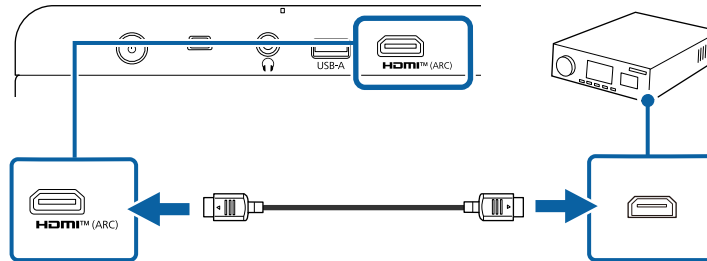
If your external speakers or A/V receiver are HDMI ARC-compatible, you can connect them to the projector's port using an optional HDMI cable.

Note:

- To output audio, set **HDMI control** to **On** in the projector's menu.
 - **Inputs > Inputs > HDMI control**
- If audio is not output properly, try changing **Auto** to **PCM** as the **Digital Output** setting in the projector's menu.
 - **Display & Sound > Audio Output > Digital Output**
- When playing Google TV contents, audio is output in 2 ch (L-PCM).
- The following audio output formats are compatible with the HDMI (ARC) port:
 - L-PCM 2 ch (48kHz/24bit)
 - Dolby Digital(AC-3)
 - Dolby Digital Plus
 - AAC

Note: You can pass-through HDMI audio signals with ARC when using an HDMI cable (with Ethernet). The audio format is determined by the specifications of the connected AV system or external speakers such as a sound bar.

1. Connect the HDMI cable to the ARC-compatible HDMI port on your external speakers or A/V receiver.
2. Connect the other end to the **HDMI (ARC)** port on the projector.



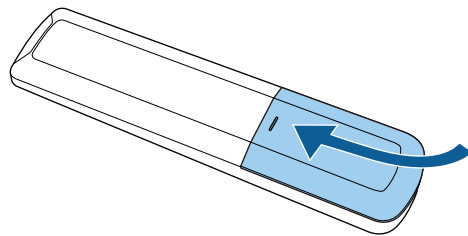
Parent topic: [Projector Connections](#)

Installing Batteries in the Remote Control

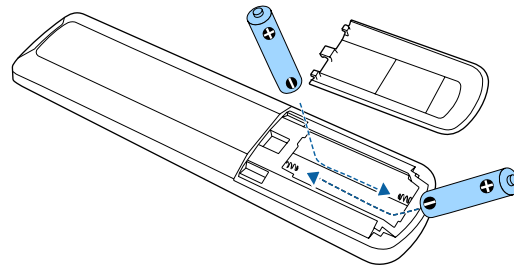
The remote control uses the two AAA batteries that came with the projector.

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.

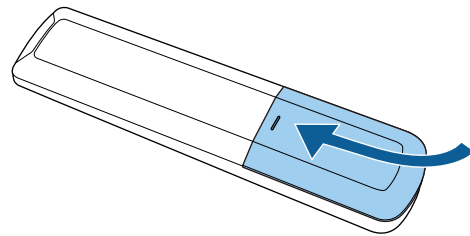


2. Insert the batteries with the + and – ends facing as shown.



Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

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](#)

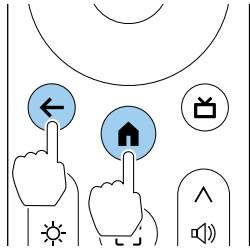
Setting Up Google TV

Google TV must be set-up when you turn on the projector for the first time.

Note: You can change each of the settings even after completing the initial setup.

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

2. When the pairing screen is displayed, press and hold the  home and  esc remote control buttons at the same time for approximately three seconds.



The light on the remote control flashes until pairing is complete.

3. When the language selection screen is displayed, select the language you want to use, and then follow the on-screen instructions to select your country or region.
4. When the Google TV setting screen is displayed, follow the on-screen instructions to make the initial settings for Google TV.

Note: We recommend logging in with your Google Account to make more detailed settings.

5. When the Wi-Fi setting screen is displayed, select the wireless network you want to use and then follow the on-screen instructions to make any necessary settings.
 - An internet connection is required to view online content. Make sure you can use the Wi-Fi service.
 - The customer is responsible for any communication charges incurred when downloading the app or watching online content.
6. Follow the on-screen instructions to proceed with initial setup, selecting settings as desired.
7. When you agree to the EPSON license terms, the initial setup wizard closes.


The Home screen is displayed when initial setup is completed.

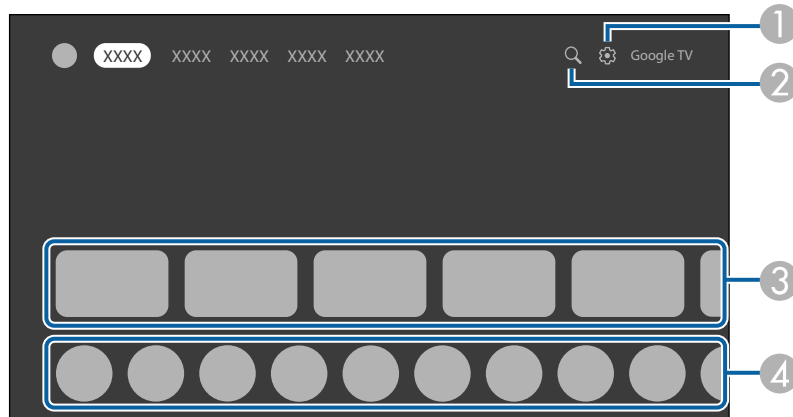
Note: For Google TV support, visit <https://support.google.com/googletv/>.

[The Google TV Home Screen](#)

Parent topic: [Setting Up the Projector](#)

The Google TV Home Screen

When you turn on the projector or press the  home button, the projector displays the Google TV home screen. You can easily access recommended online content and applications from the home screen.



1	Displays the dashboard settings.
2	Searches for applications and other online content.
3	Displays the online content recommended by the applications.
4	Displays the applications downloaded on the projector.

Note: The content of the home screen may change depending on the Google TV version.

Parent topic: [Setting Up Google TV](#)

Using Basic Projector Features

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

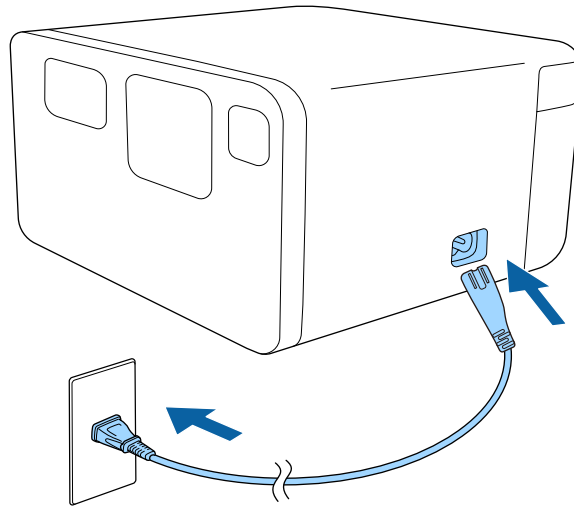
- [Turning On the Projector \(EF21\)](#)
- [Turning On the Projector \(EF22\)](#)
- [Turning Off the Projector](#)
- [Projection Modes](#)
- [Adjusting the Image Height \(EF21\)](#)
- [Adjusting the Position of the Image \(EF22\)](#)
- [Image Shape](#)
- [Remote Control Operation](#)
- [Using Voice Commands to Control Your Projector](#)
- [Pairing the Remote Control](#)
- [Selecting an Image Source](#)
- [Using Google Cast](#)
- [Image Aspect Ratio](#)
- [Color Mode \(Picture Mode\)](#)
- [Adjusting Picture Quality in Detail](#)
- [Turning On Automatic Luminance Adjustment](#)
- [Adjusting the Brightness](#)
- [Controlling the Volume with the Volume Buttons](#)
- [Changing the Sound Mode](#)

Turning On the Projector (EF21)


Turn on the projector before you turn on the video source you want to use.

Caution: Do not turn on the video source before connecting it to the projector; otherwise, you may damage the projector.

1. Connect the power cord to the projector's power inlet and plug it into an electrical outlet.



The projector status light flashes blue as the projector warms up. When the indicator turns off, the projector enters standby mode. This indicates that the projector is receiving power, but is not turned on.

2. Press the  Power button on the projector or the projector remote control to turn on the projector. The status indicator turns blue and the light source turns on.

Auto Focus and **Auto Keystone Correction** automatically correct the focus and any distortion of the projected image.

Note: Your screen size should be between 30 and 100 inches for automatic image correction. Focus and keystone distortion are corrected even if the size of the projected image exceeds 100 inches. However, the adjustment may fail depending on the installation angle of the projector, the brightness of the room, and the material of the projection surface. If necessary, adjust the keystone distortion and focus setting manually using the projector menu.

Warning:

- Never look into the projector lens when the light is on. The light can damage your eyes and is especially dangerous for children. Enable the **Smart Eye Protection** feature to automatically dim the projector when something is blocking the lens.
 - **Projector > Advanced Settings > Smart Eye Protection**
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- During projection, do not block the light from the projector with a book or other objects. If the light from the projector is blocked, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction. To stop projection, turn off the projector.
- Even when the projector is turned off, do not place any flammable objects such as a book or cloth in front of the lens. If the projector is unexpectedly turned on for some reason, it could result in a fire.

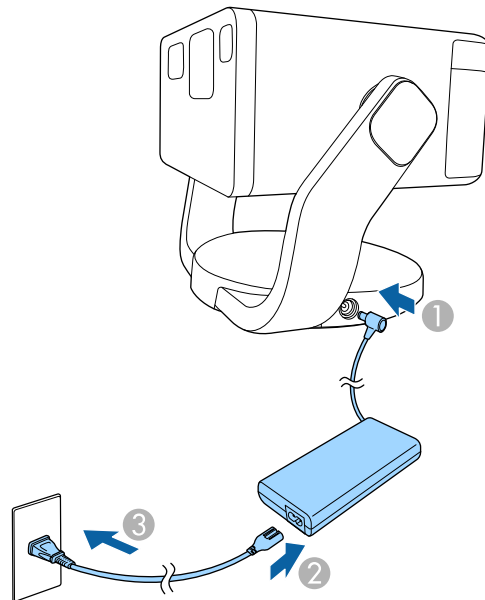
Parent topic: [Using Basic Projector Features](#)

Turning On the Projector (EF22)


Turn on the projector before you turn on the video source you want to use.

1. Connect the AC adapter to the projector's AC adapter port.
2. Connect the power cord to the AC adapter.

3. Plug the power cord into an electrical outlet.



The projector status light flashes blue as the projector warms up. When the indicator turns off, the projector enters standby mode. This indicates that the projector is receiving power, but is not turned on.

4. Press the  Power button on the projector or the projector remote control to turn on the projector.
The status indicator turns blue and the light source turns on.

Auto Focus and **Auto Keystone Correction** automatically correct the focus and any distortion of the projected image.

Note: Your screen size should be between 30 and 100 inches for automatic image correction. Focus and keystone distortion are corrected even if the size of the projected image exceeds 100 inches. However, the adjustment may fail depending on the installation angle of the projector, the brightness of the room, and the material of the projection surface. If necessary, adjust the keystone distortion and focus setting manually using the projector menu.

Warning:

- Never look into the projector lens when the light is on. The light can damage your eyes and is especially dangerous for children. Enable the **Smart Eye Protection** feature to automatically dim the projector when something is blocking the lens.
 - **Projector > Advanced Settings > Smart Eye Protection**
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- During projection, do not block the light from the projector with a book or other objects. If the light from the projector is blocked, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction. To stop projection, turn off the projector.
- Even when the projector is turned off, do not place any flammable objects such as a book or cloth in front of the lens. If the projector is unexpectedly turned on for some reason, it could result in a fire.

