EPSON®

User's Guide

H793A / H796A

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Notations Used in This Guide

Safety Symbols

The projector and its manuals use graphical symbols and labels to indicate content that tells you how to use the projector safely.

Read and carefully follow the instructions that are marked with these symbols and labels to avoid injury to persons or damage to property.

⚠ **Warning**	This symbol indicates information that, if ignored, could possibly result in personal injury or even death.
⚠ **Caution**	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

General Information Notations

Attention	This label indicates procedures that may result in damage or injury if sufficient care is not taken.
	This label indicates additional information that may be useful to know.
[Button name]	Indicates the name of the buttons on the remote control or the control panel. Example: [Esc] button
Menu/Setting name	Indicates projector menu and setting names. Example: Select the **Image** menu ☛ **Image** > **Advanced**
▶▶	This label indicates links to the related pages.
☛	This label indicates a page where detailed information regarding a topic can be found.

Introduction to Your Projector

Refer to these sections to learn more about your projector's features and part names.

Related Links

- "Projector Features" p.8
- "Projector Parts and Functions" p.11

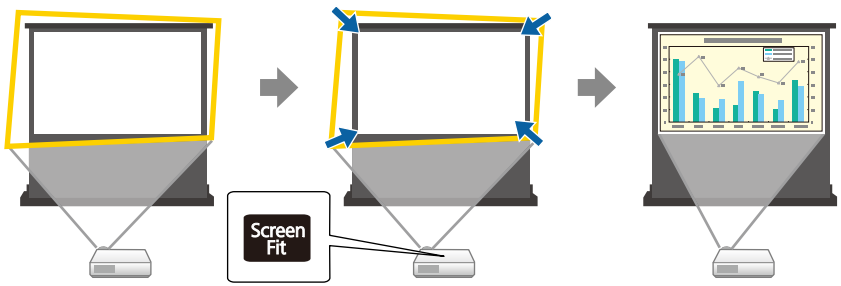
This projector comes with this special features. Refer to these sections for more details.

Related Links

- "Quick and Easy Setup" p.8
- "Easy Wireless Projection" p.8
- "Flexible Connectivity" p.9
- "Support for Smooth Meetings" p.10

Quick and Easy Setup

- Direct Power On feature to turn on the projector as soon as you plug it in.
- Auto Power On feature to turn on the projector when the projector detects an image signal from the port you specified as the **Auto Power On** source.
- Home screen feature to easily select an input source and useful functions.
- Real-time, automatic vertical and horizontal keystone correction always displays a rectangular screen (Auto H/V-Keystone) (EB-1795F/EB-1785W/EB-1781W).
- Automatic vertical keystone correction always displays a rectangular screen (Auto V-Keystone) (EB-1780W).
- Screen Fit feature to automatically resize projected images (EB-1795F/EB-1785W/EB-1781W).



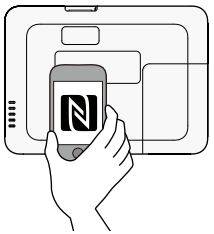
Related Links

- "Auto H/V-Keystone" p.41
- "Projector Setup Settings - Extended Menu" p.123
- "Turning On the Projector" p.31
- "Automatically Correcting the Image Shape with Screen Fit" p.41

Easy Wireless Projection

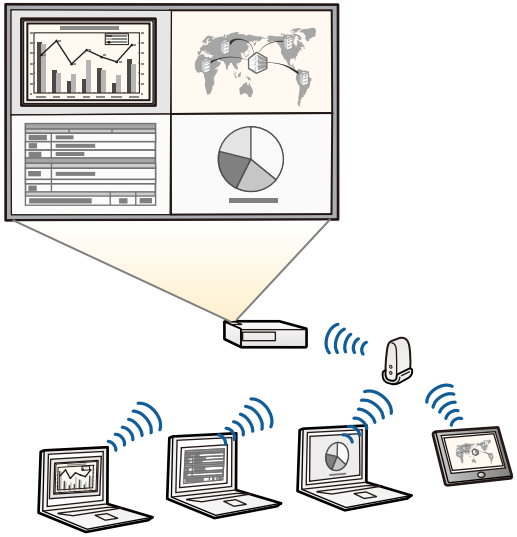
- Screen Mirroring to connect your projector and mobile device wirelessly using Miracast technology (EB-1795F/EB-1785W).

- Epson iProjection to connect your projector and mobile device wirelessly using the app available on App Store or Google play.
  If you use an Android device with the NFC (Near Field Communication) feature, you can wirelessly connect your projector and your device using the NFC technology. This feature allows you to quickly project content saved on your device using Epson iProjection (EB-1795F/EB-1785W/EB-1781W).



Any fees incurred when communicating with App Store or Google play are the responsibility of the customer.

- EasyMP Multi PC Projection to project up to four images at the same time by splitting the projected screen. You can project images from computers on the network, or from smartphones or tablet devices on which Epson iProjection is installed.
  See the *EasyMP Multi PC Projection Operation Guide* for details.



- You can download the necessary software and manuals from the following Web site:
  http://www.epson.com/

Related Links
- "Using the Projector on a Network" p.91
- "Using NFC to Connect an Android Device" p.97

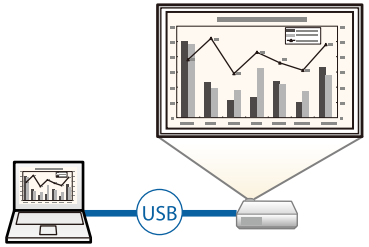
Flexible Connectivity

This projector supports a wide variety of easy-to-use connectivity options as shown below.

Related Links
- "Connect with Computers" p.9
- "Connect with Mobile Devices" p.9

Connect with Computers

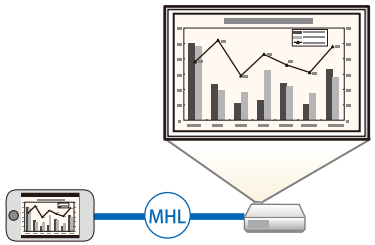
Connect with one USB cable to project images and output audio (USB Display).



Related Links
- "Connecting to a Computer for USB Video and Audio" p.20

Connect with Mobile Devices

- HDMI port to connect an MHL cable to the mobile device and to the projector.

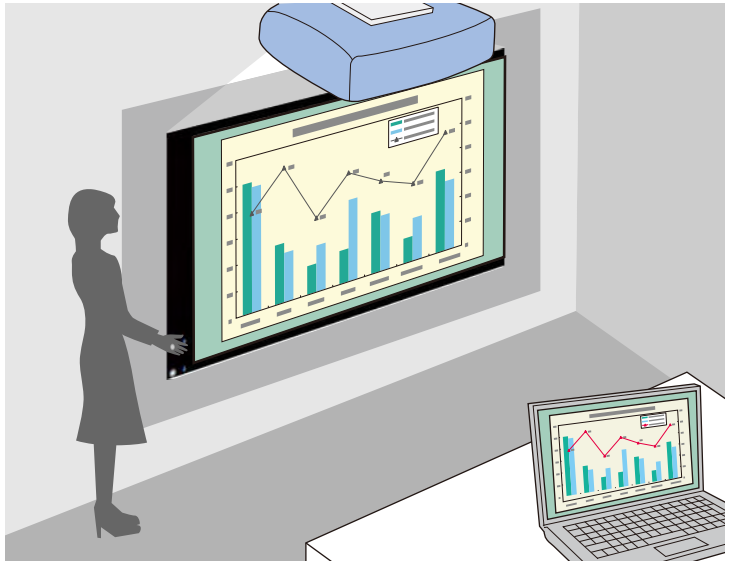


Related Links

- "Connecting to Smartphones or Tablets" p.22

Support for Smooth Meetings

The Gesture Presenter feature allows you to control your presentation using your hands allowing you to give presentations in front of the screen without a presentation remote control (EB-1795F/EB-1785W/EB-1781W).



Related Links

- "Controlling a Presentation with Your Hands" p.72

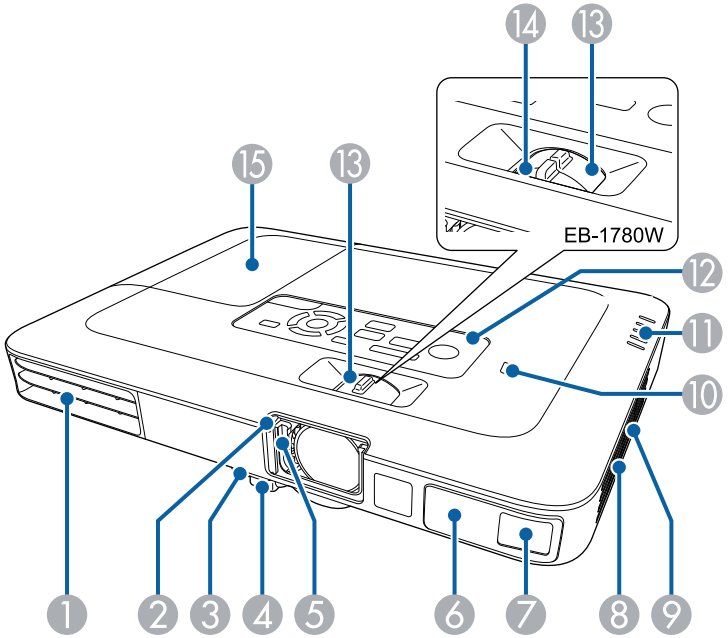
The following sections explain the projector parts and their functions.

All of the features in this guide are explained using illustrations of EB-1795F unless otherwise mentioned.

Related Links

- "Projector Parts - Front" p.11
- "Projector Parts - Rear" p.12
- "Projector Parts - Base" p.13
- "Projector Parts - Control Panel" p.13
- "Projector Parts - Remote Control" p.14

Projector Parts - Front



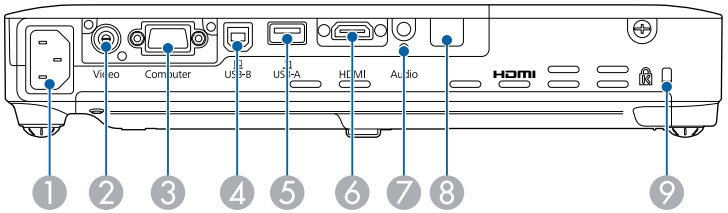
Name		Function
1	Air exhaust vent	Exhaust vent for air used to cool the projector internally. **Warning** Do not look into the vents. If the lamp explodes, gases may escape and small fragments of glass may be scattered which could cause an injury. Contact a doctor if any fragments of broken glass are inhaled or get into the eyes or mouth. **Caution** 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.
2	A/V Mute slide lever	Slide the lever to open and close the A/V mute slide.
3	Foot release lever	Press the foot release lever to extend and retract the front adjustable foot.
4	Front adjustable foot	When setup on a surface such as a desk, extend the foot to adjust the position of the image.
5	A/V Mute slide	Close when not using the projector to protect the lens. By closing during projection you can hide the image and the sound.
6	Remote receiver	Receives signals from the remote control.
7	Sensor (EB-1795F/EB-1785W/EB-1781W)	Sensor for detecting the projected images.
8	Air intake vent (air filter)	Takes in air to cool the projector internally.
9	Speaker	Outputs audio.

Name		Function
⑩	NFC tag (EB-1795F/EB-1785W/EB-1781W)	Transfers projector network information with your Android device using the NFC technology.
⑪	Indicators	Indicates the projector's status.
⑫	Control panel	Operates the projector.
⑬	Zoom ring	Adjusts the image size.
⑭	Focus ring (EB-1780W)	Adjusts the image focus.
⑮	Lamp cover	Open when replacing the projector's lamp.

Related Links

- "Projector Indicator Status" p.153
- "Resizing the Image with the Zoom Ring" p.47
- "Focusing the Image Using the Focus Ring" p.49
- "Using NFC to Connect an Android Device" p.97

Projector Parts - Rear

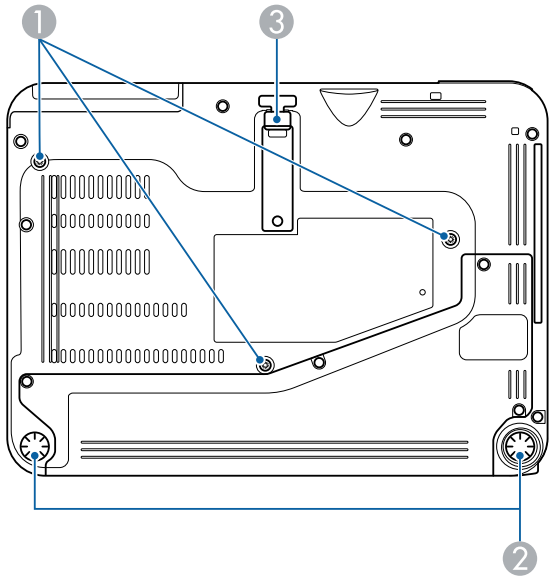


Name		Function
①	Power inlet	Connects the power cord to the projector.
②	Video port	Inputs composite video signals from video sources.
③	Computer port	Inputs image signals from a computer and component video signals from other video sources.
④	USB-B port	Connects a USB cable to the computer to project computer images, to use the Wireless Mouse function, or to use the Gesture Presenter feature.
⑤	USB-A port	Connects a USB memory device or a digital camera and projects PDFs, movies, or images using PC Free. Connects the optional Document Camera.
⑥	HDMI port	Inputs video signals from HDMI compatible video equipment and computers, or MHL (Mobile High-Definition Link) compatible mobile devices. This projector is compatible with HDCP.
⑦	Audio port	Inputs audio from equipment connected to the Computer port.
⑧	Remote receiver	Receives signals from the remote control.
⑨	Security slot	The security slot is compatible with the Microsaver Security System manufactured by Kensington.

Related Links

- "Using the Remote Control as a Wireless Mouse" p.78
- "Installing a Security Cable" p.90
- "Projecting a PC Free Presentation" p.65

Projector Parts - Base



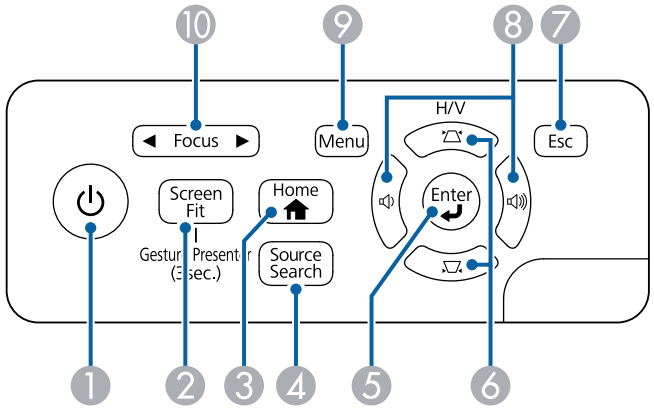
Name		Function
1	Ceiling mount fixing points (three points)	Attach the optional ceiling mount here when suspending the projector from a ceiling.
2	Rear feet	When setup on a surface such as a desk, turn to extend and retract to adjust the horizontal tilt.
3	Front adjustable foot	When setup on a surface such as a desk, extend the foot to adjust the position of the image.

Related Links

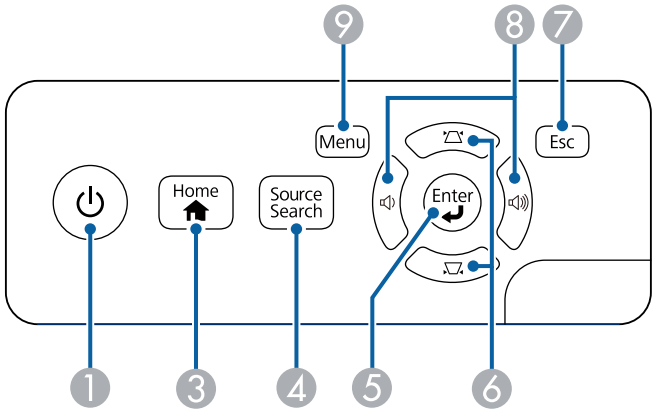
- "Installing a Security Cable" p.90

Projector Parts - Control Panel

EB-1795F/EB-1785W/EB-1781W



EB-1780W



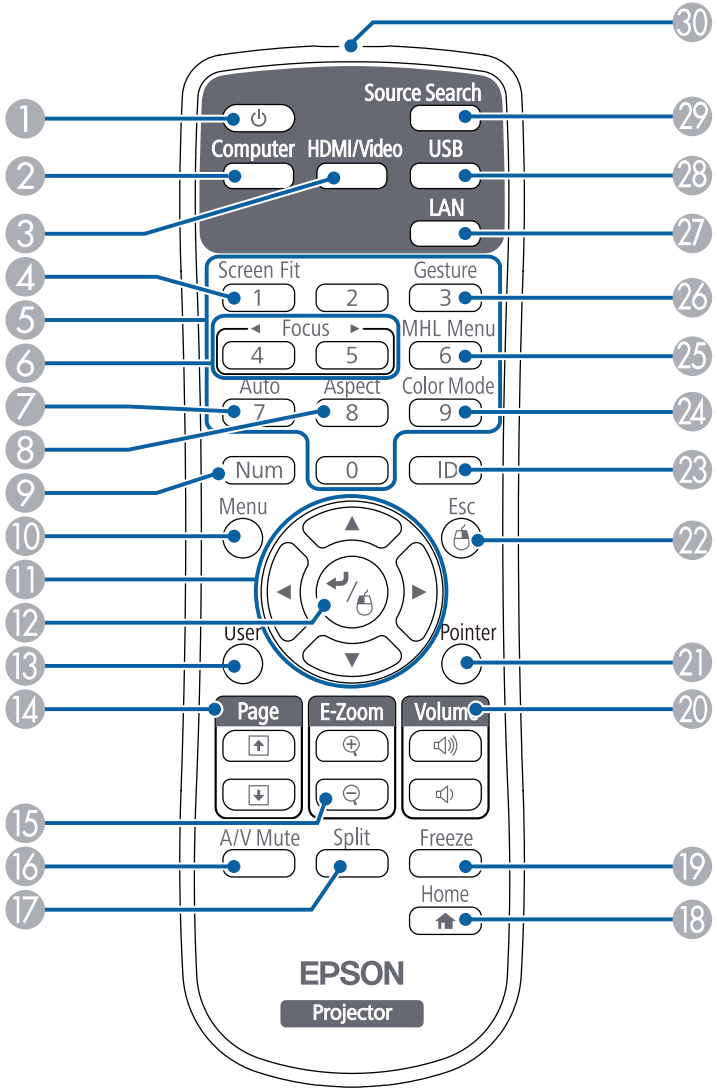
Name		Function
1	Power button	Turns the projector on or off.

Name		Function
②	[Screen Fit] button (EB-1795F/EB-1785W/EB-1781W)	Performs Screen Fit feature to automatically correct the shape and position of images to fit on your screen. Hold down for three seconds to display the menu for the Gesture Presenter feature.
③	[Home] button	Displays and closes the Home screen.
④	[Source Search] button	Changes to the next input source.
⑤	[Enter] button [↵]	Enters the current selection and moves to the next level while displaying the projector's menu or help. Optimizes **Tracking**, **Sync.**, and **Position** in the projector's **Signal** menu while projecting an analog RGB signal from the Computer port.
⑥	Keystone adjustment buttons and arrow buttons	Displays the Keystone screen allowing you to correct keystone distortion. Selects menu items while displaying the projector's menu or help.
⑦	[Esc] button	Stops the current function. Moves back to the previous menu level while displaying the projector's menu.
⑧	Volume buttons and arrow buttons	Adjusts the speaker volume. Selects menu items while displaying the projector's menu or help.
⑨	[Menu] button	Displays and closes the projector's menu.
⑩	[Focus] button (EB-1795F/EB-1785W/EB-1781W)	Adjust the image focus.

Related Links

- "Input Signal Settings - Signal Menu" p.119
- "Home Screen" p.32
- "Correcting the Image Shape with the Keystone Buttons" p.43
- "Automatically Correcting the Image Shape with Screen Fit" p.41
- "Focusing the Image Using the Focus Button" p.48

Projector Parts - Remote Control



Name		Function
❶	Power button	Turns the projector on or off.
❷	[Computer] button	Switches the image source to the Computer port.
❸	[HDMI/Video] button	Switches the image source between the Video input port and HDMI input port.
❹	[Screen Fit] button	Performs Screen Fit feature to automatically correct the shape and position of images to fit on your screen.
❺	Numeric buttons	Enters numbers in the projector's menu while holding down the [Num] button.
❻	[Focus] buttons (EB-1795F/EB-1785W/EB-1781W)	Adjust the image focus.
❼	[Auto] button	Optimizes **Tracking**, **Sync.**, and **Position** in the projector's **Signal** menu while projecting an analog RGB signal from the Computer port.
❽	[Aspect] button	Changes the aspect mode.
❾	[Num] button	Hold down this button to enter numbers using the numeric buttons.
❿	[Menu] button	Displays and closes the projector's menu.
⓫	Arrow buttons	Selects menu items while displaying the projector's menu or help.
⓬	[Enter] button [↵]	Enters the current selection and moves to the next level while displaying the projector's menu or help. Acts as a mouse's left button when using the Wireless Mouse function.
⓭	[User] button	Performs settings assigned in the **User Button** setting in the projector's **Settings** menu.
⓮	[Page] up/down buttons	Controls page up and down on your computer when you connect a projector and computer using a USB cable or over the network. Displays the previous or next screen while using the PC Free feature.
⓯	[E-Zoom] +/– buttons	Zooms in or zooms out the image area.

Name		Function
⓰	[A/V Mute] button	Turns the video and audio on or off temporarily.
⓱	[Split] button	Projects two images from different image sources simultaneously by splitting the projected screen.
⓲	[Home] button	Displays and closes the Home screen.
⓳	[Freeze] button	Pauses or resumes images.
⓴	[Volume] up/down buttons	Adjusts the speaker volume.
㉑	[Pointer] button	Displays the on-screen pointer.
㉒	[Esc] button	Stops the current function. Moves back to the previous menu level while displaying the projector's menu. Acts as a mouse's right button when using the Wireless Mouse function.
㉓	[ID] button	Hold down this button and press the numeric buttons to select the ID for the projector you want to operate using the remote control.
㉔	[Color Mode] button	Changes the color mode.
㉕	[MHL Menu] button	Displays the settings menu for the device linked to the projector's HDMI port.
㉖	[Gesture] button (EB-1795F/EB-1785W/EB-1781W)	Displays the menu for the Gesture Presenter feature.
㉗	[LAN] button	Switches the image source between the network connected devices.
㉘	[USB] button	Switches the image source between the USB Display and USB-A port.
㉙	[Source Search] button	Switches to the next input source.
㉚	Remote control light emitting area	Outputs remote control signals.

Related Links

- "Image Aspect Ratio" p.52

- "Color Mode" p.54
- "Input Signal Settings - Signal Menu" p.119
- "Projector Setup Settings - Extended Menu" p.123
- "Home Screen" p.32
- "Automatically Correcting the Image Shape with Screen Fit" p.41
- "Using the Remote Control as a Wireless Mouse" p.78
- "Projecting Two Images Simultaneously" p.62
- "Using the Remote Control as a Pointer" p.80
- "Connecting to a Computer for USB Video and Audio" p.20
- "Controlling a Presentation with Your Hands" p.72
- "Focusing the Image Using the Focus Button" p.48
- "Projecting a PC Free Presentation" p.65
- "Using the Projector on a Network" p.91

Setting Up the Projector

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

Related Links

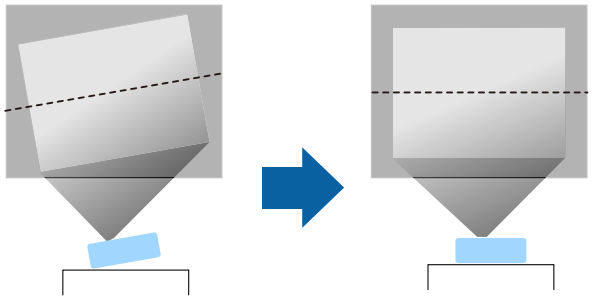
- "Projector Placement" p.18
- "Projector Connections" p.20
- "Installing Batteries in the Remote Control" p.27
- "Opening the Lens Cover" p.29

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

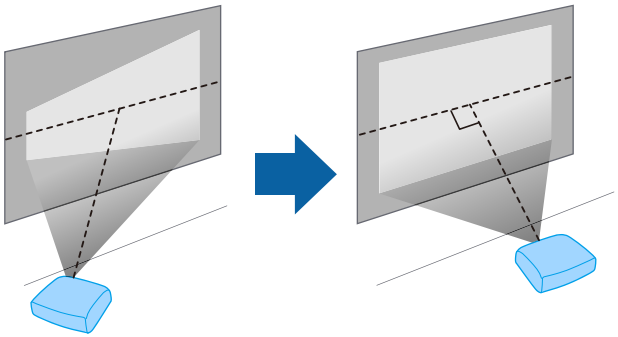
You can also install the projector in a ceiling mount if you want to use it in a fixed location. An optional ceiling mount is required when suspending the projector from a ceiling.

Note the following points when selecting 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 parallel to the screen.



If you cannot install the projector parallel to the screen, correct keystone distortion using the projector controls.

Warning

- 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 ceiling mount fixing points 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 from its ceiling mount. This could cause serious injury to anyone under the ceiling mount and could damage the projector.
- 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 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.

Attention

- Do not operate the projector on its side. This may cause the projector to malfunction.
- If you are using the projector at altitudes above 1500 m, set the **High Altitude Mode** setting to **On** in the projector's **Extended** menu to ensure the projector's internal temperature is regulated properly.
  ☛ **Extended** > **Operation** > **High Altitude Mode**
- Try not to setup the projector in locations subject to high humidity and dust, or in locations subject to smoke from fires or tobacco smoke.

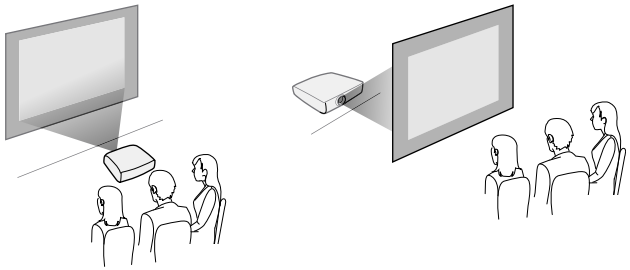
Related Links

- "Projector Setup and Installation Options" p.19
- "Projection Distance" p.19
- "Image Shape" p.41
- "Projector Setup Settings - Extended Menu" p.123

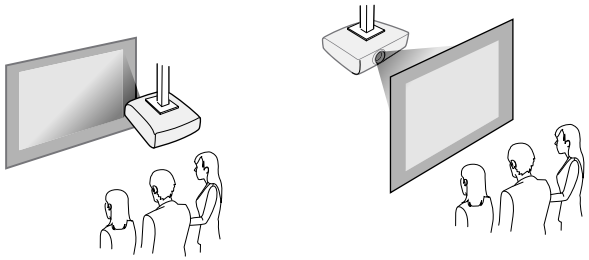
Projector Setup and Installation Options

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

Front/Rear



Front Ceiling/Rear Ceiling



Make sure you select the correct **Projection** option in the projector's **Extended** menu according to the installation method being used.

Related Links

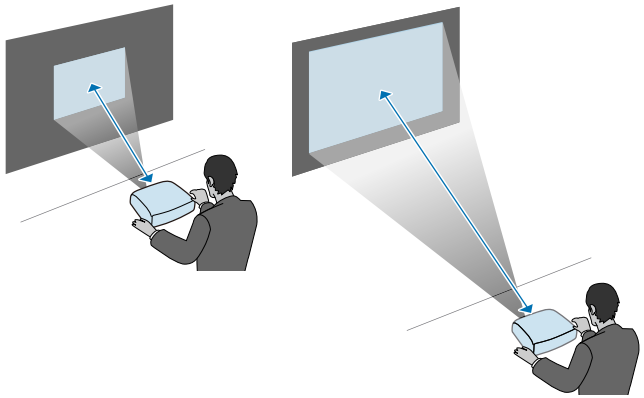
- "Projection Modes" p.38

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.

See the Appendix for details about how far to place the projector from the screen based on the size of the projected image.

When correcting keystone distortion, your image is slightly smaller.



Related Links

- "Screen Size and Projection Distance" p.169

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

Attention
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.

See the *Quick Start Guide* for a list of cables supplied with your projector. Purchase optional or commercially available cables when necessary.

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

Related Links

- "Connecting to a Computer" p.20
- "Connecting to Smartphones or Tablets" p.22
- "Connecting to Video Sources" p.23
- "Connecting to External USB Devices" p.25
- "Connecting to a Document Camera" p.26

Connecting to a Computer

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

Related Links

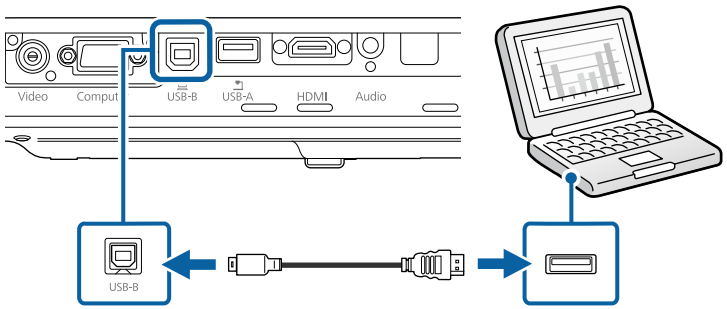
- "Connecting to a Computer for USB Video and Audio" p.20
- "Connecting to a Computer for VGA Video and Audio" p.21
- "Connecting to a Computer for HDMI Video and Audio" p.22

Connecting to a Computer for USB Video and Audio

If your computer meets the system requirements, you can send video and audio output to the projector through the computer's USB port. This function is called USB Display. Connect the projector to your computer using a USB cable.

- If you use a USB hub, the connection may not operate correctly. Connect the USB cable directly to the projector.

1. In the projector's **Extended** menu, set the **USB Type B** setting to **USB Display**.
2. Connect the cable to your projector's USB-B port.



3. Connect the other end to any available USB port on your computer.
4. Turn on the projector and your computer.
5. Do one of the following to install the Epson USB Display software:

You only need to install this software the first time you connect the projector to the computer.

