

Maintaining the Projector

Follow the instructions in these sections to maintain your projector.

►► Related Links

- "Projector Maintenance" [p.130](#)
- "Cleaning the Lens" [p.131](#)
- "Cleaning the Projector Case" [p.132](#)
- "Air Filter and Vent Maintenance" [p.133](#)
- "Projector Lamp Maintenance" [p.136](#)

You may need to clean the projector's lens periodically, and clean the air filter and air vents to prevent the projector from overheating due to blocked ventilation.

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

Warning

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

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

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

Warning

- Before cleaning the lens, turn off the projector and unplug the power cord.
- Do not use any flammable gas sprays such as air dusters to blow off dust. The high heat generated by the projector may cause a fire.

Attention

- Do not wipe the lens right after you turn off the projector. Doing so could damage the lens.
- Do not use any harsh materials to clean the lens and do not subject the lens to any impacts; otherwise, it could be damaged.

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.

Attention

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.

Regular filter maintenance is important to maintaining 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 over a 10,000-hour* or 6,000-hour* period. Clean them more often than this if you use the projector in a particularly dusty environment.

* See "Projector Specifications" in the Appendix for the air filter maintenance period by model.

Attention

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

► Related Links

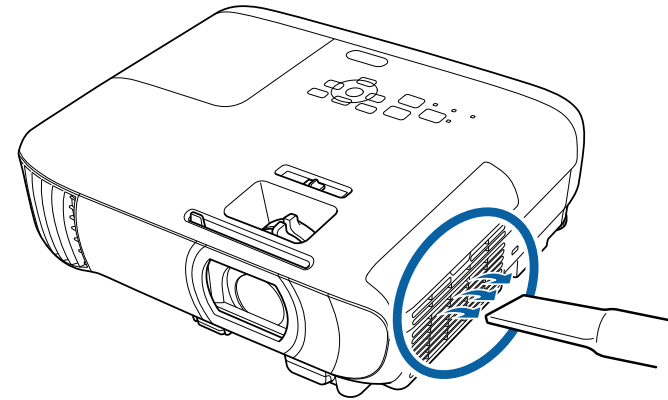
- "Cleaning the Air Filter and Vents" [p.133](#)
- "Replacing the Air Filter" [p.133](#)
- "List of Functions" [p.9](#)

Cleaning the Air Filter and Vents

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

- 1** Turn off the projector and unplug the power cord.

- 2** Gently remove the dust using a small vacuum designed for computers or a very soft brush (such as a paintbrush).



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

Attention

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.

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

Replacing the Air Filter

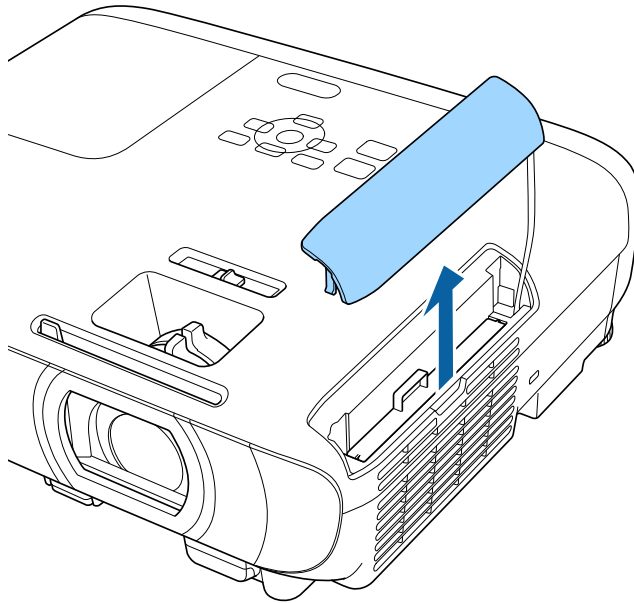
You need to replace the air filter in the following situations:

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

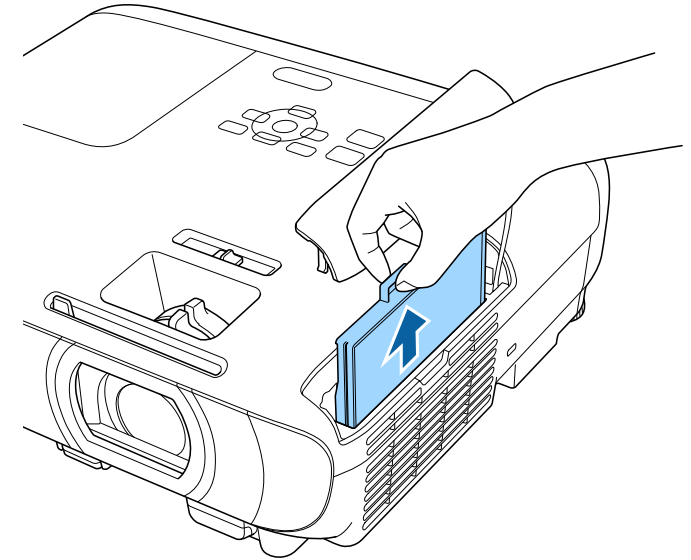
You can replace the air filter while the projector is mounted to the ceiling or placed on a table.

1 Turn off the projector and unplug the power cord.

2 Open the air filter cover.



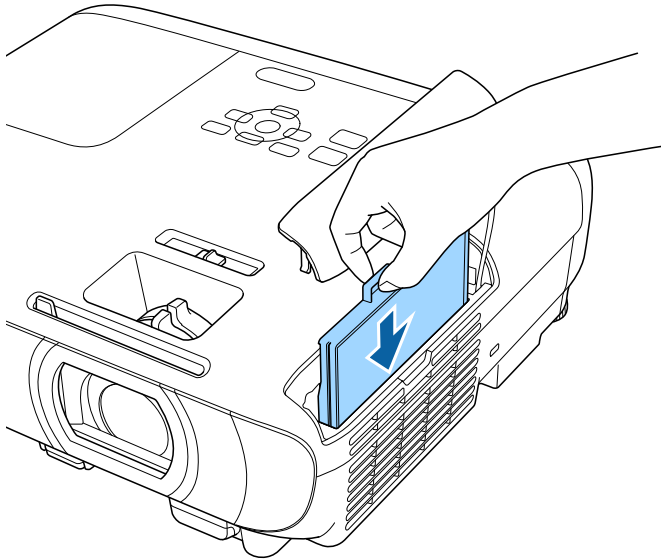
3 Pull the air filter out of the projector.



Dispose of used air filters according to local regulations.

- Filter frame: ABS
- Filter: Polyurethane foam

- 4** Place the new air filter in the projector as shown and push gently until it clicks into place.



- 5** Close the air filter cover.

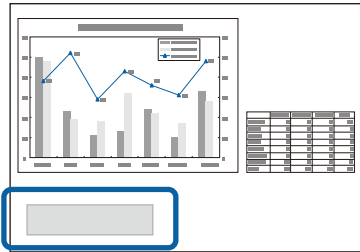
► **Related Links**

- "Replacement Parts" [p.158](#)

The projector monitors the number of hours the lamp is used and displays this information in the projector's menu system.

Replace the lamp as soon as possible when the following occurs:

- The projected image gets darker or quality declines
- A message is displayed when you turn on the projector telling you to replace the lamp (the message is displayed 100 hours before the expected end of the lamp life and appears for 30 seconds)



- The projector's power indicator is flashing blue and its lamp indicator is flashing orange.

Attention

- If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may explode increases. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.
- Do not repeatedly turn off the power and then immediately turn it back on. Turning the power on and off frequently may shorten the lamp's operating life.
- Depending on the characteristics of the lamp and the way it has been used, the lamp may become darker or stop working before the lamp warning message appears. You should always have a spare lamp unit ready in case it is needed.
- We recommend the use of genuine Epson replacement lamps. The use of non-genuine lamps may affect projection quality and safety. Any damage or malfunction caused by the use of non-genuine lamps may not be covered by Epson's warranty.

► Related Links

- "Replacing the Lamp" [p.136](#)
- "Resetting the Lamp Timer" [p.139](#)
- "Projector Specifications" [p.165](#)
- "Projector Indicator Status" [p.142](#)

Replacing the Lamp

You can replace the lamp while the projector is placed on a table or mounted to the ceiling.

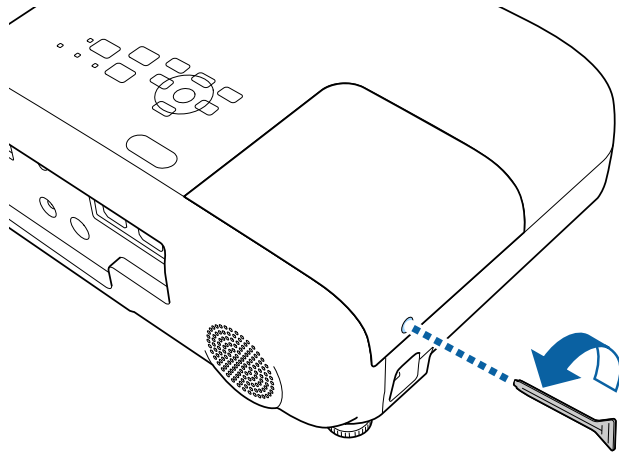
⚠ Warning

- Let the lamp fully cool before replacing it to avoid injury.
- Never disassemble or modify the lamp. If a modified or disassembled lamp is installed in the projector, it could cause a fire, electric shock, or other damage or injury.

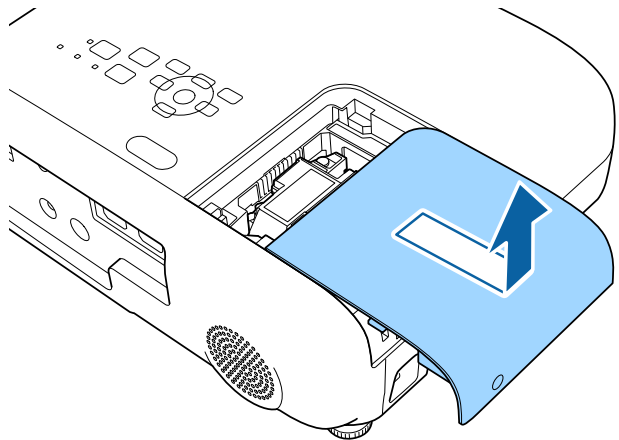
- 1** Turn off the projector and unplug the power cord.
- 2** Allow the projector lamp to cool down for at least one hour.
- 3** Use the screwdriver included with the replacement lamp to loosen the screw securing the lamp cover.

⚠ Warning

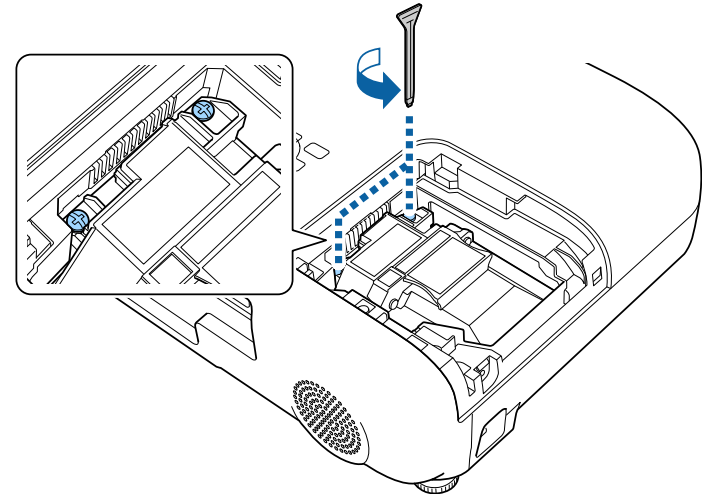
When replacing the lamp, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is cracked, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Be careful when removing the lamp cover as shards of glass may fall out and could cause an injury. If any shards of glass get into your eyes or mouth, contact a doctor immediately.