[AC Adapter Safety Instructions](#)

Parent topic: [Using Basic Projector Features](#)

AC Adapter Safety Instructions

Follow these safety instructions when using the supplied AC adapter.

Warning:

- Under the following conditions, unplug the projector from the outlet and refer all repairs to qualified service personnel. Continuing to use under these conditions may result in fire or electric shock.
 - If smoke comes from the AC adapter
 - If strange odors or strange noises come from the AC adapter
 - If the AC adapter has been damaged
 - If liquid or foreign objects get inside the AC adapter
- Incorrect use of the AC adapter may cause malfunction, fire, or electric shock. Take the following precautions when using the AC adapter.
 - Do not use any AC adapter other than the one supplied with the projector.
 - The supplied AC adapter is designed specifically for this projector model. Do not use it with any other models.

- Do not apply strong pressure or shocks to the AC adapter.
- Do not hold the AC adapter with wet hands.
- Do not install the AC adapter in a narrow space and do not cover it with cloth.
- Do not touch the AC adapter for a long time while it is energized. It may cause a low-temperature burn.
- Do not spray flammable gas such as insecticide on the AC adapter.
- Do not put the AC adapter in a high-pressure container or a cooking appliance such as a microwave oven.
- Do not place the AC adapter near the projector's air exhaust vent.
- Do not wind the power cord around the AC adapter.

Parent topic: [Turning On the Projector \(EF22\)](#)

Turning Off the Projector

Turn off the projector after use.

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

1. Press the power button on the projector or remote control.
The laser turns off and the status indicator turns off.
2. To transport or store the projector, make sure the status indicator is off, then unplug the power cord.

Parent topic: [Using Basic Projector Features](#)

Projection Modes

Depending on how you positioned the projector, you may need to change the projection mode so your images project correctly.


- **Front** (default setting) lets you project from a table in front of the screen.
- **Front Ceiling** flips the image over top-to-bottom to project upside-down from a ceiling or wall mount.
- **Rear** flips the image horizontally to project from behind a translucent screen.
- **Rear Ceiling** flips the image over top-to-bottom and horizontally to project from the ceiling and behind a translucent screen.

Changing the Projection Mode Using the Menu

Parent topic: [Using Basic Projector Features](#)

Changing the Projection Mode Using the Menu

You can change the projection mode to flip the image over top-to-bottom using the projector menus.

1. Turn on the projector and display an image.
2. Press the  projector settings button on the projector remote control.
3. Select the menus in the following order:
 - **Advanced Settings > Projection Mode**
4. Select the projection mode you want to use and press Enter.
5. Press the ← esc button to exit the menus.

Parent topic: [Projection Modes](#)

Related references

[Projector Feature Settings - Projector Menu](#)

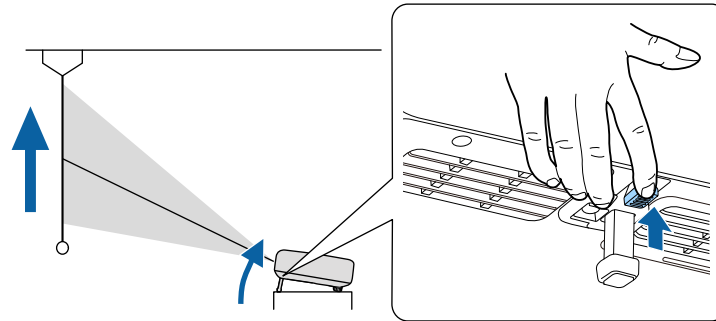
Adjusting the Image Height (EF21)

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

The larger the angle of tilt, the harder it becomes to focus. Locate the projector so that it only needs to be tilted at a small angle.

1. Turn on the projector and display an image.

2. Press the foot release lever to extend and retract the front adjustable foot.



The foot extends from the projector. You can adjust the position up to 9°.

3. Release the lever to lock the foot.

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

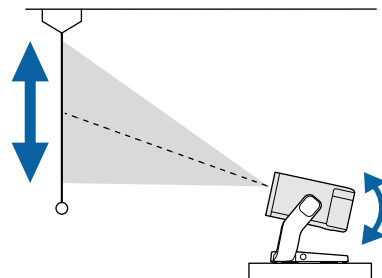
Parent topic: [Using Basic Projector Features](#)

Adjusting the Position of the Image (EF22)

If you are projecting from a table or other flat surface, you can adjust the image position by tilting or moving the projector on the stand.

The larger the angle of tilt, the harder it becomes to focus. Locate the projector so that it only needs to be tilted at a small angle.

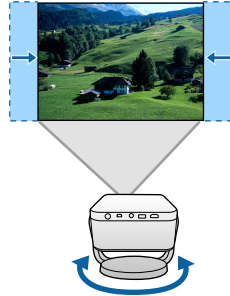
1. Turn on the projector and display an image.
2. Adjust the image height by tilting the projector up or down.



Attention:

- You can adjust the position from -30 to +120 degrees vertically.
- Do not tilt the projector up or down beyond its range of movement. Doing so may cause a malfunction.

3. To adjust the horizontal position of the projected image, turn the projector stand left or right as shown below.

**Attention:**

- Turn the projector stand slowly. Turning it with too much force may cause a malfunction.
- Do not turn the projector stand left or right beyond its range of movement. Doing so may cause a malfunction.
- Do not turn the projector stand by holding the cables connected to the projector's ports. Doing so may damage the cables or ports.

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

Parent topic: [Using Basic Projector Features](#)

Image Shape

You can project an even, 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 tilt it up or down, or off to the side, you may need to correct the image shape.

After correction, your image is slightly smaller.

For the best quality images, we recommend adjusting the installation position of the projector to achieve the correct image size and shape.

[Correcting the Image Shape and Focus Automatically](#)

[Adjusting the Size of the Image](#)

[Repositioning the Image](#)

[Automatically Correcting the Image Shape with Fit to Screen](#)

[Correcting the Image Shape Manually](#)

[Focusing the Image Using the Projector Menus](#)

Parent topic: [Using Basic Projector Features](#)

Correcting the Image Shape and Focus Automatically

The projector automatically corrects the focus and any keystone distortion of the projected image in the following situations:

- When you turn on the projector
- When the projector is moved or tilted

Focus and keystone distortion can be automatically corrected under the following conditions:

- When the size of the projected image (diagonal length) before correcting the focus and keystone distortion is from 30 to 100 inches
- When the projection distance is about 25 to 87 inches (0.7 to 2.2 m)
- When the installation angle of the projector toward the projection surface is within 20° right, left, up, or down


Note:

- Focus and keystone distortion are corrected even if the size of the projected image exceeds 100 inches. However, the adjustment may fail depending on the installation angle of the projector, the brightness of the room, and the material of the projection surface. If necessary, adjust the keystone distortion and focus settings manually using the projector menu.
- When an image is being projected at an angle and has been reduced using the **Zoom** function, keystone distortion may not be corrected. If the correction fails, adjust the reduction ratio of the image so that it is closer to 100%.
 - **Projector > Image Correction > Zoom & Shift > Zoom**

Parent topic: [Image Shape](#)

Adjusting the Size of the Image


You can use the **Zoom** feature to adjust the size of the projected image.

1. Turn on the projector and display an image.
2. Press the  projector settings button on the remote control.
3. Select **Image Correction > Zoom & Shift > Zoom**.
The zoom adjustment screen is displayed.
4. Use the left and right arrow buttons to adjust the image size.
5. Press ← esc to exit the menus.

Parent topic: [Image Shape](#)

Repositioning the Image

You can use the **Image Reposition** feature to adjust the position of the projected image.

1. Turn on the projector and display an image.
2. Press the  projector settings button on the remote control.
3. Select **Image Correction > Zoom & Shift > Image Reposition**.
The image reposition adjustment screen is displayed.
4. Use the left and right arrow buttons to adjust the image position.
5. Press ← esc to exit the menus.

Parent topic: [Image Shape](#)

Related references

[Projector Feature Settings - Projector Menu](#)


Automatically Correcting the Image Shape with Fit to Screen

You can use the projector's **Fit to Screen** feature to automatically correct the shape and position of images to fit on your screen.

Fit to Screen operates under the following conditions:

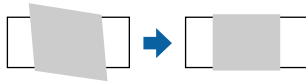
- Screen size is from 30 to 100 inches.
- Projection distance is about to 27.6 to 86.6 inches (0.7 to 2.2 m).
- Projection angle is within about 15° right, left, up, or down.

- The room is not too dark.
- The projection surface is not patterned and does not deflect the projector's camera in some way.

1. Turn on the projector and display an image.
2. Press the  projector settings button on the remote control.
3. Select **Image Correction > Fit to Screen**.
A message is displayed.
4. Expand the projection area so that it extends beyond the edges of the screen.

Note:

- Move the projector farther away from the screen as necessary.
- For example, when you project onto a wide screen in a small room and you cannot extend the projection area beyond the screen frame, the projection area must include at least the top and bottom two sides of the screen so that Fit to Screen detects the screen height and adjusts the image to fit the screen.



5. Select **START**.

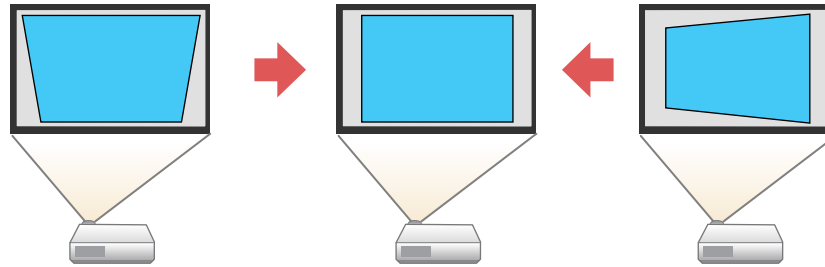
Note: When the adjustment screen is displayed, do not move the projector or block the image.


6. Press ← esc to exit the menus.

Parent topic: [Image Shape](#)

Correcting the Image Shape Manually

You can use the projector's **Manual Keystone Correction** setting to correct the shape and size of an image that is unevenly rectangular.



1. Turn on the projector and display an image.
2. Press the  projector settings button on the remote control.
3. Select **Image Correction > Manual Keystone Correction**.
The **Manual Keystone Correction** screen is displayed.
4. Use the Enter button to select the point on the image you want to adjust, and adjust the image shape using the arrow buttons.

Note:


- If the directional key on the screen turns gray, you cannot make further adjustments in that direction.
- To reset the corrections, press and hold the Enter button.



5. Press ← esc to exit the menus.

Parent topic: [Image Shape](#)

Focusing the Image Using the Projector Menus

You can correct the focus using the projector menus.

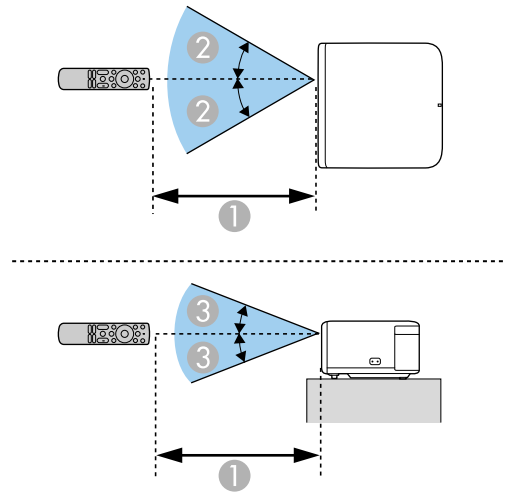
Note: When you hold down the  focus button on the remote control, the focus of the projected image is automatically corrected. If you want to manually adjust the focus, follow the steps below.