- Windows: Select **Run EMP_UDSE.EXE** in the dialog box that is displayed to install the Epson USB Display software.
- OS X: The Epson USB Display setup folder is displayed on your screen. Select **USB Display Installer** and follow the on-screen instructions to install the Epson USB Display software. If the USB Display **Setup** folder is not displayed automatically, double-click **EPSON_PJ_UD** > **USB Display Installer**.

6 Follow any on-screen instructions.

Do not disconnect the USB cable or turn off the projector until the projector displays an image.

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

- If the projector does not project any images, do one of the following:
  - Windows: Click **All Programs** > **EPSON Projector** > **Epson USB Display** > **Epson USB Display Ver.x.xx**.
  - OS X: Double-click the **USB Display** icon in the **Application** folder.
- When you finish projection, do one of the following:
  - Windows: Disconnect the USB cable. You do not need to operate **Safely Remove Hardware**.
  - OS X: Select **Disconnect** from the **USB Display** icon menu on the menu bar or **Dock**, and then disconnect the USB cable.

Related Links

- "USB Display System Requirements" p.176

Connecting to a Computer for VGA Video and Audio

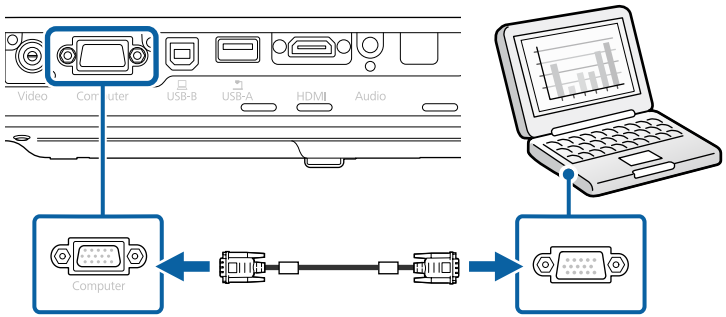
You can connect the projector to your computer using a VGA computer cable.

You can play sound through the projector's speaker system by connecting a commercially available 3.5 mm stereo mini-jack audio cable.

- To connect a Mac that does not have a VGA video port, you need an adapter that allows you to connect to the projector's VGA video port.
- Make sure the audio cable is labeled "No resistance".

1 Connect the VGA computer cable to your computer's monitor port.

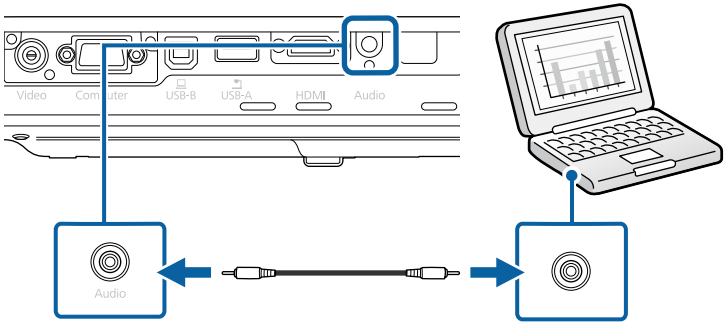
2 Connect the other end to a Computer port on the projector.



3 Tighten the screws on the VGA connector.

4 Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.

5 Connect the other end to the projector's Audio port.



Related Links
- "Projector Setup Settings - Extended Menu" p.123

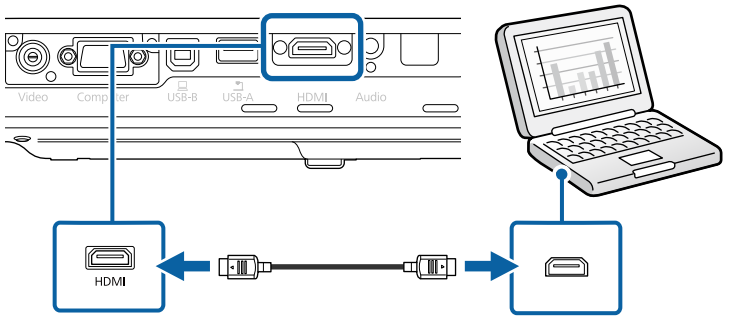
Connecting to a Computer for HDMI Video and Audio

If your computer has an HDMI port, you can connect it to the projector using an HDMI cable and send the computer's audio with the projected image.

> To connect a Mac that does not have an HDMI port, you need an adapter that allows you to connect to the projector's HDMI port. Contact Apple for compatible adapter options. Older Mac computers (2009 and earlier) may not support audio through the HDMI port.

1 Connect the HDMI cable to your computer's HDMI output port.

2 Connect the other end to the projector's HDMI port.



> If you have problems hearing audio through the HDMI connection, connect one end of a commercially available 3.5 mm stereo mini-jack audio cable to the projector's Audio port and the other end to your computer's audio out port. Select the audio input port you connected to in the projector's **Extended** menu.
>
> ☛ **Extended** > **A/V Settings** > **HDMI Audio Output**

Related Links
- "Projector Setup Settings - Extended Menu" p.123

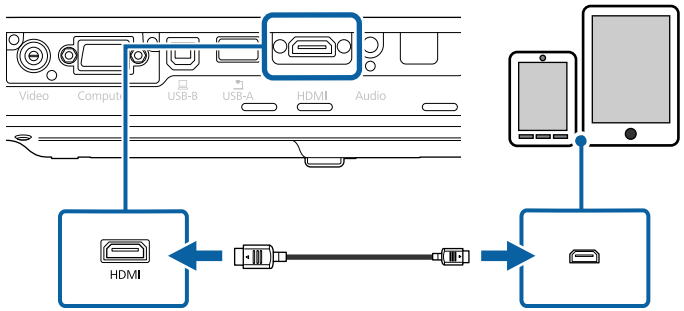
Connecting to Smartphones or Tablets

You can connect the projector to smartphones and tablets using a MHL cable and send the audio with the projected image.

> - You may not be able to project correctly, depending on the model and settings of the smartphone or tablet.
> - You may not be able to connect an MHL cable to all devices. Contact the manufacturer of your smartphone or tablet device to check if your device supports MHL.

1 Connect the MHL cable to your device's Micro-USB port.

2 Connect the other end to the projector's HDMI port.



Attention
If you connect an MHL cable that does not support the MHL standards, the smartphone or tablet device may become hot, or leakage or explosion may happen.

The connected smartphone or tablet begins charging when images are projected. If you connect using a MHL-HDMI conversion adapter, charging the smartphone or tablet device may not work or you may not be able to perform operations using the projector's remote control.

- Charging may not work when using a lot of power, such as when playing a movie.
- Charging does not work when the projector is in standby mode or the battery in a smartphone or tablet is depleted.

If images are not projected correctly, disconnect and then reconnect the MHL cable.

Connecting to Video Sources

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

- If the port on the device you connect has an unusual shape, use the cable supplied with the device or an optional cable to connect to the projector.
- The cable differs depending on the output signal from the connected video devices.
- 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.

Related Links

- "Connecting to an HDMI Video Source" p.23
- "Connecting to a Component-to-VGA Video Source" p.24
- "Connecting to a Composite Video Source" p.25

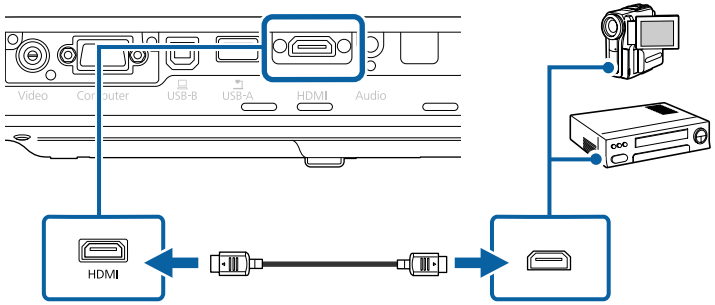
Connecting to an HDMI Video Source

If your video source has an HDMI port, you can connect it to the projector using an HDMI cable and send the image source's audio with the projected image.

Attention
Do not turn on the video source before connecting it to the projector. Doing so could damage the projector.

1 Connect the HDMI cable to your video source's HDMI output port.

2 Connect the other end to the projector's HDMI port.



If you have problems hearing audio through the HDMI connection, connect one end of a commercially available 3.5 mm stereo mini-jack audio cable to the projector's Audio port and the other end to your video source's audio out port. Select the audio input port you connected to in the projector's **Extended** menu.

☛ **Extended** > **A/V Settings** > **HDMI Audio Output**

Related Links

- "Projector Setup Settings - Extended Menu" p.123

Connecting to a Component-to-VGA Video Source

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

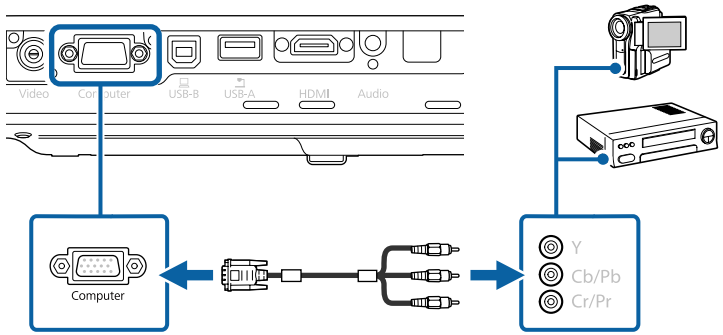
You can play sound through the projector's speaker system by connecting a stereo mini-jack audio cable.

- Make sure the audio cable is labeled "No resistance".

1 Connect the component connectors to your video source's color-coded component video output ports.

The ports usually labeled Y, Pb, Pr or Y, Cb, Cr. If you are using an adapter, connect these connectors to your component video cable.

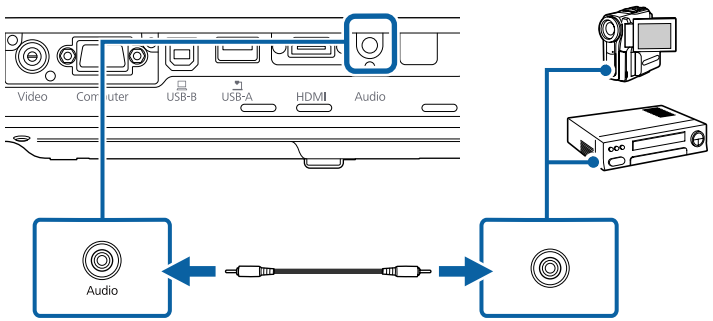
2 Connect the VGA connector to a Computer port on the projector.



3 Tighten the screws on the VGA connector.

4 Connect the audio cable to your video source's audio-out ports.

5 Connect the other end to the projector's Audio port.



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

☛ **Signal** > **Advanced** > **Input Signal**

Related Links

- "Input Signal Settings - Signal Menu" p.119
- "Projector Setup Settings - Extended Menu" p.123

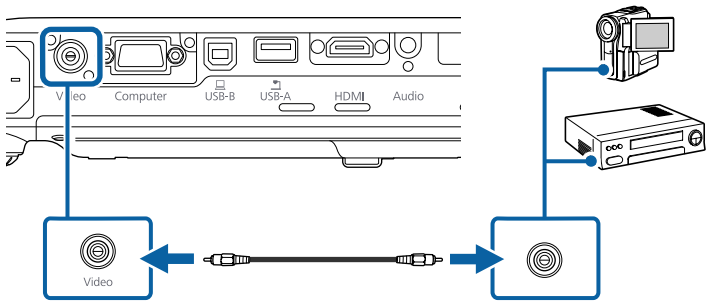
Connecting to a Composite Video Source

If your video source has a composite video port, you can connect it to the projector using a RCA-style video or A/V cable.

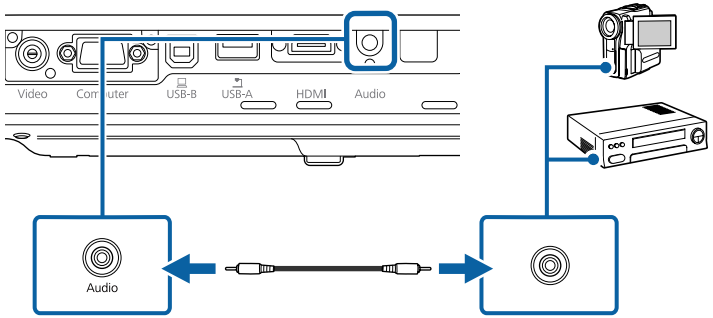
You can play sound through the projector's speaker system by connecting a stereo mini-jack audio cable.

> Make sure the audio cable is labeled "No resistance".

1. Connect the cable with the yellow connector to your video source's yellow video output port.
2. Connect the other end to the projector's Video port.



3. Connect the audio cable to your video source's audio-out ports.
4. Connect the other end to the projector's Audio port.



Connecting to External USB Devices

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

Related Links

- "USB Device Projection" p.25
- "Connecting to a USB Device" p.26
- "Disconnecting a USB Device" p.26

USB Device Projection

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

- USB flash drive
- Digital camera or smartphone
- USB hard drive
- Multimedia storage viewer

- Digital cameras or smartphones must be USB-mounted devices, not TWAIN-compliant devices, and must be USB Mass Storage Class-compliant.
- USB hard drives must meet these requirements:
  - USB Mass Storage Class-compliant (not all USB Mass Storage Class devices are supported)
  - Formatted in FAT or FAT32
  - Self-powered by their own AC power supplies (bus-powered hard drives are not recommended)
  - Avoid using hard drives with multiple partitions

You can project slide shows from image files on a connected USB device.

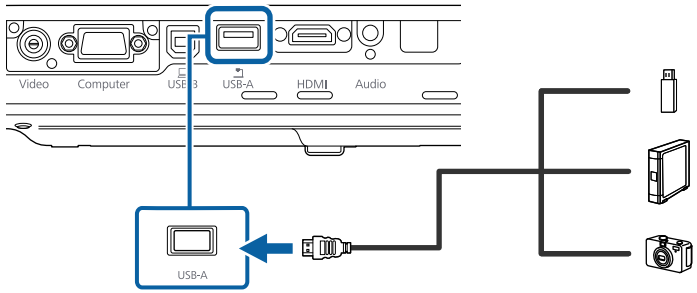
Related Links

- "Projecting a PC Free Presentation" p.65

Connecting to a USB Device

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

1. If your USB device came with a power adapter, plug the device into an electrical outlet.
2. Connect the USB cable or USB flash drive to the projector's USB-A port as shown.



Attention

- Use the USB cable supplied with or specified for use with the device.
- Do not connect a USB hub or a USB cable longer than 3 meters, or the device may not operate correctly.

3. Connect the other end to your device, if necessary.

Disconnecting a USB Device

When you have finished presenting with a connected USB device, disconnect the device from the projector.

1. Turn off and unplug the device, if necessary.
2. Disconnect the USB device from the projector.

Connecting to a Document Camera

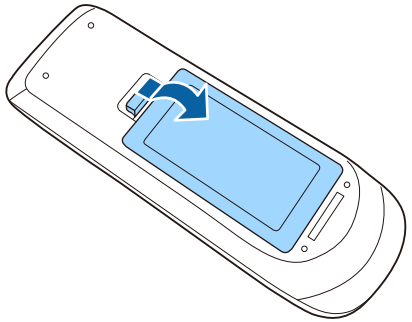
You can connect a document camera to your projector to project images viewed by the camera.

The connection method varies depending on your Epson document camera model. See the document camera manual for details.

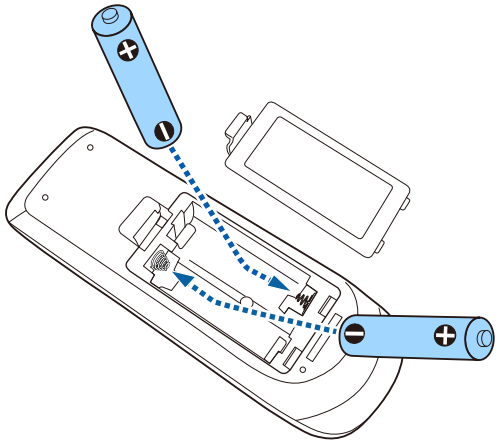
The remote control uses the two AA batteries that came with the projector.

Attention
Make sure you read the *Safety Instructions* before handling the batteries.

1 Remove the battery cover as shown.



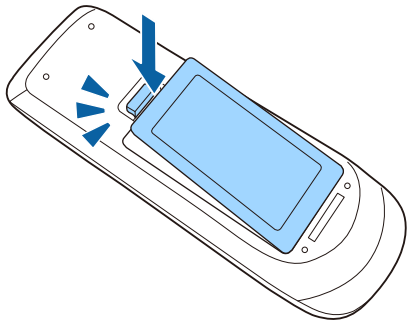
2 Insert the batteries with the + and – ends facing as shown.



Warning

Check the positions of the (+) and (–) marks inside the battery holder to ensure the batteries are inserted the correct way. If the batteries are not used 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.

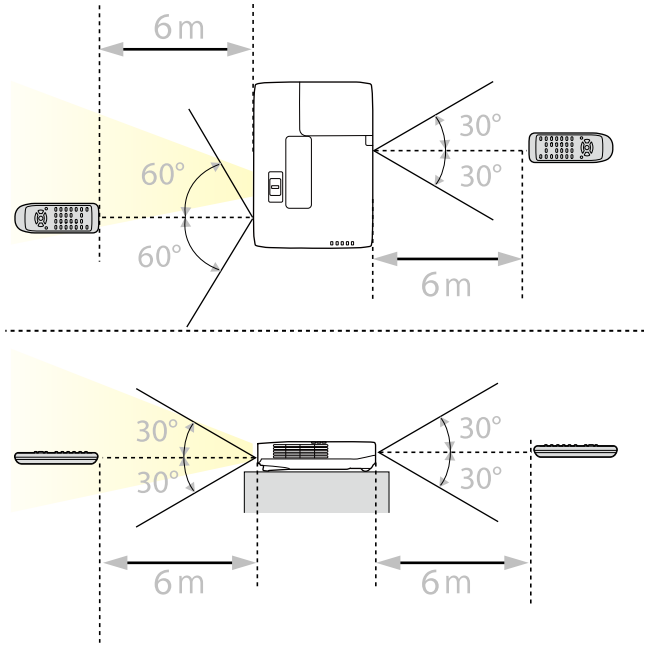


Related Links
- "Remote Control Operation" p.27

Remote Control Operation

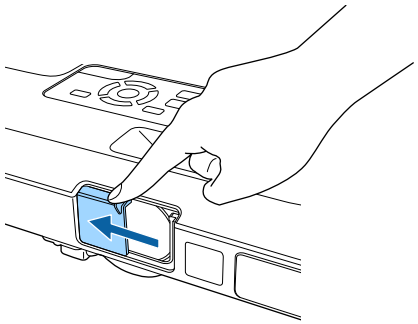
The remote control lets you control the projector from almost anywhere in the room.

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



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 are not going to use the remote control for a long time, remove the batteries.

1. To open the projector's lens cover, slide the A/V Mute slide lever until it clicks.



2. To cover the lens or temporarily turn off the projected image and sound, close the lens cover.

Using Basic Projector Features

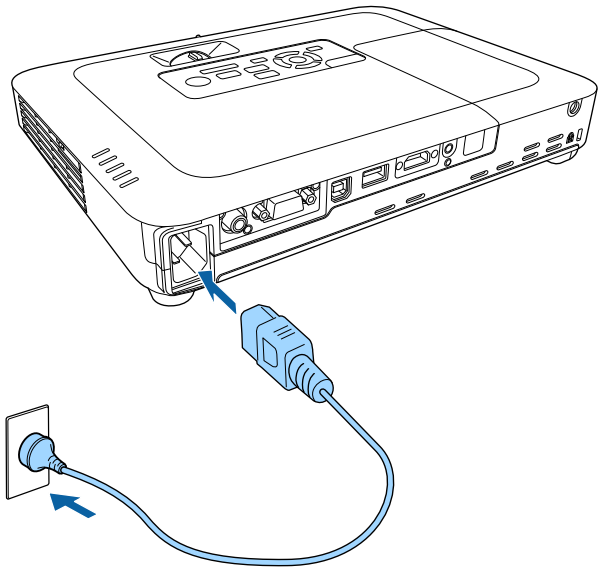
Follow the instructions in these sections to use your projector's basic features.

Related Links

- "Turning On the Projector" p.31
- "Turning Off the Projector" p.34
- "Setting the Date and Time" p.35
- "Selecting the Language for the Projector Menus" p.37
- "Projection Modes" p.38
- "Adjusting the Image Height" p.40
- "Image Shape" p.41
- "Resizing the Image with the Zoom Ring" p.47
- "Focusing the Image Using the Focus Button" p.48
- "Focusing the Image Using the Focus Ring" p.49
- "Selecting an Image Source" p.50
- "Image Aspect Ratio" p.52
- "Color Mode" p.54
- "Adjusting the Image Color" p.56
- "Controlling the Volume with the Volume Buttons" p.60

Turn on the computer or video equipment you want to use after you turn on the projector.

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

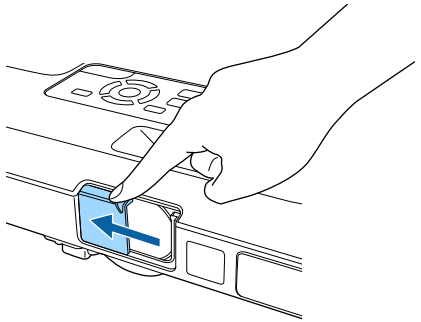


The projector's power indicator turns blue. This indicates that the projector is receiving power, but is not yet turned on (it is in standby mode).

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

The projector beeps and the status indicator flashes blue as the projector warms up. Once the projector is warmed up, the status indicator stops flashing and turns blue.

3 Open the projector's lens cover.



Try the following if you do not see a projected image.

- Verify the lens cover is open all the way.
- Turn on the connected computer or video device.
- Change the screen output from the computer when using a laptop computer.
- Insert a DVD or other video media, and press play (if necessary).
- Press the [Source Search] button on the control panel or remote control to detect the source.
- Press the button for the desired video source on the remote control.
- If the Home screen is displayed, select the source you want to project.

⚠ Warning

- Never look into the projector lens when the lamp is on. This can damage your eyes and is especially dangerous for children.
- When turning on the projector at a distance using the remote control, make sure there is no one 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, use the A/V Mute function, or turn off the projector.
- A mercury lamp with high internal pressure is used as the projector's light source. If the lamp is subjected to vibrations or shocks, or if it is used for an overly extended length of time, the lamp may break or it may not turn on. If the lamp explodes, gases may escape and small fragments of glass may be scattered which could cause an injury. Be sure to observe the instructions below.
  - Do not disassemble or damage the lamp or subject it to any impacts.
  - Do not bring your face close to the projector while it is in use.
  - Particular care should be taken when the projector is installed to a ceiling, as small pieces of glass may fall down when the lamp cover is removed. When cleaning the projector or replacing the lamp yourself, be very careful not to allow such pieces of glass to get into the eyes or mouth.

  If the lamp breaks, ventilate the area immediately, and contact a doctor if any fragments of broken glass are inhaled or get into the eyes or mouth.

- When the **Direct Power On** setting is set to **On** in the projector's **Extended** menu, the projector turns on as soon as you plug it in. Note that the projector also turns on automatically in cases such as recovery from a power outage.
  ☛ **Extended** > **Operation** > **Direct Power On**
- If you select a specific port as the **Auto Power On** setting in the projector's **Extended** menu, the projector turns on as soon as it detects a signal or cable connection from that port.
  ☛ **Extended** > **Operation** > **Auto Power On**

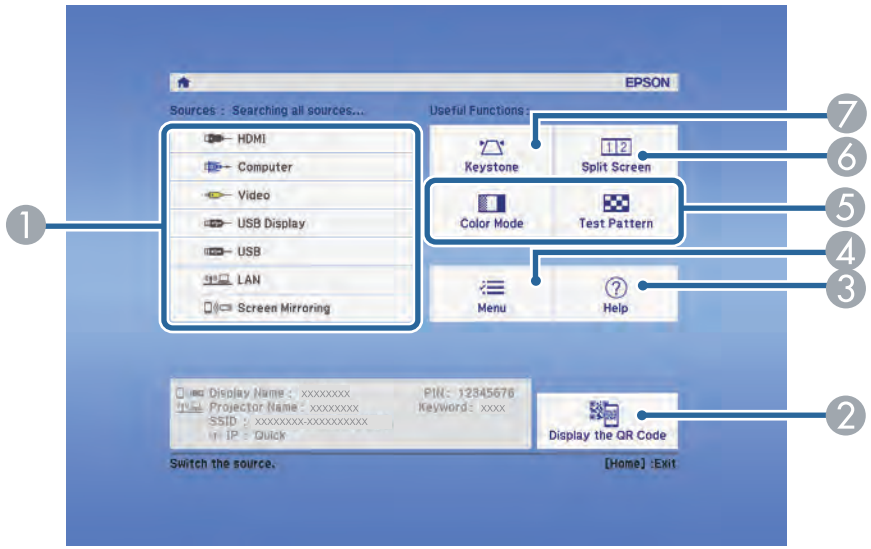
Related Links

- "Home Screen" p.32
- "Projector Setup Settings - Extended Menu" p.123
- "Projector Setup Settings - ECO Menu" p.131

Home Screen

The Home screen feature allows you to easily select an image source and access useful functions. You can display the Home screen by pressing the [Home] button on the control panel or remote control. The Home screen is also displayed when you turn on the projector and no signal is being input from the selected input source.

Press the arrow buttons on the control panel or remote control to select a menu item, and then press [Enter].



1. Selects the source you want to project.
2. Displays the QR code that can be recognized by Epson iProjection to project data on a smartphone or tablet device.
3. Displays the Help screen.

4. Displays the projector's menu.
5. Performs menu options assigned to **Home Screen** in the projector's **Extended** menu.
6. Projects two images from different image sources simultaneously by splitting the projected screen.
7. Corrects the shape of an image that is an uneven rectangle.

> The Home screen disappears after 10 minutes of inactivity.

Related Links

- "Image Shape" p.41
- "Projector Setup Settings - Extended Menu" p.123
- "Using a QR Code to Connect a Mobile Device" p.97
- "Using the Projector's Menus" p.115
- "Using the Projector Help Displays" p.155
- "Projecting Two Images Simultaneously" p.62

Turn off the projector after use.

- Turn off this product when it is not in use to prolong the life of the projector. Lamp life varies depending on the mode selected, environmental conditions, and usage. Brightness decreases over time.
- Since the projector supports the direct shutdown feature, it can be turned off directly using the breaker.

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

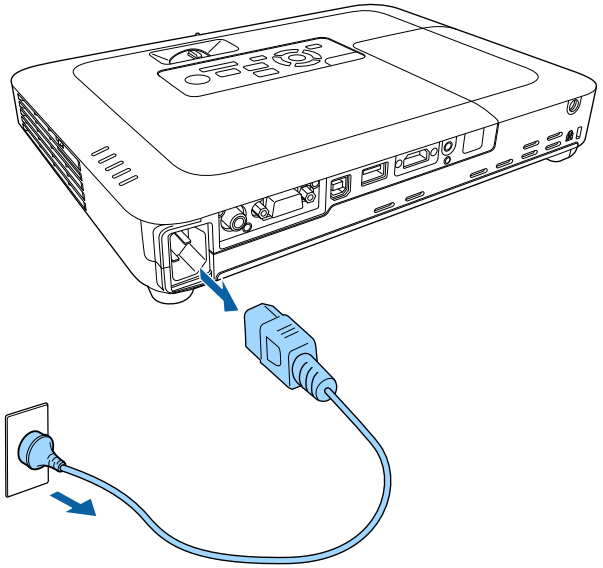
The projector displays a shutdown confirmation screen.

2 Press the power button again. (To leave it on, press any other button.)

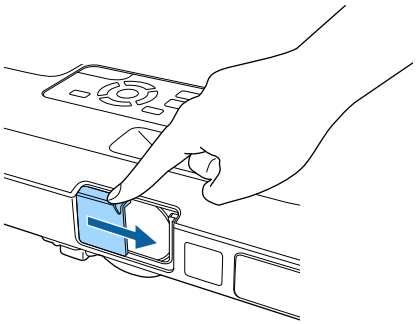
The projector beeps twice, the lamp turns off, and the status indicator turns off.

With Epson's Instant Off technology, there is no cool-down period so you can pack up the projector for transport right away.

3 To transport or store the projector, make sure the power indicator is blue (but not flashing) and the status indicator is off, then unplug the power cord.

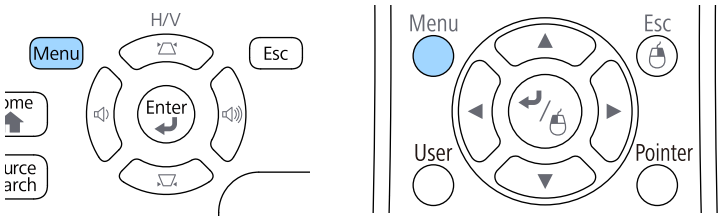


4 Close the projector's lens cover.

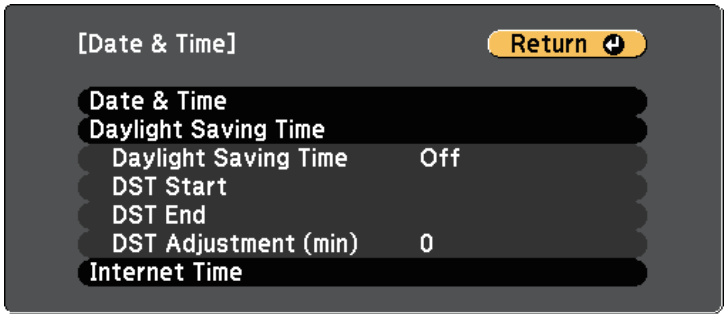


You can set the date and time for the projector (EB-1795F/EB-1785W/EB-1781W).