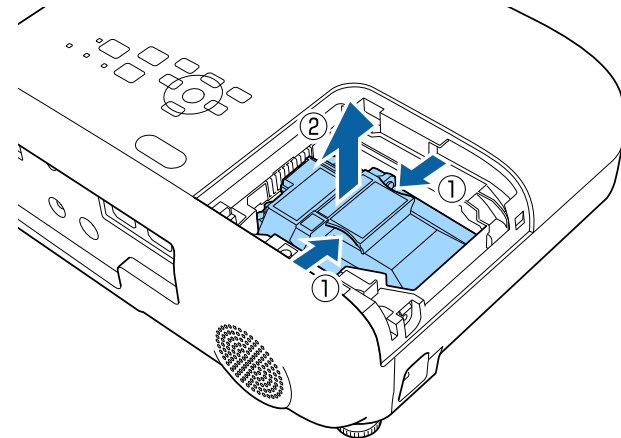
4 Slide the lamp cover out and lift it off.



5 Loosen the screws securing the lamp to the projector. The screws do not come all the way out.



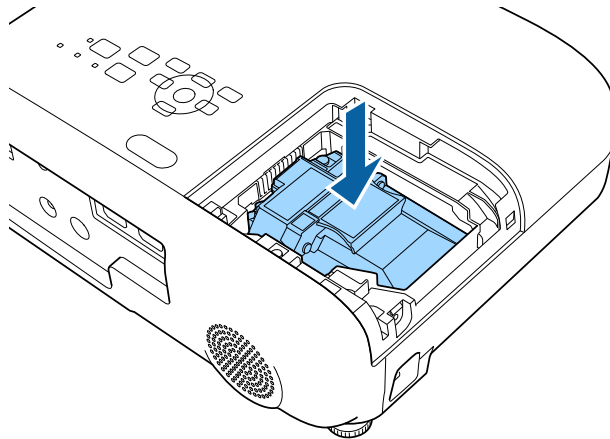
6 Grip the raised section of the lamp and remove it.





- If you notice the lamp is cracked when removing the lamp, contact Epson for help.
- The lamp(s) in this product contain mercury (Hg). Check your local laws and regulations regarding disposal or recycling. Do not put in the trash.

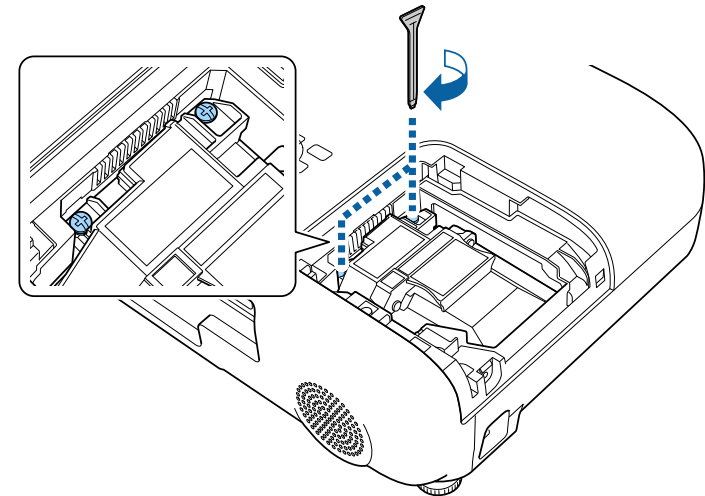
- 7** Gently insert the new lamp into the projector. If it does not fit easily, make sure it is facing the right way.



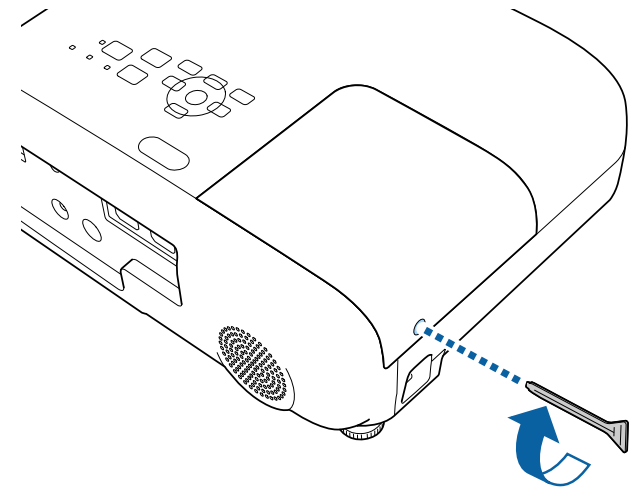
Attention

Do not touch any glass on the lamp assembly to avoid premature lamp failure.

- 8** Push in the lamp firmly and tighten the screws to secure it.



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





- Make sure the lamp cover is securely installed or the lamp will not turn on.
- Do not replace the lamp cover with too much force and make sure the lamp cover is not deformed.

Reset the lamp timer to zero to monitor the new lamp's usage.

► Related Links

- "Replacement Parts" [p.158](#)

Resetting the Lamp Timer

You must reset the lamp timer after replacing the projector's lamp to clear the lamp replacement message and to monitor lamp usage correctly.



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

- 1** Turn on the projector.

- 2** Press the [Menu] button, select the **Reset** menu, and press [Enter].

- 3** Select **Reset Lamp Hours** and press [Enter].



You see a prompt asking if you want to reset the lamp hours.

- 4** Select **Yes** and press [Enter].
- 5** Press [Menu] or [Esc] to exit the menus.

Solving Problems

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

►► Related Links

- "Projection Problems" [p.141](#)
- "Projector Indicator Status" [p.142](#)
- "Using the Projector Help Displays" [p.145](#)
- "Solving Image or Sound Problems" [p.146](#)
- "Solving Projector or Remote Control Operation Problems" [p.152](#)
- "Solving Network Problems" [p.154](#)

If the projector is not working properly, turn it off, unplug it, and then plug it back in and turn it on.

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

- The indicators on the projector may indicate the problem.
- The projector's Help system can display information about common problems.
- The solutions in this manual can help you solve many problems.

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

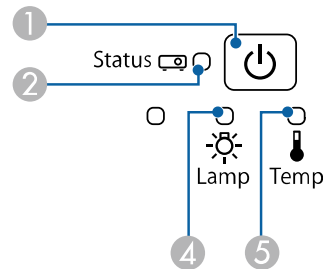


After repairing the projector, Epson may return the projector to you in its initial status. Make sure you make a note of the account information of each online service before you contact your local dealer or the nearest Epson repair center.

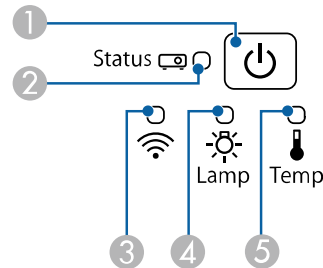
The indicators on the projector indicate the projector status and let you know when a problem occurs. Check the status and color of the indicators and then refer to this table for a solution.

 If the indicators display a pattern not listed in the table below, turn the projector off, unplug it, and contact Epson for help.

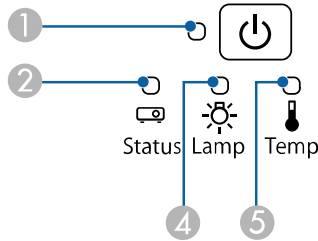
EB-FH08/EB-X52



EB-W55/EB-EA55



EB-W53/EB-E24/EB-EA24/EB-E12/EB-EA12



- ① Power indicator
- ② Status indicator
- ③ Wireless LAN indicator
- ④ Lamp indicator
- ⑤ Temp (temperature) indicator

Projector status

Indicator and status	Problem and solutions
Power: Lit blue Status: Lit blue Lamp: Off Temp: Off	Normal operation.
Power: Lit blue Status: Flashing blue Lamp: Off Temp: Off	Warming up, shutting down, or cooling down. When warming up, wait about 30 seconds for an image to appear. All buttons are disabled during warm-up, shutting down, and cooling down.
Power: Lit blue Status: Off Lamp: Off Temp: Off	Standby, sleep mode, or monitoring. When you press the power button, projection starts.

Indicator and status	Problem and solutions
Power: Flashing blue Status: Off Lamp: Off Temp: Off	Preparing for monitoring and all features are disabled.
Power: Flashing blue Status: Indicator status varies Lamp: Indicator status varies Temp: Flashing orange	Projector is too hot. • 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.
Power: Off Status: Flashing blue Lamp: Off Temp: Lit orange	Projector has overheated and turned off. Leave it turned off to cool down for 5 minutes. • Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects. • Make sure the environmental temperature is not too hot. • Clean or replace the air filter. • If operating the projector at high altitude, set the High Altitude Mode setting to On in the projector's menu.  Extended > Operation > High Altitude Mode • If the problem persists, unplug the projector and contact Epson for help.

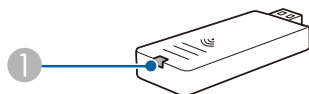
Indicator and status	Problem and solutions
Power: Off Status: Flashing blue Lamp: Lit orange Temp: Off	Lamp has a problem. • Check to see if the lamp is burned out, broken, or installed incorrectly. Reseat or replace the lamp as necessary. • Clean the air filter. • If operating the projector at high altitude, set the High Altitude Mode setting to On in the projector's menu.  Extended > Operation > High Altitude Mode • If the problem persists, unplug the projector and contact Epson for help. Lamp cover has a problem. • Check that the lamp and the lamp cover are securely installed. The lamp does not turn on if the lamp and the lamp cover are not installed correctly.
Power: Flashing blue Status: Indicator status varies Lamp: Flashing orange Temp: Indicator status varies	Replace the lamp soon to avoid damage. Do not continue using the projector.
Power: Off Status: Flashing blue Lamp: Off Temp: Flashing orange	A fan or sensor has a problem. Turn the projector off, unplug it, and contact Epson for help.
Power: Off Status: Flashing blue Lamp: Flashing orange Temp: Off	Internal projector error. Turn the projector off, unplug it, and contact Epson for help.

Indicator and status	Problem and solutions
Power: Off Status: Flashing blue Lamp: Flashing orange Temp: Flashing orange	Auto iris error. Turn the projector off, unplug it, and contact Epson for help.
Power: Off Status: Flashing blue Lamp: Lit orange Temp: Lit orange	Power error (Ballast). Turn the projector off, unplug it, and contact Epson for help.

Wireless LAN status

Wireless LAN indicator status	Problem and solutions
Lit blue	Wireless LAN is available.
Flashing blue (quickly)	Connecting to a device.
Flashing blue (slowly)	An error has occurred. Turn off the projector and restart it.
Off	Wireless LAN is not available. Make sure the wireless LAN settings are correct.