1. Turn on the projector and display an image.
2. Press the  focus button on the remote control.
The focus adjustment screen is displayed.
3. Use the up and down arrow buttons to adjust the focus setting.
4. Press  esc to exit the menus.

Parent topic: [Image Shape](#)

Remote Control Operation

The remote control lets you control the projector from almost anywhere in the room, up to 16.4 feet (5 m) away. It is recommended that you aim the remote control at the projector's receivers within the distance and angles listed here.



- 1 16.4 feet (5 m)
- 2 30°
- 3 15°


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 Basic Projector Features](#)

Using Voice Commands to Control Your Projector

You can use your remote control or linked Google Home device to control your projector using voice commands.

Note: Make sure the remote control is paired to the projector.

1. To use voice commands with your projector using your remote, press and release the  mic button, then say the command you want to perform.

You can use voice commands to search for actors or shows, open installed apps, and control media playback.



2. To use a Google Home device to send voice commands to your projector, link the device with your projector using the Google Home app. You may also need to link streaming apps to your Google account. For detailed instructions, go to your device's support page.

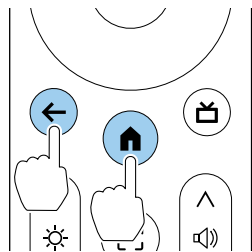
Parent topic: [Using Basic Projector Features](#)

Pairing the Remote Control

To use Google TV and video-on-demand features, you must pair the remote control to the projector.

Note: When you first turn on the projector, instructions for pairing the remote control are displayed on the screen.


1. Turn on the projector.
2. When the pairing screen is displayed, hold down the  home button and  esc button on the remote control at the same time to pair the remote control and the projector.



Parent topic: [Using Basic Projector Features](#)

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. Press the  source search button on the remote control. Press the up or down buttons to select the image source.


Note: If no image signal is detected, check the cable connections between the projector and the image source.

Parent topic: [Using Basic Projector Features](#)


Using Google Cast

Your projector has Google Cast, allowing you to cast content from Chromecast-enabled apps.

1. Connect your device or computer to the same wireless network as the projector.
2. Open the Chromecast-enabled app and press the  Cast button.
3. Select your projector from the list of devices.

Note: By default, the name of the projector is **EPSON Projector**. To select another name or use a custom name, press the  settings button on the remote control and select **System > About > Device name**.

The app connects and starts casting to the projector.

4. To stop casting, press the  Cast button in the app and choose the disconnect option.

Parent topic: [Using Basic Projector Features](#)

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.

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

Note: You can select this setting only when the current input source is HDMI.




[Changing the Image Aspect Ratio](#)

[Available Image Aspect Ratios](#)

Parent topic: [Using Basic Projector Features](#)

Changing the Image Aspect Ratio

You can change the aspect ratio of the displayed image to resize it.

1. Turn on the projector and switch to the image source you want to use.
2. Press the  settings button on the remote control.
3. Select  > **Display & Sound** > **Screen**.
4. Select the aspect ratio setting you want to use for your input signal and press Enter.
5. Press the  esc button to exit the menus.

Parent topic: [Image Aspect Ratio](#)

Related references

[Available Image Aspect Ratios](#)

Available Image Aspect Ratios

You can select the following image aspect ratio settings for the HDMI video source.

Note: Using the aspect ratio function to reduce, enlarge, or split the projected image for commercial purposes or for public viewing may infringe upon the rights of the copyright holder of that image based on copyright law.

Aspect ratio setting	Description
Full	Displays images using the full width of the projection area, but does not maintain the aspect ratio.
Super Zoom	Zooms into images. The right, left, top, and bottom edges are missing.

Aspect ratio setting	Description
Unscaled	Displays images as is (aspect ratio and resolution are maintained).
4:3	Scales images to 4:3.
Movie expand 14:9	Scales images to 14:9.
Movie expand 16:9	Scales images to 16:9.

Parent topic: [Image Aspect Ratio](#)

Color Mode (Picture Mode)




The projector offers different Color Modes (Picture 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.

[Changing the Color Mode \(Picture Mode\)](#)

Parent topic: [Using Basic Projector Features](#)

Changing the Color Mode (Picture Mode)

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

1. Turn on the projector and display an image.
2. Press the  settings button on the remote control.
3. Select the  Google TV settings icon on the dashboard.
4. Select **Display & Sound > Picture**.
5. Select the color mode (picture mode) you want to use from the list and press Enter.
6. Press the  esc button to exit the menus.

[Available Color Modes](#)

Parent topic: [Color Mode \(Picture Mode\)](#)

Available Color Modes

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




Color Mode	Description
Dynamic	Best for optimizing brightness

Color Mode	Description
Vivid	Best for projecting general content in a bright environment
Natural	Best for projecting the image as is (choose this mode when making color adjustments)
Cinema	Best for projecting movies in a dark environment

Parent topic: [Changing the Color Mode \(Picture Mode\)](#)

Adjusting Picture Quality in Detail


You can fine-tune various aspects of how quality and colors are displayed in your projected images.

1. Turn on the projector and display an image.
2. Press the  settings button on the remote control.
3. Select the  Google TV settings icon on the dashboard.
4. Select **Display & Sound > Picture > Custom**.
5. Select one of the following options:
 - To adjust the difference between light and dark areas of the image, adjust the **Contrast** setting.
 - To adjust the overall vividness of the color, adjust the **Saturation** setting.
 - To adjust the outline of the image, adjust the **Sharpness** setting.
 - To adjust the individual R (red), G (green), and B (blue) components of the gain, adjust the **Color Gain** setting.
 - To adjust the coloring, adjust the **Gamma** setting.
6. Press the  esc button to exit the menus.

Parent topic: [Using Basic Projector Features](#)

Turning On Automatic Luminance Adjustment

You can turn on the **Dynamic Contrast** setting to automatically optimize the image luminance. This improves the image contrast based on the brightness of the content you project.

1. Turn on the projector and display an image.
2. Press the  projector settings button on the remote control.

3. Select **Advanced Settings > Dynamic Contrast** and press Enter.
4. Select the **Dynamic Contrast** setting and press **Enter**.
5. Select **On** to enable **Dynamic Contrast**.
6. Press the ← esc button to exit the menus.

Parent topic: [Using Basic Projector Features](#)


Adjusting the Brightness

You can adjust the brightness of your projector's light source.

1. Turn on the projector and display an image.
2. Press the ☀ brightness up/down buttons on the remote control to adjust the brightness.
3. Press the ← esc button to exit the menus.

Parent topic: [Using Basic Projector Features](#)

Controlling the Volume with the Volume Buttons

You can use the  volume buttons on the remote control to adjust the volume of the internal speaker system.

You must adjust the volume separately for each connected input source.


Warning: Do not start playback at a high volume. Sudden loud noises may cause hearing loss. Always lower the volume before turning off the projector. Gradually increase the volume after turning the projector on.

1. Turn on the projector and start a presentation that includes audio.
2. To lower or raise the volume, press the volume buttons on the projector's remote control.

Parent topic: [Using Basic Projector Features](#)

Changing the Sound Mode

You can change the projector's sound mode to provide optimal sound for a variety of image types.

1. Turn on the projector and start a video
2. Press the ⚙ settings button on the remote control.
3. Select the  Google TV settings icon on the dashboard.

4. Select **Display & Sound > Sound**.
5. Select the sound mode and press Enter.
6. Press the ← esc button to exit the menus.

[Available Sound Modes](#)

Parent topic: [Using Basic Projector Features](#)

Available Sound Modes

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

Sound Mode	Description
Standard	Outputs the audio using normal sound quality.
Vocal	Best for hearing voices and spoken lines.
Music	Best for music. Low and high pitched sounds are clearer.
Movie	Best for audio from videos or movies. Low and high pitched sounds are emphasized.

Parent topic: [Changing the Sound Mode](#)

Adjusting Projector Features

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

[Using the Projector as a Bluetooth Speaker](#)

[Operating Connected Devices Using the HDMI Link Features](#)


[Shutting Off the Picture and Sound Temporarily](#)

[Updating the Firmware Using Epson Projector Update](#)

[Resetting the Projector](#)

Using the Projector as a Bluetooth Speaker

You can use the projector's speakers to output audio from a compatible device connected by Bluetooth.

1. Turn on the projector and display an image.
2. Press the  projector settings button on the remote control.
3. Select **Bluetooth Speaker Mode** and press Enter.

The **Bluetooth Speaker Mode** screen is displayed and the projected image turns off after 10 seconds.

4. Enable the Bluetooth function on the device you want to connect and select **EPSON Projector** from the available device list. See the documentation supplied with the device for more information.

Note:

- You can change the name EPSON Projector. Select another name or use a custom name from the projector's Device name menu.
 - **System > About > Device name**
- To cancel a Bluetooth connection, disconnect from the connected device.

5. Press and hold the ← esc button for two seconds to exit **Bluetooth Speaker Mode**.

Note:

- There is a delay in the audio output from any Bluetooth audio device.
- You cannot connect multiple video/audio devices by Bluetooth at the same time.

- You can also connect the projector to Bluetooth audio devices, such as speakers or headphones, to output the projector's audio from these devices. Select **Remotes & Accessories > Pair accessory** to perform pairing.
- You may not be able to connect depending on the standard and type of device.
- Even when connecting within the specified communication distance, connections can be lost due to the status of the signal.
- The communication method for Bluetooth uses the same frequency (2.4 GHz) as wireless LAN (IEEE802.11b/g) or microwave ovens. Therefore, if these devices are used at the same time, radio wave interference may occur, the audio may be interrupted, or communication may not be possible. If you do need to use these devices at the same time, make sure there is enough distance between them and the Bluetooth device.
- Bluetooth audio devices are not supported in some countries and regions.

Parent topic: [Adjusting Projector Features](#)



Related references

[Bluetooth Specifications](#)

Operating Connected Devices Using the HDMI Link Features

You can use the projector remote control to control certain features of devices connected to the projector's HDMI port.

Note: The connected device and HDMI cable must meet the HDMI CEC standard. The device must also be configured; see the documentation that came with the device. All devices or functions may not operate properly even if they meet the HDMI CEC standard. See the documentation supplied with the device for more information. Use a cable that supports the HDMI standard.

1. Press the  settings button on the remote control to open the dashboard.
2. Select the  Google TV settings icon on the dashboard.
3. Select **Inputs > Inputs > HDMI control**.
4. Set **HDMI control** to **On**.
5. Adjust the following HDMI CEC settings as necessary.
 - To automatically turn off the connected device when you turn off the projector, set **Device Auto Power Off** to **On**.


- To automatically turn on the projector when you turn on the connected device, set **TV auto power on** to **On**.

6. Press the ← esc button to exit the menus.

Parent topic: [Adjusting Projector Features](#)

Shutting Off the Picture and Sound Temporarily

You can temporarily turn off the projector's picture and sound. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

1. Press the ⚙ settings button on the remote control to open the dashboard.
2. Select the  Google TV settings icon on the dashboard.
3. Select **System > Power & Energy > Power**.
4. Select **Picture off** to turn off the projected image.
5. Press the button to turn the image back on.

Parent topic: [Adjusting Projector Features](#)

Updating the Firmware Using Epson Projector Update

You can get the latest version of the projector firmware over a network using Epson Projector Update.

When the latest projector firmware is available, a notification is automatically displayed on the screen. Follow the on-screen instructions to update the firmware.