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

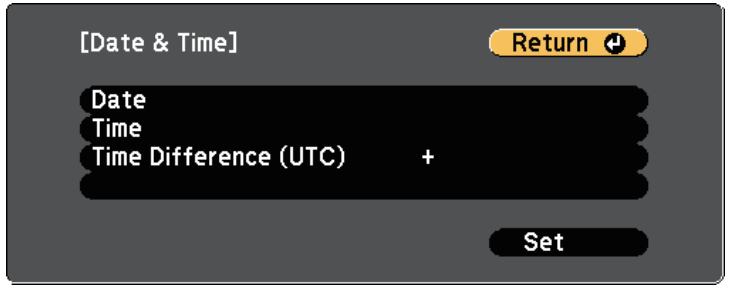


3. Select the **Extended** menu and press [Enter].
4. Select the **Operation** setting and press [Enter].
5. Select the **Date & Time** setting and press [Enter].
   You see this screen:



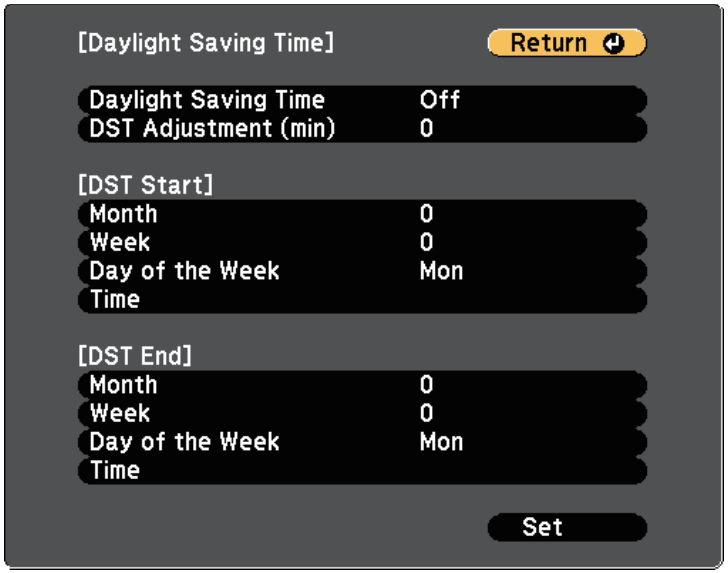
6. Select the **Date & Time** setting and press [Enter].

You see this screen:



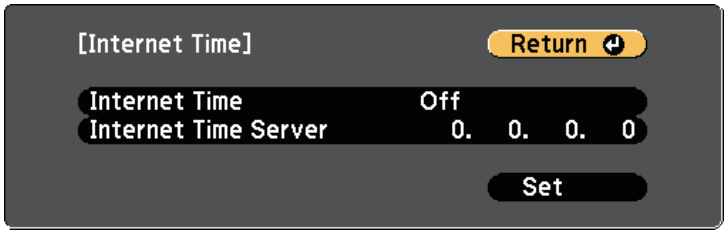
7. Select **Date**, press [Enter], and use the displayed keyboard to enter today's date.
8. Select **Time**, press [Enter], and use the displayed keyboard to enter the current time.
9. Select **Time Difference (UTC)**, press [Enter], and set the time difference from Coordinated Universal Time.
10. When you are finished, select **Set** and press [Enter].

11 To activate daylight saving time, select the **Daylight Saving Time** setting and press [Enter]. Then select settings.



12 When you are finished, select **Set** and press [Enter].

13 To update the time automatically through an Internet time server, select the **Internet Time** setting and press [Enter]. Then select settings.

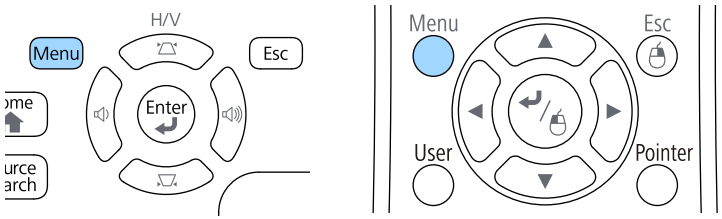


14 When you are finished, select **Set** and press [Enter].

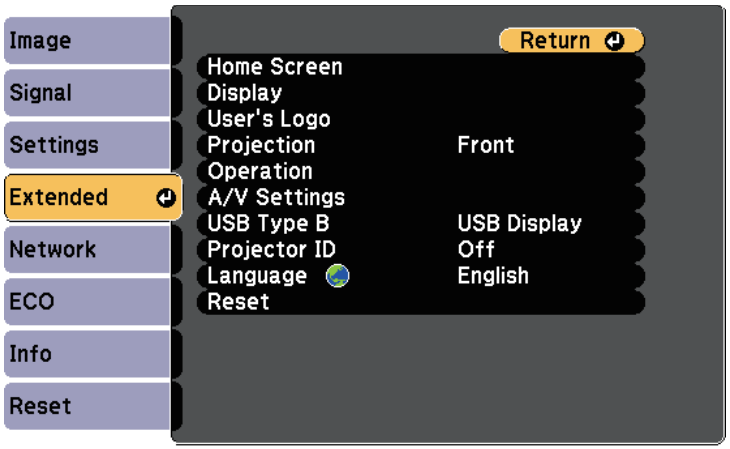
15 Press [Menu] or [Esc] to exit the menus.

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

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



3. Select the **Extended** menu and press [Enter].



4. Select the **Language** setting and press [Enter].
5. Select the language you want to use and press [Enter].
6. Press [Menu] or [Esc] to exit the menus.

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 a ceiling or wall mount and behind a translucent screen.

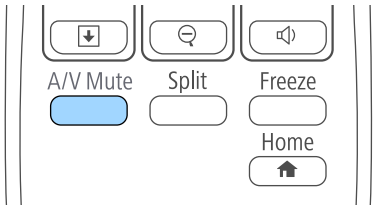
Related Links

- "Changing the Projection Mode Using the Remote Control" p.38
- "Changing the Projection Mode Using the Menus" p.38
- "Projector Setup and Installation Options" p.19

Changing the Projection Mode Using the Remote Control

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

1. Turn on the projector and display an image.
2. Hold down the [A/V Mute] button on the remote control for 5 seconds.



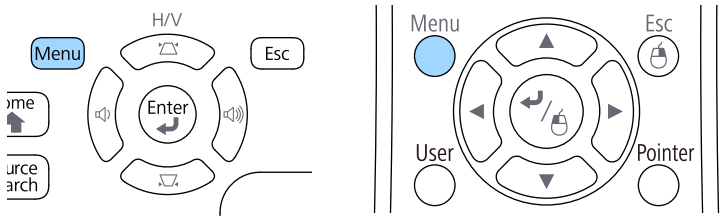
The image disappears briefly and reappears flipped top-to-bottom.

3. To change projection back to the original mode, hold down the [A/V Mute] button for 5 seconds again.

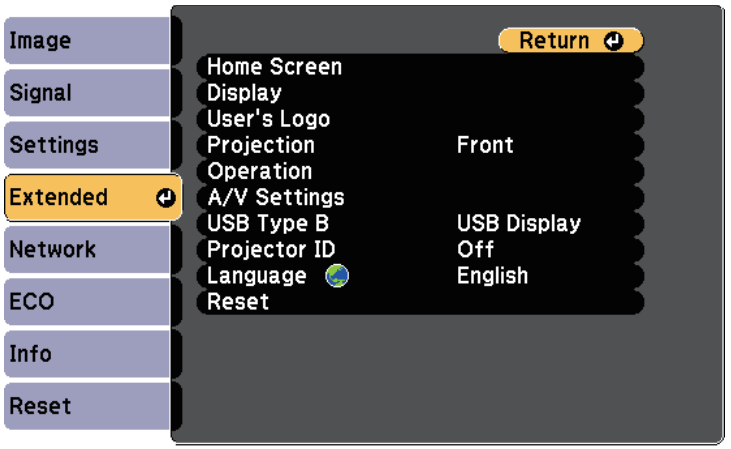
Changing the Projection Mode Using the Menus

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

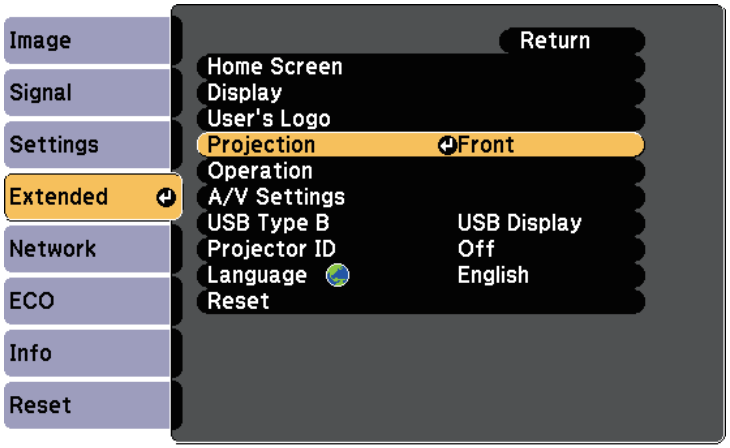
1. Turn on the projector and display an image.
2. Press the [Menu] button on the control panel or remote control.



3. Select the **Extended** menu and press [Enter].



4 Select **Projection** and press [Enter].



5 Select a projection mode and press [Enter].

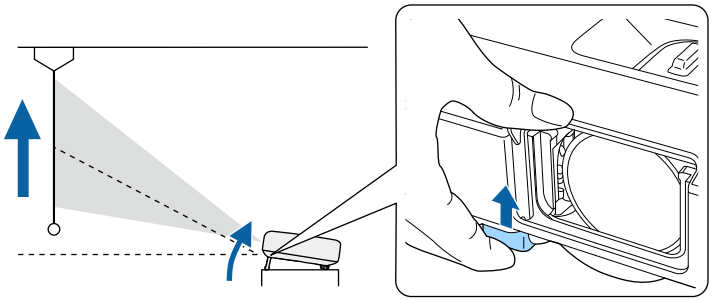
6 Press [Menu] or [Esc] to exit the menus.

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

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. To adjust the front foot, pull up on the foot release lever and lift the front of the projector.

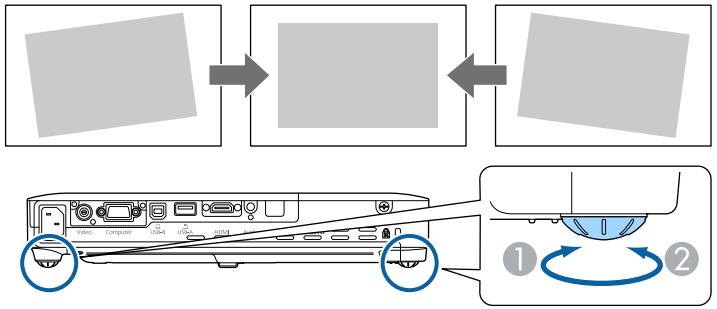


The foot extends from the projector.

You can adjust the position up to 14 degrees.

3. Release the lever to lock the foot.

4. If the image is tilted, rotate the rear feet to adjust their height.



❶ Extend the rear foot

❷ Retract the rear foot

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

Related Links

- "Image Shape" p.41

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.

Related Links

- "Auto H/V-Keystone" p.41
- "Auto V-Keystone" p.41
- "Automatically Correcting the Image Shape with Screen Fit" p.41
- "Correcting the Image Shape with the Keystone Buttons" p.43
- "Correcting the Image Shape with Quick Corner" p.44

Auto H/V-Keystone

When the projector is moved or tilted, Auto H/V-Keystone automatically corrects any vertical and horizontal keystone distortion (EB-1795F/EB-1785W/EB-1781W).

When the projector is moved, it displays an adjustment screen and then automatically corrects the projected image.

Auto H/V-Keystone can correct the projected image distortion in these conditions:

- Screen size is 100 inches or less
- Projection distance is about 0.7 to 2.3 m
- Projection angle is about 20° right or left, or 30° up or down
- The **Projection** setting is set to **Front** in the projector's **Extended** menu

If you do not want to use the Auto H/V-Keystone function, set **Auto H/V-Keystone** to **Off** in the projector's **Settings** menu.

☛ **Settings** > **Keystone** > **H/V-Keystone** > **Auto H/V-Keystone**

Related Links

- "Projection Modes" p.38
- "Projector Setup Settings - Extended Menu" p.123
- "Projector Feature Settings - Settings Menu" p.121

Auto V-Keystone

When the projector is moved or tilted, Auto V-Keystone automatically corrects any vertical keystone distortion (EB-1780W).

Auto V-Keystone can correct the projected image distortion in these conditions:

- Projection angle is about 30° up or down
- The **Projection** setting is set to **Front** in the projector's **Extended** menu

If you do not want to use the Auto V-Keystone function, set **Auto V-Keystone** to **Off** in the projector's **Settings** menu.

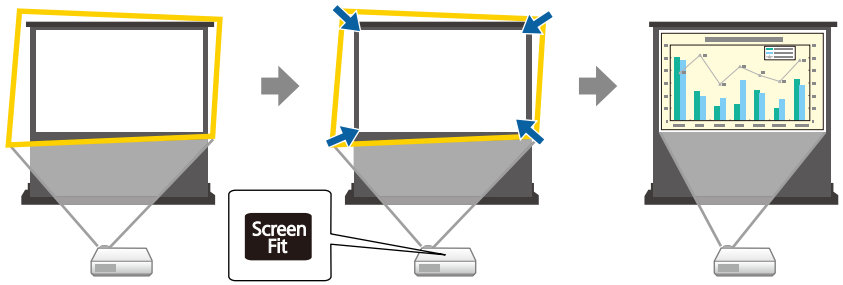
☛ **Settings** > **Keystone** > **H/V-Keystone** > **Auto V-Keystone**

Related Links

- "Projection Modes" p.38
- "Projector Setup Settings - Extended Menu" p.123
- "Projector Feature Settings - Settings Menu" p.121

Automatically Correcting the Image Shape with Screen Fit

You can use the projector's Screen Fit feature to automatically correct the shape and position of images to fit on your screen (EB-1795F/EB-1785W/EB-1781W).

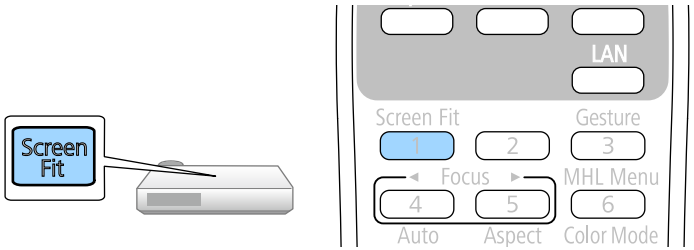


The projector's sensor can detect the screen size and shape in these conditions:

- Screen size is 100 inches or less
- Projection distance is about 1.0 to 2.5 m
- Projection angle is about 20º right or left, or 30º up or down
- The room is not too dark
- The projection surface is not patterned and does not deflect the sensor in some way

1 Turn on the projector and display an image.

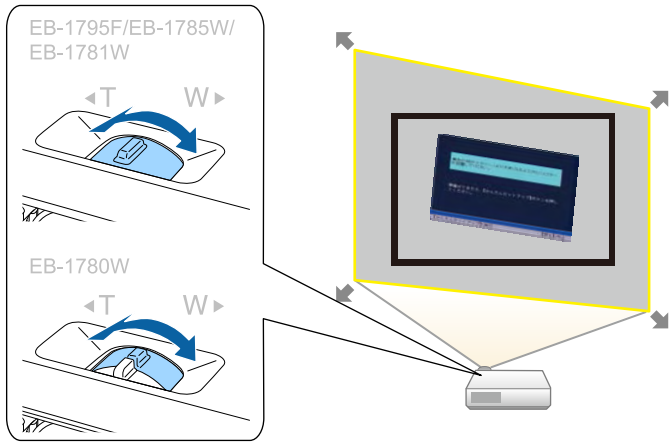
2 Press the [Screen Fit] button on the control panel or remote control.



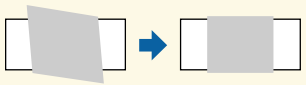
You see a message on the screen.

3 Move the projector as necessary to display the message in the middle of the screen.

4 Zoom into the image until the yellow frame extends beyond the edges of the screen.



- If the yellow frame is still within the screen frame after zooming in all the way, move the projector farther away from the screen.
- For example, when you project onto a wide screen in a small room and you cannot extend the yellow frame beyond the screen frame, the yellow frame must include at least the top and bottom two sides of the screen so that Screen Fit detects the screen height and adjusts the image to fit the screen.



5 Press the [Screen Fit] button again.

After the adjustment screen appears, do not move the projector or block the image. The projected image is corrected according to the aspect ratio of the image being input and this message appears.

6 Fine-tune the image shape as necessary using the keystone adjustment buttons on the control panel.

If no operations are performed, the message closes after about 7 seconds.

7 When you are finished, press [Esc].

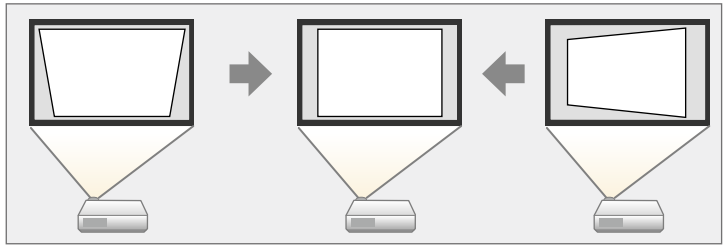
The **Keystone** setting is now set to **Quick Corner** in the projector's **Settings** menu. If necessary, you can correct the image corners individually using Quick Corner by pressing the arrow buttons on the control panel.

Related Links

- "Projector Feature Settings - Settings Menu" p.121
- "Correcting the Image Shape with Quick Corner" p.44

Correcting the Image Shape with the Keystone Buttons

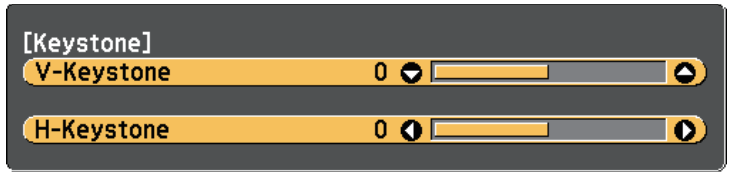
You can use the projector's keystone correction buttons to correct the shape of an image that is unevenly rectangular.



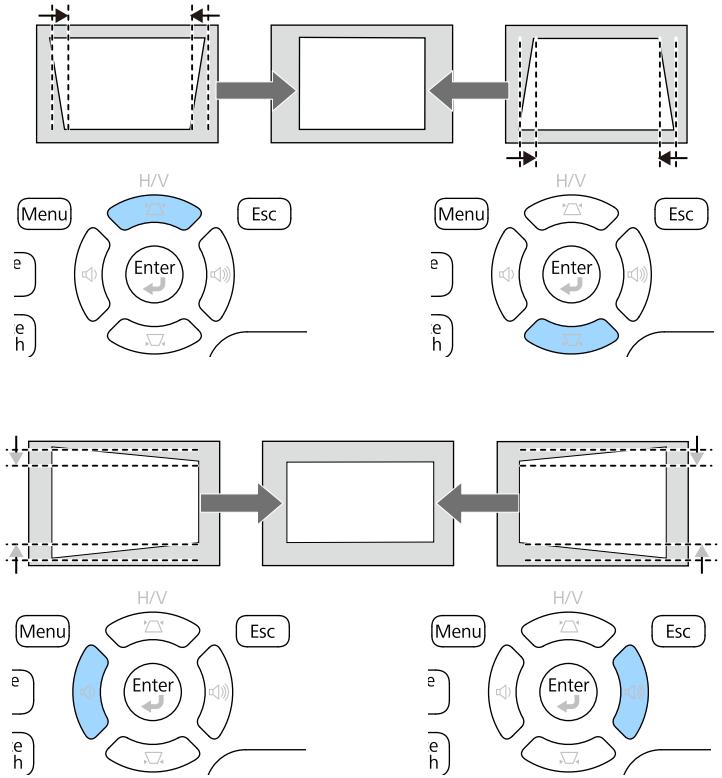
You can use keystone buttons to correct images up to 30º right or left, or 45º up or down.

1 Turn on the projector and display an image.

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



3 Press a keystone button to adjust the image shape.



After correction, your image is slightly smaller.

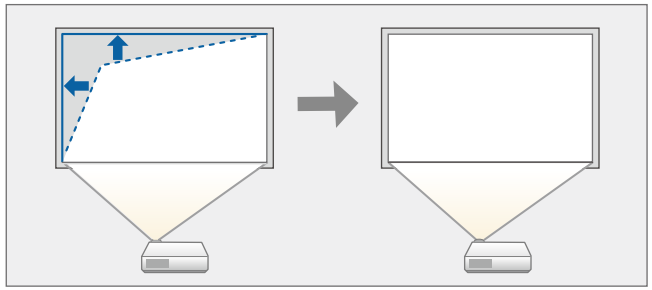
> If the projector is installed out of your reach, you can also correct the shape of the image using the remote control.
> ☛ **Settings** > **Keystone** > **H/V-Keystone**

Related Links

- "Projector Feature Settings - Settings Menu" p.121

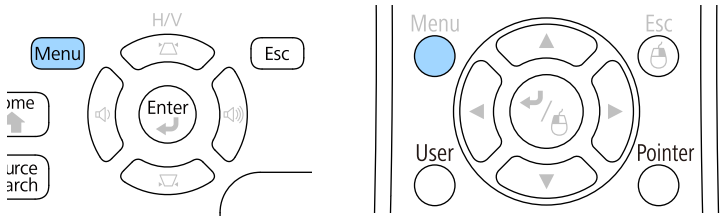
Correcting the Image Shape with Quick Corner

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

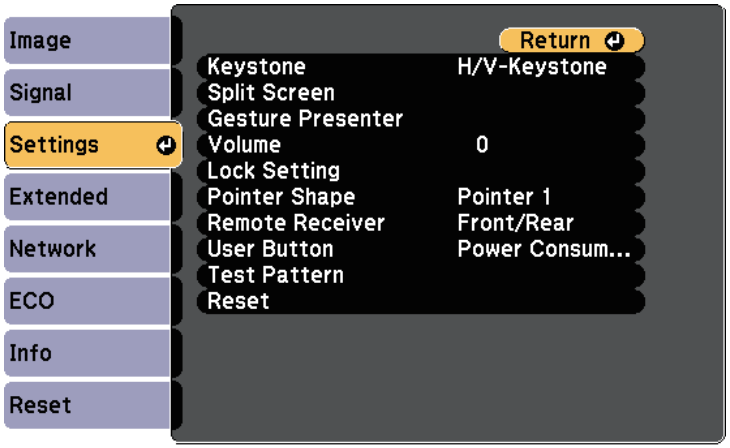


1 Turn on the projector and display an image.

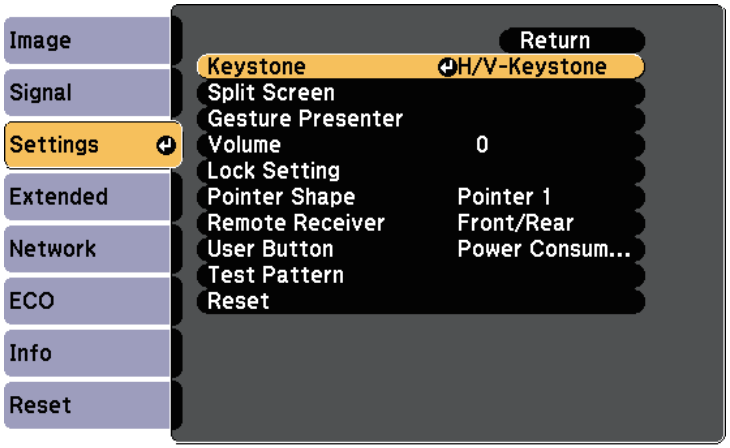
2 Press the [Menu] button on the control panel or remote control.



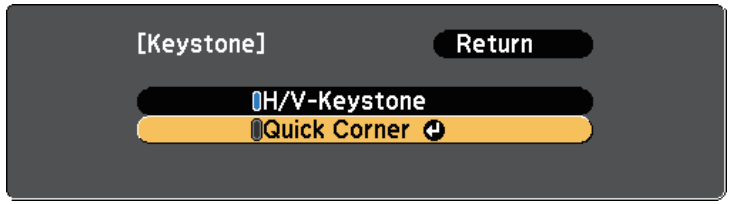
3 Select the **Settings** menu and press [Enter].



4 Select **Keystone** and press [Enter].

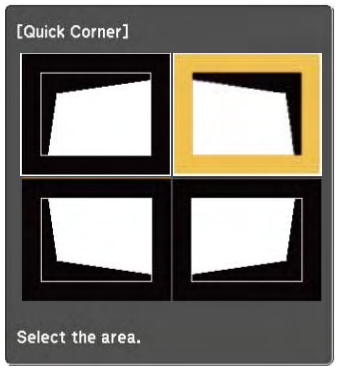


5 Select **Quick Corner** and press [Enter]. Press [Enter] again if necessary.



You see the area selection screen.

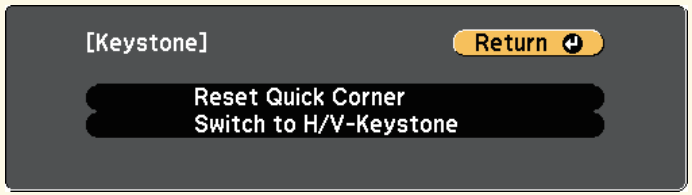
6 Use the arrow buttons to select the corner of the image you want to adjust. Then press [Enter].



7 Press the arrow buttons to adjust the image shape as necessary.
To return to the area selection screen, press [Enter].

- If you see this screen, you cannot adjust the shape any further in the direction indicated by the gray triangle.

- To reset the Quick Corner corrections, hold down [Esc] for about 2 seconds while the Quick Corner adjustment screen is displayed, and select **Reset Quick Corner**. Select **Switch to H/V-Keystone** to switch the image shape correction method to H/V-Keystone.



8 Repeat steps 6 and 7 as needed to adjust any remaining corners.

9 When you are finished, press [Esc].

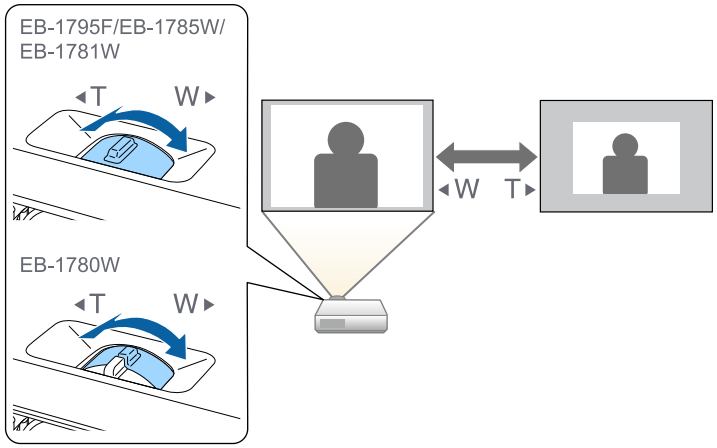
The **Keystone** setting is now set to **Quick Corner** in the projector's **Settings** menu. The next time you press the keystone adjustment buttons on the control panel, the area selection screen is displayed.

Related Links

- "Projector Feature Settings - Settings Menu" p.121

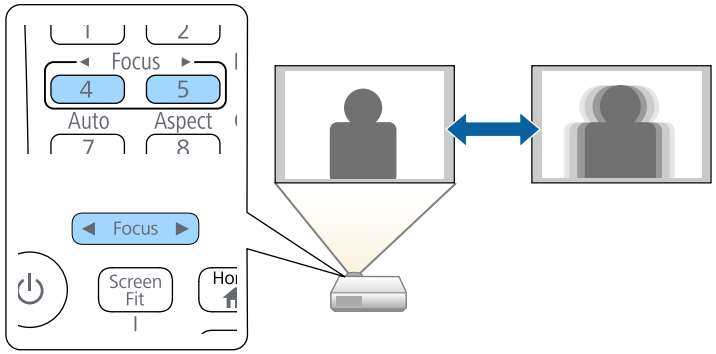
You can resize the image using the projector's zoom ring.

1. Turn on the projector and display an image.
2. Rotate the zoom ring to enlarge or reduce the image.



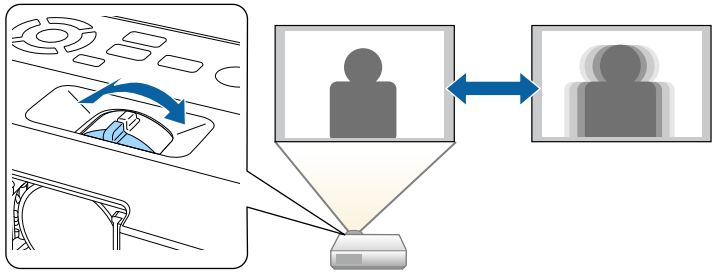
Focusing the Image Using the Focus Button

You can correct the focus by pressing the [Focus] buttons on the projector or remote control (EB-1795F/EB-1785W/EB-1781W).



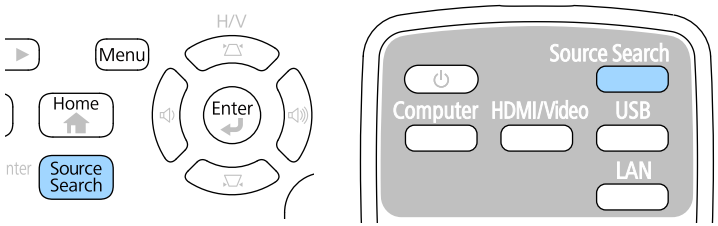
Focusing the Image Using the Focus Ring

You can correct the focus using the focus ring (EB-1780W).

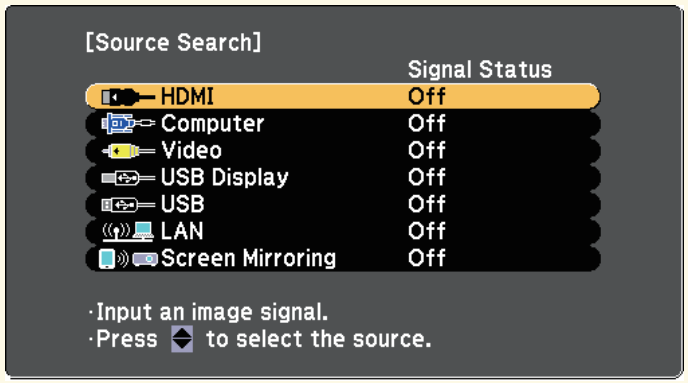


When multiple image sources are connected to the projector, such as a computer and DVD player, you can switch from one image source to the other.