Wireless LAN status (for models with the optional wireless LAN module installed)



① Indicator

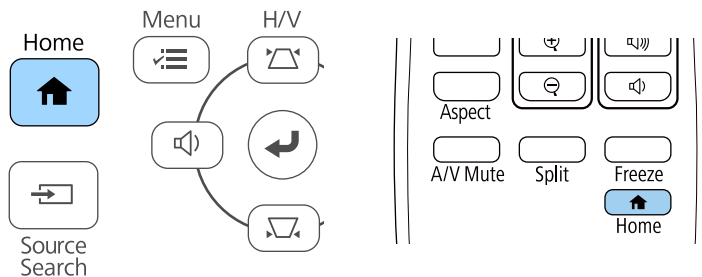
Indicator status	Problem and solutions
Lit blue	The wireless LAN module is installed in the projector and available for connections.
Flashing blue (quickly)	The wireless LAN module is installed in the projector and connected to a device.
Flashing blue (slowly)	Error status. Turn off the projector, re-install the wireless LAN module, and then turn the projector back on.
Off	The wireless LAN module is not installed in the projector, or the wireless LAN is disabled from the projector's Network menu.

► Related Links

- "Cleaning the Air Filter and Vents" [p.133](#)
- "Replacing the Air Filter" [p.133](#)
- "Replacing the Lamp" [p.136](#)
- "List of Functions" [p.9](#)

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

- 1 Turn on the projector.
- 2 Press the [Home] button on the control panel or remote control.

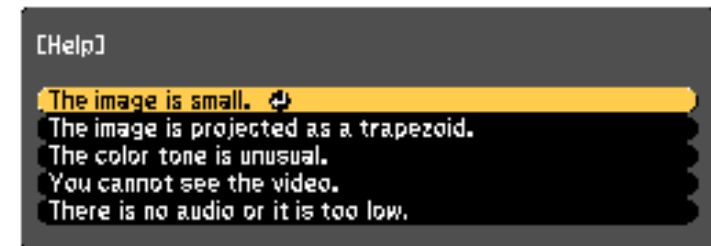


- 3 Select **Help** on the Home screen.



The Help menu is displayed.

- 4 Use the up and down arrow buttons to highlight the problem you want to solve.



- 5 Press [Enter] to view the solutions.
- 6 Perform one of the following actions when you are finished.
 - To select another problem to solve, press [Esc].
 - To exit the help system, press [Menu].

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

►► Related Links

- "Solutions When No Image Appears" [p.146](#)
- "Solutions When Image is Incorrect Using the USB Display Function" [p.146](#)
- "Solutions When "No Signal" Message Appears" [p.147](#)
- "Solutions When "Not Supported" Message Appears" [p.148](#)
- "Solutions When Only a Partial Image Appears" [p.148](#)
- "Solutions When the Image is not Rectangular" [p.148](#)
- "Solutions When the Image Contains Noise or Static" [p.149](#)
- "Solutions When the Image is Fuzzy or Blurry" [p.149](#)
- "Solutions When the Image Brightness or Colors are Incorrect" [p.150](#)
- "Solutions to Sound Problems" [p.150](#)
- "Solutions When Image File Names are not Displayed Correctly in PC Free" [p.151](#)

Solutions When No Image Appears

If no image appears, try the following solutions:

- Make sure the lens cover is open all the way.
- Press the [A/V Mute] button on the remote control to see if the image was temporarily turned off.
- Make sure all necessary cables are securely connected and the power is on for the projector and connected video sources.
- If you are projecting from a streaming media player, make sure it is powered by the power supply USB cable on the projector.
- Press the projector's power button to wake it from standby or sleep mode. Also, check if the connected computer is in sleep mode or displaying a blank screen saver.

- If the projector does not respond when you press the control panel buttons, the buttons may be locked for security. Unlock the buttons in the **Control Panel Lock** setting or use the remote control to turn on the projector.

☛ **Settings > Lock Setting > Control Panel Lock**

- Adjust the **Brightness** setting in the projector's **Image** menu.
- Select **High** as the **Power Consumption** setting.
☛ **ECO > Power Consumption**
- Check the **Display** setting in the projector's **Extended** menu to make sure **Messages** is set to **On**.
- The projector may not be able to project copyrighted videos that you play back on a computer. For more details, see the manual supplied with the computer.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

►► Related Links

- "Input Signal Settings - Signal Menu" [p.108](#)
- "Image Quality Settings - Image Menu" [p.106](#)
- "Projector Setup Settings - ECO Menu" [p.121](#)
- "Projector Setup Settings - Extended Menu" [p.111](#)
- "Unlocking the Projector's Buttons" [p.81](#)

Solutions When Image is Incorrect Using the USB Display Function

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

- Press the [USB] button on the remote control.
- Disconnect the USB cable, and reconnect it.

- Make sure the Epson USB Display software has been installed correctly. Depending on your OS or computer settings, the software may not have been installed automatically. Download the latest software from the following Web site and install it.
epson.sn/
- For Mac, select the **USB Display** icon in the **Dock** folder. If the icon does not appear on the **Dock**, double-click **USB Display** in the **Applications** folder. If you select **Exit** from the **USB Display** icon menu on the **Dock**, **USB Display** does not start automatically when you connect the USB cable.
- If the mouse cursor flickers, select **Make the movement of the mouse pointer smooth** in the **Epson USB Display Settings** program on your computer.
- Turn off the **Transfer layered window** setting in the **Epson USB Display Settings** program on your computer.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

► Related Links

- "Connecting to a Computer for USB Video and Audio" [p.26](#)

Solutions When "No Signal" Message Appears

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

- Press the [Source Search] button and wait a few seconds for an image to appear.
- Turn on the connected computer or video source, and press play to begin your presentation, if necessary.
- Check that all cables required for projection are securely connected.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
- If necessary, turn off the projector and the connected computer or video source, and then turn them back on.
- If you are projecting from an HDMI source, replace the HDMI cable with the shorter one.

► Related Links

- "Displaying From a Laptop" [p.147](#)
- "Displaying From a Mac Laptop" [p.148](#)

Displaying From a Laptop

If the message **No Signal** is displayed when projecting from a laptop, you need to set up the laptop to display on an external monitor.

- 1** Hold down the laptop's **Fn** key and press the key labeled with a monitor icon or **CRT/LCD**. Wait a few seconds for an image to appear.
- 2** To display on the laptop's monitor and the projector, try pressing the same keys again.
- 3** If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled and extended desktop mode is disabled.
- 4** If necessary, check your video card settings and set the multiple display option to **Clone** or **Mirror**.

Displaying From a Mac Laptop

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

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

Solutions When "Not Supported" Message Appears

If the message **Not supported** is displayed, try the following solutions:

- Make sure the correct input signal is selected in the projector's **Signal** menu.
- 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.

► Related Links

- "Input Signal Settings - Signal Menu" [p.108](#)
- "Supported Monitor Display Resolutions" [p.164](#)

Solutions When Only a Partial Image Appears

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

- If you are projecting from a computer using a VGA computer cable, press the [Auto] button on the remote control to optimize the image signal.

- Try adjusting the image position using the **Position** setting in the projector's **Signal** menu.
- Press the [Aspect] button on the remote control to select a different image aspect ratio.
- Change the **Resolution** setting in the projector's **Signal** menu according to the signal for the connected equipment.
- If you zoomed into or out of the image using the [E-Zoom] buttons, press the [Default] button to return to the original image size.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits.
- Check the resolution assigned to your presentation files to see if they are created for a different resolution.
- Make sure you selected the correct projection mode. You can select this using the **Projection** setting in the projector's **Extended** menu.

► Related Links

- "Input Signal Settings - Signal Menu" [p.108](#)
- "Projector Setup Settings - Extended Menu" [p.111](#)
- "Supported Monitor Display Resolutions" [p.164](#)

Solutions When the Image is not Rectangular

If the projected image is not evenly rectangular, try the following solutions:

- Place the projector directly in front of the center of the screen, facing it squarely, if possible.
- Set **Auto V-Keystone** to **On** in the projector's **Settings** menu. The projector automatically corrects the image every time you move the projector.
 - ☛ **Settings > Keystone > H/V-Keystone > Auto V-Keystone**
- Set **H-Keystone Adjuster** to **On** in the projector's **Settings** menu. Then adjust the horizontal keystone slider until the image is evenly rectangular.
 - ☛ **Settings > Keystone > H/V-Keystone > H-Keystone Adjuster**

- Press the keystone buttons on the projector to adjust the image shape.
- Adjust the Quick Corner setting to correct the image shape.

☛ **Settings > Keystone > Quick Corner**

► Related Links

- "Auto V-Keystone" [p.46](#)
- "Correcting the Image Shape with the Keystone Buttons" [p.47](#)
- "Correcting the Image Shape with Quick Corner" [p.48](#)
- "Correcting the Image Shape with the Horizontal Keystone Slider" [p.46](#)

Solutions When the Image Contains Noise or Static

If the projected image contains electronic interference (noise) or static, try the following solutions:

- Check the cables connecting your computer or video source to the projector. They should be:
 - Separated from the power cord to prevent interference
 - Securely connected at both ends
 - Not connected to an extension cable
- Check the settings in the projector's **Signal** menu to make sure they match the video source.
- If available for your video source, adjust the **Deinterlacing** and **Noise Reduction** settings in the projector's **Image** menu.
 - ☛ **Image > Image Enhancement > Noise Reduction**
 - ☛ **Image > Image Enhancement > Deinterlacing**
- Select **Auto** as the **Resolution** setting in the projector's **Signal** menu.
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer using a VGA computer cable, press the [Auto] button on the remote control to automatically adjust the **Tracking** and

Sync. settings. If the images are not adjusted correctly, manually adjust the **Tracking** and **Sync.** settings in the projector's **Signal** menu.

- If you adjusted the image shape using the projector controls, try decreasing the **Sharpness** setting in the projector's **Image** menu to improve image quality.
- If you connected an extension power cable, try projecting without it to see if it caused interference in the signal.
- If you are using the USB Display function, turn off the **Transfer layered window** setting in the **Epson USB Display Settings** program on your computer.

► Related Links

- "Input Signal Settings - Signal Menu" [p.108](#)
- "Image Quality Settings - Image Menu" [p.106](#)
- "Supported Monitor Display Resolutions" [p.164](#)

Solutions When the Image is Fuzzy or Blurry

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

- Adjust the image focus.
- 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.
- Clean the projector lens.



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.

- Adjust the **Sharpness** setting in the projector's **Image** menu to improve image quality.

- If you are projecting from a computer using a VGA computer cable, press the [Auto] button on the remote control to automatically adjust the tracking and sync. If any bands or overall blurriness remain, display a uniformly patterned image on the screen and manually adjust the **Tracking** and **Sync.** settings in the projector's **Signal** menu.
- If you are projecting from a computer, use a lower resolution or select a resolution that matches the projector's native resolution.

► Related Links

- "Auto V-Keystone" [p.46](#)
- "Input Signal Settings - Signal Menu" [p.108](#)
- "Image Quality Settings - Image Menu" [p.106](#)
- "Supported Monitor Display Resolutions" [p.164](#)
- "Focusing the Image Using the Focus Ring" [p.51](#)
- "Cleaning the Lens" [p.131](#)

Solutions When the Image Brightness or Colors are Incorrect

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

- Press the [Color Mode] button on the remote control to try different color modes for the image and environment.
- Check your video source settings.
- Adjust the available settings in the projector's **Image** menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, and **Color Saturation**.
- Make sure you selected the correct **Video Signal** or **Video Range** setting in the projector's **Signal** menu, if available for your image source.