Note: You can search for and install the Epson Projector Update app from the search window on the home screen. Be sure to install the app to keep the projector up to date.

1. Press the 🏠 home button on the remote control.
2. Select **Apps** and start **Epson Projector Update** by selecting it from the apps list.
3. Follow the on-screen instructions to update the firmware.



Caution: Do not operate or turn off the projector while updating the firmware.

Parent topic: [Adjusting Projector Features](#)

Resetting the Projector

You can reset the projector and all settings to their default values.

Note: Write down the settings you do not want to lose before resetting the projector. When you reset the projector, all information, including installed apps, Google account login information, and projector settings, is deleted.

1. Turn on the projector and display an image.
2. Press the  settings button on the remote control to open the dashboard.
3. Select the  Google TV settings icon on the dashboard.
4. Select **System > About > Reset > Factory reset**.
5. Follow the on-screen instructions to start initializing the projector.

Parent topic: [Adjusting Projector Features](#)

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](#)

[Projector Feature Settings - Inputs Menu](#)



[Projector Feature Settings - Projector Menu](#)

[Image Quality Settings - Display & Sound Menu](#)

[Other Menus](#)

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  settings button on the remote control to open the dashboard.
2. Select the  Google TV settings icon on the dashboard.
3. Press the up or down arrow buttons on the remote control to move through the menu selections.
4. To change settings in the displayed menu, press Enter.
5. Press the arrow buttons to move through the settings.
6. Change the settings using the buttons as necessary.
7. When you finish changing settings on a menu, press ← esc to exit the menus.

Parent topic: [Adjusting the Menu Settings](#)

Projector Feature Settings - Inputs Menu

Settings on the **Inputs** menu let you control the audio/video device you are currently using.

Setting	Options	Description
Inputs	HDMI1	Selects a name you want to display as the name of the audio/video device that is connected to the projector's HDMI (ARC) port. To give it a name that is not in the list, select Custom .
	HDMI control	Select On to control the connected audio/video device using the projector's remote control.
	Device auto power off	Select On to automatically turn off the connected audio/video device when you turn off the projector.
	TV auto power on	Select On to automatically turn on the projector when you turn on the connected device, or when you start playback on the connected device.
	HDMI EDID Version	Displays the EDID version.
	CEC Device List	Lists the devices connected to the projector's HDMI (ARC) port.

Parent topic: [Adjusting the Menu Settings](#)

Projector Feature Settings - Projector Menu

Settings on the **Projector** menu provide correction methods to properly project your image.

Setting	Options	Description
Focus	Auto focus	Automatically adjusts the focus of the projected image
	Manual focus	Manually adjusts the focus of the projected image
	Advanced	<p>Auto Focus at Startup: Select On to automatically correct the focus of the projected image when you turn on the projector.</p> <p>Auto Focus When Moving: Select On to automatically correct the focus of the projected image when the projector is moved or tilted.</p>

Setting	Options	Description
Image Correction	Auto Keystone Correction	Automatically adjusts any horizontal/vertical distortion of the projected image
	Manual Keystone Correction	Manually adjusts any horizontal or vertical distortion of the projected image.
	Fit to Screen	Automatically corrects the shape and position of the projected image to fit on your screen
	Zoom & Shift	Zoom: Resizes the projected image. Image Reposition: Adjusts the image position.
	Reset to Default Image	Resets all adjustment values on the Image Correction menu to their default settings
	Advanced	Auto Keystone Correction At Startup: Select On to automatically adjust any horizontal or vertical distortion of the projected image when you turn on the projector. Auto Keystone Correction on Movement: Select On to automatically adjust any horizontal or vertical distortion of the projected image when the projector is moved or tilted. Avoid Obstacles: Set to On to enable the Avoid Obstacles function.

Setting	Options	Description
Bluetooth Speaker Mode	—	Opens the Bluetooth device connection screen to switch to Bluetooth Speaker Mode. To exit Bluetooth Speaker Mode, press the ← esc button for two seconds.
Advanced Settings	Smart Eye Protection	Select On to enable the Smart Eye Protection function When the projector's sensor detects obstacles that are interfering with the projection area, the brightness of the light source is automatically reduced to minimize glare.
	Projection Mode	Selects the way the projector faces the screen so that the image is oriented correctly.
	Remote Control	Remote Control Battery Level: Displays the remaining battery level of the remote control. Remote Control Version: Displays the remote control version.
	Product Name	Displays the product name
	Sub System version	Displays the Sub system version
	Dynamic Contrast	Select On to enable the Dynamic Contrast function

Parent topic: [Adjusting the Menu Settings](#)

Image Quality Settings - Display & Sound Menu

Settings on the **Display & Sound** menu let you adjust the quality of your image and optimize the sound for the input source you are currently using.

Setting	Options	Description
Picture	Brightness	Selects the brightness of the light source
	Dynamic Vivid Natural Cinema	You can select your favorite color mode from the list.
	Custom	<p>Contrast: Adjusts the difference between light and dark areas of the image.</p> <p>Saturation: Adjusts the overall vividness of the color.</p> <p>Sharpness: Adjusts the sharpness or softness of the image.</p> <p>Color Gain: Adjusts the individual R (red), G (green), and B (blue) components of the gain.</p> <p>Gamma: Selects the gamma to adjust the coloring.</p>
	Color Temperature	Sets the color temperature according to the color mode you selected.
	Reset to Default	Resets all adjustment values on the Picture menu to their default settings.
	Screen	Full Super Zoom Unscaled 4:3 Movie expand 14:9 Movie expand 16:9

Setting	Options	Description
Sound	Standard Vocal Music Movie	Select your favorite mode for sound output from the projector's speaker system according to the playback contents.
	System Sound	Turns the system sounds on or off.
Audio Output	Digital Output	Selects the sound output format when you output audio to an external audio device.
	Digital Output Delay	Adjusts the audio latency. If the audio is fast, select a higher value.

Parent topic: [Adjusting the Menu Settings](#)

Other Menus

Options on other menus let you customize various Google TV features.

[Network & Internet Menu](#)

[Accounts & sign-in Menu](#)

[Privacy Menu](#)

[Apps Menu](#)

[System Menu](#)

[Remotes & Accessories Menu](#)

[Help & Feedback Menu](#)

Parent topic: [Adjusting the Menu Settings](#)

Network & Internet Menu

Settings on the **Network & Internet** menu let you view network information and set up the projector for controlling over a network.

Parent topic: [Other Menus](#)

Accounts & sign-in Menu

Settings on the **Accounts & sign-in** menu let you add new Google Accounts used to log in to the Google TV, and make detailed settings for these accounts.

Parent topic: [Other Menus](#)

Privacy Menu

Settings on the **Privacy** menu let you change your privacy and security settings.

Parent topic: [Other Menus](#)

Apps Menu

The **Apps** menu displays your most recently used apps or all the apps that are installed on the projector.

Parent topic: [Other Menus](#)

System Menu

Settings on the **System** menu let you customize various projector features.

Setting	Description
Accessibility	Allows you to make settings for accessibility, such as subtitles and text reading
About	Displays the projector's preferences and status You can return all the projector settings to their factory default values from this menu.
Date & Time	Adjusts the projector's system time and date settings
Language	Select the language used for the projector menus and messages
Keyboard	Allows you to make detailed settings for the virtual keyboard installed in the projector's menu
Storage	Allows you to display the usage status of the internal storage and clean the cache
Ambient mode	Allows you to make settings for the screen saver
Power & Energy	Allows you to make settings for power and energy saving such as the Sleep Timer or Picture off features

Setting	Description
Cast	Allows you to make settings for the cast function using Google Cast.
System Sound	Turns the system sound on or off
Restart	Restarts the projector

Parent topic: [Other Menus](#)

Remotes & Accessories Menu

Settings on the **Remotes & Accessories** menu let you pair the remote control and the projector, or let you connect/disconnect your Bluetooth devices to the projector.

Parent topic: [Other Menus](#)

Help & Feedback Menu

The **Help & Feedback** menu provides a link to the Google TV help page, or lets you send feedback or comments about the product.

Parent topic: [Other Menus](#)

Maintaining and Transporting the Projector

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

[Projector Maintenance](#)

[Air Filter and Vent Maintenance](#)

[Replacing the Remote Control Batteries](#)

[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 vents to prevent the projector from overheating due to blocked ventilation.

The only parts you should replace are the remote control batteries. If any other part needs replacing, contact Epson or an authorized Epson servicer.

This projector uses a sealed laser light source which does not need servicing and cannot be replaced.

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](#)

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. Make sure you turn off the projector and unplug the power cord before cleaning the lens.

- To remove dust or smudges, gently wipe the lens with clean and dry 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 may cause a fire. If the lens is dusty, blow off dust using a blower, and then wipe the lens.

Caution: Do not wipe the lens immediately after turning off the projector; otherwise, the lens could be damaged. Do not use glass cleaner or harsh materials to clean the lens and do not subject the lens to any impacts; otherwise, you may damage the lens. Do not use canned air to clean the lens; the gases may leave a residue. Avoid touching the lens with your bare hands to prevent fingerprints or damage to the lens surface. Do not use cleaning products that contain ammonia; the protective coating on the lens could be damaged.

Parent topic: [Projector Maintenance](#)

Cleaning the Projector Case

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

- To remove dust or dirt, use a soft, dry, lint-free cloth.
- To remove stubborn dirt, use a soft cloth moistened with water and mild soap. Do not spray liquid directly on the projector.

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

Parent topic: [Projector Maintenance](#)

Air Filter and Vent Maintenance

Regular filter maintenance is important to maintain your projector. Clean the air filter when a message appears telling you the temperature inside the projector has reached a high level. It is recommended that you clean these parts about once every year. Clean them more often than this if you use the projector in an environment that is dustier than expected. (Assuming the projector is used in an atmosphere in which airborne particulate matter is less than 0.04 to 0.2mg/m³.)

[Cleaning the Air Vents](#)

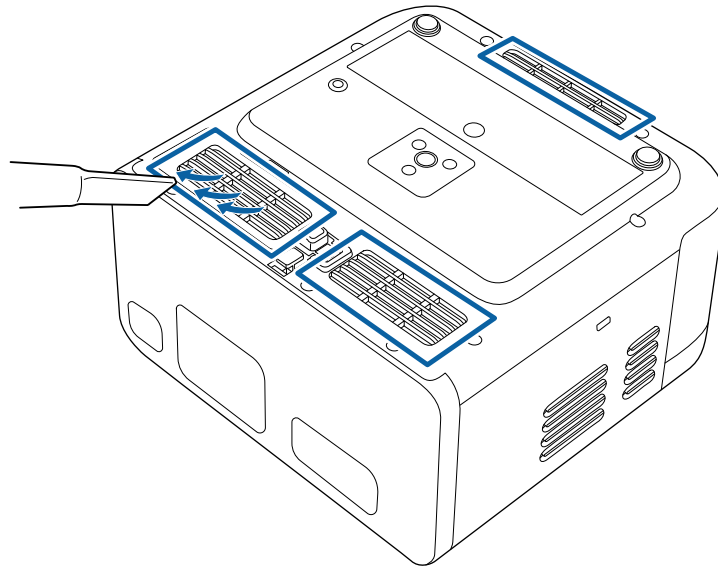
Parent topic: [Maintaining and Transporting the Projector](#)

Cleaning the Air Vents

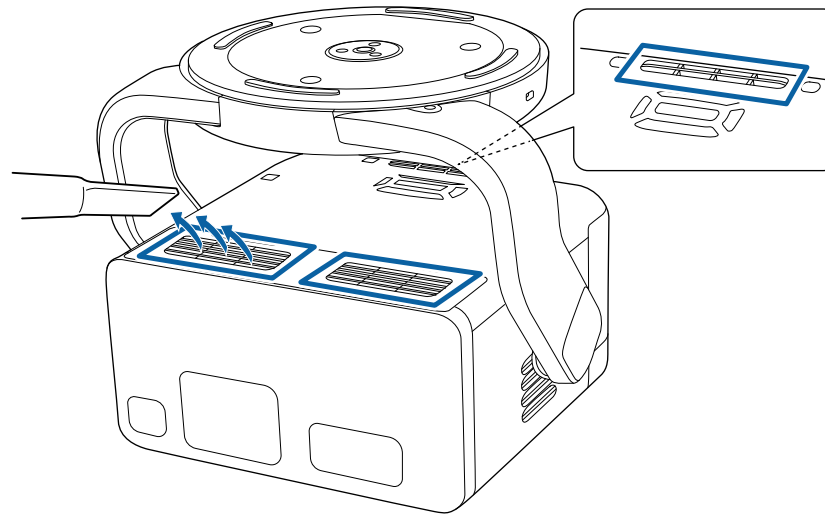
Clean the projector's air vents if they get dusty, or if you see a message telling you to clean them, or if the Status indicator turns orange.