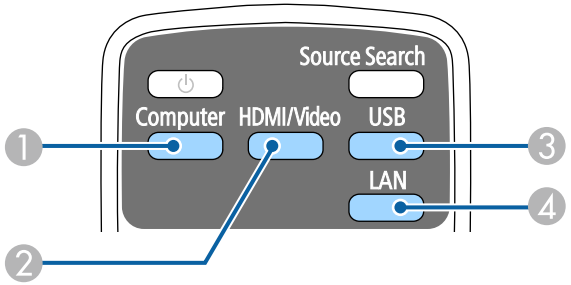
1. Make sure the connected image source you want to use is turned on.
2. For video image sources, insert a DVD or other video media and press play.
3. Do one of the following:
   - Press the [Source Search] button on the control panel or remote control until you see the image from the source you want.



This screen is displayed when no image signal is detected. Check the cable connections between the projector and image source.

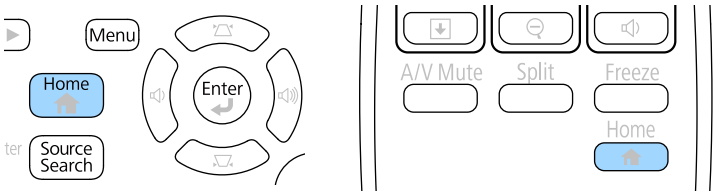


- Press the button for the source you want on the remote control. If there is more than one port for that source, press the button again to cycle through the sources.



1. Computer port source (Computer port)
2. Video, HDMI, and MHL sources (Video and HDMI ports)
3. USB port sources (USB-B port and external devices connected to the USB-A ports)
4. Network source (LAN and Screen Mirroring)

- Press the [Home] button on the control panel or remote control.



Then select the source you want to use from the screen displayed.

Screen Mirroring is available only with the EB-1795F/EB-1785W.

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 **Signal** menu.

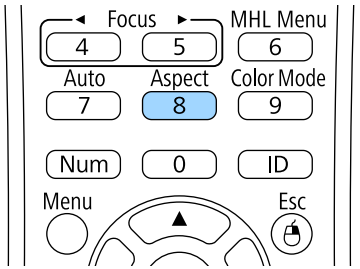
Related Links

- "Changing the Image Aspect Ratio" p.52
- "Available Image Aspect Ratios" p.52
- "Projected Image Appearance with Each Aspect Mode" p.53
- "Input Signal Settings - Signal Menu" p.119

Changing the Image Aspect Ratio

You can change the aspect ratio of the displayed image.

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



3. To cycle through the available aspect ratios for your input signal, press the [Aspect] button repeatedly.

To display images without black bars, set **Resolution** to **Wide** or **Normal** in the projector's **Signal** menu according to the computer's resolution.

Related Links

- "Input Signal Settings - Signal Menu" p.119

Available Image Aspect Ratios

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

- Black bands and cropped images may project in certain aspect ratios, depending on the aspect ratio and resolution of your input signal.
- The **Auto** aspect ratio setting is available only for HDMI image sources.
- Note that using the aspect ratio function of the projector 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.

For projectors with a resolution of 1080p (1920 × 1080)

Aspect mode	Description
Auto	Automatically sets the aspect ratio according to the input signal and the **Resolution** setting.
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
Full	Displays images using the full size of the projection area, but does not maintain the aspect ratio.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image.
Native	Displays images as is (aspect ratio and resolution are maintained).

For projectors with a resolution of WXGA (1280 × 800)

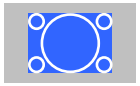
Aspect mode	Description
Auto	Automatically sets the aspect ratio according to the input signal and the **Resolution** setting.
Normal	Displays images using the full projection area and maintains the aspect ratio of the image.
16:9	Converts the aspect ratio of the image to 16:9.
Full	Displays images using the full size of the projection area, but does not maintain the aspect ratio.
Zoom	Displays images using the full width of the projection area and maintains the aspect ratio of the image.
Native	Displays images as is (aspect ratio and resolution are maintained).

Projected Image Appearance with Each Aspect Mode

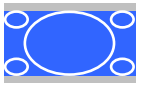
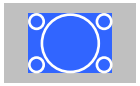
Black bands and cropped images may project in certain aspect ratios, depending on the aspect ratio and resolution of your input signal. See the following table to confirm the position of black bands and cropped images.

The image for **Native** varies depending on the input signal.

For projectors with a resolution of 1080p (1920 × 1080)

Aspect mode	Aspect ratio for input signals		
	16:10	16:9	4:3
Normal Auto			
Full			
Zoom			
Native			

For projectors with a resolution of WXGA (1280 × 800)

Aspect mode	Aspect ratio for input signals		
	16:10	16:9	4:3
Normal Auto			
16:9			
Full			
Zoom			
Native			

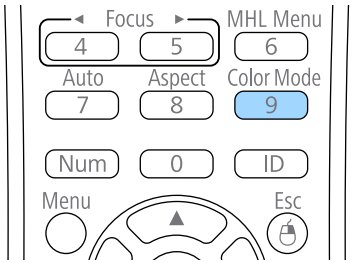
The projector offers different color modes to provide optimum brightness, contrast, and color for a variety of viewing environments and image types. You can select the mode designed to match your image and environment, or experiment with the available modes.

Related Links
- "Changing the Color Mode" p.54
- "Available Color Modes" p.54
- "Setting Auto Iris" p.54

Changing the Color Mode

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

1. Turn on the projector and switch to the image source you want to use.
2. Press the [Color Mode] button on the remote control to change the Color Mode.



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

3. To cycle through all of the available color modes for your input signal, press the [Color Mode] button repeatedly.

You can also set the **Color Mode** setting in the projector's **Image** menu.

Related Links
- "Image Quality Settings - Image Menu" p.117

Available Color Modes

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

Color mode	Description
Presentation	Best for projecting vivid images.
Dynamic	This is the brightest mode. Best for prioritizing brightness.
Cinema	Best for enjoying content such as movies.
sRGB	Best for faithfully reproducing the color of the source image.
Blackboard	Best for projecting images directly on a green chalkboard.
DICOM SIM	Best for projecting X-ray photographs and other medical images. This mode is for reference purposes only and should not be used to make medical diagnoses.

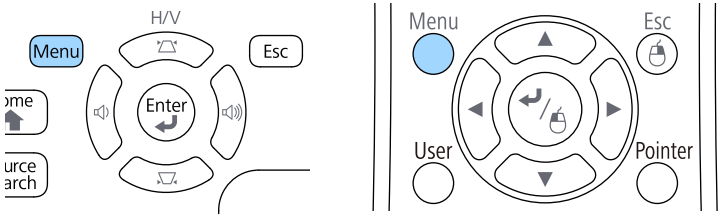
Setting Auto Iris

You can turn on Auto Iris to automatically optimize the image based on the brightness of the content.

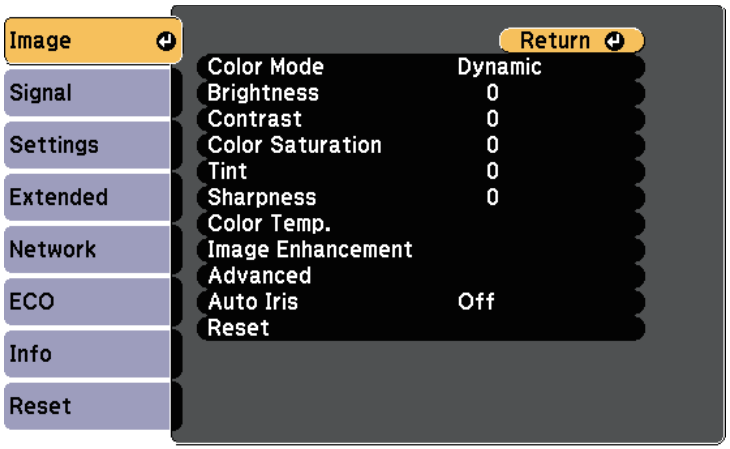
This setting is available for **Dynamic** or **Cinema** color modes.

1. Turn on the projector and switch to the image source you want to use.

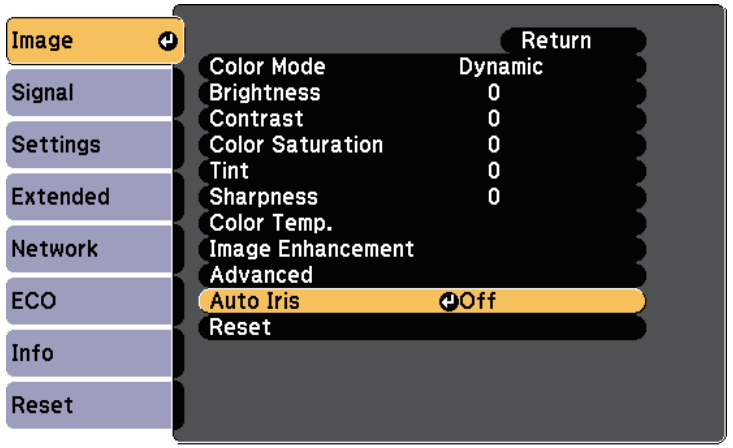
2 Press the [Menu] button on the control panel or remote control.



3 Select the **Image** menu and press [Enter].



4 Select **Auto Iris** and press [Enter].



5 Choose one of the following options and press [Enter]:

- **High Speed** to adjust brightness as soon as the scene changes.
- **Normal** for standard brightness adjustment.

6 Press [Menu] or [Esc] to exit the menus.

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

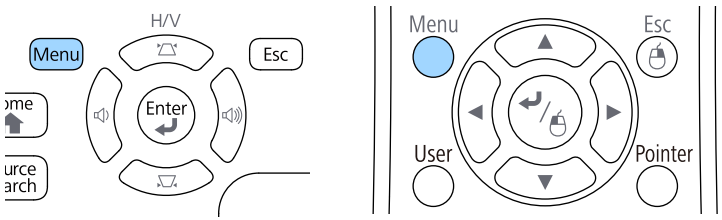
Related Links

- "Adjusting the Hue, Saturation, and Brightness" p.56
- "Adjusting the Gamma" p.57

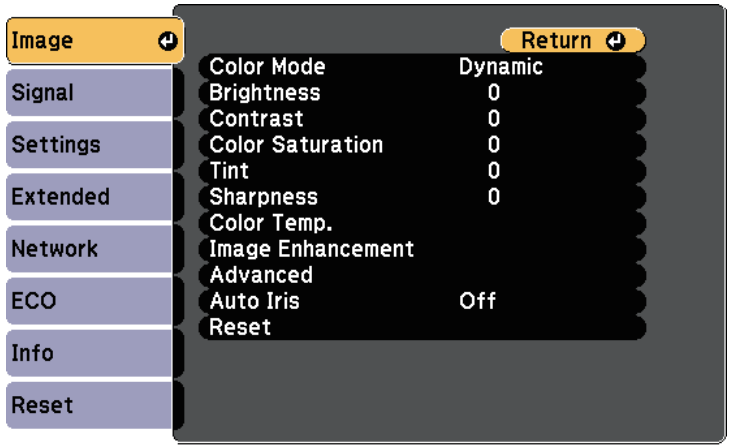
Adjusting the Hue, Saturation, and Brightness

You can adjust the Hue, Saturation, and Brightness settings for individual image colors.

1. Turn on the projector and switch to the image source you want to use.
2. Press the [Menu] button on the control panel or remote control.

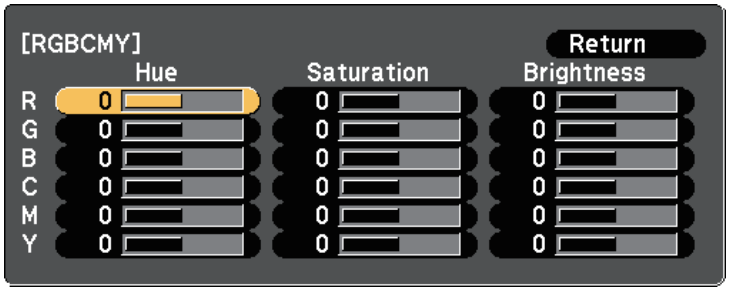


3. Select the **Image** menu and press [Enter].



4. Select **Advanced** and press [Enter].
5. Select **RGBCMY** and press [Enter].
6. Do the following as necessary for each R (red), G (green), B (blue), C (cyan), M (magenta) and Y (yellow):
   - To adjust the overall hue of the color, bluish - greenish - reddish, adjust the **Hue** setting.
   - To adjust the overall vividness of the color, adjust the **Saturation** setting.

- To adjust the overall color brightness of the color, adjust the **Brightness** setting.



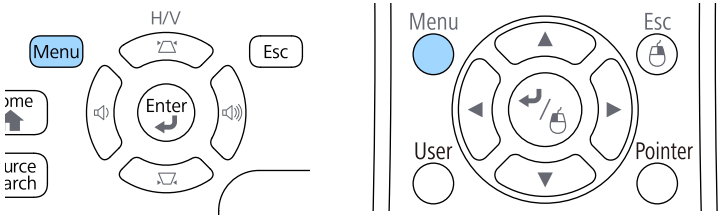
7 Press [Menu] or [Esc] to exit the menus.

Adjusting the Gamma

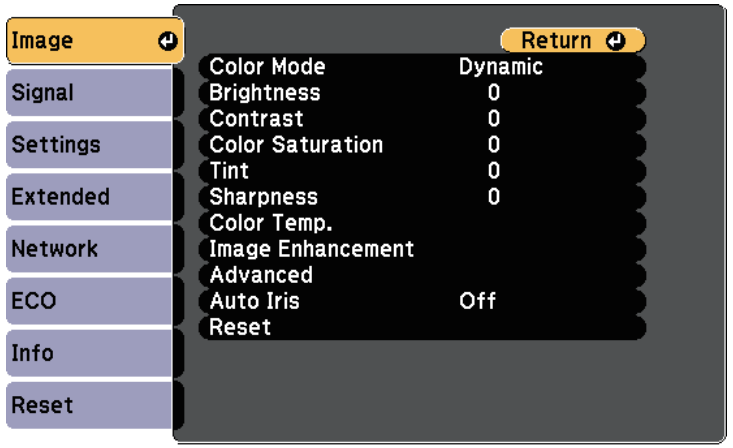
You can correct differences in projected image colors that occur between different image sources by adjusting the Gamma setting.

1 Turn on the projector and switch to the image source you want to use.

2 Press the [Menu] button on the control panel or remote control.



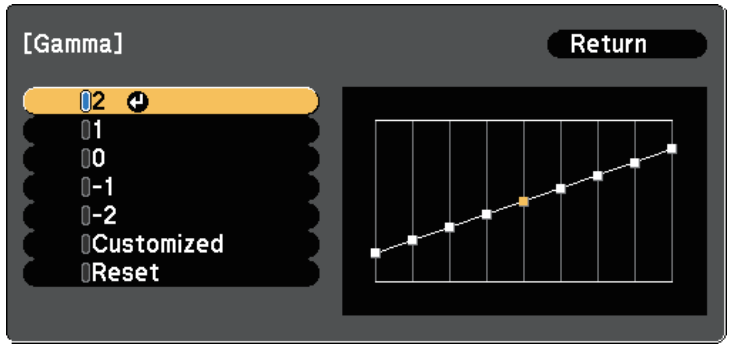
3 Select the **Image** menu and press [Enter].



4 Select **Advanced** and press [Enter].

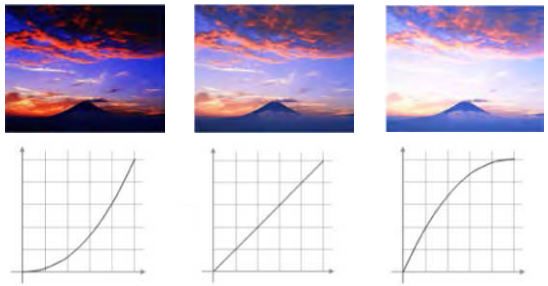
5 Select **Gamma** and press [Enter].

6 Select and adjust the correction value.



When you select a smaller value, you can reduce the overall brightness of the image to make the image sharper. When you select a larger value,

the dark areas of images become brighter, but the color saturation for lighter areas may become weaker.

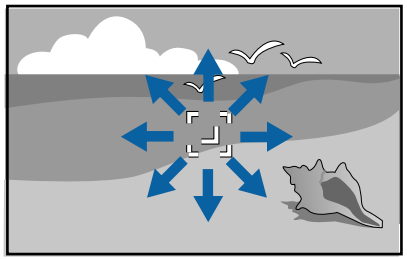


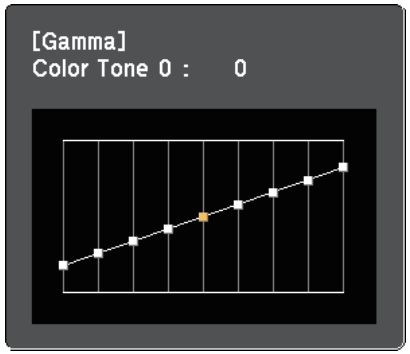
- If you selected **DICOM SIM** as the **Color Mode** setting in the projector's **Image** menu, select the adjustment value according to the projection size.
  - If the projection size is 60 inches or less, select a small value.
  - If the projection size is 60 inches or more, select a large value.
- Medical images may not be reproduced correctly depending on your settings and screen specifications.

7 If you want to make finer adjustments, select **Customized** and press [Enter].

8 Adjust the value using one of the following methods.

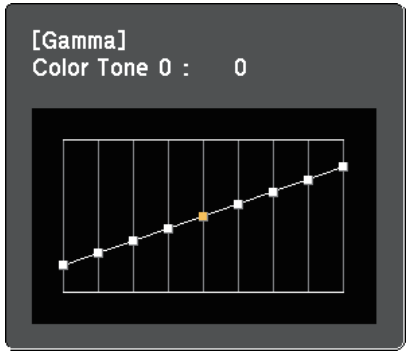
- To select the color tone you want to adjust from the image, select **Adjust it from the image**. Press the arrow buttons to move the cursor to the part where you want to change the brightness and press [Enter]. Then press the up or down arrow button to adjust the value for the selected color tone and press [Enter].





- To use the gamma adjustment graph, select **Adjust it from the graph**. Press the left or right arrow buttons to select the color tone

you want to adjust. Then press the up or down arrow button to adjust the value and press [Enter].



9 Press [Menu] or [Esc] to exit the menus.

Related Links

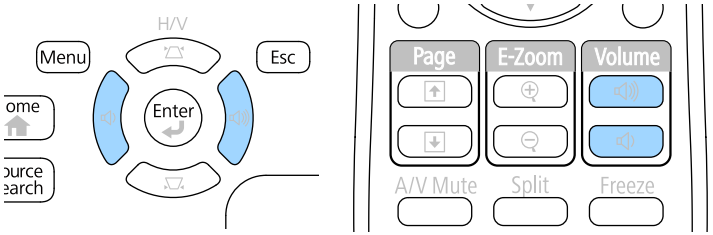
- "Image Quality Settings - Image Menu" p.117

The volume buttons control the projector's internal speaker system.

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

1. Turn on the projector and start a presentation.

2. To lower or raise the volume, press the [Volume] buttons on the control panel or remote control as shown.



A volume gauge appears on the screen.

3. To set the volume to a specific level for an input source, select **Volume** in the projector's **Settings** menu.

Caution

Do not start a presentation 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.

Related Links

- "Projector Feature Settings - Settings Menu" p.121

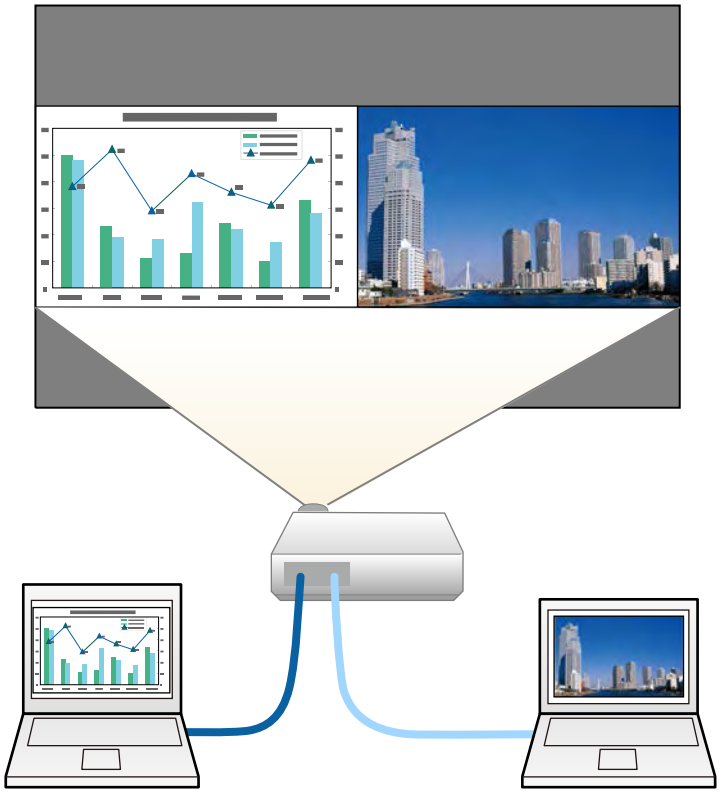
Adjusting Projector Features

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

Related Links

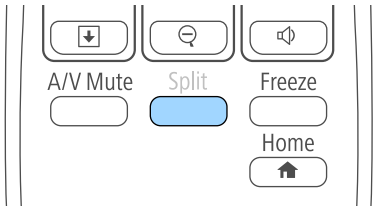
- "Projecting Two Images Simultaneously" p.62
- "Projecting a PC Free Presentation" p.65
- "Controlling a Presentation with Your Hands" p.72
- "Shutting Off the Image and Sound Temporarily" p.75
- "Stopping Video Action Temporarily" p.76
- "Zooming Images" p.77
- "Using the Remote Control as a Wireless Mouse" p.78
- "Using the Remote Control as a Pointer" p.80
- "Saving a User's Logo Image" p.81
- "Color Difference Correction when Projecting from Multiple Projectors" p.83
- "Projector Security Features" p.86

You can use the split screen feature to simultaneously project two images from different image sources. You can control the split screen feature using the remote control or the projector menus.



- While using the split screen feature, other projector features may not be available and some settings may be automatically applied to both images.

1 Press the [Split] button on the remote control.

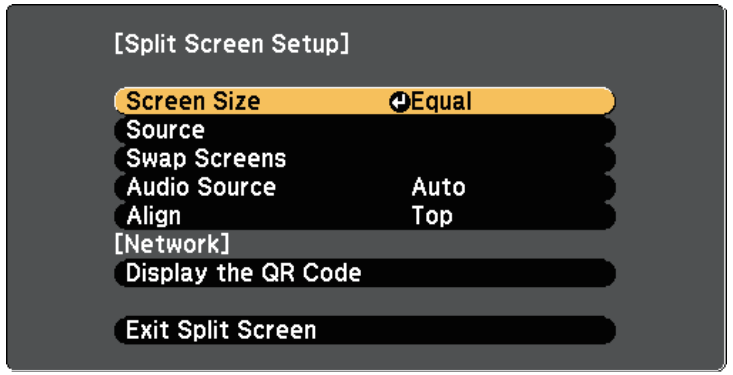


The currently selected input source moves to the left of the screen.

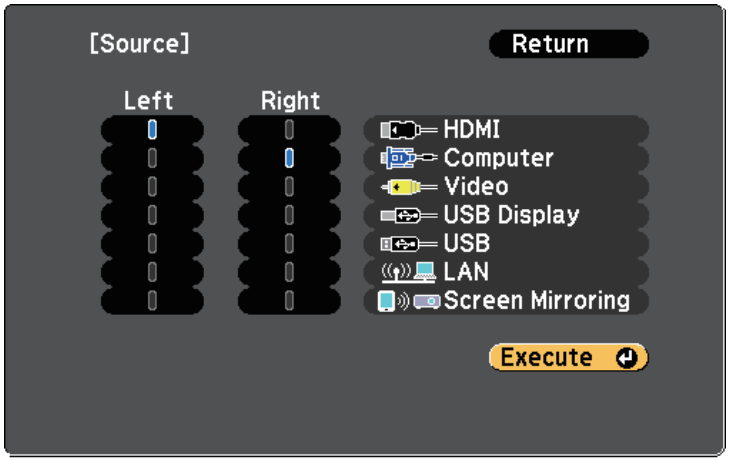
You can perform the same operations from **Split Screen** in the projector's **Settings** menu.

2 Press the [Menu] button.

You see this screen:



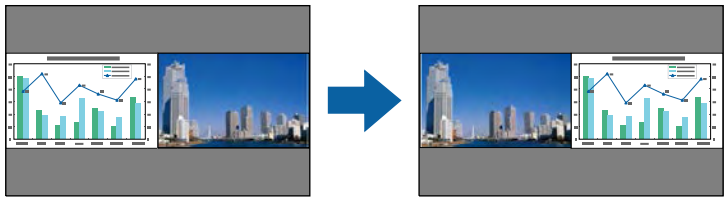
3 To select an input source for the other image, select the **Source** setting, press [Enter], select the input source, select **Execute**, and press [Enter].



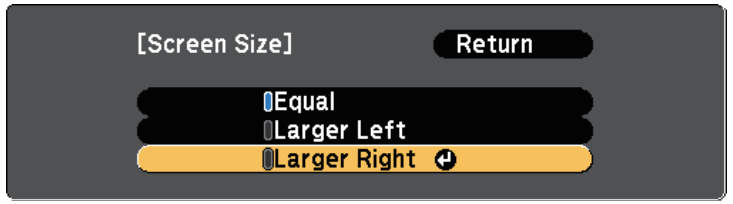
- You can only select input sources that can be combined.
- While using the split screen feature, the **Source** screen appears when you change the input source from the remote control.

4 To switch images, select **Swap Screens** and press [Enter].

The projected images on the left and right are swapped.



5 To enlarge one image while reducing the other image, select **Screen Size**, press [Enter], select a size, and press [Enter]. To exit the menu, press [Menu].



Depending on the video input signals, the images may not appear at the same size even if you select **Equal**.

6 To select the audio, select **Audio Source**, press [Enter], select an audio option, and press [Enter]. To exit the menu, press [Menu].

Select **Auto** to hear audio from the largest screen or the left screen.

7 To align the projected images to the top of the screen, select **Align**, press [Enter], select **Top**, and press [Enter] again. To exit the menu, press [Menu].

8 To exit the split screen feature, press [Split] or [Esc].

Related Links

- "Unsupported Input Source Combinations for Split Screen Projection" p.64
- "Split Screen Projection Restrictions" p.64

Unsupported Input Source Combinations for Split Screen Projection

These input source combinations cannot be projected on a split screen.

- Computer and Video
- HDMI and Screen Mirroring
- USB Display and USB/LAN
- LAN and Screen Mirroring

Split Screen Projection Restrictions

Operating restrictions

The following operations cannot be performed during split screen projection.

- Setting the projector's menu
- E-Zoom
- Switching the aspect mode (the aspect mode is set to **Normal**)
- Operations using the [User] button on the remote control
- Auto Iris

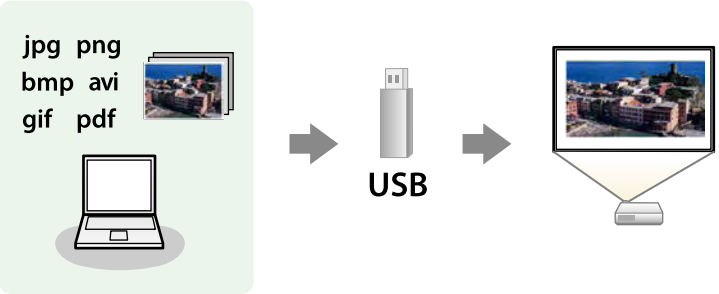
Image restrictions

- If you make adjustments such as **Brightness**, **Contrast**, **Color Saturation**, **Tint**, and **Sharpness** in the projector's **Image** menu, you can apply them only to the image on the left. Default adjustments are applied to the image on the right. Adjustments that affect the entire projected image such as **Color Mode** and **Color Temp.** are applied for both left and right images.
- Even if you make adjustments for **Noise Reduction** and **Deinterlacing** in the projector's **Image** menu, **Noise Reduction** is set to 0 and **Deinterlacing** is set to **Off** for the image on the right.
  ☛ **Image** > **Image Enhancement** > **Noise Reduction**
  ☛ **Image** > **Advanced** > **Deinterlacing**
- Even if you set **Display Background** to **Logo** in the projector's **Extended** menu, the blue screen appears when no image signal is being input.

Related Links

- "Image Aspect Ratio" p.52
- "Color Mode" p.54
- "Projector Feature Settings - Settings Menu" p.121
- "Input Signal Settings - Signal Menu" p.119
- "Projector Setup Settings - Extended Menu" p.123
- "Zooming Images" p.77
- "Setting Auto Iris" p.54
- "Adjusting the Image Color" p.56

You can use your projector's PC Free feature whenever you connect a USB device that contains compatible presentation files. This lets you quickly and easily display a presentation and control it using the projector's remote control.



Related Links

- "Supported PC Free File Types" p.65
- "Precautions on PC Free Projection" p.65
- "Starting a PC Free Slide Show" p.66
- "Starting a PC Free PDF File Presentation" p.67
- "Starting a PC Free Movie Presentation" p.69
- "PC Free Display Options" p.70

Supported PC Free File Types

You can project these types of files using the projector's PC Free feature.

- For best results, place your files on media that is formatted in FAT16/32.
- If you have trouble projecting from media formatted for non-Windows file systems, try formatting the media for Windows instead.

File contents	File type (extension)	Details
Image	.jpg	Make sure the file is not: • CMYK format • Progressive format • Highly compressed • Above 8192 × 8192 resolution
	.bmp	Make sure the file is not: • Above 1280 × 800 resolution
	.gif	Make sure the file is not: • Above 1280 × 800 resolution • Animated • Interlaced
	.png	Make sure the file is not: • Above 1280 × 800 resolution * • Interlaced
PDF	.pdf	Make sure the file is not: • Saved in PDF version 1.8 or later format • Encrypted
Movie	.avi (Motion JPEG)	Supports only AVI 1.0. Make sure the file is not: • Saved with an audio codec other than PCM or ADPCM • Above 1280 × 720 resolution • Larger than 2 GB

* When you use a projectors with a resolution of 1080p, make sure the file is not above 1920 × 1200 resolution.