☛ **Signal > Advanced > Video Signal**

☛ **Signal > Advanced > Video Range**

- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.
- If you are using **ECO** as **Power Consumption**, try selecting **High**.

☛ **ECO > Power Consumption**



At high altitudes or locations subject to high temperatures, the image may become darker and you may not be able to adjust the **Power Consumption** setting.

- Position the projector close enough to the screen.
- If the image has been progressively darkening, you may need to replace the projector lamp soon.

► Related Links

- "Adjusting Image Quality (Color Mode)" [p.56](#)
- "Input Signal Settings - Signal Menu" [p.108](#)
- "Image Quality Settings - Image Menu" [p.106](#)
- "Projector Setup Settings - ECO Menu" [p.121](#)

Solutions to Sound Problems

If there is no sound or the volume is too low or high, try the following solutions:

- Adjust the projector's volume settings.
- Press the [A/V Mute] button on the remote control to resume video and audio if they were temporarily stopped.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Check the audio cable connections between the projector and your video source.
- Make sure any connected audio cables are labeled "No Resistance".

- If you are using the USB Display function, turn on the **Output audio from the projector** setting in the **Epson USB Display Settings** program on your computer.
- Select the correct audio input in the **A/V Settings** setting in the projector's **Extended** menu.
- If you want to use a connected audio source when the projector is off, set the **Standby Mode** option to **Communication On** in the projector's **ECO** menu and make sure the **A/V Settings** options are set correctly in the **Extended** menu.
- If you do not hear sound from an HDMI source, set the connected device to PCM output.
- When you are connecting the projector to a Mac using an HDMI cable, make sure your Mac supports audio through the HDMI port. If not, you need to connect an audio cable.
- If the volume for the computer is set to the minimum while the projector is set to the maximum, the noise may be mixed. Turn up the computer's volume and turn down the projector's volume. (When you use Epson iProjection (Windows/Mac) or USB Display.)

► Related Links

- "Projector Connections" [p.25](#)
- "Projector Feature Settings - Settings Menu" [p.109](#)
- "Projector Setup Settings - Extended Menu" [p.111](#)
- "Projector Setup Settings - ECO Menu" [p.121](#)
- "Controlling the Volume with the Volume Buttons" [p.58](#)

Solutions When Image File Names are not Displayed Correctly in PC Free

If any file names are longer than the display area or include unsupported symbols, the file names are shortened or changed in PC Free. Shorten or change the file name.

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

► Related Links

- "Solutions to Projector Power or Shut-Off Problems" [p.152](#)
- "Solutions to Problems with the Remote Control" [p.152](#)
- "Solutions to Password Problems" [p.153](#)

Solutions to Projector Power or Shut-Off Problems

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

- Make sure the power cord is securely connected to the projector and to a working electrical outlet.
- If the power button on the remote control does not turn on the projector, check its batteries and make sure at least one of the remote receivers are available in the **Remote Receiver** setting in the projector's **Settings** menu.
- The projector's buttons may be locked for security. Unlock the buttons in the **Control Panel Lock** setting or use the remote control to turn on the projector.

☛ **Settings > Lock Setting > Control Panel Lock**

- If the projector's lamp turns off unexpectedly, it may have entered sleep mode after a period of inactivity. Perform any operation to wake the projector. To turn off sleep mode, select **Off** as the **Sleep Mode** setting in the projector's **ECO** menu.
- If the projector's lamp turns off unexpectedly, the A/V mute timer may be enabled. To turn off the A/V mute timer, select **Off** as the **A/V Mute Timer** setting in the projector's **ECO** menu.
- If the projector's lamp turns off unexpectedly, the lens cover timer may be enabled. To turn off the lens cover timer, select **Off** as the **Lens Cover Timer** setting in the projector's **ECO** menu.

- If the projector's lamp turns off, the status indicator is flashing, and the temp (temperature) indicator is lit, the projector has overheated and turned off.
- 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.
- The power cord may be defective. Disconnect the cord and contact Epson for help.

► Related Links

- "Projector Setup Settings - ECO Menu" [p.121](#)
- "Projector Indicator Status" [p.142](#)
- "Projector Feature Settings - Settings Menu" [p.109](#)
- "Unlocking the Projector's Buttons" [p.81](#)

Solutions to Problems with the Remote Control

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

- Check that the remote control batteries are installed correctly and have power. If necessary, replace the batteries.
- Make sure you are operating the remote control within the reception angle and range of the projector.
- Make sure the projector is not warming up or shutting down.
- Check to see if a button on the remote control is stuck down, causing it to enter sleep mode. Release the button to wake the remote control up.
- Strong fluorescent lighting, direct sunlight, or infrared device signals may be interfering with the projector's remote receivers. Dim the lights or move the projector away from the sun or interfering equipment.
- Make sure at least one of the remote receivers are available in the **Remote Receiver** setting in the projector's **Settings** menu.

- If the **Remote Receiver** setting is disabled, hold down the [Menu] button on the remote control for at least 15 seconds to reset the setting to its default.
- If you assigned an ID number to the projector to operate multiple projectors from the remote control, you may need to check or change the ID setting.
- Press the 0 (zero) button on the remote control while holding down the [ID] button. By selecting 0 on the remote control, you can operate all of the projectors regardless of the projector ID settings.
- If you lose the remote control, you can order another one from Epson.

► Related Links

- "Remote Control Operation" [p.34](#)
- "Projector Feature Settings - Settings Menu" [p.109](#)
- "Selecting the Projector You want to Operate" [p.75](#)
- "Installing Batteries in the Remote Control" [p.33](#)

Solutions to Password Problems

If you cannot enter or remember a password, try the following solutions:

- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson for help. Provide the request code and proof of ownership for assistance in unlocking the projector.
- If you lose the remote control you cannot enter a password. Order a new one from Epson.

Attention

If you perform **Reset network settings** in the projector's **Network** menu, all of the passwords that have been set for the **Network** menu are also reset and you need to set them again. To prevent the passwords from being reset by unauthorized users, set **Network Protection** to **On** in the **Password Protection** menu.

Check the solutions in these sections if you have problems using the projector on a network.

►► Related Links

- "Solutions When Wireless Authentication Fails" [p.154](#)
- "Solutions When You Cannot Access the Projector Through the Web" [p.154](#)
- "Solutions When Network Alert E-Mails are not Received" [p.154](#)
- "Solutions When the Image Contains Static During Network Projection" [p.155](#)

Solutions When Wireless Authentication Fails

If you are having trouble with the authentication, check the **Security** settings in the projector's **Network** menu.

☛ **Network > Network Configuration > Wireless LAN**

►► Related Links

- "Network Menu - Wireless LAN Menu" [p.116](#)

Solutions When You Cannot Access the Projector Through the Web

If you are unable to access the projector through a Web browser, make sure you are using the correct ID and password.

- Make sure you use the following user IDs. (You cannot change the user IDs.)
 - To access the **Basic Control** option, enter **EPSONREMOTE**.
 - To access other options and save settings, enter **EPSONWEB**.
- For the password, enter the password set in the projector's **Network** menu. No password is set by default.
- Make sure you have access to the network the projector is on.

- If your Web browser is set up to connect via a proxy server, the **Epson Web Control** screen cannot be displayed. Make settings for a connection without using a proxy server.
- If you set **Standby Mode** to **Communication On** in the projector's menu in standby mode, make sure the network device is turned on. After turning on the network device, turn on the projector.

☛ **ECO > Standby Mode**



The user ID and password are case sensitive.

►► Related Links

- "Network Menu - Basic Menu" [p.115](#)

Solutions When Network Alert E-Mails are not Received

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

- Make sure the projector is turned on and connected to the network correctly. (If an error shuts down the projector, the email may not be delivered.)
- Make sure you set up the projector e-mail alert settings correctly in the projector's network **Notifications** menu or in the network software.
- Set the **Standby Mode** setting to **Communication On** so that the network software can monitor the projector in standby mode.

☛ **ECO > Standby Mode**

►► Related Links

- "Network Menu - Notifications Menu" [p.118](#)
- "Projector Setup Settings - ECO Menu" [p.121](#)

Solutions When the Image Contains Static During Network Projection

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

- Check for any obstacles between the access point, the computer, the mobile device, and the projector, and change their positions to improve communication.
- Make sure that the access point, the computer, the mobile device and the projector are not too far apart. Move them closer together and try to connect again.
- Check for interference from other equipment, such as a Bluetooth device or microwave. Move the interfering device farther away or expand your wireless bandwidth.
- Reduce the number of connected devices if the connection speed declines.

Appendix

Check these sections for the technical specifications and important notices about your projector.

►► Related Links

- "Optional Accessories and Replacement Parts" [p.157](#)
- "Screen Size and Projection Distance" [p.159](#)
- "Supported Monitor Display Resolutions" [p.164](#)
- "Projector Specifications" [p.165](#)
- "External Dimensions" [p.169](#)
- "USB Display System Requirements" [p.173](#)
- "Warning Label" [p.174](#)
- "List of Safety Symbols and Instructions" [p.175](#)
- "Glossary" [p.177](#)
- "Notices" [p.179](#)

The following optional accessories and replacement parts are available. Please purchase these products as and when needed.

The following list of optional accessories and replacement parts is current as of: December 2024.

Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

► Related Links

- "Screens" [p.157](#)
- "Mounts" [p.157](#)
- "For Wireless Connection" [p.157](#)
- "External Devices" [p.157](#)
- "Replacement Parts" [p.158](#)

Screens

60" portable screen ELPSC27

80" portable screen ELPSC28

100" portable screen ELPSC29

Portable roll-type screens. (aspect ratio 4:3)

70" portable screen ELPSC23

80" portable screen ELPSC24

90" portable screen ELPSC25

Portable roll-type screens. (aspect ratio 16:10)

64" portable screen ELPSC31

Portable magnetic screens. (aspect ratio 4:3)

50" portable screen ELPSC32

A compact screen that can be carried easily. (aspect ratio 4:3)

80" Mobile X-Type Screen ELPSC21

Portable X-type screens. (aspect ratio 16:9)

Multi Aspect Screen ELPSC26

Portable multi-aspect screen.

Mounts

Ceiling mount ELPMB23

Use when installing the projector on a ceiling.

Safety Wire Set ELPWR01

Use when connecting the projector to the installation mount to prevent the projector from falling down.

Ceiling pipe (450 mm) ELPFP13

Ceiling pipe (700 mm) ELPFP14

Use when installing the projector on a high ceiling.



Special expertise is required to suspend the projector from a ceiling.
Contact Epson for help.

For Wireless Connection

Wireless LAN module ELPAP11

Use this to project images from a computer via a wireless communication.
(Frequency band: 2.4 GHz/5 GHz)

► Related Links

- "List of Functions" [p.9](#)

External Devices

Document Camera ELPDC30/ELPDC21/ELPDC13/ELPDC07

Use when projecting image such as books, OHP documents, or slides.

Android TV™ device ELPAP12

Use this streaming media player to watch online content.

External Speaker ELPSP02

External self-powered speaker.

Soft carrying case ELPKS69

Use this to carry the projector by hand.