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

EF21



EF22



Caution: Do not use canned air. The gases may leave a flammable residue or push dust and debris into the projector's optics or other sensitive areas. Do not rinse the air filter in water, or use any detergent or solvent to clean it. Do not directly vacuum the air filter. Doing so could damage the filter. If dust is difficult to remove or the air filter is damaged, contact Epson to request help with replacing the air filter.

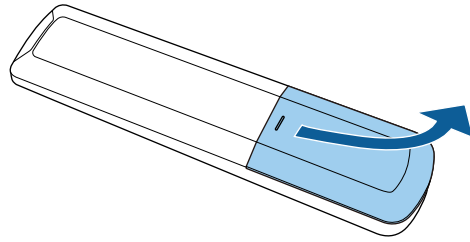
Parent topic: [Air Filter and Vent Maintenance](#)

Replacing the Remote Control Batteries

The remote control uses two AAA 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.

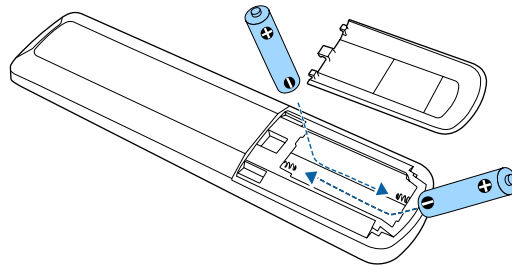
1. Remove the battery cover as shown.



2. Remove the old batteries.

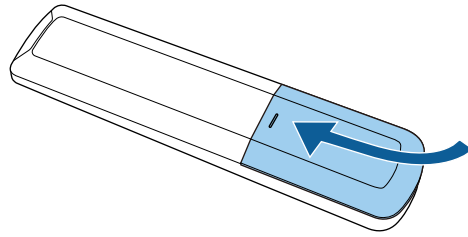
Warning: If the battery fluid has leaked, wipe it away with a soft cloth and avoid getting the fluid on your hands. If it gets on your hands, wash them immediately to avoid injury.

3. Insert the batteries with the + and – ends facing as shown.



Warning: Make sure the batteries are inserted in the correct positions. If the batteries are not inserted correctly, they could explode or leak, causing a fire, injury, or damage to the product.

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: [Maintaining and Transporting the Projector](#)

Transporting the Projector

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

1. Remove any equipment connected to the projector.
2. Make sure the status indicator is not lit, then unplug the power cord.
3. Do one of the following:
 - 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: We recommend resetting your projector settings (including any account settings) before sending your projector in for service. See the link below.

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

Parent topic: [Maintaining and Transporting the Projector](#)

Related tasks

[Resetting 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 Projector Power Problems](#)

[Solving Projector Shutdown Problems](#)

[Solving Image or Sound Problems](#)

[Solving Remote Control Operation Problems](#)

[Solving HDMI CEC Problems](#)

[Solving Wi-Fi Network Problems](#)

[Solving Google TV Problems](#)

[Where to Get Help \(U.S. and Canada\)](#)

[Where to Get Help \(Latin America\)](#)

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 Status light on the projector may indicate what the problem is.
- The solutions in this manual can help you solve many problems.

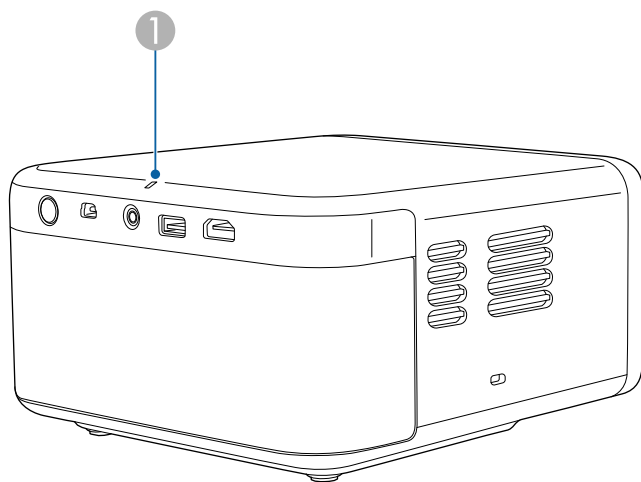
If none of these solutions help, you can contact Epson for technical support.

Parent topic: [Solving Problems](#)

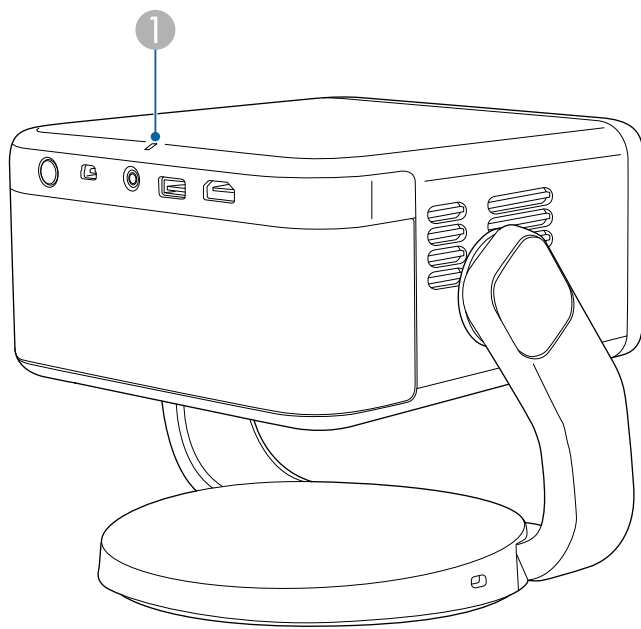
Projector Light Status

The light on the projector indicates the projector status and lets you know when a problem occurs. Check the status and color of the light and look for a solution in the tables here.

EF21



EF22



1 Status light

Status light	Status and solution
Blue	Normal operation
Flashing blue	The projector is warming up or updating the firmware. The remote control may not function if the status indicator is flashing blue.
Off	The projector is in standby or sleep mode. When you press the power button on the projector or remote, projection begins.
Orange	Projector is too hot and has turned off. <ul style="list-style-type: none">• Let the projector cool down for at least five minutes• Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.• Clean or replace the air filter.• Make sure the environmental temperature is not too hot.• If the problem persists, unplug the projector and contact Epson for help.
Flashing orange	An internal projector error has occurred. Turn the projector off, unplug it, and contact Epson for help.

Note: If the light displays a pattern not listed in the tables above, turn the projector off, unplug it, and contact Epson for help.

Parent topic: [Solving Problems](#)

Solving Projector Power Problems

If the projector does not turn on when you press the power button, try the following steps until the problem is solved.


1. Make sure the power cord is securely connected to the projector and to a working electrical outlet.
2. If you are using the remote control, check the batteries of the remote control.
3. The projector may have entered into Bluetooth Speaker Mode. Hold the ← esc button on the remote control for two seconds.

4. The power cord may be defective. Disconnect the cord and contact Epson for help.

Parent topic: [Solving Problems](#)


Solving Projector Shutdown Problems

If the projector's light source turns off unexpectedly, try the following steps until the problem is solved.


1. The projector may have entered sleep mode after the interval of time specified in the **Sleep Timer** setting in the projector's **Power & Energy** menu has passed. Press the  power button on the projector or remote control to wake the projector.

- **System > Power & Energy > Power > Sleep Timer**

Note: After waking the projector, **Sleep Timer** is automatically set to **Off**.

2. The projector may have turned off after the interval of time specified in the **Switch Off Timer** setting in the projector's **Power & Energy** menu has passed. Press the  power button on the projector or remote control to turn the projector back on .

- **System > Power & Energy > Power > Switch Off Timer**

3. The projector may have entered into Bluetooth Speaker Mode. Hold the  esc button on the remote control for two seconds.

4. When the status indicator is lit orange, the projector has overheated and turned off.

Note: The cooling fans may run in standby status depending on the projector settings. Also, when the projector wakes from standby status, the fans may cause an unexpected noise. This is not a malfunction.

Parent topic: [Solving Problems](#)

Solving Image or Sound Problems

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

[Solving Missing Image Problems](#)

[Adjusting an Image that is not Rectangular](#)

[Adjusting a Fuzzy or Blurry Image](#)

[Fixing Partial Image Problems](#)

[Adjusting an Image that Contains Noise or Static](#)

[Adjusting an Image with Incorrect Brightness or Colors](#)

[Adjusting an Upside-down Image](#)
[Solving Auto Correction Problems](#)
[Solving Missing or Low Audio Problems](#)
[Solving Bluetooth Speaker Mode Problems](#)

Parent topic: [Solving Problems](#)

Solving Missing Image Problems

If no image is displayed, try the following steps until the problem is solved.

1. Check the projector's status:
 - Check the status indicator to confirm that the projector is in normal operating status.
 - Press the projector's power button to wake it from standby or sleep mode.
 - **System > Power & Energy > Power > Sleep Timer**
2. Check the cable connection:
 - Make sure all necessary cables are securely connected and the power is on for the projector.
 - Connect the video source directly to the projector.
 - Replace the HDMI cable with a shorter one.
3. Check the status of your video source:
 - Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information.
 - If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
 - If your input source is HDMI, change the aspect ratio in the Screen setting
 - **Display & Sound > Screen**
4. Check the following items:
 - You need an Internet connection to view online content. Make sure your Wi-Fi is on.
 - Set the CEC function for the connected device again and restart the device.
 - Make sure the computer's display resolution does not exceed the projector's resolution and frequency limits. If necessary, select a different display resolution for your computer. (See your computer manual for details.)
 - Reset all of the projector settings to their default values.

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

Adjusting an Image that is not Rectangular

If the projected image is not evenly rectangular, try the following steps until the problem is solved.

Note: Focus and keystone distortion of the projected image are automatically corrected under the following conditions:

- When the size of the projected image (diagonal length) before correcting focus and keystone distortion is from 30 to 100 inches.
- When the projection distance is about 28 to 87 inches (0.7 to 2.2 m).
- When the installation angle of the projector toward the projection surface is within 20° right, left, up, or down.