Precautions on PC Free Projection

Note the following precautions when using PC Free features.

- Do not disconnect the USB storage device while it is being accessed; otherwise, PC Free may not operate correctly.
- You may not be able to use the security features on certain USB storage devices with PC Free features.
- When connecting a USB device that includes an AC adapter, connect the AC adapter to an electrical outlet when you use the device with your projector.
- Some commercially available USB card readers may not be compatible with the projector.
- The projector can recognize up to 5 cards inserted into the connected card reader at one time.
- You cannot correct keystone distortion while projecting in PC Free, so correct the image shape before you begin your presentation.
- You can use the following functions while projecting in PC Free.
  - Freeze
  - A/V Mute
  - E-Zoom
  - Pointer

Related Links

- "Stopping Video Action Temporarily" p.76
- "Shutting Off the Image and Sound Temporarily" p.75
- "Zooming Images" p.77
- "Using the Remote Control as a Pointer" p.80

Starting a PC Free Slide Show

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

- You can change the PC Free operation options or add special effects by highlighting **Option** at the bottom of the screen and pressing [Enter].

1 Press the [USB] button on the remote control.

The PC Free file list screen is displayed.

- If the Select Drive screen is displayed, press the arrow buttons to select the drive and press [Enter].
- To display the Select Drive screen, highlight **Select Drive** at the top of the file list screen and press [Enter].

2 Do one of the following to locate your files:

- If you need to display files inside a subfolder on your device, press the arrow buttons to highlight the folder and press [Enter].
- To move back up a folder level on your device, highlight **Back to Top** and press [Enter].
- To view additional files in a folder, highlight **Next Page** or **Previous Page** and press [Enter], or press the [Page] up or down buttons on the remote control.

3 Do one of the following:

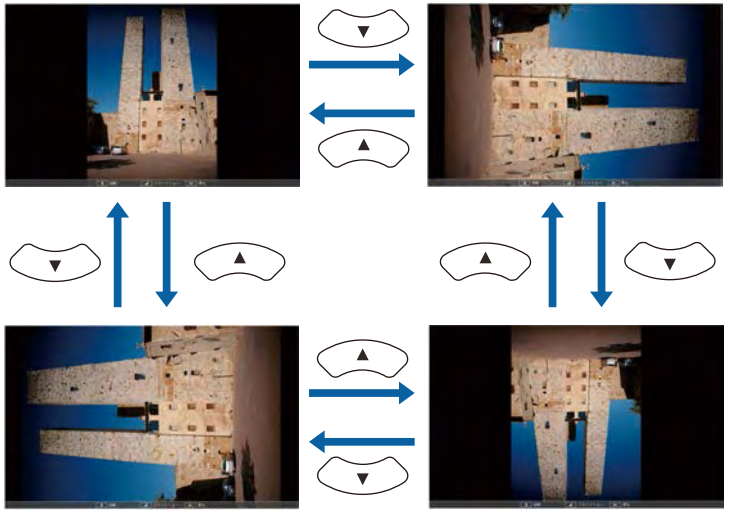
- To display an individual image, press the arrow buttons to highlight the image and press [Enter]. (Press the [Esc] button to return to the file list screen.)

- To display a slide show of all the images in a folder, press the arrow buttons to highlight the **Slideshow** option at the bottom of the screen and press [Enter].

- You can change the image switching time by highlighting **Option** at the bottom of the screen and pressing [Enter].
- If any file names are longer than the display area or include unsupported symbols, the file names may be shortened or changed only on the screen display.

4 While projecting, use the following commands to control the display:

- To rotate a displayed image, press the up or down arrow button.



- To move to the next or previous image, press the left or right arrow button.

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

You return to the file list screen.

6 Turn off the USB device, if necessary, and then disconnect the device from the projector.

Related Links

- "PC Free Display Options" p.70
- "Connecting to a USB Device" p.26

Starting a PC Free PDF File Presentation

After connecting a USB device to the projector, you can switch to the USB input source and start your PDF file presentation (EB-1795F/EB-1785W/EB-1781W).

- You cannot do the following while presenting a PDF file from a USB device:
  - Release a password
  - Display e-signatures, JPEG2000 images, transparent effects, 3D artwork, or comments
  - Play multimedia content
  - Display encrypted PDF content
  - Display a PDF file without a .pdf file extension

1 Press the [USB] button on the remote control.

The PC Free file list screen is displayed.

- If the Select Drive screen is displayed, press the arrow buttons to select the drive and press [Enter].
- To display the Select Drive screen, highlight **Select Drive** at the top of the file list screen and press [Enter].

2 Do one of the following to locate your files:

- If you need to display files inside a subfolder on your device, press the arrow buttons to highlight the folder and press [Enter].
- To move back up a folder level on your device, highlight **Back to Top** and press [Enter].
- To view additional files in a folder, highlight **Next Page** or **Previous Page** and press [Enter], or press the [Page] up or down buttons on the remote control.

3 Press the arrow buttons to highlight the file and press [Enter]. (Press the [Esc] button to return to the file list screen.)

The first page in the PDF file is displayed at full screen size.

If any file names are longer than the display area or include unsupported symbols, the file names may be shortened or changed only on the screen display.

4 While projecting a PDF file, use the following commands to control the display:

- To move to the next or previous page, press the up or down arrow button.
- To display a menu of pages to select from, press the [Esc] button, press the left or right arrow button to select a page and press [Enter].

(If you press [Esc] while the select page menu is displayed, the menu closes.)

- To enlarge the view of a page to fit the screen, press [Enter]. Portrait pages are expanded horizontally to fit the width of the screen, and landscape pages are expanded vertically to fit the height of the screen. To scroll the page while a page is displayed at expanded size, press the arrow buttons. Press [Enter] again to return to standard size display.
- To rotate a displayed page, press the left or right arrow button.

5 To stop the display, press the [Esc] button, highlight **Exit**, and press [Enter].

6 Turn off the USB device, if necessary, and then disconnect the device from the projector.

Related Links

- "Connecting to a USB Device" p.26

Starting a PC Free Movie Presentation

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

- You can change the PC Free operation options by highlighting **Option** at the bottom of the screen and pressing [Enter].

1 Press the [USB] button on the remote control.

The PC Free file list screen is displayed.

- If the Select Drive screen is displayed, press the arrow buttons to select the drive and press [Enter].
- To display the Select Drive screen, highlight **Select Drive** at the top of the file list screen and press [Enter].

2 Do one of the following to locate your files:

- If you need to display files inside a subfolder on your device, press the arrow buttons to highlight the folder and press [Enter].

- To move back up a folder level on your device, highlight **Back to Top** and press [Enter].
- To view additional files in a folder, highlight **Next Page** or **Previous Page**, and press [Enter], or press the [Page] up or down buttons on the remote control.

3 To play back a movie, press the arrow buttons to highlight the file and press [Enter].

- If any file names are longer than the display area or include unsupported symbols, the file names may be shortened or changed only on the screen display.
- If you want to play back all the movies in a folder in sequence, select the **Slideshow** option at the bottom of the screen.

4 To stop movie playback, press the [Esc] button, highlight **Exit**, and press [Enter].

You return to the file list screen.

5 Turn off the USB device, if necessary, and then disconnect the device from the projector.

Related Links

- "PC Free Display Options" p.70
- "Connecting to a USB Device" p.26

PC Free Display Options

You can select these display options when using PC Free. To access this screen, highlight **Option** at the bottom of the PC Free file list screen and press [Enter].

Setting	Options	Description
Display Order	Name Order	Displays files in name order
	Date Order	Displays files in date order
Sort Order	In Ascending	Sorts files in first-to-last order
	In Descending	Sorts files in last-to-first order
Continuous Play	On	Displays a slide show continuously
	Off	Displays a slide show once
Screen Switching Time	No	Does not display the next file automatically
	1 Second to 60 Seconds	Displays files for the selected time and switches to the next file automatically; high resolution images may switch at a slightly slower rate

Setting	Options	Description
Effect	No	No effect
	Wipe	Transitions between images using a wipe effect
	Dissolve	Transitions between images using a dissolve effect
	Random	Transitions between images using a random variety of effects

You can use the Gesture Presenter feature to control presentations using your hands, which allows you to give presentations in front of the screen without using a presentation remote control (EB-1795F/EB-1785W/EB-1781W).

The Gesture Presenter feature is available in these conditions:

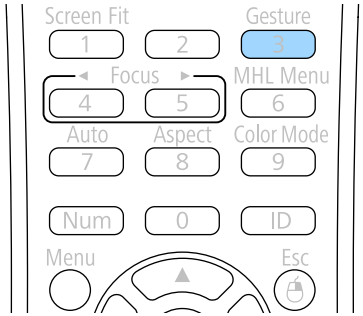
- The **Gesture Presenter** setting is set to **On** in the projector's **Settings** menu
  ☛ **Settings** > **Gesture Presenter** > **Gesture Presenter**
- The **Projection** setting is set to **Front** or **Front/Ceiling** in the projector's **Extended** menu
- Screen size is 100 inches or less
- Projection distance is about 1.0 to 2.5 m
- Projection angle is about 20º right or left, or 20º up or down
- A Screen Mirroring connection is established with the operation permissions that allow a connected device's keyboard or mouse to control the projector. (Windows 10 only)

Adjust the image settings such as keystone and color mode before starting the Gesture Presenter feature. When you adjust the image settings while using the Gesture Presenter feature, the marker may not be recognized correctly.

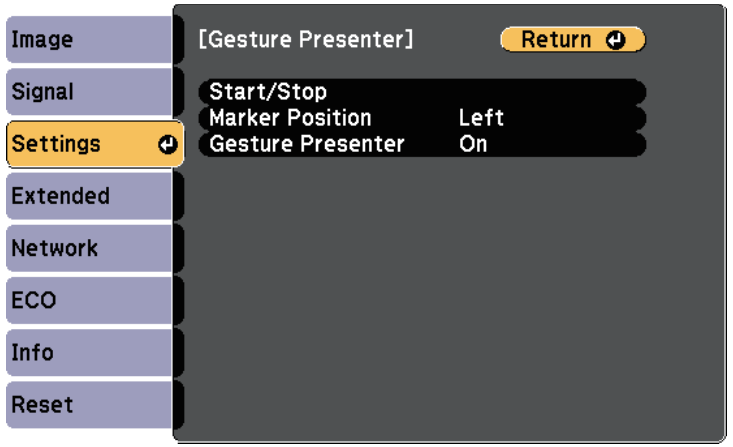
1. Connect the projector to a computer using a signal cable or a network.
2. If you want to connect your computer without using the projector's USB-B port, make sure you connect a USB cable to the projector's USB-B port and to a USB port on your computer (for Gesture Presenter support).

   When connecting your computer using EasyMP Multi PC Projection or the Screen Mirroring connection in Windows 10, you do not need to connect a USB cable.

3. Turn on the projector and start your presentation.
4. Press the [Gesture] button on the remote control.



The menu for the Gesture Presenter feature is displayed.



You can also display the menu for the Gesture Presenter feature by holding down the [Screen Fit] button on the control panel for three seconds, or by selecting **Gesture Presenter** in the projector's **Settings** menu.

5. Select **Start/Stop**.

An adjustment screen is displayed with markers on the side of the screen. When using the Gesture Presenter feature, the image is slightly smaller.

6 Cover one of the following markers on the screen with your hand. Remove your hand while the color of the icon next to the marker is changing.

- To move to the next slide or page, cover the marker next to the icon.
- To move to the previous slide or page, cover the marker next to the icon.

- Stand away from the markers to prevent them from being covered accidentally when you do not want to perform the operations.
- The markers are not available for the following input sources.
  - Computer (component video)
  - Video
  - USB-A
  - LAN (Epson iProjection)
  - Screen Mirroring (if the device does not support User Interface Back Channel (UIBC))
- For HDMI and Computer (RGB) image sources, you can use the markers with Windows 2000 and later, or OS X 10.5.x and later.

7 To close the Gesture Presenter, press the [Gesture] button.

You can also close the Gesture Presenter by pressing the [Screen Fit] button on the control panel, or by selecting **Start/Stop** in the projector's **Settings** menu.

☛ **Settings** > **Gesture Presenter** > **Start/Stop**

Related Links

- "Gesture Presenter Restrictions" p.73

Gesture Presenter Restrictions

Operating restrictions

You cannot change the following settings while using the Gesture Presenter feature.

- Auto Source Search (set to **Off** automatically)
- Auto Iris (set to **Off** automatically)
- Light Optimizer (set to **Off** automatically)

- Power Consumption

Functional restrictions

When you perform the following full screen functions, the Gesture Presenter feature is temporarily canceled. After finishing these functions, you can use the Gesture Presenter feature again.

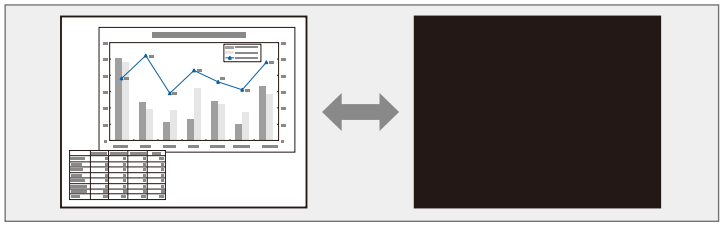
- Home screen
- Test Pattern
- Split Screen
- User's Logo

When you move the projector or perform the following image shape adjustments, the Gesture Presenter feature stops. To use the Gesture Presenter feature again, restart the feature after finishing the adjustments.

- Screen Fit
- Keystone adjustment
- Quick Corner
- Projection
- Reset
- Reset All

At high altitudes or locations subject to high temperatures, the image may become darker and the Gesture Presenter feature may stop. To use the Gesture Presenter feature again, restart the feature after cooling down the projector.

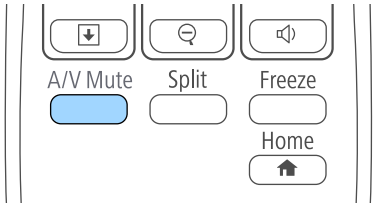
You can temporarily turn off the projected image and sound if you want to redirect your audience's attention during a presentation. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.



If you want to display an image such as a company logo or picture when the [A/V Mute] button is pressed, you can select the screen displayed in the **A/V Mute** setting in the projector's **Extended** menu.

☛ **Extended** > **Display** > **A/V Mute**

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



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

- You can also stop projection using the A/V Mute slide lever on the projector.
- The projector's power automatically turns off 30 minutes after A/V Mute is enabled. You can disable this feature in the projector's **ECO** menu.
  ☛ **ECO** > **Lens Cover Timer**
  ☛ **ECO** > **A/V Mute Timer**
- The lamp is still operating during A/V Mute, so the lamp hours continue to accumulate.

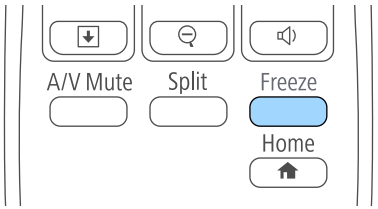
Related Links

- "Projector Setup Settings - Extended Menu" p.123
- "Projector Setup Settings - ECO Menu" p.131

Stopping Video Action Temporarily

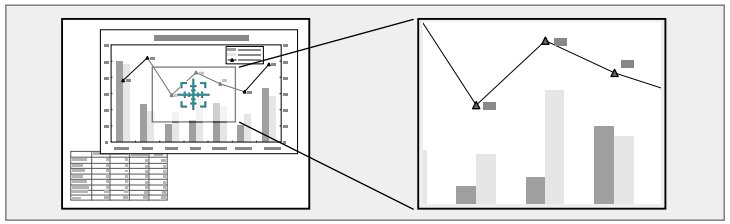
You can temporarily stop the action in a video or computer presentation and keep the current image on the screen. Any sound or video action continues to run, however, so you cannot resume projection at the point that you stopped it.

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

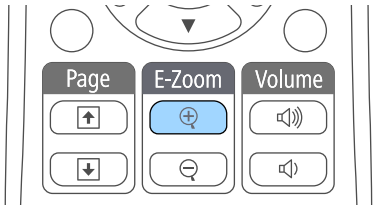


2. To restart the video action in progress, press [Freeze] again.

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



1 Press the [E-Zoom] + button on the remote control.



You see a crosshair on the screen indicating the center of the zoom area.

2 Use the following buttons on the remote control to adjust the zoomed image:

- Use the arrow buttons to position the crosshair in the image area you want to zoom into. To move the crosshair diagonally, press any pair of adjacent arrow buttons at the same time.
- Press the [E-Zoom] + button repeatedly to zoom into the image area. Press and hold the [E-Zoom] + button to zoom in more quickly.
- To pan around the zoomed image area, use the arrow buttons.
- To zoom out of the image, press the [E-Zoom] – button.
- To return to the original image size, press [Esc].

The enlarged image is projected and the enlargement ratio is displayed on the screen.

The selected area can be enlarged to between one to four times in 25 incremental steps.

When projecting images from an Epson document camera using a USB connection, you can enlarge the selected area from one to eight times its size in 57 incremental steps.

You can use the projector's remote control as a wireless mouse so you can control projection at a distance from the computer.

> You can use the wireless mouse features with Windows Vista and later, or OS X 10.7.x and later.

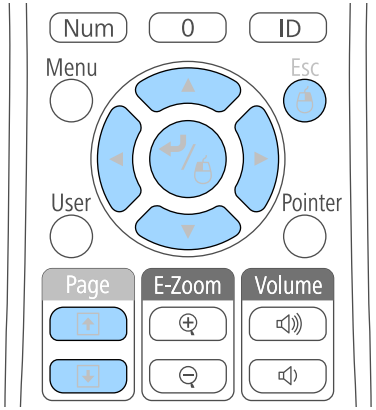
1. Connect the projector to a computer using the projector's USB-B, Computer, or HDMI port.

> The wireless mouse function does not work when projecting images from a device connected to the HDMI port using an MHL cable.

2. If you connected your computer to the port other than the USB-B port, also connect a USB cable to the projector's USB-B port and to a USB port on your computer (for wireless mouse support).

3. Start your presentation.

4. Use the following buttons on the remote control to control your presentation:



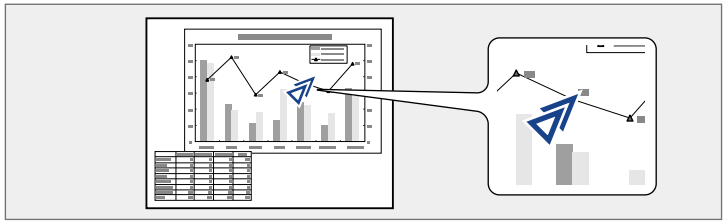
- To move through slides or pages, press the [Page] up or down buttons.
- To move the cursor on the screen, use the arrow buttons. To move the cursor diagonally, press any pair of adjacent arrow buttons at the same time.
- To left-click, press the [Enter] button once (press it twice to double-click). To right-click, press the [Esc] button.
- To drag-and-drop, hold the [Enter] button as you move the cursor with the arrow buttons, then release [Enter] at the destination.

> - If the mouse button settings are set to reverse on the computer, the operation of the remote control buttons is also reversed.
> - The Wireless Mouse function does not work under the following conditions:
> - When the projector's menu or a Help screen is displayed.
> - When operating functions other than the Wireless Mouse function (such as adjusting the volume).
> However, when using the E-Zoom or Pointer function, the page up or down function is available.

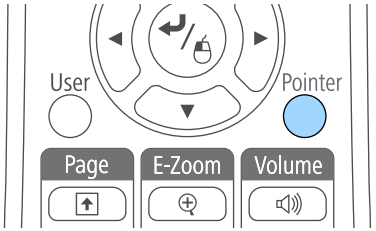
Related Links

- "Zooming Images" p.77
- "Using the Remote Control as a Pointer" p.80

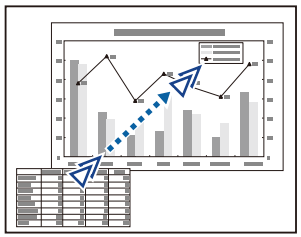
You can use the projector's remote control as a pointer to help you focus your audience on important information on the screen. The default pointer shape is an arrow. You can change the shape in the **Pointer Shape** setting in the projector's **Settings** menu.



1. Press the [Pointer] button on the remote control.



2. Use the arrow buttons to move the pointer on the screen. To move the pointer diagonally, press any pair of adjacent arrow buttons at the same time.



3. Press [Esc] to remove the pointer from the screen.

Related Links

- "Projector Feature Settings - Settings Menu" p.121

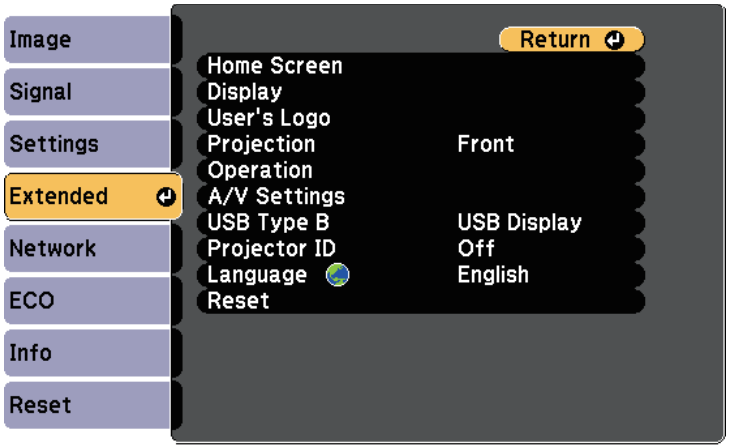
Saving a User's Logo Image

You can save an image on the projector and display it whenever the projector turns on. You can also display the image when the projector is not receiving an input signal or when you temporarily stop projection (using A/V Mute). This image is called the user's logo screen.

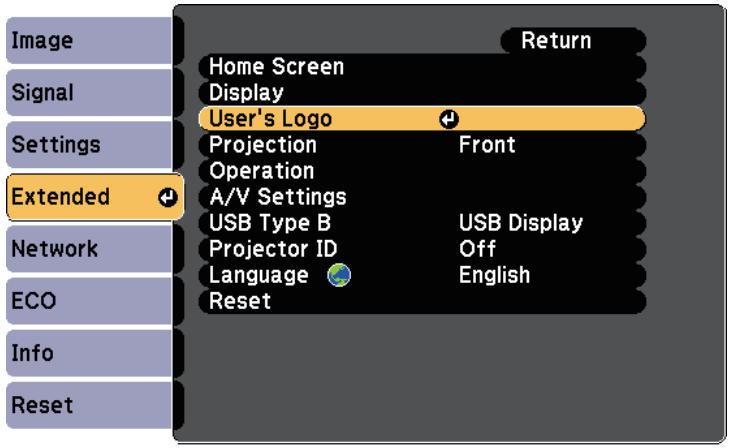
You can select a photo, graphic, or company logo as the user's logo, which is useful in identifying the projector's owner to help deter theft. You can prevent changes to the user's logo by setting up password protection.

- Once you save a user's logo, you cannot return to the factory default logo.
- If the **User's Logo Protection** setting is set to **On** in the **Password Protection** setting menu, set to **Off** before saving the user's logo.
- When you copy the menu settings from one projector to another using the batch setup feature, user's logo is also copied. Do not register the information that you do not want to share between multiple projectors as a user's logo.

1. Display the image you want to project as the user's logo.
2. Press the [Menu] button on the control panel or remote control.
3. Select the **Extended** menu and press [Enter].



4. Select **User's Logo** and press [Enter].



You see a prompt asking if you want to use the displayed image as a user's logo.

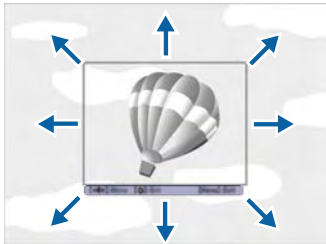
Adjustments such as Keystone, E-Zoom, or Aspect are temporarily canceled when you select **User's Logo**.

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

You see a selection box overlaying your image.

Depending on the current image signal, the screen size may change to match the resolution of the image signal.

6 Use the arrow buttons to surround the image area you want to use as the user's logo and press [Enter].



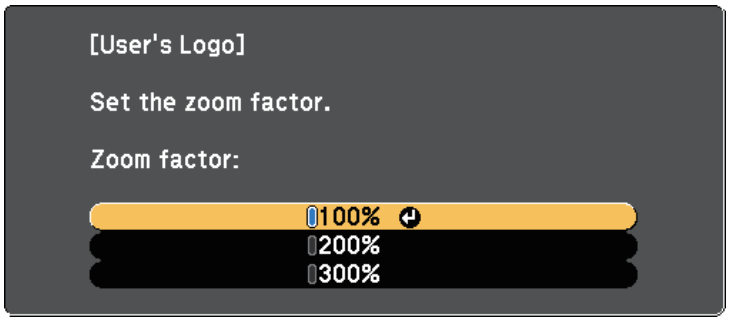
You see a prompt asking if you want to select this image area.

> You cannot change the image area size (400 × 300 pixels).

7 Select **Yes** and press [Enter]. (If you want to change the selected area, select **No**, press [Enter], and repeat the last step.)

You see the User's Logo zoom factor menu.

8 Select a zoom percentage and press [Enter].



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

9 Select **Yes** and press [Enter].

The user's logo is overwritten and a completion message appears.

10 Press [Esc] to exit the message screen.

11 Select the **Extended** menu and press [Enter].

12 Select **Display** and press [Enter].

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

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

To prevent anyone from changing the User's Logo settings without first entering a password, set the **User's Logo Protection** setting to **On** in the **Password Protection** setting menu and set the password.

Related Links

- "Shutting Off the Image and Sound Temporarily" p.75
- "Selecting Password Security Types" p.87

When lining up multiple projectors to project images, you can correct the brightness and color tone of each projector's image so that the images match closely.

You can set a unique projector ID for each projector to operate them individually using a remote control, and then correct the brightness and color for each projector.

- In some cases the brightness and color tone may not match completely even after correction.
- If brightness and color tone differences become more noticeable over time, repeat the adjustments.

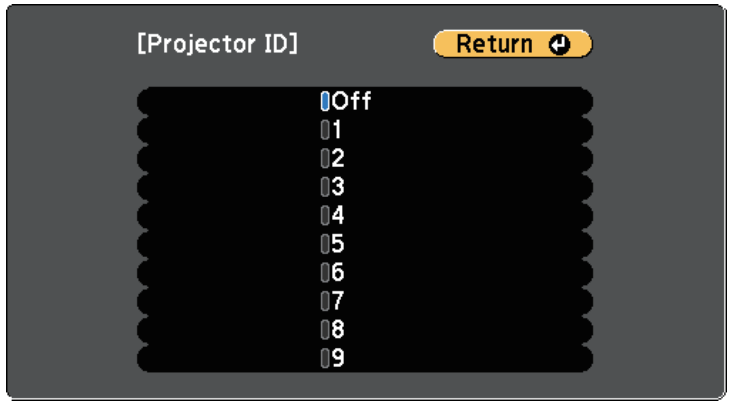
Related Links

- "Setting the Projector ID" p.83
- "Selecting the Projector You want to Operate" p.83
- "Matching Multiple-Projector Display Quality" p.85

Setting the Projector ID

To control multiple projectors from a remote control, give each projector a unique ID.

1. Press the [Menu] button on the control panel or remote control.
2. Select the **Extended** menu and press [Enter].
3. Select **Projector ID** and press [Enter].
4. Use the arrow buttons to select the identification number you want to use for the projector. Then press [Enter].



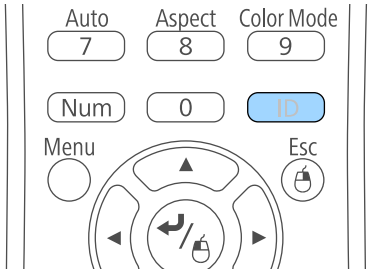
5. Press [Menu] or [Esc] to exit the menus.

Repeat these steps for all the other projectors you want to operate from one remote control.

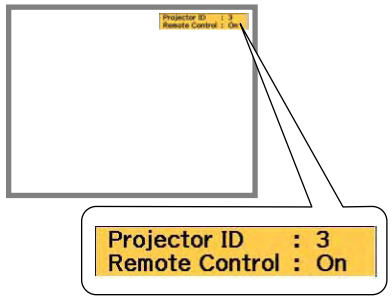
Selecting the Projector You want to Operate

After setting the projector's ID, select the ID for the projector you want to operate using the remote control.

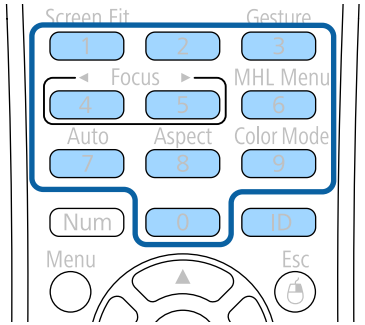
1 Aim the remote control at the target projector and press the [ID] button.



The current Projector ID is displayed on the projected screen. It disappears after about 3 seconds.



2 While holding the [ID] button, press the number button that matches the ID of the projector you want to operate.



The projector you want to operate is selected.

3 Press the [ID] button to check if the ID-setting process worked.

You see a message displayed by the projector.

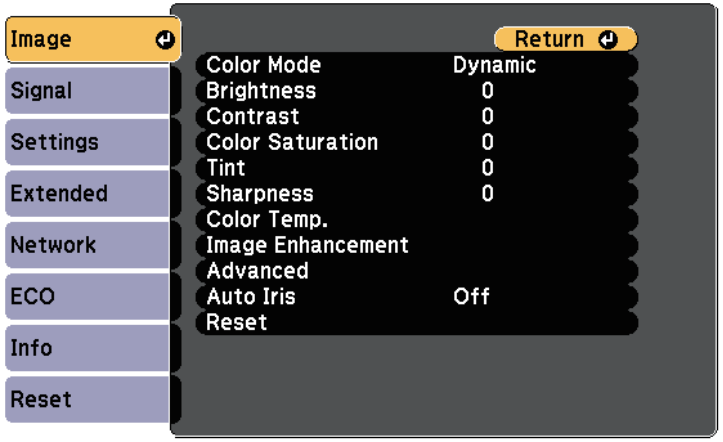
- If the remote control is listed as **On**, you can operate the projector from the remote control.
- If the remote control is listed as **Off**, you cannot operate the projector from the remote control. Repeat the steps above to enable the remote control.