►► Related Links

- "List of Functions" [p.9](#)

Replacement Parts

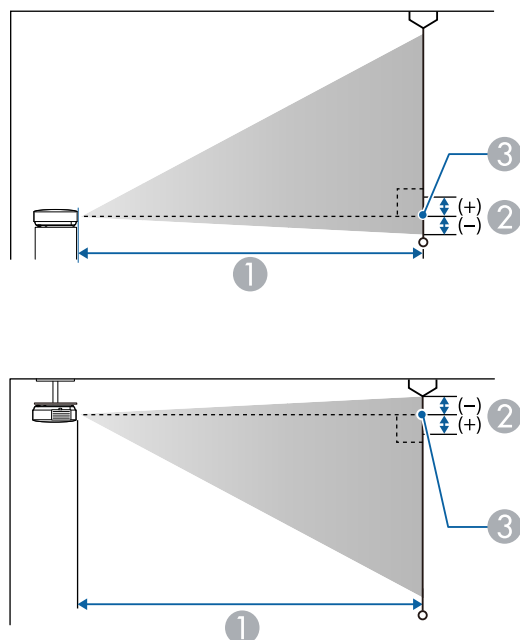
Lamp unit ELPLP97

Use as a replacement for used lamps.

Air filter ELPAF32

Use as a replacement for used air filters.

Check the table here to determine how far to place the projector from the screen based on the size of the projected image.



- ① Projection distance (cm)
- ② Distance from the center of the lens to the base of the screen (or to the top of the screen, if suspended from a ceiling) (cm)
- ③ Center of lens

EB-E24/EB-EA24/EB-E12/EB-EA12

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
30"	61 × 46	87 - 176	-5
50"	102 × 76	146 - 294	-8

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
60"	122 × 91	176 - 353	-10
70"	142 × 107	205 - 412	-12
80"	163 × 122	235 - 472	-14
100"	203 × 152	294 - 590	-17
150"	305 × 229	442 - 886	-25
200"	406 × 305	590	-34
300"	610 × 457	886	-51
350"	711 × 533	1034	-59

16:9 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
28"	62 × 35	88 - 179	1
30"	66 × 37	95 - 192	1
50"	111 × 62	159 - 321	1
60"	133 × 75	192 - 385	1
70"	155 × 87	224 - 450	2
80"	177 × 100	256 - 514	2
100"	221 × 125	321 - 643	2
150"	332 × 187	482 - 966	3
200"	443 × 249	643	5
300"	664 × 374	966	7
320"	708 × 398	1030	7

16:10 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
29"	62 × 39	89 - 180	-1
30"	65 × 40	92 - 186	-1
50"	108 × 67	155 - 312	-2
60"	129 × 81	186 - 375	-3
70"	151 × 94	218 - 437	-3
80"	172 × 108	249 - 500	-4
100"	215 × 135	312 - 626	-4
150"	323 × 202	469 - 939	-7
200"	431 × 269	626	-9
300"	646 × 404	939	-13
330"	711 × 444	1034	-15

EB-X52

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
30"	61 × 46	89 - 107	-5
40"	81 × 61	119 - 143	-7
50"	102 × 76	150 - 180	-8
60"	122 × 91	180 - 217	-10
80"	163 × 122	241 - 290	-14
100"	203 × 152	302 - 363	-17
150"	305 × 229	454 - 546	-25
200"	406 × 305	607 - 729	-34

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
250"	508 × 381	759 - 912	-42
300"	610 × 457	912 - 1095	-51

16:9 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
28"	62 × 35	90 - 109	1
30"	66 × 37	97 - 117	1
40"	89 × 50	130 - 156	1
50"	111 × 62	163 - 196	1
60"	133 × 75	196 - 236	1
80"	177 × 100	263 - 316	2
100"	221 × 125	329 - 396	2
150"	332 × 187	495 - 595	3
200"	443 × 249	661 - 794	5
250"	553 × 311	827 - 994	6
275"	609 × 342	910 - 1093	6

16:10 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
29"	62 × 39	91 - 110	-1
30"	65 × 40	94 - 113	-1
40"	86 × 54	126 - 152	-2
50"	108 × 67	159 - 191	-2

16:10 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
60"	129 × 81	191 - 230	-3
80"	172 × 108	256 - 307	-4
100"	215 × 135	320 - 385	-4
150"	323 × 202	482 - 579	-7
200"	431 × 269	643 - 773	-9
250"	538 × 337	805 - 967	-11
280"	603 × 377	902 - 1083	-13

EB-W53

16:10 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
33"	71 × 44	89 - 180	-5
50"	108 × 67	136 - 274	-8
60"	129 × 81	164 - 329	-10
70"	151 × 94	191 - 385	-11
80"	172 × 108	219 - 440	-13
100"	215 × 135	274 - 550	-16
150"	323 × 202	412 - 826	-25
200"	431 × 269	550	-33
300"	646 × 404	826	-49
350"	754 × 471	964	-57
278"	599 × 374	766	-46

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
30"	61 × 46	92 - 186	-6
50"	102 × 76	154 - 311	-9
60"	122 × 91	186 - 373	-11
70"	142 × 107	217 - 436	-13
80"	163 × 122	248 - 498	-15
100"	203 × 152	311 - 623	-19
150"	305 × 229	467 - 936	-28
200"	406 × 305	623	-37
300"	610 × 457	936	-56
325"	660 × 495	1014	-60
331"	673 × 504	1033	-61

16:9 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
50"	111 × 62	140 - 282	-5
60"	133 × 75	168 - 339	-6
70"	155 × 87	197 - 395	-7
80"	177 × 100	225 - 452	-8
100"	221 × 125	282 - 566	-10
150"	332 × 187	424 - 849	-15
200"	443 × 249	566	-20
300"	664 × 374	849	-30
350"	775 × 436	991	-35

16:9 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
365"	805 × 455	1034	-36

EB-W55/EB-EA55

16:10 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
33"	71 × 44	91 - 110	-4
35"	75 × 47	97 - 117	-4
40"	86 × 54	111 - 134	-5
50"	108 × 67	139 - 168	-6
60"	129 × 81	168 - 202	-7
80"	172 × 108	225 - 270	-10
100"	215 × 135	281 - 338	-12
150"	323 × 202	424 - 509	-18
200"	431 × 269	566 - 680	-24
320"	689 × 431	907 - 1089	-39

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
29"	59 × 44	90 - 109	-4
30"	61 × 46	94 - 113	-4
40"	81 × 61	126 - 152	-5
50"	102 × 76	158 - 190	-7

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
60"	122 × 91	190 - 229	-8
70"	142 × 107	222 - 267	-10
80"	163 × 122	255 - 306	-11
100"	203 × 152	319 - 383	-14
150"	305 × 229	480 - 577	-20
200"	406 × 305	641 - 770	-27
280"	569 × 427	898 - 1079	-38

16:9 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
32"	71 × 40	91 - 109	-2
35"	77 × 44	99 - 120	-2
40"	89 × 50	114 - 137	-2
50"	111 × 62	143 - 172	-3
60"	133 × 75	172 - 208	-3
70"	155 × 87	202 - 243	-4
80"	177 × 100	231 - 278	-4
100"	221 × 125	289 - 348	-5
150"	332 × 187	435 - 523	-8
200"	443 × 249	582 - 699	-11
310"	686 × 386	903 - 1084	-17

EB-FH08

16:9 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
34"	75 × 42	89 - 108	-3
40"	89 × 50	106 - 127	-3.6
50"	111 × 62	133 - 160	-4.5
60"	133 × 75	160 - 192	-5.3
80"	177 × 100	214 - 257	-7.1
100"	221 × 125	268 - 322	-8.9
150"	332 × 187	404 - 485	-13.4
200"	443 × 249	539 - 648	-17.8
250"	553 × 311	675 - 810	-22.3
337"	746 × 420	911 - 1093	-30

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
28"	57 × 43	90 - 109	-3.1
30"	61 × 46	97 - 117	-3.3
40"	81 × 61	130 - 156	-4.4
50"	102 × 76	163 - 196	-5.5
60"	122 × 91	196 - 236	-6.5
80"	163 × 122	263 - 316	-8.7
100"	203 × 152	329 - 395	-10.9
150"	305 × 229	495 - 594	-16.4
200"	406 × 305	661 - 793	-21.8

4:3 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
250"	508 × 381	827 - 992	-27.3
275"	559 × 419	910 - 1092	-30

16:10 screen size		①	②
		Minimum (Wide) to Maximum (Tele)	
32"	69 × 43	91 - 110	-3.1
40"	86 × 54	114 - 138	-3.9
50"	108 × 67	144 - 173	-4.8
60"	129 × 81	173 - 208	-5.8
70"	151 × 94	202 - 243	-6.7
80"	172 × 108	232 - 278	-7.7
100"	215 × 135	290 - 349	-9.6
150"	323 × 202	437 - 525	-14.5
200"	431 × 269	583 - 700	-19.3
250"	538 × 337	730 - 876	-24.1
280"	603 × 377	818 - 982	-27

See the *Supplemental A/V Support Specification* for detailed information on compatible refresh rates and resolutions for each compatible video display format.

►► Related Links

- "Getting the Latest Version of the Documents" [p.8](#)

EB-E24/EB-EA24/EB-X52/EB-E12/EB-EA12

Product name	EB-E24/EB-EA24/EB-X52/EB-E12/EB-EA12
Dimensions	EB-E24/EB-EA24 302 (W) × 87 (H) × 249 (D) mm (not including raised section) EB-X52/EB-E12/EB-EA12 302 (W) × 77 (H) × 234 (D) mm (not including raised section)
LCD panel size	0.55"
Display method	3LCD
Number of pixels	XGA (1,024 (W) × 768 (H) dots) × 3
Screen resolution	786,432 pixels (1,024 × 768)
Focus adjustment	Manual
Zoom adjustment	EB-E24/EB-EA24 1 to 2.0 (Digital Zoom) EB-X52 1 to 1.2 (Optical Zoom) EB-E12/EB-EA12 1 to 2.0 (Digital Zoom)
Lamp	UHE lamp, 210 W Model No.: ELPLP96
Lamp life	High Power Consumption mode: Up to 6,000 hours ECO Power Consumption mode: Up to 12,000 hours
Air filter maintenance cycle	6,000 hours
Max. audio output	EB-E24/EB-EA24 5 W EB-X52/EB-E12/EB-EA12 2 W

Speaker	1
Power supply	100-240V AC±10% 50/60Hz 3.6 - 1.7 A
Power consumption (100 to 120 V area)	Operating: 349 W
Power consumption (220 to 240 V area)	Operating: 332 W
Standby power consumption	EB-E24/EB-EA24 0.3 W EB-X52 Communication On: 2.0 W Communication Off: 0.3 W EB-E12/EB-EA12 0.3 W
Operating altitude	Altitude 0 to 3,048 m
Operating temperature *	Altitude of 0 to 2,286 m: +5 to +40°C (No condensation) Altitude of 2,287 to 3,048 m: +5 to +35°C (Humidity of 20 to 80%, No condensation)
Storage temperature	-10 to +60°C (Humidity of 10 to 90%, No condensation)
Mass	EB-E24/EB-EA24 Approx. 2.7 kg EB-X52 Approx. 2.5 kg EB-E12/EB-EA12 Approx. 2.4 kg

* Lamp brightness automatically dims if the surrounding temperature gets too high. (Approximately 35°C at an altitude of 0 to 2,286 m, and approximately 30°C at an altitude of 2,287 to 3,048 m; however, this may vary depending on the surrounding environment.)