1. Place the projector directly in front of the center of the screen, facing it squarely, if possible.
2. Make sure that **Auto Keystone Correction At Startup** and **Auto Keystone Correction on Movement** are set to **On** in the **Projector** menu.
 - **Projector > Image Correction > Advanced > Auto Keystone Correction At Startup**
 - **Projector > Image Correction > Advanced > Auto Keystone Correction on Movement**
3. Select **Auto Keystone Correction** in the **Projector** menu to automatically adjust the image shape.
 - **Projector > Image Correction > Auto Keystone Correction**
4. When projecting on a screen, use **Fit to Screen** to automatically correct the shape and position of the image so that it fits on your screen.
 - **Projector > Image Correction > Fit to Screen**
5. Adjust the image shape manually using **Manual Keystone Correction** in the **Projector** menu.
 - **Projector > Image Correction > Manual Keystone Correction**

Note: If you cannot correct the focus and any distortion of the projected image, turn off the projector and disconnect the power cord, then reconnect the power cord and turn the projector back on. If a warning screen is displayed when you turn on the projector, contact Epson for help.



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

Adjusting a Fuzzy or Blurry Image

If the projected image is fuzzy or blurry, try the following steps until the problem is solved.

Note: Focus and keystone distortion of the projected image are automatically corrected under the following conditions:

- When the size of the projected image (diagonal length) before correcting focus and keystone distortion is from 30 to 100 inches.
- When the projection distance is about 28 to 87 inches (0.7 to 2.2 m).
- When the installation angle of the projector toward the projection surface is within 20° right, left, up, or down.

1. Hold down the  focus button on the remote control to perform **Auto Focus**.
2. Press the  focus button on the remote control to display the focus adjustment screen and adjust focus manually.
3. Check the following items:
 - Position the projector close enough to the screen.
 - Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
4. Clean the projector's lens.

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.

5. Adjust the **Sharpness** setting in the projector's **Display & Sound** menu to improve image quality.
 - **Display & Sound > Picture > Custom > Sharpness**
6. If you are projecting from a computer, use a lower resolution or select a resolution that matches the projector's native resolution.

Note: If you cannot correct the focus and any distortion of the projected image, turn off the projector and disconnect the power cord, then reconnect the power cord and turn the projector back on. If a warning screen is displayed when you turn on the projector, contact Epson for help.

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

Fixing Partial Image Problems

If only a partial image is displayed, try the following steps until the problem is solved.

1. Adjust the position of the projected image using the **Image Reposition** setting in the **Projector** menu.
 - **Projector > Image Correction > Zoom & Shift > Image Reposition**
2. Select an appropriate aspect ratio from the **Screen** menu according to the current input source. (Available only when the current input source is HDMI.)
 - **Display & Sound > Screen**
3. Make sure you select the correct projection mode. You can select this from the **Projection Mode** menu.
 - **Projector > Advanced Settings > Projection Mode**
4. Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)

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

Adjusting an Image that Contains Noise or Static

If the projected image contains electronic interference (noise) or static, try the following steps until the problem is solved.

1. Check the cables connecting your 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
2. If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting in the projector's **Display & Sound** menu to improve image quality.
 - **Display & Sound > Picture > Custom > Sharpness**
3. If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
4. Select a computer video resolution and refresh rate that are compatible with the projector.

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

Adjusting an Image with Incorrect Brightness or Colors

If the projected image is too dark or bright, or the colors are incorrect, try the following steps until the problem is solved.

1. Try different color modes for your image and environment by selecting a color mode in the projector's **Picture** menu.
 - **Display & Sound > Picture**
2. Check your video source settings.
3. Adjust the settings for **Custom** and **Color Temperature** in the **Picture** menu for the current input source.
 - **Display & Sound > Picture**
4. Make sure all the cables are securely connected to the projector and your video equipment. If you connected long cables, try connecting shorter cables.
5. Position the projector close enough to the screen.

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

Adjusting an Upside-down Image

If the projected image is upside-down, select the correct projection mode.

- **Projector > Advanced Settings > Projection Mode**

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

Solving Auto Correction Problems

Try the following steps if you cannot automatically correct focus and vertical/horizontal distortion of the projected image in the following situations:

- When you turn on the projector
 - When the projector is moved or tilted
 - When you perform **Auto focus**
 - When you perform **Auto Keystone Correction**
1. Check the projector's status:
 - Remove any obstacles that are blocking the projector's camera and sensor.
 - Clean the projector's camera and sensor if they are dusty or dirty.

- Do not move the projector while correcting the focus and keystone distortion.
2. Check the installation environment of the projector.
 - Focus and keystone distortion of the projected image are automatically corrected under the following conditions:
 - When the size of the projected image (diagonal length) before correcting focus and keystone distortion is from 30 to 100 inches.
 - When the projection distance is about 28 to 87 inches (0.7 to 2.2 m).
 - When the installation angle of the projector toward the projection surface is within 20° right, left, up, or down.
 - Remove any obstacles between the projector and the projection surface as these can interrupt the projection.

Note: If you set **Avoid Obstacles** to **On**, the image is projected to avoid any obstacles in front of the projection surface. Your image will be re-sized to fit the available area.

- **Projector > Image Correction > Advanced > Avoid Obstacles**
- If you are using the projector in a bright room, darken the room. Do not change the room brightness while automatically correcting focus and keystone distortion.
- Project the image on to a plain and flat surface. Do not project the image on to a patterned surface or a non-level surface.

Note: If you cannot correct the focus and any distortion of the projected image, turn off the projector and disconnect the power cord, then reconnect the power cord and turn the projector back on. If a warning screen is displayed when you turn on the projector, contact Epson for help.

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

Solving Missing or Low Audio Problems

If there is no sound or the volume is too low, try the following steps until the problem is solved.

1. Adjust the projector's volume settings using the up/down buttons on the remote control.
2. Check the cable connection between the projector and your video source.
3. Check your video source to make sure the volume is turned up and the audio output is set for the correct source.

4. If you want to output audio to an external audio device that supports HDMI ARC using an HDMI cable, try the following solutions:
 - Set **HDMI control** to **On** in the **Inputs** menu.
 - **Inputs > Inputs > HDMI control**
 - Make sure the HDMI cable is compliant with HDMI ARC. When outputting audio to an external audio device that does not support HDMI ARC using an HDMI cable, set **HDMI control** to **Off** in the **Inputs** menu.
 - **Inputs > Inputs > HDMI control**
5. If audio is not output to an external audio device that supports HDMI ARC, try changing **Auto** to **PCM** as the **Digital Output** setting.
 - **Display & Sound > Audio Output > Digital Output**

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

Solving Bluetooth Speaker Mode Problems

If you cannot connect a Bluetooth audio device to the projector, try the following solutions.

Note: The projector turns off the screen after about 10 seconds after enabling Bluetooth Speaker Mode and connecting to a device. The screen will remain blank and you will only hear sound from the projector in this mode. To exit Bluetooth Speaker Mode, hold the ← esc button for two seconds, then release it.

1. Select **Bluetooth Speaker Mode** in the **Projector** menu and press the Enter button on the remote control.
2. Select **EPSON Projector** from the available Bluetooth device list displayed on your device.

Note: By default, the name of the projector is **EPSON Projector**. You can change the name by selecting another name or using a custom name from the projector's **Device name** menu.

- **System > About > Device name**

3. Check your Bluetooth audio device to make sure the volume is turned up and the audio output settings are correct.
4. Make sure only one Bluetooth device is connected to the projector. You cannot connect multiple Bluetooth audio devices to the projector at the same time.
5. Make sure the device meets the projector's Bluetooth specifications.



6. Check the following items:
 - Check for obstacles between the Bluetooth audio device and the projector, and change their positions to improve communication.
 - Make sure the connected Bluetooth audio device is within the specified communication distance.
 - 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 Bluetooth audio device.

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

Solving Remote Control Operation Problems

If the projector does not respond to remote control commands, try the following steps until the problem is solved.

Note: If you lose the remote control, you can order another one. Contact Epson for help.

1. Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.
2. 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.
3. If the pairing screen is displayed, perform pairing again by holding down the  home button and  esc button on the remote control at the same time for about three seconds.
4. If the projector does not display the remote pairing screen, perform pairing again by displaying the pairing screen manually from the **Remotes & Accessories** menu using the arrow and enter keys on a USB keyboard connecting to the projector's **USB** port.
5. If the image is projected from the projector, make sure you are operating the remote control within the reception angle and range of the projector.
6. 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.

Parent topic: [Solving Problems](#)

Solving HDMI CEC Problems

If you cannot operate the connected devices from the projector, try the following steps until the problem is solved.

Note: When a source device is connected to an A/V receiver or a soundbar, the source device may not be selectable to control via CEC in the projector's **HDMI Link** menu.

1. Make sure the cable meets the HDMI CEC standard.
2. Make sure the connected device meets the HDMI CEC standard. See the documentation supplied with the device for more information.
3. Set **HDMI control** to **On** in the **Inputs** menu.
 - **Inputs > Inputs > HDMI control**
4. Make sure all the cables are securely connected to the projector and your video equipment.
5. Make sure the connected devices are turned on and in standby status. See the documentation supplied with the device for more information.
6. If you connect a new device or change the connection, set the CEC function for the connected device again and restart the device.

Parent topic: [Solving Problems](#)

Solving Wi-Fi Network Problems

If you cannot connect to a Wi-Fi network, try the following solutions.

1. Make sure your Wi-Fi router and modem are working properly. Rebooting these devices may solve the network connection problem.
2. Check for obstacles between the Wi-Fi router and the projector, and change their positions to improve communication.
3. You can check the network settings from **Wi-Fi** in the **Network & Internet** menu.
4. If you initialize the projector, you need to select the network settings again on the initial setup screen.

Parent topic: [Solving Problems](#)

Solving Google TV Problems

See the following page if you have any problems when using Google TV.

<https://support.google.com/googletv/>

Note: If there is not enough space in the internal storage, system updates may fail. Free up space by deleting unnecessary apps and caches, then try updating again.

Parent topic: [Solving Problems](#)

Where to Get Help (U.S. and Canada)

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 (U.S.) or epson.ca/support (Canada) and select your product for solutions to common problems with your projector. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

To use the Epson PrivateLine Support service, call (800) 637-7661. 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 Monday through Friday, 7 a.m. to 4 p.m., Pacific Time.

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).

You can purchase a replacement remote control from an Epson parts distributor [here](#) (U.S. sales) or [here](#) (Canadian sales).

Parent topic: [Solving Problems](#)

Where to Get Help (Latin America)

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

Internet Support

Visit Epson's support website at latin.epson.com/support and select your product for solutions to common problems with your projector. You can download utilities and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

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

- Product name
- Product serial number (located on the bottom or rear of the projector, or in the projector's menu system)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer or video configuration
- Description of the problem

Then call:

Country	Telephone
Argentina	(54 11) 5167-0300 0800-288-37766
Bolivia*	800-100-116
Brazil	State capitals and metropolitan areas: 3004-6627 Other areas: 0800-377-6627 / 0800-EPSONBR
Chile	(56 2) 2484-3400
Colombia	Bogota: (57 1) 602-4751 Other cities: 01-8000-915235
Costa Rica	800-377-6627
Dominican Republic*	1-888-760-0068
Ecuador*	1-800-000-044
El Salvador*	800-6570
Guatemala*	1-800-835-0358

Country	Telephone
Mexico	Mexico City: (52 55) 1323-2052 Other cities: 800-087-1080
Nicaragua*	00-1-800-226-0368
Panama*	00-800-052-1376
Paraguay	009-800-521-0019
Peru	Lima: (51 1) 418-0210 Other cities: 0800-10126
Uruguay	00040-5210067

*Contact your local phone company to call this toll-free number from a mobile phone.

Note: Toll or long distance charges may apply. If your country does not appear on the list, contact the sales office in the nearest country.

Purchase Supplies and Accessories

You can purchase optional accessories and replacement parts from an Epson authorized reseller. To find the nearest reseller, go to latin.epson.com. Or you can contact your nearest sales office as described in "Where to Get Help."