- When you select 0 on the remote control, you can operate all projectors regardless the Projector ID setting.
- You must select the projector ID from the remote control each time you turn on the projector you have set it to control. When you turn on the projector, 0 is selected as the remote control's projector ID.
- When you set the **Projector ID** setting to **Off**, you can operate the projector using the remote control whichever ID you select on the remote control.

Matching Multiple-Projector Display Quality

You can match the display quality of multiple projectors that will project next to each other.

1. Turn on all the projectors on which you want to match the display quality.
2. Set ID numbers on each projector.
3. Make sure all the projectors are using the same Color Mode setting.
4. Select the remote control ID to match the first projector.
5. Press the [Menu] button, select the **Image** menu, and press [Enter].



6. Select settings as necessary.
7. Select the remote control ID to match the next projector, then repeat Image menu adjustments as necessary to match the projectors' displays.

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

- Password security to prevent people who do not know the password from using the projector, and prevent changes to the startup screen and other settings.
  This acts as an anti-theft function as the projector cannot be used even if it is stolen, and you can limit who can use the projector.
- Button lock security to block operation of the projector using the buttons on the control panel.
  This is useful at events or shows when you want to deactivate all buttons during projection or at schools when you want to limit button operation.
- Security cabling to physically secure the projector in place.

Related Links

- "Password Security Types" p.86
- "Locking the Projector's Buttons" p.88
- "Installing a Security Cable" p.90

Password Security Types

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

- **Power On Protection** password prevents anyone from using the projector without first entering a password. When plugging the power cord and turning on the projector at first time, you must enter the correct password. This also applies to Direct Power On and Auto Power On.
- **User's Logo Protection** password prevents anyone from changing the custom screen displayed when the projector turns on, when no signal is being input, or when you use the A/V Mute feature. The custom screen discourages theft by identifying the projector's owner.
- **Network Protection** password prevents anyone from changing the projector's **Network** settings.
- **Screen Mirroring Protec.** password prevents anyone from changing the projector's Screen Mirroring settings (EB-1795F/EB-1785W).

Related Links

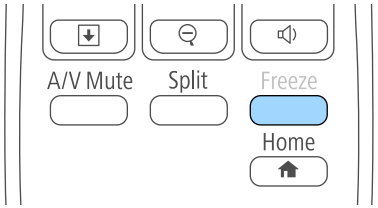
- "Setting a Password" p.86
- "Selecting Password Security Types" p.87
- "Entering a Password to Use the Projector" p.88

Setting a Password

To use password security, you must set a password.

> The default password is set to "0000". Change this to your own password.

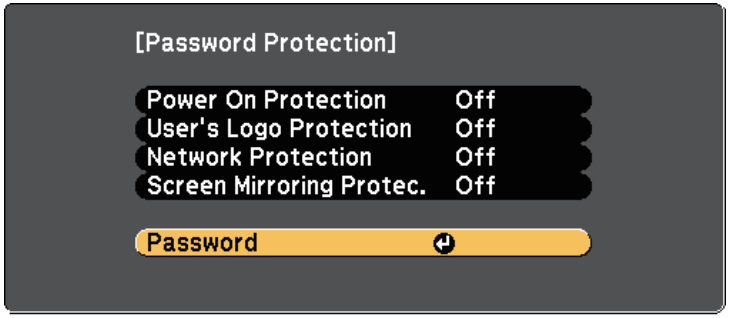
1 Hold down the [Freeze] button on the remote control for about 5 seconds.



You see the Password Protection setting menu.

> If Password Protection is already activated, you must enter the correct password to display the Password Protection setting menu.

2 Select **Password** and press [Enter].

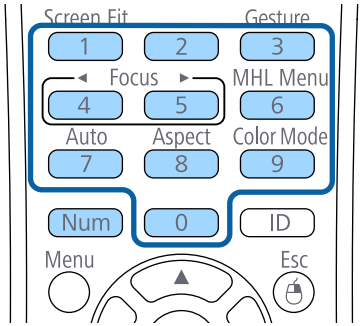


You see the prompt "Change the password?".

3 Select **Yes** and press [Enter].

> If you select **No**, the Password Protection setting menu is displayed again.

4 Hold down the [Num] button on the remote control and use the numeric buttons to set a four-digit password.



The password displays as **** as it is entered. A confirmation prompt is displayed when you enter the fourth digit.

5 Enter the password again.

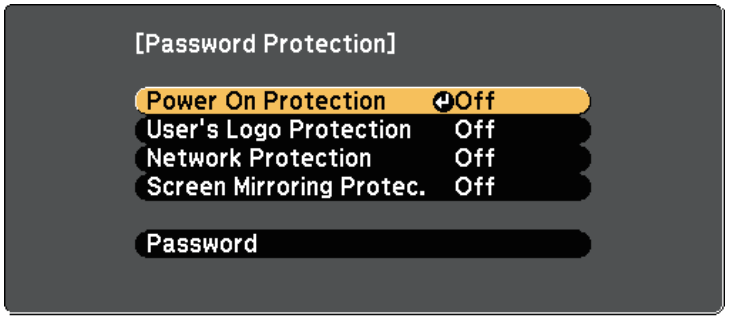
You see the message "Password accepted". If you enter the password incorrectly, a message is displayed prompting you to re-enter the password.

6 Press [Esc] to return to the menu.

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

Selecting Password Security Types

After setting a password, you see this menu, allowing you to select the password security types you want to use.



If you do not see this menu, hold down the [Freeze] button on the remote control for 5 seconds until the menu appears.

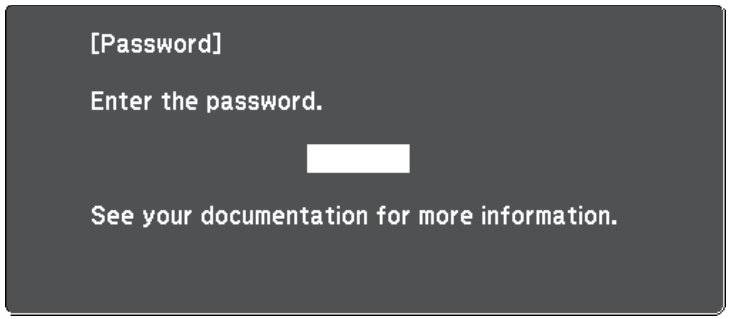
- To prevent unauthorized use of the projector, select **On** as the **Power On Protection** setting.
- To prevent changes to the User's Logo screen or related display settings, select **On** as the **User's Logo Protection** setting.
- To prevent changes to network settings, select **On** as the **Network Protection** setting.
- To prevent changes to the projector's Screen Mirroring settings, select **On** as the **Screen Mirroring Protec.** setting (EB-1795F/EB-1785W).

You can attach the password protect sticker to the projector as an additional theft deterrent.

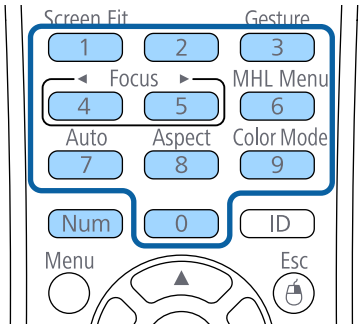
> Be sure to keep the remote control in a safe place; if you lose it, you will not be able to enter the password.

Entering a Password to Use the Projector

When the password screen is displayed, enter the correct password.



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



The password screen closes.

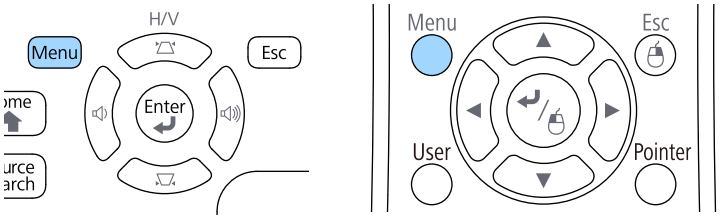
2 If the password is incorrect, you see a message and a prompt to try again. Enter the correct password to proceed.

> **Attention**
> - If an incorrect password is entered three times in succession, the message "The projector's operation will be locked." is displayed for approximately 5 minutes, and the projector switches to standby mode. If this happens, disconnect the power plug from the electrical outlet, reinsert it, and turn the projector back on. The projector displays the password entry screen again so that you can enter the correct password.
> - If you have forgotten the password, make a note of the "**Request Code**: xxxxx" number that appears on the screen and contact Epson for help.
> - If you continue to repeat the above operation and input the wrong password 30 times in succession, the message "The projector's operation will be locked. Contact Epson as described in your documentation." is displayed and the projector does not accept any more password entries. Contact Epson for help.

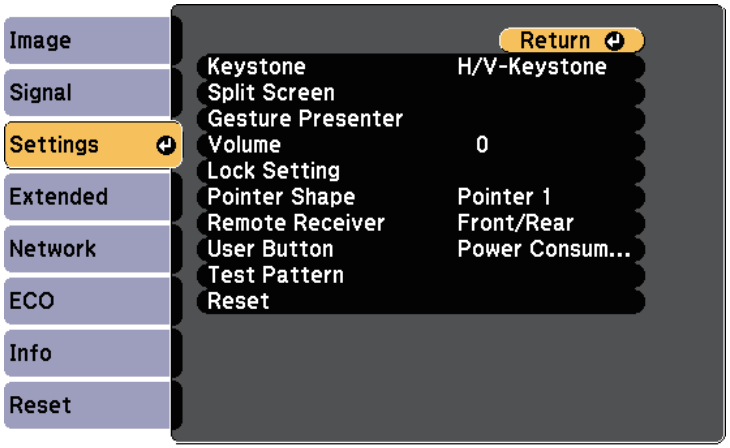
Locking the Projector's Buttons

You can lock the buttons on the control panel to prevent anyone from using the projector. The projector can still be operated using the remote control.

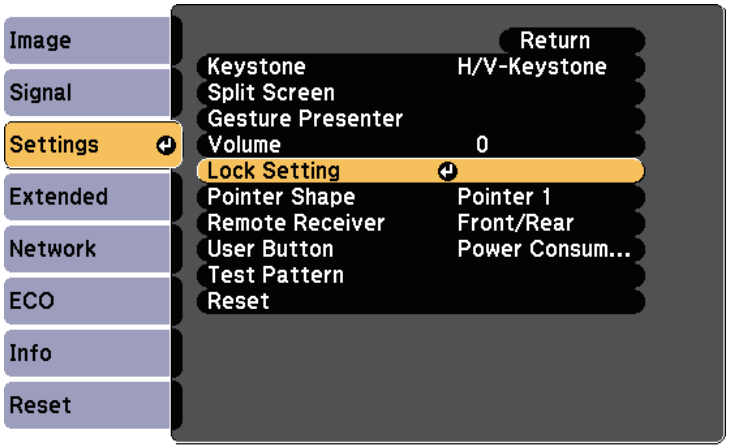
1 Press the [Menu] button on the control panel or remote control.



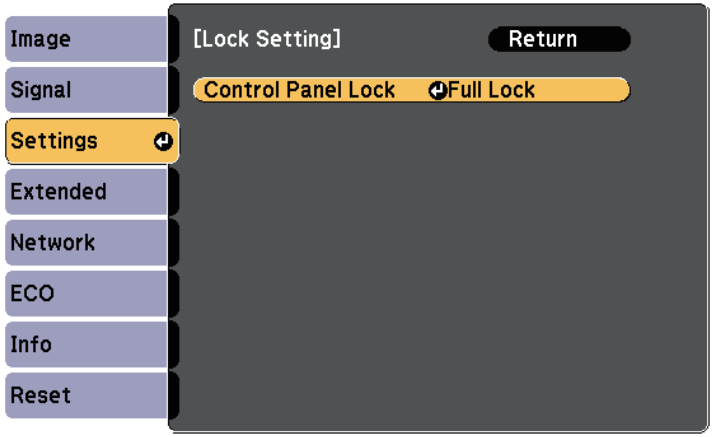
2 Select the **Settings** menu and press [Enter].



3 Select **Lock Setting** and press [Enter].



4 Select **Control Panel Lock** and press [Enter].



5 Select one of these lock types and press [Enter]:

- To lock all of the projector's buttons, select **Full Lock**.
- To lock all buttons except the power button, select **Partial Lock**.

You see a confirmation prompt.

6 Select **Yes** and press [Enter].

The **Control Panel Lock** setting takes effect.

Related Links

- "Unlocking the Projector's Buttons" p.89

Unlocking the Projector's Buttons

If the projector's buttons have been locked, do one of the following to unlock them.

- Hold down the [Enter] button on the control panel for 7 seconds. A message is displayed and the lock is released.
- Select **Off** as the **Control Panel Lock** setting in the projector's **Settings** menu.

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

Related Links

- "Projector Feature Settings - Settings Menu" p.121

Installing a Security Cable

You can install the security cable on the projector to deter theft.

- Use the security slot on the projector to attach a Kensington Microsaver Security system.

For more details on the Microsaver Security System, see http://www.kensington.com/.

Using the Projector on a Network

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

Related Links

- "Wireless Network Projection" p.92
- "Wireless Network Projection from a Mobile Device (Screen Mirroring)" p.100
- "Secure HTTP" p.105

You can send images to your projector through a wireless network.

To do this, you must set up your projector and computer for wireless projection.

You can connect the projector to your wireless network by configuring the connection manually using the projector's **Network** menus.

After setting up the projector, install the network software from the Epson Projector Software CD-ROM (if available) or download the software, as necessary. Use the following software and documentation to set up and control wireless projection:

- EasyMP Multi PC Projection software allows you to hold interactive meetings by projecting the computer screens of users over a network. See the *EasyMP Multi PC Projection Operation Guide* for instructions.
- Epson iProjection app allows you to project from iOS or Android devices. You can download Epson iProjection from App Store or Google play. Any fees incurred when communicating with App Store or Google play are the responsibility of the customer.

Related Links

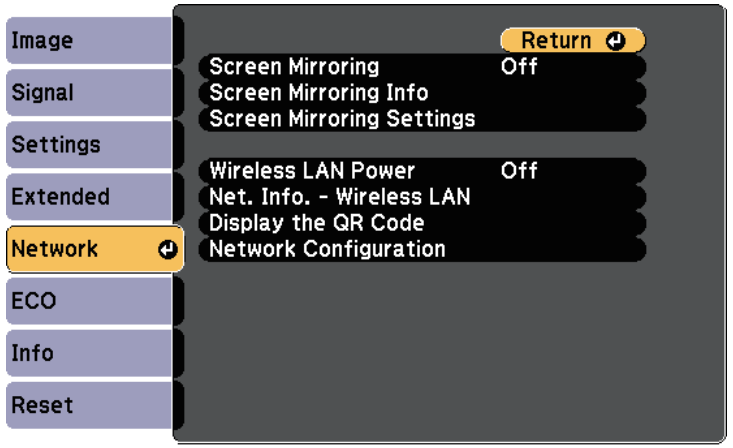
- "Selecting Wireless Network Settings Manually" p.92
- "Selecting Wireless Network Settings in Windows" p.94
- "Selecting Wireless Network Settings in OS X" p.94
- "Setting Up Wireless Network Security" p.94
- "Using a QR Code to Connect a Mobile Device" p.97

Selecting Wireless Network Settings Manually

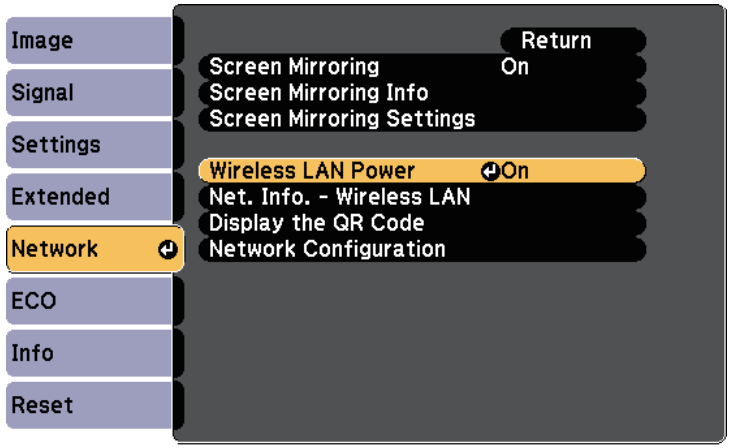
Before you can project from your wireless network, you need to select network settings for the projector.

1 Press the [Menu] button on the control panel or remote control.

2 Select the **Network** menu and press [Enter].

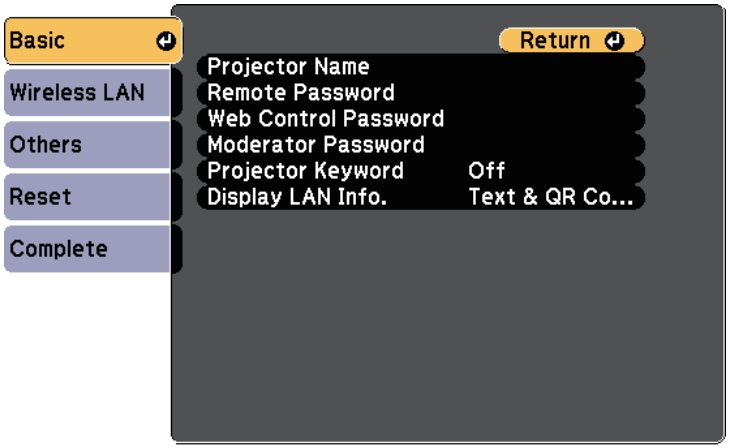


3 Select **On** as the **Wireless LAN Power** setting.



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

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

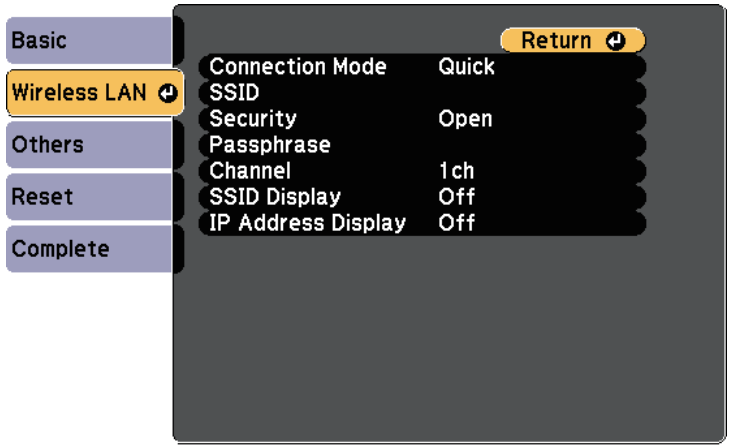


6 Select the basic options as necessary.

- **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
- **Remote Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector using the Basic Control. (User name is **EPSONREMOTE**; default password is **guest**.)
- **Web Control Password** lets you enter a password up to 8 alphanumeric characters long for accessing the projector over the Web. (User name is **EPSONWEB**; default password is **admin**.)
- **Moderator Password** lets you enter a four-digit number password for accessing the projector as a moderator using EasyMP Multi PC Projection or Epson iProjection. (No password is set by default.)
- **Projector Keyword** lets you turn on a security password to prevent access to the projector by anyone not in the room with it. You must enter a displayed, randomized keyword from a computer using EasyMP Multi PC Projection or Epson iProjection to access the projector and share the current screen.
- **Display LAN Info.** lets you set the display format for the projector's network information.

Use the displayed keyboard to enter the name and password. Press the arrow buttons on the remote control to highlight characters and press [Enter] to select them.

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



8 Select the **Connection Mode** setting.

- **Quick** lets you connect to multiple smartphones, tablets, or computers directly using wireless communication.
- **Advanced** lets you connect to smartphones, tablets, or computers over a wireless network access point.

9 If you selected the **Advanced** connection mode, select **Search Access Point** to select the access point you want to connect to.

If you need to assign the SSID manually, select **SSID** to enter the SSID.

10 For the **Advanced** connection mode, assign the IP settings for your network as necessary.

- If your network assigns addresses automatically, select **IP Settings** to set the **DHCP** setting to **On**.
- If you must set addresses manually, select **IP Settings** to set the **DHCP** setting to **Off**, and then enter the projector's **IP Address**, **Subnet Mask**, and **Gateway Address** as necessary.

11 To prevent the SSID or IP address from being displayed on the LAN standby screen and Home screen, set the **SSID Display** setting or the **IP Address Display** setting to **Off**.

12 When you have finished selecting settings, select **Complete** and then follow the on-screen instructions to save your settings and exit the menus.

13 Press the [LAN] button on the remote control.

The wireless network settings are complete when you see the correct IP address on the LAN standby screen.

When you have finished making wireless settings for your projector, you need to select the wireless network on your computer. Then start the network software to send images to your projector through a wireless network.

Selecting Wireless Network Settings in Windows

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

1 To access your wireless utility software, double-click the network icon on the Windows taskbar.

2 When connecting in Advanced connection mode, select the network name (SSID) of the network the projector is connecting to.

3 Click **Connect**.

Selecting Wireless Network Settings in OS X

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

1 Click the AirPort icon on the menu bar at the top of the screen.

2 When connecting in Advanced connection mode, make sure AirPort is turned on and select the network name (SSID) of the network the projector is connecting to.

Setting Up Wireless Network Security

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

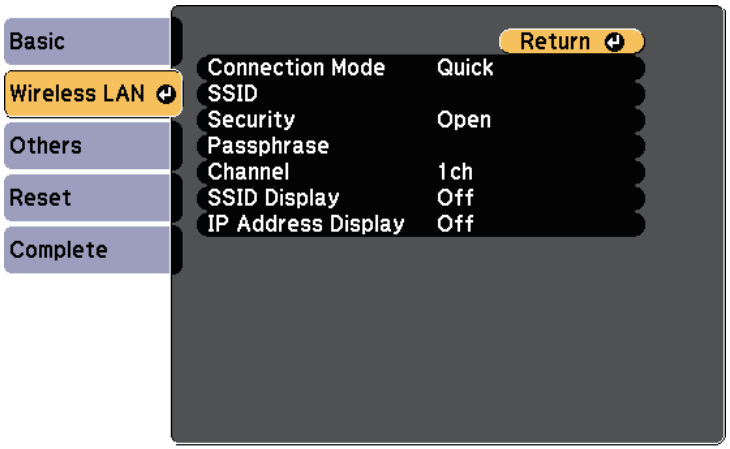
- WPA2-PSK security
- WPA2-EAP security * **
- WPA/WPA2-PSK security *
- WPA/WPA2-EAP security * **

* Only available for the Advanced connection mode.

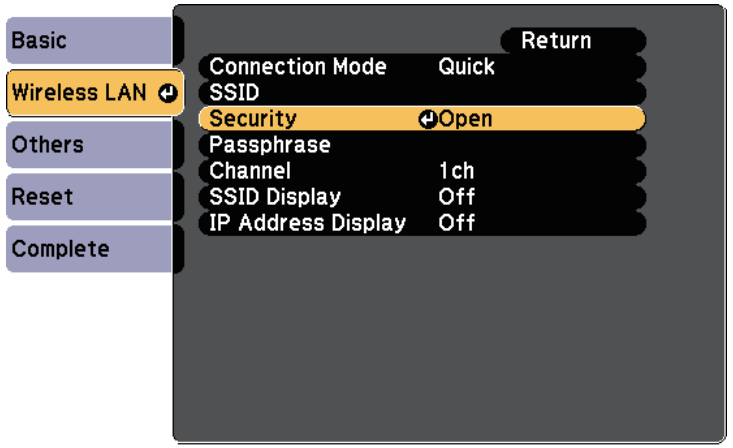
** Only available for EB-1795F/EB-1785W.

Contact your network administrator for guidance on entering the correct information.

1. If you want to set up the WPA2-EAP or WPA/WPA2-EAP security, make sure your digital certificate file is compatible with projector registration and placed directly on the USB storage device.
2. Press the [Menu] button on the control panel or remote control.
3. Select the **Network** menu and press [Enter].
4. Select **Network Configuration** and press [Enter].
5. Select the **Wireless LAN** menu and press [Enter].

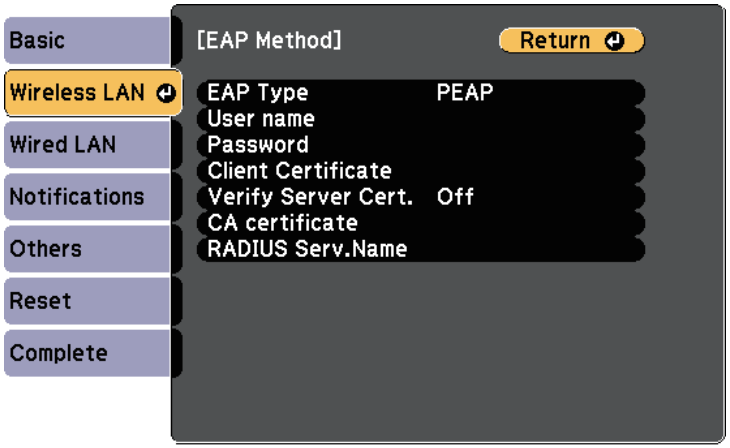


6. Select the **Security** setting and press [Enter].



7. Select the security settings to match your network settings.
8. Do one of the following according to the security you selected.
   - **WPA2-PSK**, **WPA/WPA2-PSK**: Select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
   - **WPA2-EAP**, **WPA/WPA2-EAP**: Select **EAP Method** and press [Enter].

9 Select the protocol for authentication as the **EAP Type** setting.



10 To import your certificate, select the certificate type and press [Enter].

- **Client Certificate** for the **PEAP-TLS** or **EAP-TLS** type
- **CA certificate** for the **PEAP**, **PEAP-TLS**, **EAP-TLS**, or **EAP-FAST** type

> You can also register the digital certificates from your Web browser. However, be sure to register just once or the certificate may not install correctly.

11 Select **Register** and press [Enter].

12 Follow the on-screen instructions to connect a USB storage device to the projector's USB-A port.

13 Press [Enter] to display the certificate list.

14 Select the certificate to import using the displayed list.

A message is displayed prompting you to enter the password for the certificate.

15 Enter a password and press [Enter].

The certificate is imported and a completion message appears.

16 Select your EAP settings as necessary.

- **User name** lets you enter a user name using up to 63 alphanumeric characters. To enter more than 32 characters, use your Web browser. When importing a client certificate, the name the certificate was issued to is automatically set.
- **Password** lets you enter a password using up to 63 alphanumeric characters for authentication when using the **PEAP**, **EAP-FAST**, or **LEAP** type. To enter more than 32 characters, use your Web browser.
- **Verify Server Cert.** lets you select whether or not to verify the server certificate when a CA certificate has been set.
- **RADIUS Serv.Name** lets you enter the server name to be verified.

17 When you have finished making settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

Related Links

- "Supported Client and CA Certificates" p.96
- "Network Menu - Wireless LAN Menu" p.127

Supported Client and CA Certificates

You can register these types of digital certificates.

Client Certificate (PEAP-TLS/EAP-TLS)

Specification	Description
Format	PKCS#12
Extension	PFX, P12
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512

Specification	Description
Key length	512/1024/2048/4096 bit
Password *	Up to 32 alphanumeric characters; required

CA Certificate (PEAP/PEAP-TLS/EAP-TLS/EAP-FAST)

Specification	Description
Format	X509v3
Extension	DER/CER/PEM
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Encoding	BASE64/Binary

* You can set a password using up to 63 alphanumeric characters. However, you need to use your Web browser to enter more than 32 characters.

Using a QR Code to Connect a Mobile Device

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

- Make sure you have installed the latest version of Epson iProjection on your device (V1.3.0 or later supports this feature).
- You can download Epson iProjection for free from App Store or Google play. Any fees incurred when communicating with App Store or Google play are the responsibility of the customer.
- When using Epson iProjection in Quick connection mode, we recommend making security settings.

1 Press the [LAN] button on the remote control.

The QR code is displayed on the projected surface.

- If you do not see the QR code, set the **Display LAN Info.** setting to **Text & QR Code** in the projector's **Network** menu. ☛ **Network** > **Network Configuration** > **Basic** > **Display LAN Info.**
- To hide the QR code, press the [Esc] button.
- When the QR code is hidden, press the [Enter] button to display the code.
- You can also display the QR code by selecting the icon on the Home screen.

2 Start Epson iProjection on your mobile device.

3 Read the projected QR code using Epson iProjection to connect it to the projector.

To correctly read the QR code, make sure you face the screen squarely and closely enough so that the projected code fits into the guide of the mobile device's QR code reader. If you are too far from the screen, the code may not be read.

When a connection is established, select **Contents** menu from , and then select the file you want to project.

You can send image to your projector from mobile devices such as laptops, smartphones, and tablets using Miracast technology (EB-1795F/EB-1785W).

If your device supports Miracast, you do not need to install any additional software. When using a Windows computer, make sure the necessary adapter for the Miracast connection is available.

Note the following limitations when using Screen Mirroring features.

- You cannot play an interlaced image.
- You cannot play multi-channel audio over 3ch (channel 3).
- You cannot project images with a resolution above 1920 × 1080 and a frame rate above 30 fps.
- You cannot play 3D video.
- You may not be able to view contents with copyright protection with a Miracast connection depending on your device.
- Do not change the projector's Screen Mirroring Settings during Screen Mirroring projection. Doing so may cause the projector to disconnect and it may take a while to re-connect.
  ☛ **Network** > **Screen Mirroring Settings**
- Do not turn off the projector directly by the breaker during Screen Mirroring projection.

Mobile devices with Android installed or Windows 8.1 or later installed mainly support Miracast.
Support for Miracast varies depending on the mobile device. See your mobile device manual for details.