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

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

For the EB-E24/EB-EA24/EB-E12/EB-EA12

This product is certified for wireless communication in Zambia. See the following URL for the certification number.

https://download2.ebz.epson.net/sec_pubs_visual/zicta/

EB-W55/EB-EA55/EB-W53

Product name	EB-W55/EB-EA55/EB-W53
Dimensions	EB-W55/EB-EA55 302 (W) × 87 (H) × 234 (D) mm (not including raised section) EB-W53 302 (W) × 77 (H) × 234 (D) mm (not including raised section)
LCD panel size	0.59"
Display method	3LCD
Number of pixels	WXGA (1,280 (W) × 800 (H) dots) × 3
Screen resolution	1,024,000 pixels (1,280 × 800)
Focus adjustment	Manual
Zoom adjustment	EB-W55/EB-EA55 1 to 1.2 (Optical Zoom) EB-W53 1 to 2.0 (Digital Zoom)
Lamp	UHE lamp, 210 W Model No.: ELPLP96
Lamp life	High Power Consumption mode: Up to 6,000 hours ECO Power Consumption mode: Up to 12,000 hours
Air filter maintenance cycle	6,000 hours
Max. audio output	2 W

Speaker	1
Power supply	100-240V AC±10% 50/60Hz 3.6 - 1.7 A
Power consumption (100 to 120 V area)	Operating: 349 W
Power consumption (220 to 240 V area)	Operating: 332 W
Standby power consumption	EB-W55/EB-EA55 Communication On: 2.0 W Communication Off: 0.3 W EB-W53 0.3 W
Operating altitude	Altitude 0 to 3,048 m
Operating temperature *	Altitude of 0 to 2,286 m: +5 to +40°C (No condensation) Altitude of 2,287 to 3,048 m: +5 to +35°C (Humidity of 20 to 80%, No condensation)
Storage temperature	-10 to +60°C (Humidity of 10 to 90%, No condensation)
Mass	EB-W55/EB-EA55 Approx. 2.6 kg EB-W53 Approx. 2.5 kg

* Lamp brightness automatically dims if the surrounding temperature gets too high. (Approximately 35°C at an altitude of 0 to 2,286 m, and approximately 30°C at an altitude of 2,287 to 3,048 m; however, this may vary depending on the surrounding environment.)

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

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

This product is certified for wireless communication in Zambia. See the following URL for the certification number.

https://download2.ebz.epson.net/sec_pubs_visual/zicta/

EB-FH08

Product name	EB-FH08
Dimensions	302 (W) × 87 (H) × 249 (D) mm (not including raised section)
LCD panel size	0.62"
Display method	3LCD
Number of pixels	Full HD (1,920 (W) × 1,080 (H) dots) × 3
Screen resolution	2,073,600 pixels (1,920 × 1,080)
Focus adjustment	Manual
Zoom adjustment	1 to 1.2 (Optical Zoom)
Lamp	UHE lamp, 210 W Model No.: ELPLP96
Lamp life	High Power Consumption mode: Up to 6,000 hours ECO Power Consumption mode: Up to 12,000 hours
Air filter maintenance cycle	6,000 hours
Max. audio output	2 W
Speaker	1
Power supply	100-240V AC±10% 50/60Hz 3.6 - 1.7 A
Power consumption (100 to 120 V area)	Operating: 349 W
Power consumption (220 to 240 V area)	Operating: 332 W
Standby power consumption	Communication On: 2.0 W Communication Off: 0.3 W
Operating altitude	Altitude 0 to 3,048 m
Operating temperature *	Altitude of 0 to 2,286 m: +5 to +40°C (No condensation) Altitude of 2,287 to 3,048 m: +5 to +35°C (Humidity of 20 to 80%, No condensation)

Storage temperature	-10 to +60°C (Humidity of 10 to 90%, No condensation)
Mass	Approx. 2.7 kg

* Lamp brightness automatically dims if the surrounding temperature gets too high. (Approximately 35°C at an altitude of 0 to 2,286 m, and approximately 30°C at an altitude of 2,287 to 3,048 m; however, this may vary depending on the surrounding environment.)

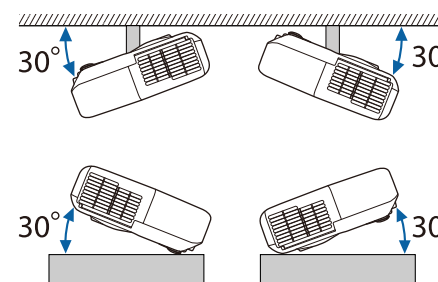
This product is also designed for IT power distribution system with phase-to-phase voltage 230V.

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

This product is certified for wireless communication in Zambia. See the following URL for the certification number.

https://download2.ebz.epson.net/sec_pubs_visual/zicta/

Angle of tilt



If you use the projector tilted at an angle of more than 30° it could be damaged and cause an accident.

►► Related Links

- "Connector Specifications" [p.168](#)

Connector Specifications

See the List of Functions for details on the ports on your projector.

Computer1 port	Mini D-Sub15-pin (female)
Computer2 port	Mini D-Sub15-pin (female)
Monitor Out port	Mini D-Sub15-pin (female)
Video port	RCA pin jack
Audio 1 port	Stereo mini pin jack
Audio 2 port	Stereo mini pin jack
L-Audio-R ports	RCA pin jack × 2 (L-R)
Audio Out port	Stereo mini pin jack
HDMI port	HDMI (Audio is only supported by PCM)
HDMI1 port	HDMI (Audio is only supported by PCM)
HDMI2 port	HDMI (Audio is only supported by PCM)
USB-A port	USB connector (Type A)
USB-B port	USB connector (Type B)
RS-232C port	Mini D-Sub 9-pin (male)

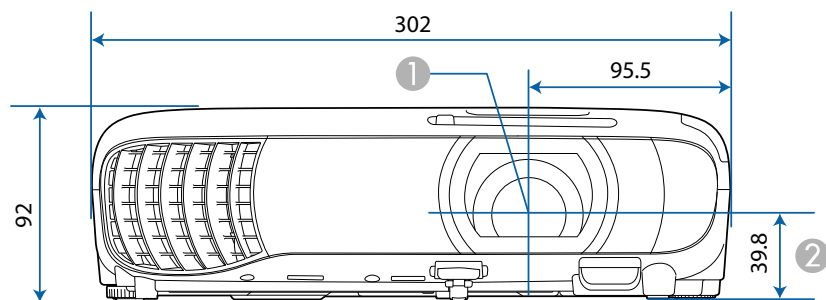


- USB-A and USB-B port supports USB 2.0. However, USB ports are not guaranteed to operate all devices that support USB.
- USB-B port does not support USB 1.1.

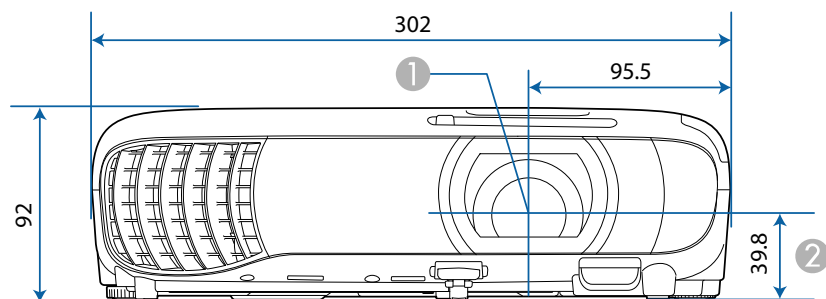
►► Related Links

- "List of Functions" [p.9](#)