Parent topic: [Solving Problems](#)

Technical Specifications

These sections list the technical specifications of your projector.

[General Projector Specifications](#)

[Projector Light Source Specifications](#)

[Remote Control Specifications](#)

[Projector Dimension Specifications](#)

[Projector Electrical Specifications](#)

[Projector Environmental Specifications](#)

[Bluetooth 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 (Full HD)
Lens	F=2.0 Focal length: 13.9 mm
Color reproduction	Up to 16.77 million colors
Brightness	Normal light source mode: White light output 1000 lumens (ISO 21118 standard) Color light output 1000 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	5,000,000:1 exceeded with Dynamic Contrast and Normal light source mode
Image size (in native aspect ratio)	30 to 150 inches (0.8 to 3.8 m)

Projection distance (in native aspect ratio)	24 to 134 inches (0.61 m to 2.4 m) for 30 to 150 inches (0.8 m to 3.8 m) diagonal screen size
Projection methods	Front, Front Ceiling, Rear, Rear Ceiling
Optical aspect ratio (width-to-height)	16:9
Focus adjustment	Automatic
Auto Keystone Correction - Real Time	Throw distance: approx 28 to 87 inches (70 to 220 cm) Screen size: 30 to 100 inches (76 to 254 cm)
Internal sound system	EF21 5W × 2 speakers (Stereo) EF22 5W × 2 speakers (Stereo with passive radiators)
Fan noise level	EF21 23 dB (Normal power consumption) 19 dB (ECO power consumption) EF22 22 dB (Normal power consumption) 18 dB (ECO power consumption)
USB Type A port compatibility	One USB 2.0 compliant port for connecting a USB mass storage device, microphone, human interface device, or web camera
USB Type mini-B port compatibility	One USB 2.0 compliant port for service

Parent topic: [Technical Specifications](#)

Projector Light Source Specifications

Type	Laser diode
Light source output power	Up to 24.5 W
Wavelength	449 to 461 nm

Light source life*
(approximate)

Normal Light Source Mode:
Up to about 20000 hours
Quiet Light Source Mode:
Up to about 20000 hours

* Approximate time until the light source brightness decreases to half of its original value. (Assuming the projector is used in an atmosphere in which airborne particulate matter is less than 0.04 to 0.2mg/m³. The estimated time varies depending on the projector usage and operating conditions.)

Parent topic: [Technical Specifications](#)

Remote Control Specifications

Reception range 16.4 feet (5 m)
Batteries Two alkaline or manganese AAA

Parent topic: [Technical Specifications](#)

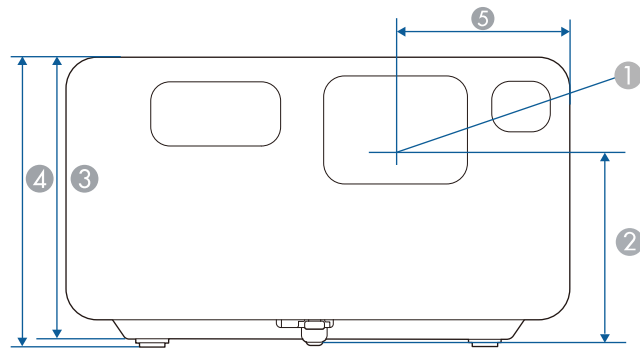
Projector Dimension Specifications

EF21

Height x Width x Depth 4.4 × 7.8 × 7.5 in (110.5 × 197 × 191 mm)
(excluding feet) (not including raised section or feet)
Weight Approx. 5 lbs 1 oz (2.3 kg)

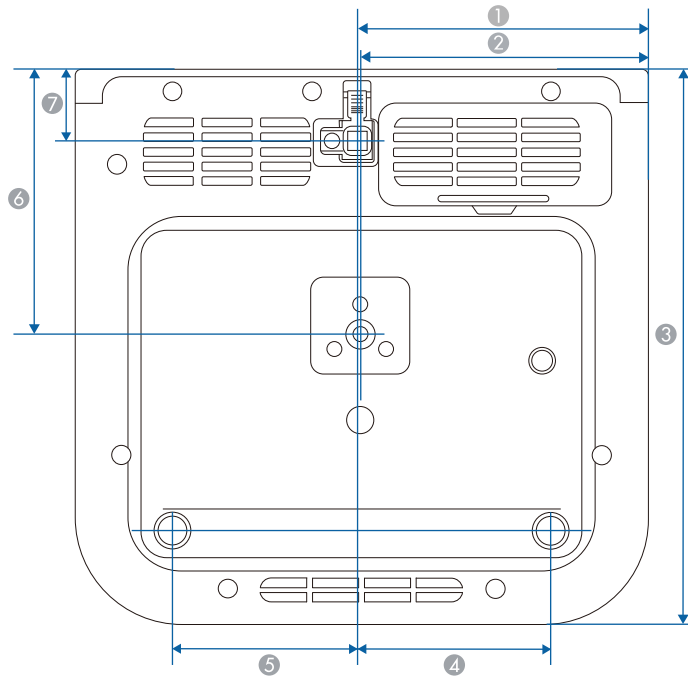
External Dimensions

Front



1	Center of lens
2	Distance from center of lens to tripod fixing point (2.9 inches [72.8 mm])
3	4.3 inches (110.5 mm)
4	4.4 inches (113 mm)
5	2.7 inches (68.5 mm)

Base



1	3.9 inches (100 mm)
2	3.9 inches (99 mm)
3	10.6 inches (268 mm)
4	2.6 inches (66.5 mm)
5	2.5 inches (63.5 mm)
6	3.6 inches (91 mm)
7	1.0 inches (24.5 mm)

Note: You can install the projector on a tripod that uses 1/4-20 UNC size fixed screws (Max depth: 6 mm)

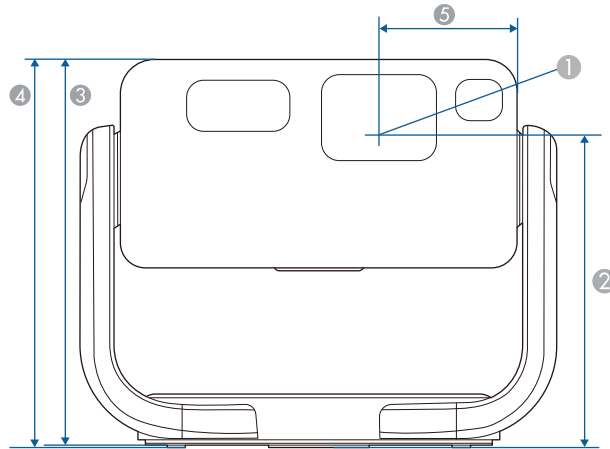
EF22

Height x Width x Depth 7.5 × 9.3 × 7.5 in. (191 × 236 × 191 mm)
(excluding feet)

Weight Approx. 6 lbs 10 oz (3.0 kg)

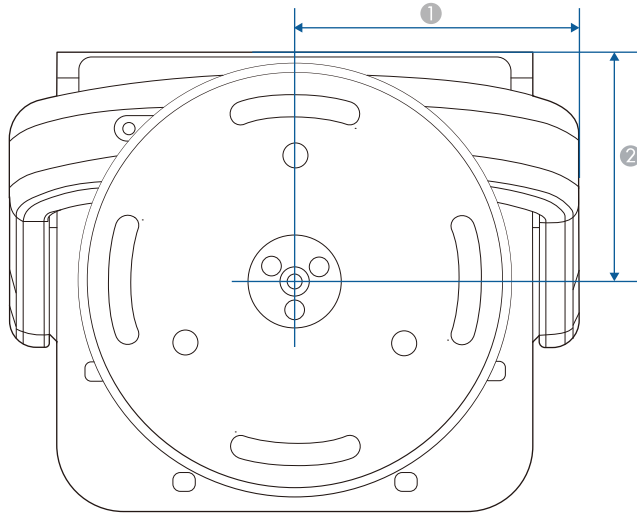
External Dimensions

Front



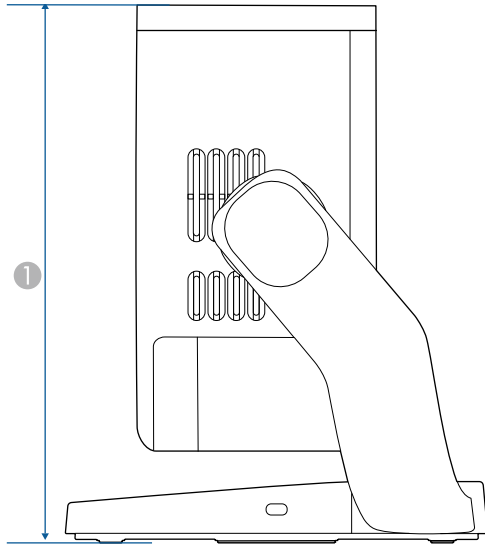
1	Center of lens
2	Distance from center of lens to tripod fixing point (6.0 inches [153.6 mm])
3	7.5 inches (191 mm)
4	7.6 inches (193 mm)
5	3.5 inches (87.9 mm)

Base



1	4.6 inches (118 mm)
2	3.7 inches (95 mm)

Vertical height when projecting on ceiling



1	9.1 inches (230 mm)
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Parent topic: [Technical Specifications](#)

Projector Electrical Specifications

Rated frequency

50/60 Hz

Power supply

EF21

100 to 240 V AC $\pm 10\%$ 1.1 - 0.5 A

EF22

24 V DC, 4.2 A

Power consumption

(100 to 120 V)

EF21

Operating:

Normal/Custom Power Consumption mode: 109 W

Quiet/Extended Power Consumption mode: 80 W

Standby:

0.5 W (Communication Off), 2.0 W (Communication On)

EF22

Operating:

Normal/Custom Power Consumption mode: 105 W

Quiet/Extended Power Consumption mode: 75 W

Standby:

0.5 W (Communication Off), 2.0 W (Communication On)

Power consumption

(220 to 240 V)

EF21

Operating:

Normal/Custom Power Consumption mode: 106 W

Quiet/Extended Power Consumption mode: 78 W

Standby:

0.5 W (Communication Off), 2.0 W (Communication On)

EF22

Operating:

Normal/Custom Power Consumption mode: 103 W

Quiet/Extended Power Consumption mode: 73 W

Standby:

0.5 W (Communication Off), 2.0 W (Communication On)

The rating label is attached on the bottom of the projector.

This product is also designed for IT power distribution system with phase-to-phase voltage 230V.

Parent topic: [Technical Specifications](#)

Projector Environmental Specifications

Temperature	Operating: Up to 7500 feet (2286 m): 41 to 95 °F (5 to 35 °C) 7500 to 9843 feet (2286 to 3000 m): 41 to 86 °F (5 to 30 °C) 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 9843 feet (3000 m)

Parent topic: [Technical Specifications](#)

Bluetooth Specifications

Version	Bluetooth Ver. 5.1
Output	Class 1
Communication Distance	Approx. 33 ft (10 m)
Supported profiles	A2DP, AVRCP
Frequency used	2.4 GHz band (2.402 to 2.480 GHz)
Supported codecs	SBC

Warning: Do not use the device near any medical equipment or equipment that is automatically controlled, such as automatic doors or fire alarms. Electromagnetic interference from the device may cause such equipment to malfunction and cause an accident.

Note:

- You may not be able to connect depending on the standard and type of device.
- Even when connecting within the specified communication distance, connections can be lost due to the status of the signal.
- The communication method for Bluetooth uses the same frequency (2.4 GHz) as wireless LAN (IEEE802.11b/g) or microwave ovens. Therefore, if these devices are used at the same time, radio wave interference may occur, the audio may be interrupted, or communication may not be possible. If

you do need to use these devices at the same time, make sure there is enough distance between them and the Bluetooth device.