Related Links

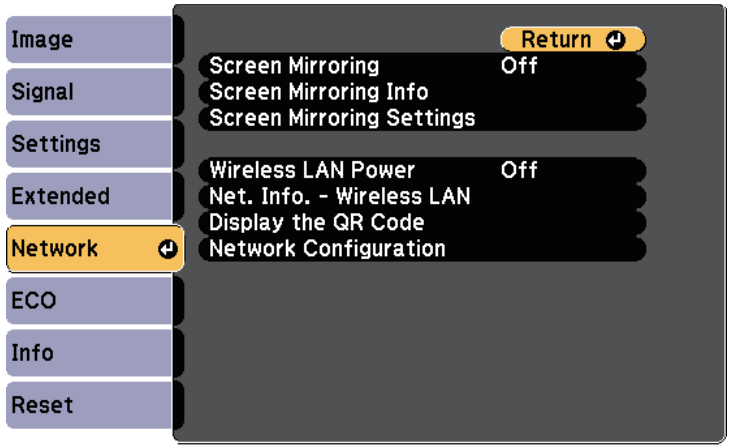
- "Selecting Screen Mirroring Settings" p.100
- "Connecting Using Screen Mirroring in Windows 10" p.102
- "Connecting Using Screen Mirroring in Windows 8.1" p.103
- "Connecting Using Screen Mirroring with the Miracast Function" p.104

Selecting Screen Mirroring Settings

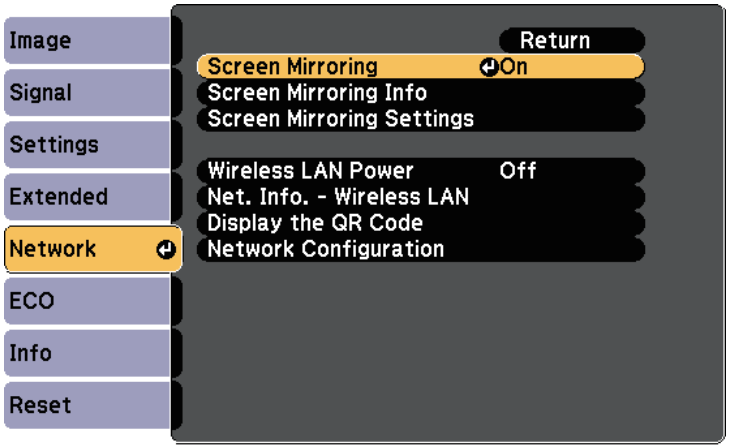
You must select Screen Mirroring settings for your projector to project images from your mobile device.

If you set a **Screen Mirroring Protec.** password, turn off your **Screen Mirroring Protec.** password first.

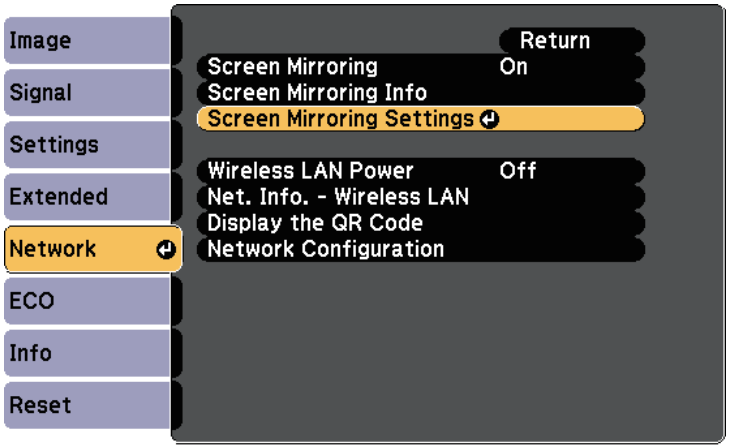
1. Press the [Menu] button on the control panel or remote control.
2. Select the **Network** menu and press [Enter].



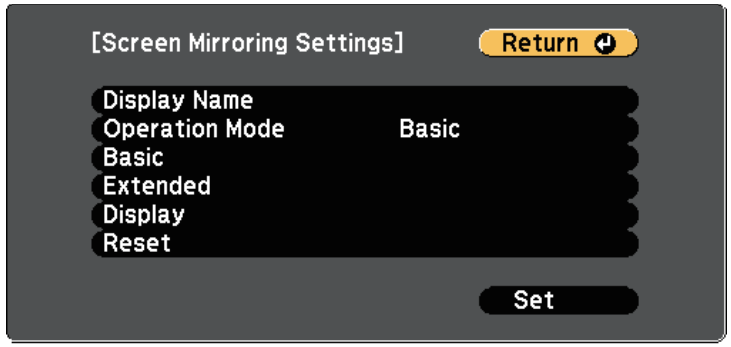
3 Select **On** as the **Screen Mirroring** setting.



4 Select **Screen Mirroring Settings** and press [Enter].



5 Set the **Display Name** setting as necessary.



6 Select the **Operation Mode** setting.

- **Basic** lets you connect with basic options.
- **Extended** lets you connect with advanced options.

7 Select the **Basic** setting as necessary.

- **Wireless LAN Sys.** lets you select the type of wireless LAN system the projector is connecting to.
- **Adjust Image Quality** lets you adjust the screen mirroring speed/quality. Select a small number to improve the quality and select large number to increase the speed.
- **Connection Mode** lets you select the type of WPS (Wi-Fi Protected Setup). Available only for the **Basic** operation mode.

8 For the **Extended** operation mode, select the **Extended** setting.

- **Meeting Mode** lets you select the type of meeting. Select **Interruptions OK** to connect to another mobile device during Screen Mirroring projection or **No Interruptions** to exclusively connect to one device.
- **Channel** lets you select the wireless channel used by Screen Mirroring.

9 Select the **Display** setting as necessary.

- **Display PIN Code** lets you display the PIN code on the projected image while projecting input sources other than Screen Mirroring.
- **Display Device Name** lets you display the newly connected device name on the projected image.

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

11 Press the [Home] button on the control panel or remote control. The settings are complete when you see the Display Name on the Home screen.

Connecting Using Screen Mirroring in Windows 10

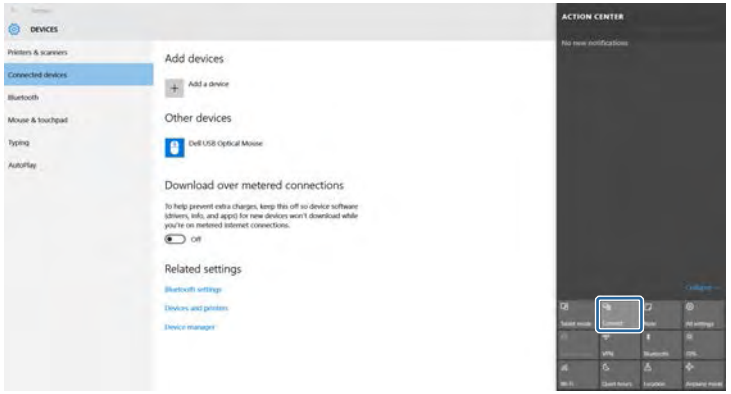
You can set up your computer for wireless projection and play audio through the projector's speaker system by connecting using Screen Mirroring.

1 Select **Screen Mirroring Settings** on your projector as necessary.

2 Press the [LAN] button on the remote control to switch to the Screen Mirroring source.

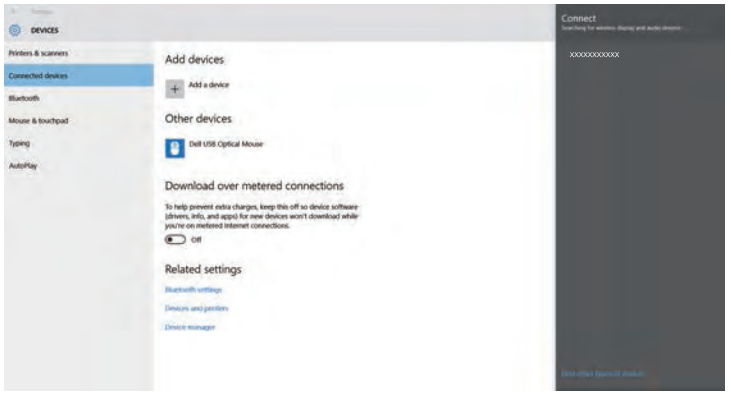
You see the Screen Mirroring standby screen.

3 Display **Action Center**, and then select **Connect**.



You see a list of available devices.

4 Select the projector's Display Name from the list.



5 If you see the PIN entry screen on your computer, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image.

The projector displays the image from your computer.

It may take some time until the connection is established. While connecting, do not disconnect the projector's power cord. Doing so may cause your device to freeze or malfunction.

Connecting Using Screen Mirroring in Windows 8.1

You can set up your computer for wireless projection from Charms in Windows 8.1. You can play audio through the projector's speaker system by connecting using Screen Mirroring.

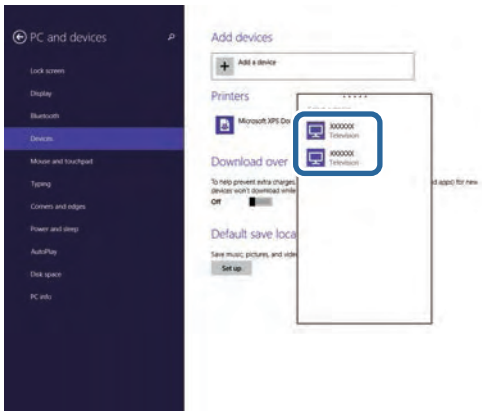
1. Select **Screen Mirroring Settings** on your projector as necessary.
2. Press the [LAN] button on the remote control to switch to the Screen Mirroring source.

   You see the Screen Mirroring standby screen.
3. On your computer, select **Devices** from Charms and select **Project**.

4. Select **Add a wireless display**.

You see a list of available devices.

5. Select the projector's Display Name from the list.



6. If you see the PIN entry screen on your computer, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image.

   The projector displays the image from your computer.

It may take some time until the connection is established. While connecting, do not disconnect the projector's power cord. Doing so may cause your device to freeze or malfunction.

Connecting Using Screen Mirroring with the Miracast Function

If your mobile device such as a smartphone supports Miracast, you can connect it to the projector wirelessly and project images. You can play audio through the projector's speaker system by connecting using Screen Mirroring.

1. Select **Screen Mirroring Settings** on your projector as necessary.
2. Press the [LAN] button on the remote control to switch to the Screen Mirroring source.

   You see the Screen Mirroring standby screen.
3. On your mobile device, use your Miracast function to search for the projector.

   You see a list of available devices.
4. Select the projector's Display Name from the list.
5. If you see the PIN entry screen on your mobile device, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image.

   The projector displays the image from your mobile device.

It may take some time until the connection is established. While connecting, do not disconnect the projector's power cord. Doing so may cause your device to freeze or malfunction.

Depending on the mobile device, you may need to delete a device when connecting. Follow the on-screen instructions on your device.

You can use the HTTPS protocol to increase security between the projector and a Web browser communicating with it (EB-1795F/EB-1785W/EB-1781W). To do this, you create a server certificate, install it on the projector, and turn on the **Secure HTTP** setting in the projector menus to verify the reliability of the Web browser.

☛ **Network** > **Network Configuration** > **Others** > **Secure HTTP**

Even if you do not install a server certificate, the projector automatically creates a self-signed certificate and allows communication. However, because the self-signed certificate cannot verify reliability from a Web browser, you see a warning about the server's reliability when you access the projector from a Web browser. This warning does not prevent communication.

Related Links

- "Importing a Web Server Certificate Using the Menus" p.105

Importing a Web Server Certificate Using the Menus

You can create your Web server certificate, and import it using the projector menus and a USB flash drive.

> You can also register the digital certificates from your Web browser. However, be sure to register just once or the certificate may not install correctly.

1. Make sure your digital certificate file is compatible with projector registration and directly placed on the USB storage device.
2. Press the [Menu] button on the control panel or remote control.
3. Select the **Network** menu and press [Enter].
4. Select **Network Configuration** and press [Enter].
5. Select the **Others** menu and press [Enter].
6. Select **On** as the **Secure HTTP** setting.
7. Select **Web Server Cert.** and press [Enter].
8. Select **Register** and press [Enter].
9. Follow the on-screen instructions to connect a USB storage device to the projector's USB-A port.
10. Press [Enter] to display the certificate list.
11. Select the certificate to import using the displayed list.

    A message is displayed prompting you to enter the password for the certificate.
12. Enter a password and press [Enter].

    The certificate is imported and a completion message appears.

Related Links

- "Supported Web Server Certificates" p.105

Supported Web Server Certificates

You can register these types of digital certificates.

Web Server Certificate (Secure HTTP)

Specification	Description
Format	PKCS#12
Extension	PFX, P12
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Common name	Network host name

Specification	Description
Organization	Optional
Password *	Up to 32 alphanumeric characters; required

* You can set a password using up to 63 alphanumeric characters. However, you need to use your Web browser to enter more than 32 characters.

Controlling the Projector

Follow the instructions in these sections to control the projector over a network.

Related Links

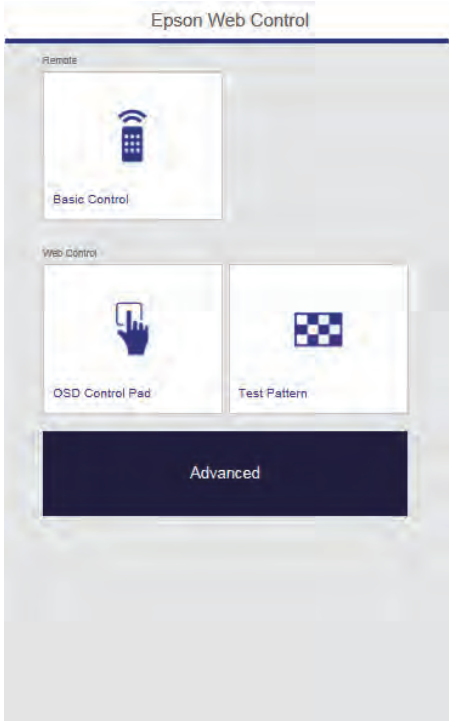
- "Controlling a Networked Projector Using a Web Browser" p.108
- "Using ESC/VP21 Commands" p.112

Once you have connected your projector to your network, you can select projector settings and control projection using a compatible Web browser. This lets you access the projector remotely.

- Make sure the computer and projector are connected to the network. When projecting images using a wireless LAN, connect in **Advanced** connection mode.
- The Web setup and control features support Internet Explorer 9.0 or later (Windows), and Safari (OS X) on networks that do not use a proxy server for connection. You cannot select all of the projector menu settings or control all projector functions using a Web browser.

1. Make sure the projector is turned on.
2. Make sure your computer or device is connected to the same network as the projector.
3. Start your Web browser on the computer or device.
4. Go to the Epson Web Control screen by entering the projector's IP address into the browser's address box.

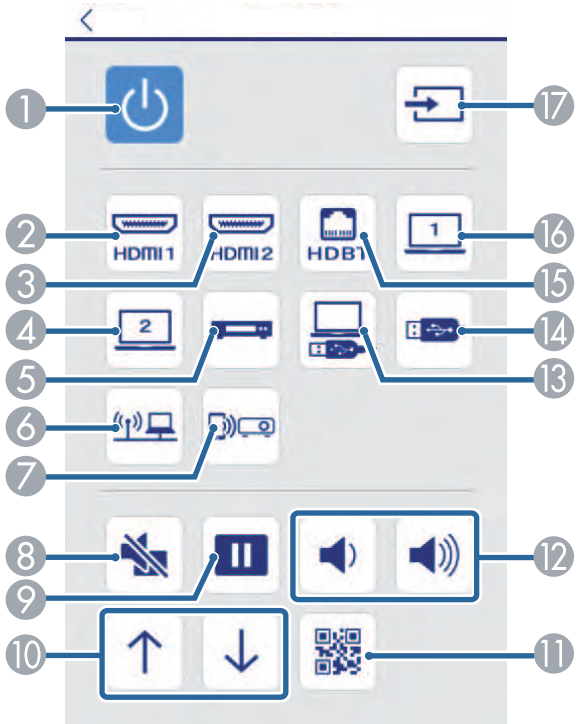
   You see the Epson Web Control screen.



5. To control projection remotely, select **Basic Control**.

- If you see a log in window, enter your user name and password. (The user name is **EPSONREMOTE** and the default password is **guest**.)
- You can change the password in **Remote Password** in the projector's **Network** menu.
  ☛ **Network** > **Network Configuration** > **Basic** > **Remote Password**

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



1. Power button control
2. Selects HDMI port source
4. Selects Computer port source
5. Selects Video source
6. Selects the network source
7. Selects the Screen Mirroring source (EB-1795F/EB-1785W)
8. A/V Mute button control
9. Freeze button control
10. Page up and down button controls
11. Displays the QR code
12. Volume button controls
13. Selects the USB Display source
14. Selects the USB device source
17. Searches for sources

7 To select projector menu settings, select **Advanced** on the Epson Web Control screen.

- You can also change projector settings by accessing the projector menu system from **OSD Control Pad**. See help on how to use the OSD Control Pad screen.
- You may need to log in before you see the Advanced, OSD Control Pad, or Test Pattern screen. If a login screen is displayed, enter your user name and password. (The user name is **EPSONWEB** and the default password is **admin**.)
- You can change the password in **Web Control Password** in the projector's **Network** menu.
  ☛ **Network** > **Network Configuration** > **Basic** > **Web Control Password**

8 Select the name of the menu and follow the on-screen instructions to select settings.

- You cannot select the following settings using a Web browser.
  - Gesture Presenter
  - Pointer Shape
  - User Button
  - Test Pattern
  - User's Logo
  - Language
  - Reset Lamp Hours
- You can select the following settings only using a Web browser.
  - HTTP port (port number used for Web Control except for 80 [default], 843, 3620, 3621, 3625, 3629, 4352, 4649, 5357, 10000, 10001, 41794)

Related Links

- "Registering Digital Certificates from a Web Browser" p.110
- "Projector Setup Settings - ECO Menu" p.131
- "Network Menu - Basic Menu" p.126

Registering Digital Certificates from a Web Browser

You can register the digital certificates on the projector to provide security for your presentation files (EB-1795F/EB-1785W).

You can also register the digital certificates in the projector's **Network** menu. However, be sure to register just once or the certificate may not install correctly.

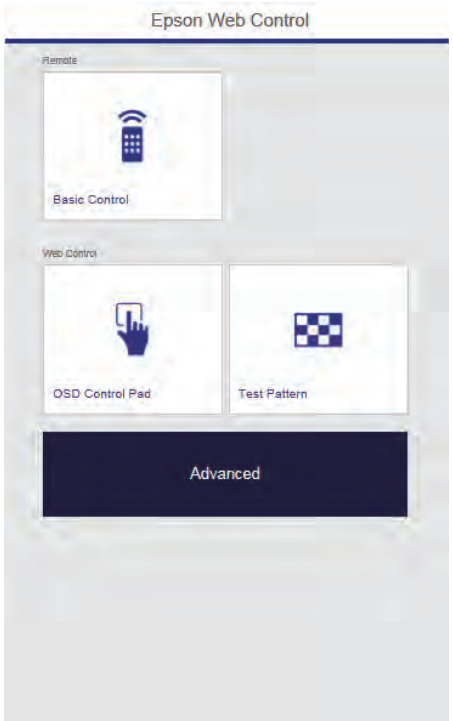
☛ **Network** > **Network Configuration** > **Wireless LAN** > **EAP Method** > **Client Certificate**

☛ **Network** > **Network Configuration** > **Wireless LAN** > **EAP Method** > **CA certificate**

☛ **Network** > **Network Configuration** > **Others** > **Web Server Certificate**

1. Make sure your digital certificate file is compatible with projector registration.
2. Make sure the projector is turned on.
3. Start your Web browser on a computer or device connected to the network.
4. Go to the Epson Web Control screen by entering the projector's IP address into the browser's address box.

   You see the Epson Web Control screen.



5. Select **Advanced**.

- You may need to log in before you see the Advanced screen. If a login screen is displayed, enter your user name and password. (The user name is **EPSONWEB** and the default password is **admin**.)
- You can change the password in **Web Control Password** from the projector's **Network** menu.
  ☛ **Network** > **Network Configuration** > **Basic** > **Web Control Password**

6. Under **Network**, select **Manage Certificates**.
7. Click the **Browse** button, select the certificate file, and click **Open**.
8. Enter a password in the **Password** box.
9. When you finish registering the certificate, click **Apply** to finalize your changes and complete the registration.

You can control the projector from an external device using ESC/VP21.

Related Links

- "Setting Up for Using ESC/VP21 Commands" p.112
- "ESC/VP21 Command List" p.112
- "Communications Protocol" p.112

Setting Up for Using ESC/VP21 Commands

The first time you control and monitor the projector using ESC/VP21 commands, you must install the USB communication driver on your computer and set up the projector. You do not need to install the driver the next time.

1. Install the USB communication driver (EPSON USB-COM Driver) on your computer. For information about the EPSON USB-COM Driver, contact Epson.
2. Set the **USB Type B** setting to **Link 21L** in the projector's **Extended** menu.
3. Connect your computer to the projector's USB-B port using a USB cable.

You can start from step 2 the next time you use the commands.

ESC/VP21 Command List

When the power ON command is transmitted to the projector, the power turns on and it enters warm-up mode. When the projector's power has turned on, a colon ":" (3Ah) is returned.

When a command is input, the projector executes the command and returns a ":", and then accepts the next command.

If the command being processed terminates abnormally, an error message is output and a ":" is returned.

The following commands are available.

Item			Command
Power On/Off	On		PWR ON
	Off		PWR OFF
Signal selection	Computer	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	HDMI		SOURCE 30
	Video		SOURCE 41
	USB Display		SOURCE 51
	USB		SOURCE 52
	LAN		SOURCE 53
	Screen Mirroring *		SOURCE 56
A/V Mute On/Off	On		MUTE ON
	Off		MUTE OFF

* Screen Mirroring is available only with the EB-1795F/EB-1785W.

Add a Carriage Return (CR) code (0Dh) to the end of each command and transmit.

Contact Epson for more details.

Communications Protocol

- Default baud rate setting: 9600 bps
- Data length: 8 bit
- Parity: None
- Stop-bit: 1 bit

- Flow control: None

Adjusting the Menu Settings

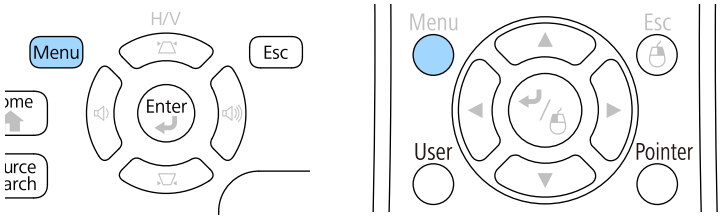
Follow the instructions in these sections to access the projector menu system and change projector settings.

Related Links

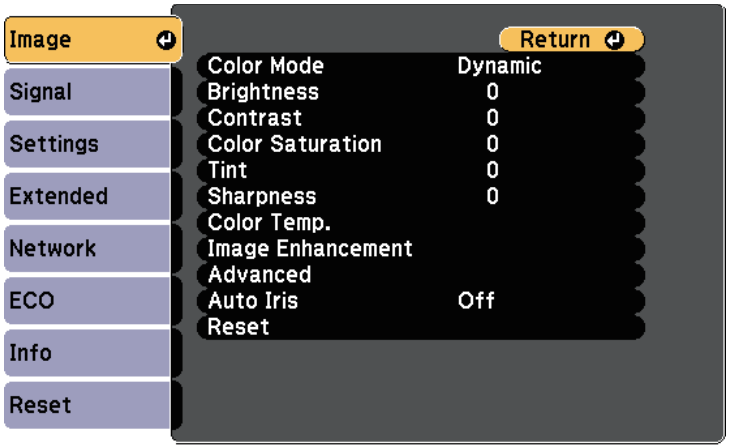
- "Using the Projector's Menus" p.115
- "Using the On-screen Keyboard" p.116
- "Image Quality Settings - Image Menu" p.117
- "Input Signal Settings - Signal Menu" p.119
- "Projector Feature Settings - Settings Menu" p.121
- "Projector Setup Settings - Extended Menu" p.123
- "Projector Network Settings - Network Menu" p.125
- "Projector Setup Settings - ECO Menu" p.131
- "Projector Information Display - Info Menu" p.133
- "Projector Reset Options - Reset Menu" p.136
- "Copying Menu Settings Between Projectors (Batch Setup)" p.137

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

1. Press the [Menu] button on the control panel or remote control.



You see the menu screen displaying the **Image** menu settings.



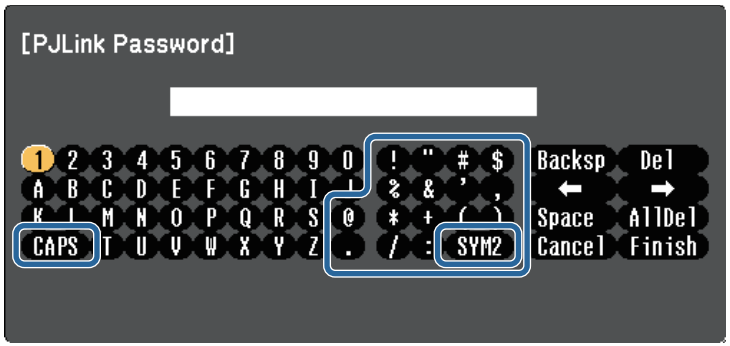
2. Press the up or down arrow buttons to move through the menus listed on the left. The settings for each menu are displayed on the right.

> The available settings depend on the current input source.

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

The on-screen keyboard is displayed when you need to enter numbers and characters.

1 Use the arrow buttons on the control panel or remote control to highlight the number or character you want to enter and press the [Enter] button.



Each time you select the **CAPS** key, the characters change between upper case and lower case. Each time you select the **SYM1/2** key, the symbols enclosed by the frame change.

2 After entering the text, select **Finish** on the keyboard to confirm your entries. Select **Cancel** to cancel entering text.

You can select projector settings and control projection over a network using a Web browser from your computer.

Some symbols cannot be entered using the on-screen keyboard. Use your Web browser to enter the text.

Related Links

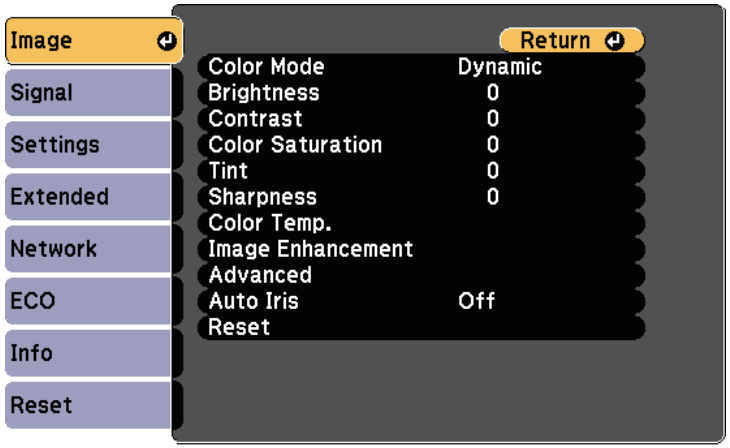
- "Available Text Using the On-screen Keyboard" p.116
- "Controlling a Networked Projector Using a Web Browser" p.108

Available Text Using the On-screen Keyboard

You can enter the following text when using the on-screen keyboard.

Text type	Details
Numbers	0123456789
Alphabet	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
Symbols	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~

Settings on the **Image** menu let you adjust the quality of your image for the input source you are currently using. The available settings depend on the currently selected input source.



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

Setting	Options	Description
Color Mode	See the list of available color modes	Adjusts the vividness of image colors for various image types and environments.
Brightness	Varying levels available	Lightens or darkens the overall image.
Contrast	Varying levels available	Adjusts the difference between light and dark areas of the image.
Color Saturation	Varying levels available	Adjusts the intensity of the image colors.
Tint	Varying levels available	Adjusts the balance of green to magenta tones in the image.
Sharpness	Varying levels available	Adjusts the sharpness or softness of image details.

Setting	Options	Description
Color Temp.		Sets the color tone based on color temperature. The image is tinted blue when a high value is selected and tinted red when a low value is selected.
	Color Temp.	**Color Temp.**: sets the color temperature according to the color mode you selected.
	Customized	**Customized**: adjusts the individual R (red), G (green), and B (blue) components of the offset and gain.
Image Enhancement	Noise Reduction	Reduces flickering in analog images.
Advanced		Selects the various detailed color settings:
	Gamma	**Gamma**: adjusts the coloring by selecting one of the gamma correction values, or referring to the projected image or a gamma graph.
	RGBCMY	**RGBCMY**: adjusts the hue, saturation, and brightness of each color R (red), G (green), B (blue), C (cyan), M (magenta), Y (yellow) individually.
	Deinterlacing (For interlaced signal [480i/576i/1080i] input)	**Deinterlacing**: sets whether or not to convert interlaced-to-progressive signals for certain video image types. • **Off**: for fast-moving video images. • **Video**: for most video images. • **Film/Auto**: for movies, computer graphics, and animation.
Auto Iris	Off Normal High Speed	Adjusts the projected luminance based on the image brightness. Available when the Color Mode is set to **Dynamic** or **Cinema**.
Reset	—	Resets all adjustment values on the **Image** menu for the selected color mode to their default settings.

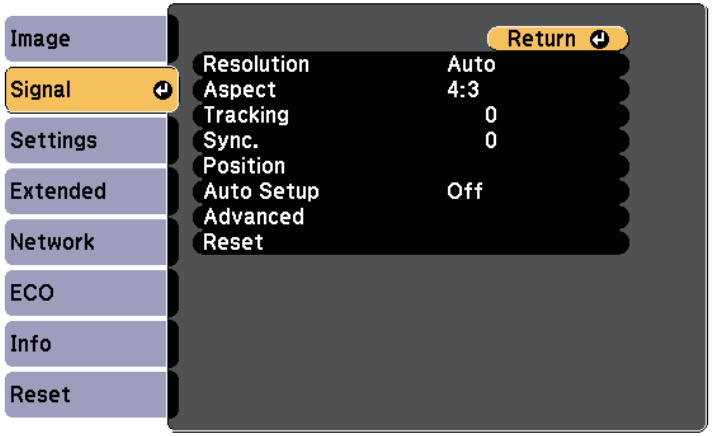
- The **Brightness** setting does not affect lamp brightness. To change the lamp brightness mode, use the **Power Consumption** setting in the projector's **ECO** menu.
- You cannot select the **Noise Reduction** setting when the following are being input.
  - The **Deinterlacing** setting is set to **Off**.
  - A digital RGB signal is being input.
  - An interlaced signal (480i/576i/1080i) is being input.