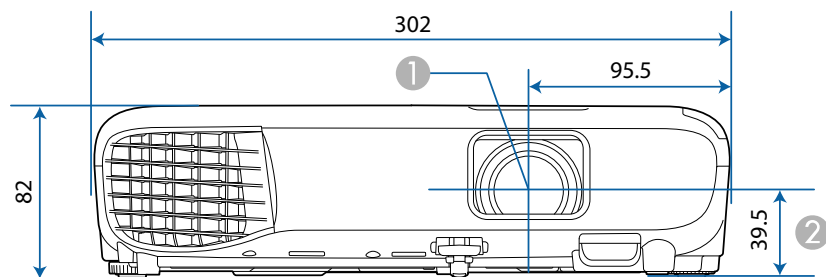
EB-FH08



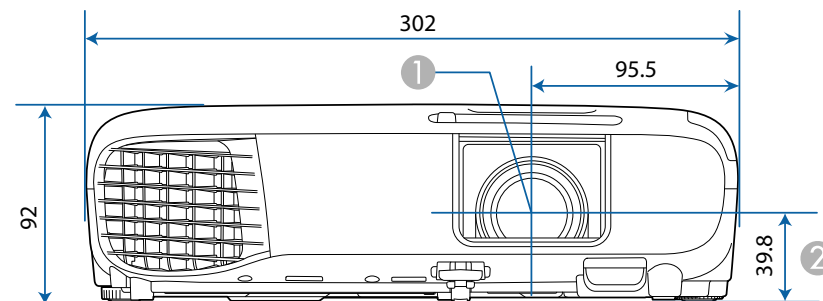
EB-W55/EB-EA55



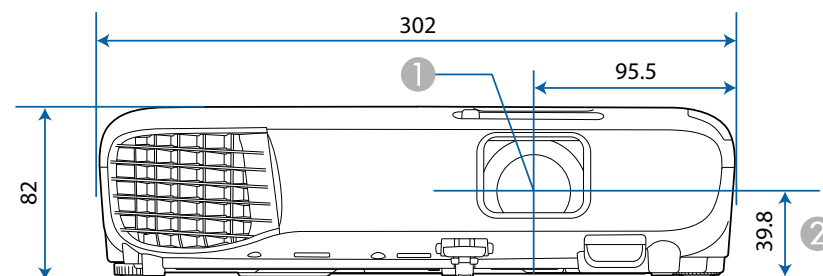
EB-W53



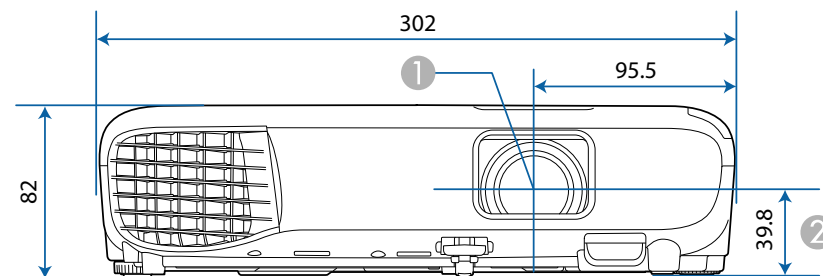
EB-E24/EB-EA24



EB-X52

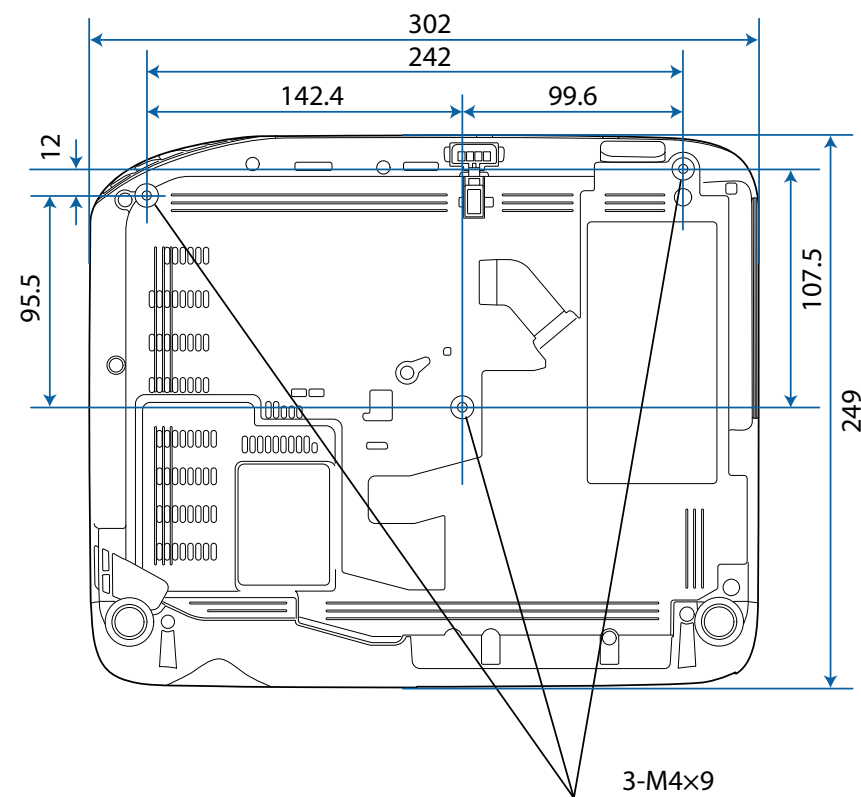


EB-E12/EB-EA12

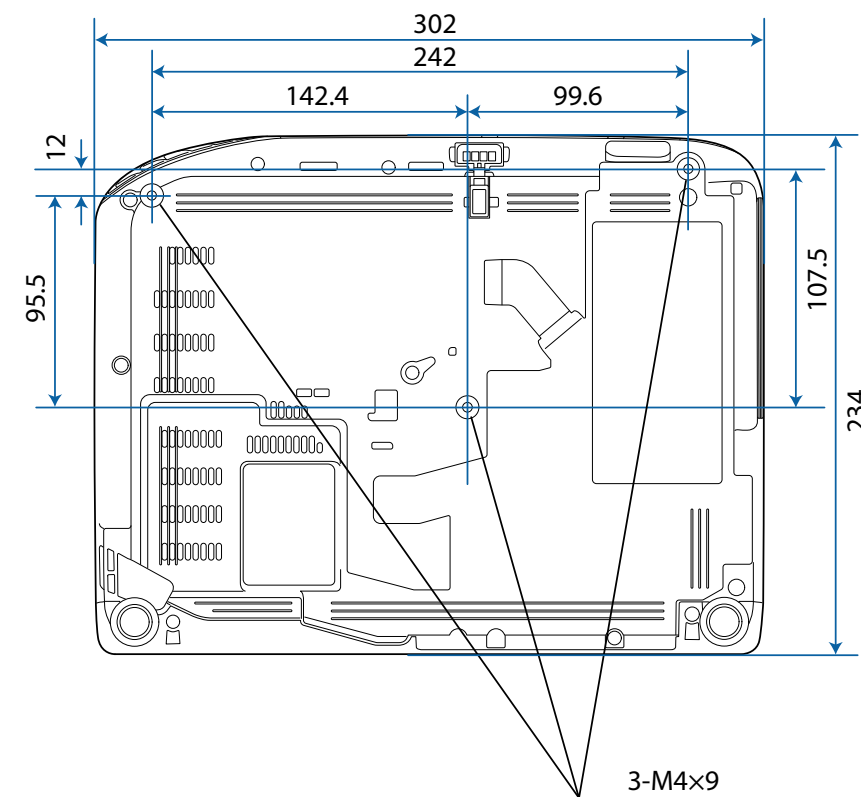


- ① Center of lens
- ② Distance from center of lens to suspension bracket fixing point