Parent topic: [Technical Specifications](#)

Projector Safety and Approvals Specifications

United States	FCC Part 15B Class A (DoC) UL62368-1 2nd edition (cTUVus Mark)
Canada	ICES-003 Class A 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.

Display format	Refresh rate (in Hz)	Resolution (in pixels)
HDMI Input Signals		
VGA60* ¹	60	640 × 480
SDTV (480i/480p)	59.94	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/59.94/60	1280 × 720
HDTV (1080i)	50/59.94/60	1920 × 1080
HDTV (1080p)	23.98/24/29.97/30/50/59.94/60	1920 × 1080

*1 Only supports RGB 8-bit signals.

HDR Support

The following table shows the display resolutions and pixel depths that support HDR (HDR10 and HLG).

Display format (refresh rate)	Chroma subsampling (pixel encoding)	Color depth: 24 bits (8-bits per pixel)	Color depth: 30 bits (10-bits per pixel)	Color depth: 36 bits (12-bits per pixel)
1920 × 1080	YCbCr 4:2:2	SDR	HDR	HDR
1920 × 1080	YCbCr 4:4:4	SDR	HDR	HDR
1920 × 1080	RGB	SDR	HDR	HDR

Parent topic: [Technical Specifications](#)

Notices

Check these sections for important notices about your projector.

[Recycling \(U.S. and Canada\)](#)

[Important Safety Information](#)

[Important Safety Instructions](#)

[Laser Safety Information](#)

[List of Safety Symbols](#)

[FCC Compliance Statement](#)

[Binding Arbitration and Class Waiver](#)

[Trademarks](#)

[Copyright Notice](#)

Recycling (U.S. and Canada)

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

Warning: Never look into the projector lens when the light source is on. This can damage your eyes and is especially dangerous for children. During projection, do not block the light from the projector with a book or other objects. If the light from the projector is blocked, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction. 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: The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.

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.
- When turning on the projector at a distance using the remote control, make sure there is no one looking into the lens.
- Do not place the projector on an unstable cart, stand, or table or on a surface that is unable to support its weight. Otherwise, it could fall or topple causing an accident and injury.
- Do not tilt the projector more than 9° (EF21) or greater than the range of movement (-30° to +120°)(EF22).
- Do not use the projector near water, sources of heat, high-voltage electrical wires, or sources of magnetic fields.
- Do not use the device near any medical equipment or equipment that is automatically controlled, such as automatic doors or fire alarms. Electromagnetic interference from the device may cause such equipment to malfunction and cause an accident.
- 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 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 vents. A clogged air 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 an altitude of 7500 feet (2286 m) to 9842 feet (3000 m)
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.
- Do not place the source of an open flame, such as a lit candle, on or near the projector.
- Do not block the lens during projection using a book or any other object. This could damage the projector or cause a fire.
- 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. Do not tie the power cord to other cables.

[Restriction of Use](#)

Parent topic: [Notices](#)

Restriction of Use

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

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

Parent topic: [Important Safety Instructions](#)

Laser Safety Information

This product is a laser projector that projects images onto surfaces such as walls and screens.

This projector is a Class 1 consumer laser product that complies with the following standards:

- IEC60825-1:2014
- EN60825-1:2014+A11:2021
- EN50689:2021

Follow these safety instructions when using the projector:

Warning:

- Do not open the projector's case. The projector contains a high-powered laser.
- Possibly hazardous optical radiation emitted from this product. Do not look at operating light source. Eye injury may result.
- As with any bright source, do not stare into the beam, RG2 IEC/EN 62471-5:2015.

Caution: Do not disassemble the projector when disposing of it. Dispose according to your local or national laws and regulations.

Note: The projector uses a laser as the light source. The laser has the following characteristics:

- Depending on the surroundings, the brightness of the light source may decline. The brightness declines a lot when the temperature gets too high.
- The brightness of the light source declines the longer it is used. You can change the relationship between usage time and decline in brightness settings.

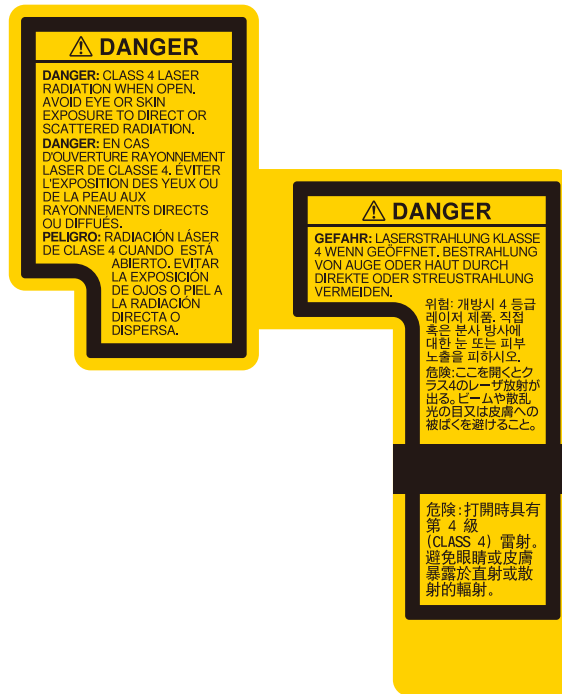
[Laser Safety Labels](#)

Parent topic: [Notices](#)

Laser Safety Labels

Laser warning labels are attached on the projector.

Inside

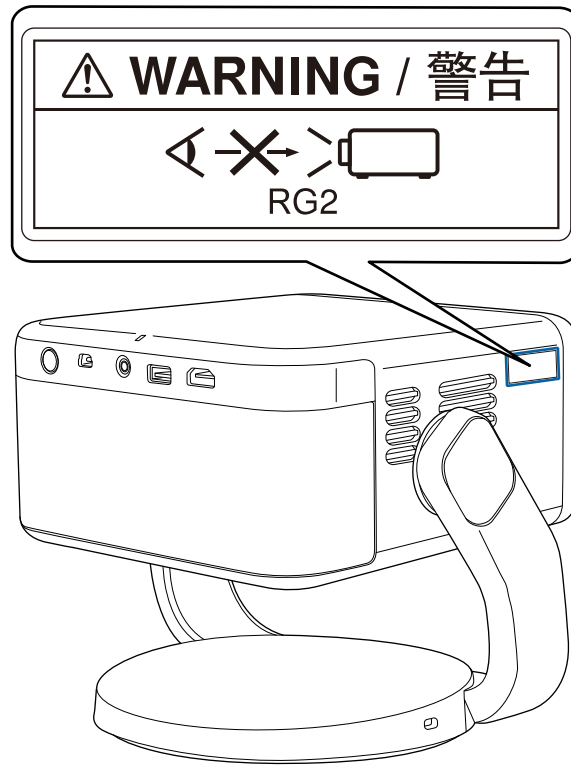


DANGER: CLASS 4 LASER RADIATION WHEN OPEN. AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION.

Side
EF21



EF22



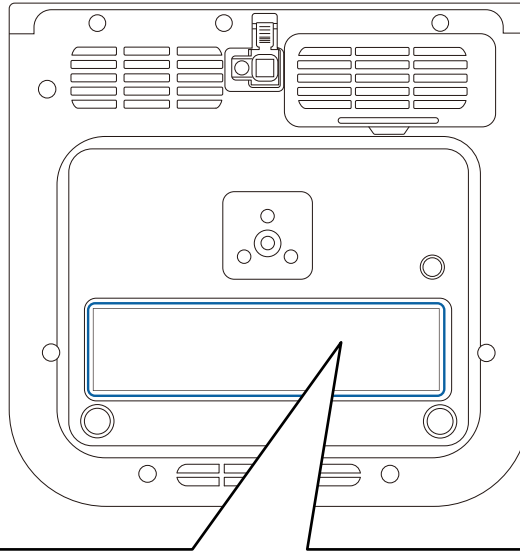
Warning:

- Never look into the projector lens when the laser is on. This can damage your eyes and is especially dangerous for children and pets.
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- Do not allow small children to operate the projector. Children must be accompanied by an adult.
- Do not look into the lens during projection. Also, do not look into the lens using optical devices, such as a magnifying glass or telescope. This could cause visual impairment.
- If any problems occur with the projector, unplug the projector from the outlet and contact Epson for help. Continuing to use it as it is may result in fire or accidents, and can also damage your eyes.








Bottom







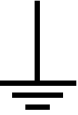
The rating label on the bottom of the projector provides certification and identification information for the projector.






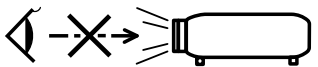


EF21











EPSON  LCD PROJECTOR	CLASS 1 LASER PRODUCT PRODUIT LASER DE CLASSE 1 PRODUCTO LASER DE CLASE 1	 S/N: [REDACTED]
MODEL: HB35A 100-240V~ 50/60Hz 1.1-0.5A	Contains FCC ID: BKMAE-N37663U02 Contains IC: 1052D-N37663U02	[REDACTED]
 ADVERTENCIA Nunca abra las tapas del proyector a menos que así se especifique en el manual del proyector. El voltaje eléctrico dentro del proyector es peligroso y puede causar lesiones graves.	    	 
	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. Complies with 21 CFR 1040.10 and 1040.11 except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5:Ed. 1.0. For more information see Laser Notice No. 57, dated May 8, 2019.	SEIKO EPSON CORP. Made in PHILIPPINES 6525 Toyoshinatzawa, Azumino-shi, Nagano 399-8285 Japan

No.	Symbol	Approved Standards	Description
1		IEC60417 No.5007	"ON" (power) To indicate connection to the mains.
2		IEC60417 No.5008	"OFF" (power) To indicate disconnection from the mains.
3		IEC60417 No.5009	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.
4		ISO7000 No.0434B, IEC3864-B3.1	Caution To identify general caution when using the product.
5		IEC60417 No.5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
6		IEC60417 No.6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
7		IEC60417 No.5957	For indoor use only To identify electrical equipment designed primarily for indoor use.

No.	Symbol	Approved Standards	Description
8		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.
9		—	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.
10		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.
11		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.
12		—	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
13		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.
14		IEC60417 No.5017	Earth To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required.

No.	Symbol	Approved Standards	Description
15		IEC60417 No.5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
16		IEC60417 No.5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
17		IEC60417 No.5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
18		ISO 3864	General prohibition To identify actions or operations that are prohibited.
19		ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
20		—	Never look into the optical lens while the projector is on.
21		—	To indicate that the marked item don't place anything on projector.
22		ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.

No.	Symbol	Approved Standards	Description
23		ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
24		IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
25		ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.
26		IEC60417 No. 6056	Caution, moving fan blades To indicate that you must keep away from moving fan blades.
27		IEC60417 No. 6043	Caution, sharp corners To indicate that you must not touch sharp corners.
28		—	To indicate that looking into the lens while projecting is prohibited.
29		ISO7010 No. W027 ISO3864	Warning, optical radiation (UV, visible light, IR, etc.) To indicate that you must be careful not to injure your eyes or skin when in the vicinity of optical radiation.
30		IEC60417 No. 5109	Not to be used in residential areas To indicate that the electrical equipment is not suitable for a residential area.

Parent topic: [Notices](#)

FCC Compliance Statement

For United States Users

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.

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.

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-003(B)/NMB-003(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, 3131 Katella Ave., Los Alamitos, CA 90720 (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 (U.S. or Canada), or <https://www.jamsadr.com/about/> or by calling +1-949-224-1810 (Latin America), 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](#)

Trademarks

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