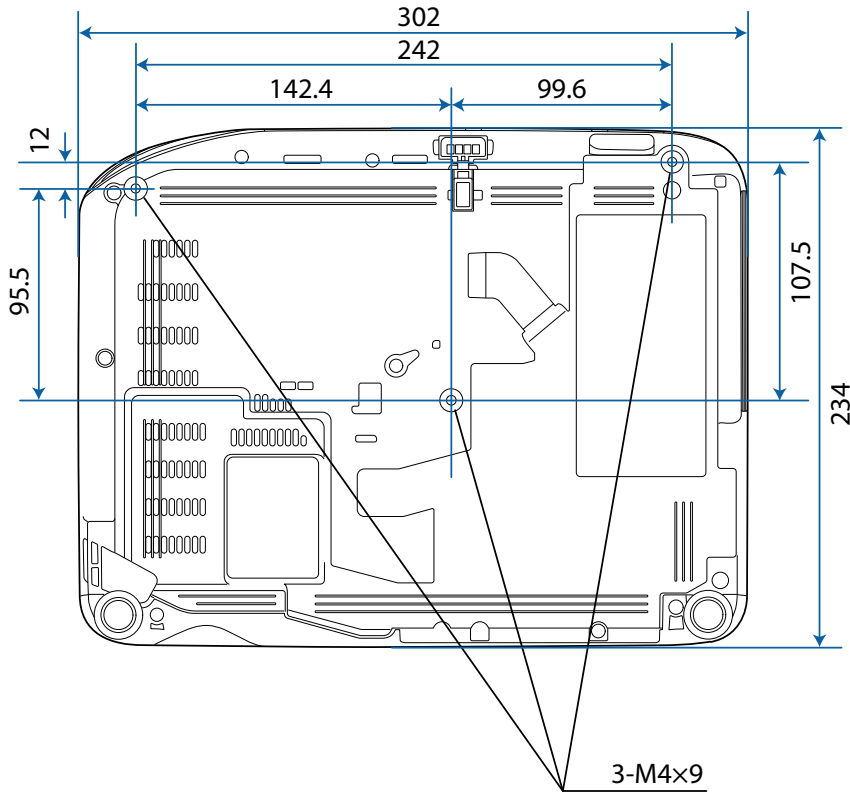
EB-FH08



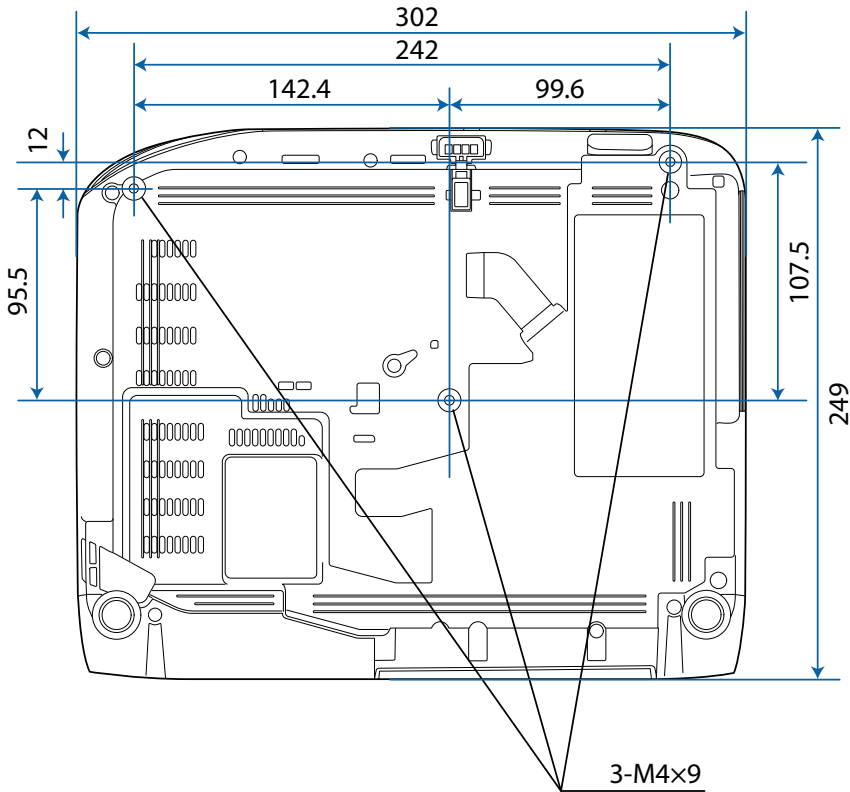
EB-W55/EB-EA55



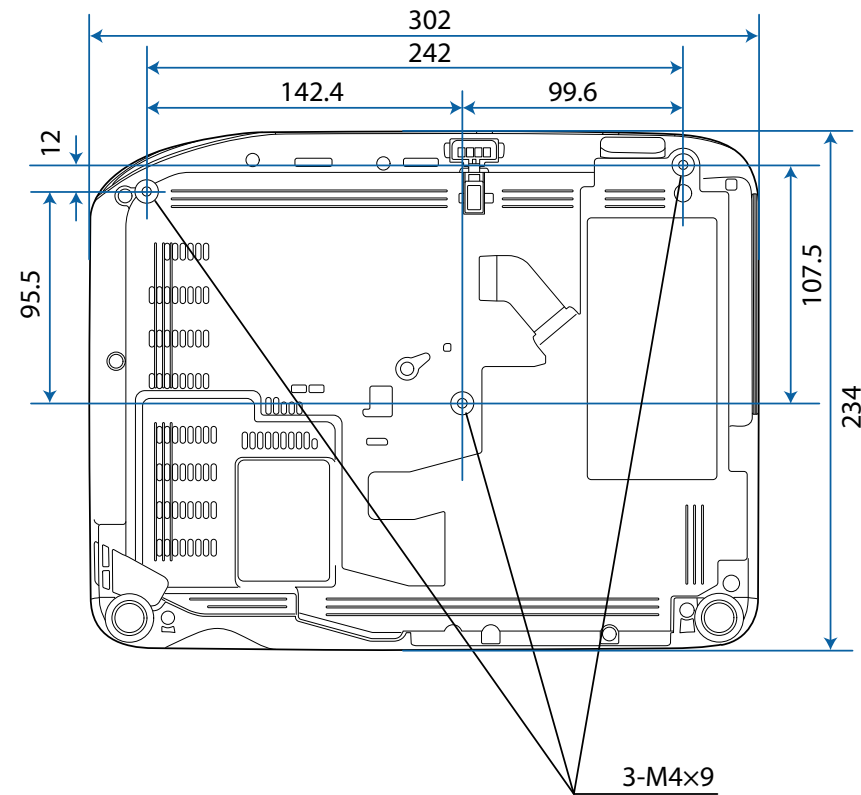
EB-W53



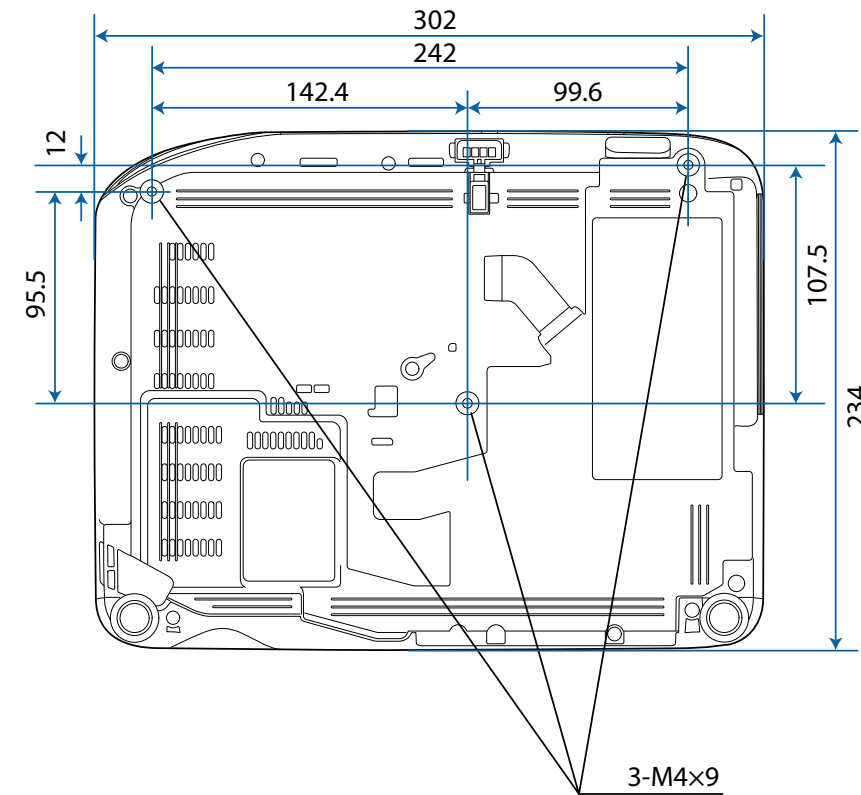
EB-E24/EB-EA24



EB-X52



EB-E12/EB-EA12



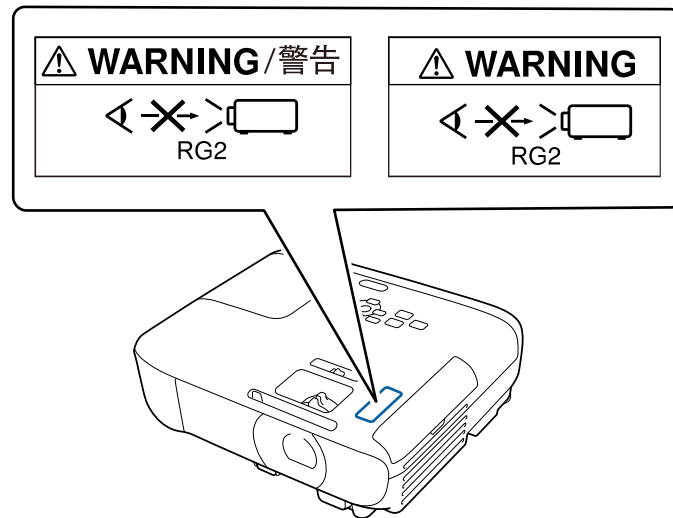
The unit in these illustrations is mm.

To use the projector's Epson USB Display software, your computer must meet the following system requirements.

Requirement	Windows	Mac
Operating system	Windows 10 - Windows 10 Home (32- and 64-bit) - Windows 10 Pro (32- and 64-bit) - Windows 10 Enterprise (32- and 64-bit)	macOS 10.15.x (64-bit) 11.x (64-bit) 12.x (64-bit) 13.x (64-bit) 14.x (64-bit)
	Windows 11 - Windows 11 Home - Windows 11 Pro - Windows 11 Enterprise	
CPU	Intel Core2Duo or faster (Intel Core i3 or faster recommended)	Intel Core2Duo or faster (Intel Core i5 or faster recommended)
Memory	2 GB or more (4 GB or more recommended)	
Hard disk space	20 MB or more	
Display	Resolution between 640 × 480 and 1920 × 1200 16-bit color or greater	

The warning label is attached to the projector.

As with any bright source, do not stare into the beam, RG2 IEC/EN 62471-5:2015.

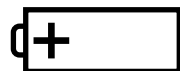
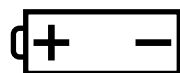


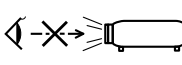
Warning

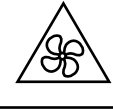
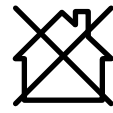
- When turning on the projector at a distance using the remote control, make sure no one is looking into the lens.
- Do not allow small children to operate the projector. Children must be accompanied by an adult.
- Do not look into the lens during projection. Also, do not look into the lens using optical devices, such as a magnifying glass or telescope. This could cause visual impairment.

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

No.	Symbol mark	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 mark	Approved standards	Description
⑧		IEC60417 No. 5926	Polarity of d.c. power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a d.c. power supply may be connected.
⑨		—	The same as No. 8.
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		—	The same as No. 11.
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 mark	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 mark	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) As a safety precaution, stay away from the moving fan blades.
27		IEC60417 No. 6043	Caution (Sharp Corners) To indicate sharp corners that should not be touched.
28		—	To indicate that looking into the lens while projecting is prohibited.
29		ISO7010 No. W027 ISO 3864	Warning, Optical radiation (such as UV, visible radiation, IR) Taking care to avoid injury to eyes and skin when in the vicinity of optical radiation.
30		IEC60417 No. 5109	Not to be used in residential areas. To identify electrical equipment which is not suitable for a residential area.

This section briefly explains the difficult terms that are not explained in the text of this guide. For details, refer to other commercially available publications.

Aspect Ratio	The ratio between an image's length and its height. Screens with a horizontal:vertical ratio of 16:9, such as HDTV screens, are known as wide screens. SDTV and general computer displays have an aspect ratio of 4:3.
Composite Video	A method that combines the video signal into a luminance component and a color component for transmission down a single cable.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to make text and graphics stand out more clearly, or to make them appear softer. Adjusting this particular property of an image is called contrast adjustment.
DHCP	An abbreviation of Dynamic Host Configuration Protocol, this protocol automatically assigns an IP address to equipment connected to a network.
Full HD	A screen size standard with a resolution of 1,280 (horizontal) × 1,080 (vertical) dots.
Gateway Address	This is a server (router) for communicating across a network (subnet) divided according to subnet mask.
HDCP	HDCP is an abbreviation for High-bandwidth Digital Content Protection. It is used to prevent illegal copying and protect copyrights by encrypting digital signals sent over DVI and HDMI ports. Because the HDMI port on this projector supports HDCP, it can project digital images protected by HDCP technology. However, the projector may not be able to project images protected with updated or revised versions of HDCP encryption.

HDMI™	An abbreviation for High Definition Multimedia Interface. HDMI™ is a standard aimed at digital consumer electronics and computers. This is the standard by which HD images and multichannel audio signals are digitally transmitted. By not compressing the digital signal, the image can be transferred at the highest quality possible. It also provides an encryption function for the digital signal.
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satisfy the following conditions: • Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace) • Screen aspect ratio of 16:9
Interlace	Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom. Images are more likely to flicker because one frame is displayed every other line.
IP Address	A number to identify a computer connected to a network.
Progressive	Projects information to create one screen at a time, displaying the image for one frame. Even though the number of scan lines is the same, the amount of flicker in images decreases because the volume of information has doubled compared with an interlace system.
Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time. Because of this, the image must be scanned many times per second to refresh the light-emitting element. The number of refresh operations per second is called the Refresh rate and is expressed in hertz (Hz).
SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.

SNMP	An abbreviation for Simple Network Management Protocol, which is the protocol for monitoring and controlling devices such as routers and computers connected to a TCP/IP network.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set both the projector and the connected signal source to sRGB.
SSID	SSID is identification data for connecting to another device on a wireless LAN. Wireless communication is possible between devices with the same SSID.
Subnet Mask	This is a numerical value that defines the number of bits used for the network address on a divided network (subnet) from the IP address.
SVGA	A screen size standard with a resolution of 800 (horizontal) × 600 (vertical) dots.
SXGA	A screen size standard with a resolution of 1,280 (horizontal) × 1,024 (vertical) dots.
Sync.	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the phases of these signals (the relative position of the crests and the troughs in the signal) is called Synchronization. If the signals are not synchronized, flickering, blurriness, and horizontal interference occur.
Tracking	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the frequency of these signals (the number of crests in the signal) is called Tracking. If Tracking is not carried out correctly, wide vertical stripes appear in the signal.

Trap IP Address	This is the IP address for the destination computer used for error notification in SNMP.
VGA	A screen size standard with a resolution of 640 (horizontal) × 480 (vertical) dots.
XGA	A screen size standard with a resolution of 1,024 (horizontal) × 768 (vertical) dots.
WXGA	A screen size standard with a resolution of 1,280 (horizontal) × 800 (vertical) dots.
WUXGA	A screen size standard with a resolution of 1,920 (horizontal) × 1,200 (vertical) dots.

Check these sections for important notices about your projector.

► Related Links

- "FCC Compliance Statement" [p.179](#)
- "Indication of the manufacturer and the importer in accordance with requirements of EU directive" [p.180](#)
- "Restriction of Use" [p.180](#)
- "Operating System References" [p.180](#)
- "Trademarks" [p.181](#)
- "Copyright Notice" [p.181](#)
- "Copyright Attribution" [p.181](#)

FCC Compliance Statement

Supplier's DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or

CPU Boards and Power Supplies used with Class B Personal Computers

We: Epson America, Inc.

Located at: 3131 Katella Avenue, Los Alamitos, CA

Tel: 562-981-3840

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.906. 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.

Trade Name: EPSON

Type of Product: LCD Projector

Model: HB51C/HB55C/HB56C/HB57C/HB58C

Product name	Model
Remote controller	2198635 xx (x=0-9)

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 (B) / NMB (B)

Indication of the manufacturer and the importer in accordance with requirements of EU directive

Manufacturer: SEIKO EPSON CORPORATION
Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan
<http://www.epson.com/>

Importer: EPSON EUROPE B.V.
EU Address: Atlas Arena, Asia Building, Hoogoorddreef 5, 1101 BA Amsterdam
Zuidoost The Netherlands
UK Address: Floor 3&4, The Clarendon Works, 37-39 Clarendon Road, Watford
WD17 1JA, U.K.
<http://www.epson.eu/>

Supplier in Middle East, Turkey, Africa, and Central & West Asia: Epson Middle East
FZCO
Address: 6WA-401 6W bldg., Dubai Airport Freezone, Dubai, United Arab Emirates
www.epson.com/eme

Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc; or functional/precision devices etc, 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 etc, please make your own judgment on this product's suitability after a full evaluation.

Operating System References

- Microsoft® Windows® 10 operating system
- Microsoft® Windows® 11 operating system

In this guide, the operating systems above are referred to as "Windows 10" and "Windows 11". Furthermore, the collective term "Windows" is used to refer to them all.

- macOS 10.15.x
- macOS 11.x
- macOS 12.x
- macOS 13.x
- macOS 14.x

In this guide, the operating systems above are referred to as "macOS 10.15.x", "macOS 11.x", "macOS 12.x", "macOS 13.x", and "macOS 14.x". Furthermore, the collective term "Mac" is used to refer to them all.

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