Related Links

- "Available Color Modes" p.54

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

You cannot select settings on the **Signal** menu when the current input source is one of the following:
- USB Display
- USB
- LAN
- Screen Mirroring (EB-1795F/EB-1785W)



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

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

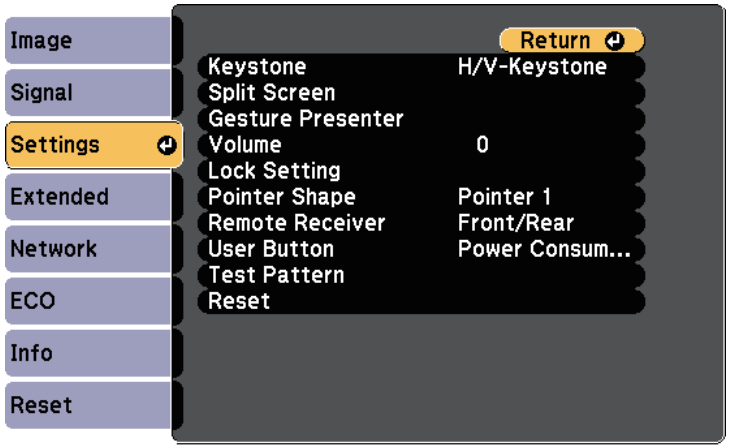
Setting	Options	Description
Resolution	Auto Wide Normal	Sets the input signal resolution if not detected automatically using the **Auto** option.
Aspect	See the list of available aspect ratios.	Sets the aspect ratio (width-to-height ratio) for the selected input source.
Tracking	Varying levels available	Adjusts the signal to eliminate vertical stripes in computer images.
Sync.	Varying levels available	Adjusts the signal to eliminate fuzziness or flickering in computer images.
Position	—	Adjusts the image location on the screen.
Auto Setup	On Off	Automatically optimizes computer image quality (when **On**).
Overscan	Auto Off 4% 8%	Changes the projected image ratio to make the edges visible by a selectable percentage or automatically.
Advanced	HDMI Video Range	**HDMI Video Range**: sets the video range to match the setting of the device connected to the HDMI port. • **Auto**: detects the video range automatically. • **Normal**: normally for images from a device other than a computer; can also be selected if the black areas of the image are too bright. • **Expanded**: normally for images from a computer; can also be selected if the image is too dark.
	Input Signal	**Input Signal**: specifies the signal type from the input sources connected to the computer ports. • **Auto**: detects signals automatically. • **RGB**: inputs computer/RGB video signals. • **Component**: inputs component video signals.

Setting	Options	Description
	Video Signal	**Video Signal**: specifies the signal type from the input sources connected to the video ports. If interference appears or no image appears when set to **Auto**, select the appropriate signal according to the connected equipment.
Reset	—	Resets all adjustment values on the **Signal** menu to their default settings, except for the following: • **Input Signal**

Related Links

- "Available Image Aspect Ratios" p.52

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



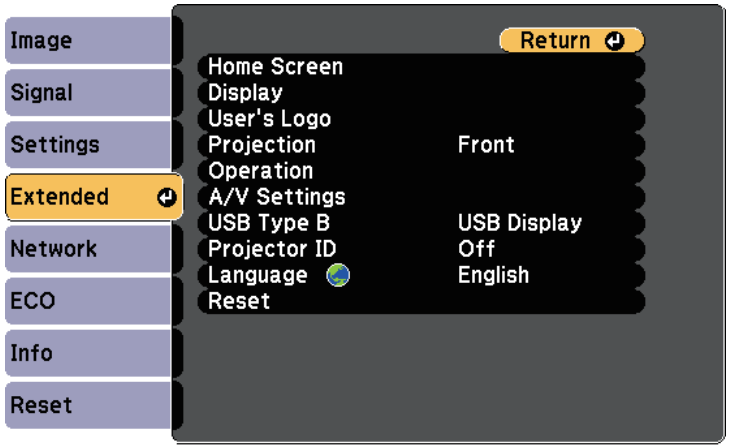
Setting	Options	Description
Keystone		Adjusts image shape to rectangular (horizontally and vertically).
	H/V-Keystone	**H/V-Keystone**: select to manually correct horizontal and vertical sides, or turn automatic correction on or off.
	Quick Corner	**Quick Corner**: select to correct image shape and alignment using an on-screen display.
Split Screen	Screen Size Source Swap Screens Audio Source Align Display the QR Code Exit Split Screen	Divides the viewing area horizontally and displays two images side-by-side (press [Esc] to cancel split screen display).
Gesture Presenter *		Adjusts the Gesture Presenter options:

Setting	Options	Description
	Start/Stop	**Start/Stop**: starts or stops the Gesture Presenter feature.
	Marker Position	**Marker Position**: sets the marker position to the right or left.
	Gesture Presenter	**Gesture Presenter**: enables or disables the Gesture Presenter feature.
Volume	Varying levels available	Adjusts the volume of projector's speaker system. Setting values are saved for each source.
Lock Setting	Control Panel Lock	Controls projector button locking to secure the projector: **Full Lock**: locks all buttons. **Partial Lock**: locks all buttons except the power button. **Off**: no buttons locked.
Pointer Shape	Pointer 1: Pointer 2: Pointer 3:	Changes the shape of the remote control pointer.
Remote Receiver	Front/Rear Front Rear Off	Limits reception of remote control signals by the selected receiver; **Off** turns off all receivers.
User Button	Power Consumption Info Deinterlacing Test Pattern Resolution Display the QR Code	Assigns a menu option to the [User] button on the remote control for one-touch access.

Setting	Options	Description
Test Pattern	—	Displays a test pattern to assist in focusing and zooming the image and correcting image shape (press the [Esc] button to cancel pattern display). **Attention** If a pattern is displayed for a long time, a residual image may be visible in projected images.
Reset	—	Resets all adjustment values on the **Settings** menu to their default settings, except for the following: • **User Button**

* Available only for EB-1795F/EB-1785W/EB-1781W.

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



Setting	Options	Description
Home Screen		Selects the projector's Home screen display options:
	Home Screen Auto Disp.	**Home Screen Auto Disp.**: select whether or not to display the Home screen automatically when there is no input signal when turning on the projector.
	Custom Function 1 Custom Function 2	**Custom Function 1/Custom Function 2**: select to set functions and the display as the customized Home screen.
Display		Selects various display options:
	Messages	**Messages**: set to **On** to display messages such as input source name, color mode name, aspect ratio, no signal message, or high temperature warning on your projected image. Set to **Off** if you do not want to display messages.

Setting	Options	Description
	Display Background	**Display Background**: sets the screen color or logo to display when no signal is received.
	Startup Screen	**Startup Screen**: set to **On** to display a logo when the projector starts up.
	A/V Mute	**A/V Mute**: sets the screen color or logo to display when A/V Mute is turned on.
User's Logo	—	Creates a screen that the projector displays to identify itself and enhance security.
Projection	Front Front/Ceiling Rear Rear/Ceiling	Selects the way the projector faces the screen so the image is oriented correctly.
Operation		Selects various operation options:
	Direct Power On	**Direct Power On**: lets you turn on the projector by plugging it in without pressing the power button.
	High Altitude Mode	**High Altitude Mode**: regulates the projector's operating temperature at altitudes above 1500 m.
	Auto Source Search	**Auto Source Search**: set to **On** to detect the input signal automatically and project images when there is no input signal.
	Auto Power On	**Auto Power On**: select the image source from which you want to automatically start projection. When the projector detects the input signal from the selected image source, it projects automatically in standby mode.

Setting	Options	Description
	Date & Time *	**Date & Time**: adjusts the projector's system time and date settings. • **Daylight Saving Time**: set to **On** to activate daylight saving time. • **Internet Time**: set to **On** to update the time automatically through an Internet time server.
A/V Settings		Selects various audio and video output settings:
	HDMI Audio Output	**HDMI Audio Output**: selects the audio input port when projecting images from HDMI ports.
USB Type B	USB Display	**USB Display**: enables the **USB Display**.
	Link 21L	**Link 21L**: enables ESC/VP21 commands.
Projector ID	Off 1 through 9	Assigns an ID for the projector when you use multiple projectors.
Language	Various languages available	Select the language for projector menu and message displays.
Reset	—	Resets all adjustment values on the **Extended** menu to their default settings, except for the following: • **User's Logo** • **Projection** • **High Altitude Mode** • **Auto Source Search** • **Date & Time** * • **USB Type B** • **Projector ID** • **Language**

* Available only for EB-1795F/EB-1785W/EB-1781W.

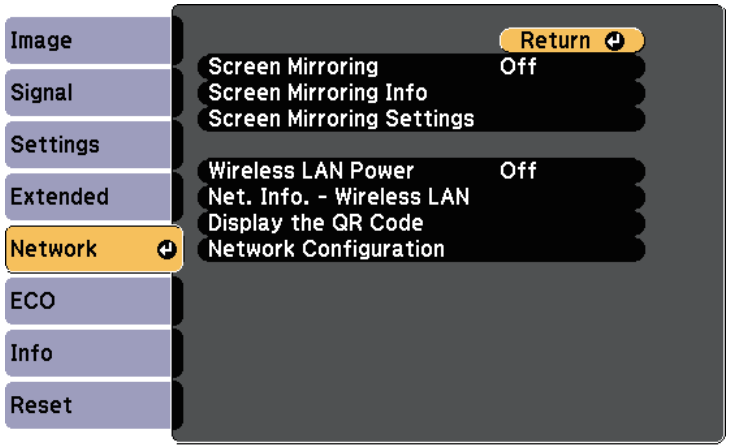
When you set **User's Logo Protection** to **On** in the **Password Protection** screen, you cannot change settings related to user's logo display (**Display Background**, **Startup Screen**, **A/V Mute** in the **Display** setting). Set **User's Logo Protection** to **Off** first.

Related Links

• "Selecting Password Security Types" p.87

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

When you set **Network Protection** to **On** in the **Password Protection** screen, you cannot change the network settings. Set **Network Protection** to **Off** first.



Setting	Options	Description
Screen Mirroring *	On Off	Configures your Screen Mirroring settings. Select **On** to project with the Screen Mirroring features.
Screen Mirroring Info *	Display Name MAC Address Region Code Channel Connected Device	Displays Screen Mirroring status and details. Available when you have set **Screen Mirroring** to **On**.
Screen Mirroring Settings *	To Screen Mirroring Settings menu	Configures your Screen Mirroring settings.
Wireless LAN Power	On Off	Configures your wireless LAN settings. Select **On** to project images via a wireless LAN. If you do not want to connect via wireless LAN, turn it off to prevent unauthorized access by others.
Net. Info. - Wireless LAN	Connection Mode Wireless LAN Sys. Antenna Level Projector Name SSID DHCP IP Address Subnet Mask Gateway Address MAC Address Region Code	Displays wireless network status and details. Available when you have set **Wireless LAN Power** to **On**.
Display the QR Code	—	Displays a QR code for connecting with iOS or Android devices using the Epson iProjection app.
Network Configuration	To additional network menus	Configures your network settings.

* Available only for EB-1795F/EB-1785W.

Once you have connected your projector to your network, you can select projector settings and control projection using a compatible Web browser. This allows you to access the projector remotely.

Related Links

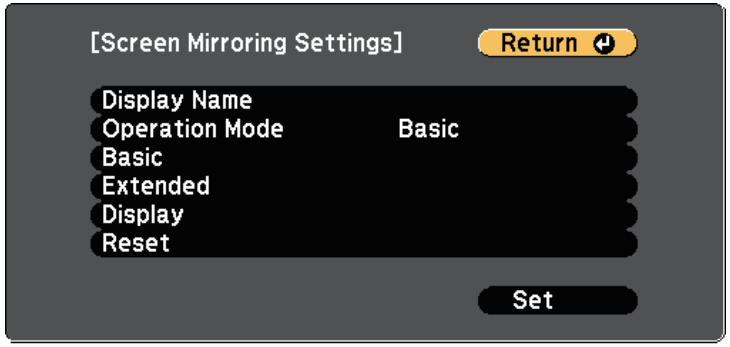
- "Network Menu - Screen Mirroring Settings" p.126
- "Network Menu - Basic Menu" p.126
- "Network Menu - Wireless LAN Menu" p.127
- "Network Menu - Others Menu" p.130
- "Network Menu - Reset Menu" p.130

- "Selecting Password Security Types" p.87

Network Menu - Screen Mirroring Settings

Settings on the **Screen Mirroring Settings** menu let you select the Screen Mirroring settings (EB-1795F/EB-1785W).

☛ **Network** > **Screen Mirroring Settings**

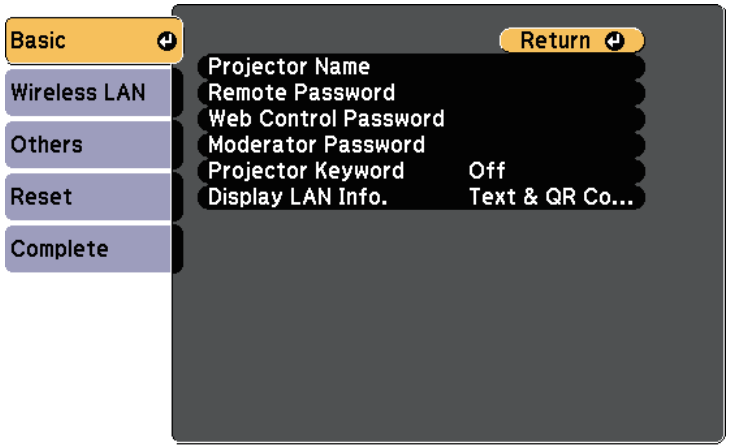


Setting	Options	Description
Display Name	Up to 32 alphanumeric characters	Enter a name to identify the projector when searching for the projector using the screen mirroring feature.
Operation Mode	Basic Extended	Select **Extended** to connect with advanced options.
Basic	Wireless LAN Sys.	Sets the communication method between the projector and the mobile device.
	Adjust Image Quality	Adjusts the screen mirroring speed/quality. When you want to increase image quality, select a small number. When you want to increase processing speed, select a large number.
	Connection Mode	Selects the type of WPS (Wi-Fi Protected Setup) when you connect to the network wirelessly. Select **PIN** to improve the connection security. If your mobile device supports only the PBC connection, select **PIN/PBC**. Available when you have set **Operation Mode** to **Basic**.
Extended		Available when you have set **Operation Mode** to **Extended**.
	Meeting Mode	Selects the type of meeting. • **Interruptions OK**: lets you connect to another mobile device during Screen Mirroring projection. • **No Interruptions**: lets you exclusively connect to one device.
	Channel	Selects the wireless channel used by Screen Mirroring.
Display	Display PIN Code	Set to **On** to display the eight-digit PIN code on the projected image when projecting input sources other than Screen Mirroring.
	Display Device Name	Set to **On** to display the newly connected device name on the projected image when projecting input sources other than Screen Mirroring.
Reset	—	Resets all adjustment values on the **Screen Mirroring Settings** menu to their default settings.

Network Menu - Basic Menu

Settings on the **Basic** menu let you select the basic network settings.

☛ **Network** > **Network Configuration** > **Basic**

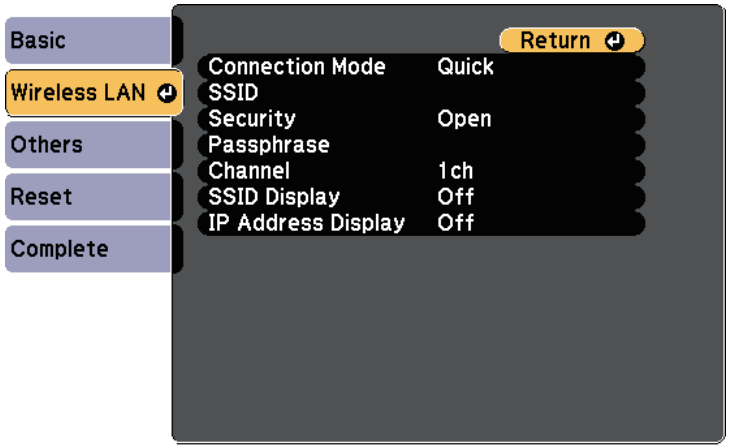


Setting	Options	Description
Projector Name	Up to 16 alphanumeric characters (do not use " * + , / : ; < = > ? [\ ] ` | spaces)	Enter a name to identify the projector over the network.
Remote Password	Up to 8 alphanumeric characters (do not use * : spaces)	Enter a password for accessing the projector using the Basic Control. (User name is **EPSONREMOTE**; default password is **guest**.)
Web Control Password	Up to 8 alphanumeric characters (do not use * : spaces)	Enter a password for accessing the projector over the Web. (User name is **EPSONWEB**; default password is **admin**.)
Moderator Password	Four-digit number	Enter a password for accessing the projector as a moderator using EasyMP Multi PC Projection or Epson iProjection. (No password is set by default.)
Projector Keyword	On Off	Set to **On** to enable a security password to prevent access to the projector by anyone not in the same room as the projector. You must enter the random keyword displayed from a computer using EasyMP Multi PC Projection or Epson iProjection to access the projector and share the current screen.
Display LAN Info.	Text & QR Code Text	Set the display format for the projector's network information. By simply reading the QR code with Epson iProjection, you can connect the mobile device to the projector through a network. The default value is **Text & QR Code**.

Network Menu - Wireless LAN Menu

Settings on the **Wireless LAN** menu let you select the wireless LAN settings.

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



Setting	Options	Description
Connection Mode		Select the type of wireless connection:
	Quick	**Quick**: lets you connect to multiple smartphones, tablets, or computers directly using wireless communication. When you select **Quick** connection mode, the projector acts as an easy access point. (We recommend limiting the number of devices to six or less to maintain the projection performance.)
	Advanced	**Advanced**: lets you connect to multiple smartphones, tablets, or computers over a wireless network access point.
Search Access Point	To Search View	Search for available wireless network access points in Advanced connection mode. Depending on the access point settings, they may not be displayed in the list.
SSID	Up to 32 alphanumeric characters	Sets the SSID (network name) of the wireless LAN system the projector is connecting to.

Setting	Options	Description
Security		Selects the type of security used on the wireless network. When setting security, follow the instructions from the administrator of the network system you want to connect to.
	Open	**Open**: security is not set.
	WPA2-PSK	**WPA2-PSK**: communication is performed using WPA2 security. Uses AES method for encryption. When establishing a connection from a computer to the projector, enter the value set in the passphrase.
	WPA/WPA2-PSK	**WPA/WPA2-PSK**: connects in WPA personal mode. Encryption method is selected automatically according to the access point settings. Set a passphrase which is the same for the access point.
	WPA2-EAP * WPA/WPA2-EAP *	**WPA2-EAP** or **WPA/WPA2-EAP**: connects in WPA enterprise mode. Encryption method is selected automatically according to the access point settings. Select this item when using LEAP.
Passphrase	Various passphrases from 8 to 32 characters (when entering from a Web browser: various passphrases from 8 to 63 characters)	For **WPA2-PSK** and **WPA/WPA2-PSK** security, selects the pre-shared passphrase used on the network. When the passphrase is entered and the [Enter] button is pressed, the value is set and displayed as an asterisk (*). We recommend changing the passphrase periodically for security. If the network settings are initialized, it returns to the initial passphrase.
EAP Method *		Set the EAP settings for **WPA2-EAP** and **WPA/WPA2-EAP** security.

Setting	Options	Description
	EAP Type	**EAP Type**: selects the protocol for authentication. • **PEAP**: authentication protocol widely used in Windows Server. • **PEAP-TLS**: authentication protocol used in Windows Server. Select this when using a client certificate. • **EAP-TLS**: authentication protocol widely used to use a client certificate. • **EAP-FAST**, **LEAP**: select this when these authentication protocols are used.
	User name	**User name**: enter up to 63 alphanumeric characters. You can enter up to 32 alphanumeric characters in the projector menu. To enter more than 32 characters, use your Web browser. You can enter a domain name by adding it before the user name and separating them with a backslash (domain\username). When importing a client certificate, the name the certificate was issued to is automatically set.
	Password	**Password**: enter a password up to 63 alphanumeric characters for authentication when using the **PEAP**, **EAP-FAST**, or **LEAP** type. You can enter up to 32 alphanumeric characters in the projector menu. To input more than 32 characters, use your Web browser. After you enter the password and select **Finish**, the password is displayed as an asterisk (*).
	Client Certificate	**Client Certificate**: imports the client certificate when using the **PEAP-TLS** or **EAP-TLS** type.

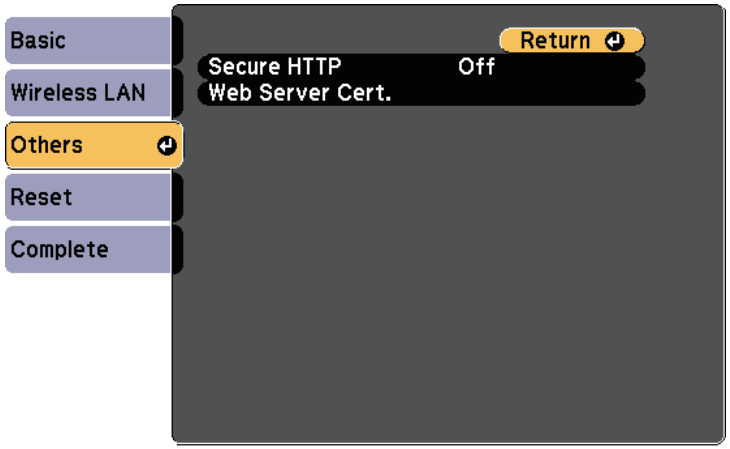
Setting	Options	Description
	Verify Server Cert.	**Verify Server Cert.**: selects whether to verify the server certificate when a CA certificate has been set.
	CA certificate	**CA certificate**: imports the CA certificate when using the **PEAP**, **PEAP-TLS**, **EAP-TLS**, or **EAP-FAST** type.
	RADIUS Serv.Name	**RADIUS Serv.Name**: enter the server name to verify. You can enter up to 32 alphanumeric characters (you cannot use * : and spaces).
Channel	1ch 6ch 11ch	In Quick connection mode, selects the frequency band (channel) used by the wireless LAN.
IP Settings	DHCP IP Address Subnet Mask Gateway Address	**DHCP**: set to **On** if your network assigns addresses automatically; set to **Off** to manually enter the network's **IP Address**, **Subnet Mask**, and **Gateway Address** using 0 to 255 for each address field. Do not use these addresses: 0.0.0.0, 127.x.x.x, 192.0.2.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255) for IP Address, 255.255.255.255 or 0.0.0.0 through 254.255.255.255 for Subnet Mask, and 0.0.0.0, 127.x.x.x or 224.0.0.0 through 255.255.255.255 for Gateway Address.
SSID Display	On Off	Select whether to display the SSID on the network standby screen and Home screen.
IP Address Display	On Off	Select whether to display the IP address on the network standby screen and Home screen.

* Available only for EB-1795F/EB-1785W/EB-1781W.

Network Menu - Others Menu

Settings on the **Others** menu let you select other network settings (EB-1795F/EB-1785W/EB-1781W).

☛ **Network** > **Network Configuration** > **Others**

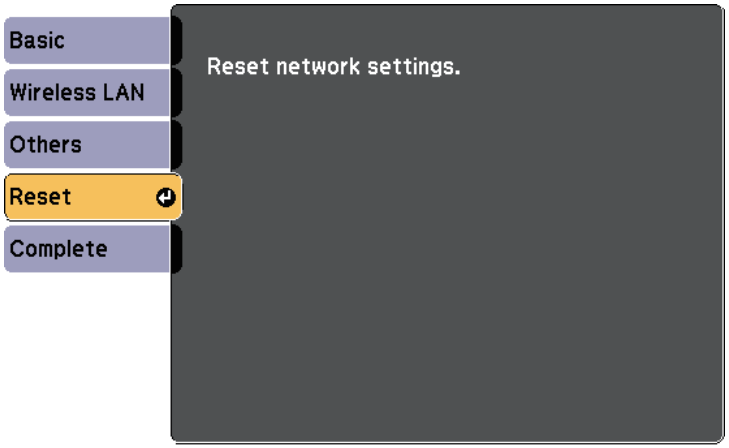


Setting	Options	Description
Secure HTTP	On Off	To strengthen security, communication between the projector and computer in Web control is encrypted. When setting security with Web control, it is recommended to set this to **On**.
Web Server Cert.	—	Imports the Web server certificate for secure HTTP.

Network Menu - Reset Menu

Settings on the **Reset** menu let you reset all of the network settings.

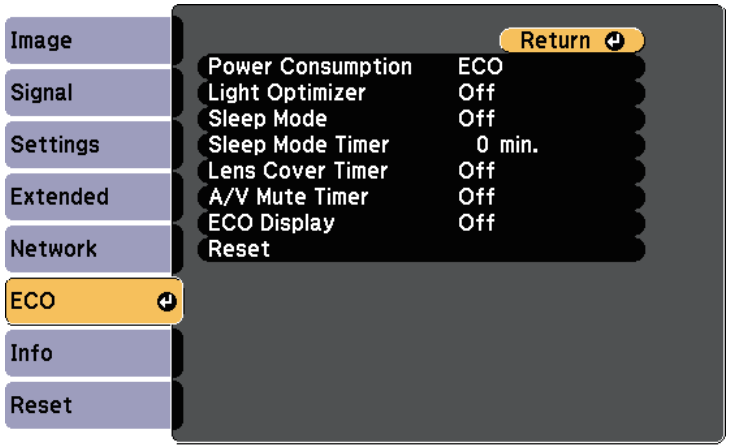
☛ **Network** > **Network Configuration** > **Reset**



Setting	Options	Description
Reset network settings.	Yes No	Select **Yes** to reset all network settings.

Settings on the **ECO** menu let you customize projector functions to save power.

When you select a power-saving setting, a leaf icon appears next to the menu item.



Setting	Options	Description
Power Consumption		Selects the brightness mode of the projector lamp. You cannot select settings when you use your projector at high altitude or in locations subject to high temperatures.
	Normal	**Normal**: sets maximum lamp brightness.
	ECO	**ECO**: reduces lamp brightness and fan noise, and saves power and lamp life.

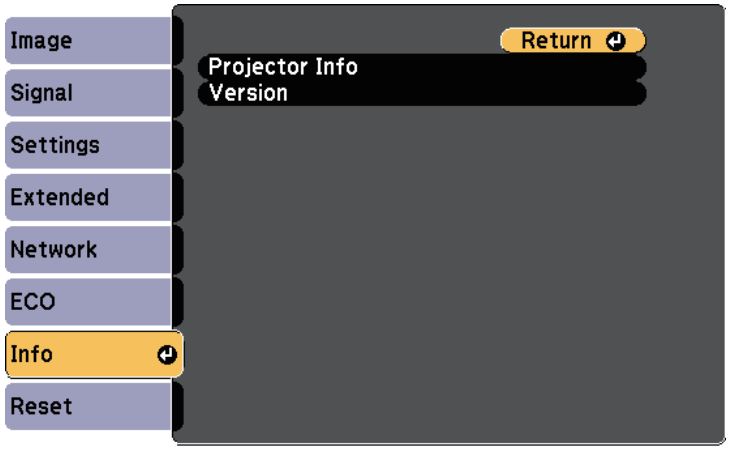
Setting	Options	Description
Light Optimizer	On Off	When set to **On**, the lamp brightness is adjusted according to the projected image. This helps to reduce the power consumption by lowering the lamp brightness according to the scene being projected. The setting is stored for each Color Mode. This item is enabled when: • **Power Consumption** is set to **Normal** or **Auto**. • **Auto Iris** is set to **Off**. ☛ **Image** > **Auto Iris**
Sleep Mode	On Off	Automatically turns off the projector after an interval of inactivity (when **On**).
Sleep Mode Timer	1 to 30 minutes	Sets the interval for Sleep Mode.
Lens Cover Timer	On Off	Automatically turns off the projector after 30 minutes if the lens cover is closed (when **On**).
A/V Mute Timer	On Off	Automatically turns off the projector after 30 minutes if **A/V Mute** is enabled (when **On**).
ECO Display	On Off	Displays a leaf icon in the bottom left corner of the projected screen to indicate the power-saving status when the lamp brightness changes (when **On**).
Reset	—	Resets all adjustment values on the **ECO** menu to their default settings.

- When the **Sleep Mode Timer** setting is enabled, the lamp dims for a short time before the timer limit is reached and the projector turns off.
- When the **Lens Cover Timer** or **A/V Mute Timer** settings are enabled, the lamp uses less power when the lens cover is closed or **A/V Mute** is activated.

Related Links

- "Projector Setup Settings - Extended Menu" p.123

You can display information about the projector and version by viewing the **Info** menu. However, you cannot change any settings in the menu.



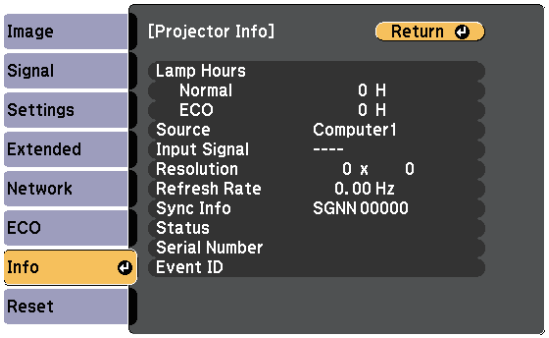
Information item	Description
Projector Info	Displays the projector information.
Version	Displays the projector's firmware version.

Related Links

- "Info Menu - Projector Info Menu" p.133

Info Menu - Projector Info Menu

You can display information about the projector and input sources by viewing the **Projector Info** menu in the projector's **Info** menu.



The available settings depend on the current input source. The lamp usage timer does not register any hours until you have used the lamp for at least 10 hours.

Information item	Description
Lamp Hours	Displays the number of hours (**H**) the lamp has been used in **Normal** and **ECO** Power Consumption modes; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon.
Source	Displays the name of the port to which the current input source is connected.
Input Signal	Displays the input signal setting of the current input source.
Resolution	Displays the resolution of the current input source.
Video Signal	Displays the video signal format of the current input source.
Refresh Rate	Displays the refresh rate of the current input source.

Information item	Description
Sync Info	Displays information that may be needed by a service technician.
Status	Displays information about projector problems that may be needed by a service technician.
Serial Number	Displays the projector's serial number.
Event ID	Displays the Event ID number corresponding to a network problem; see the list of Event ID codes.

Related Links

- "Event ID Code List" p.134

Event ID Code List

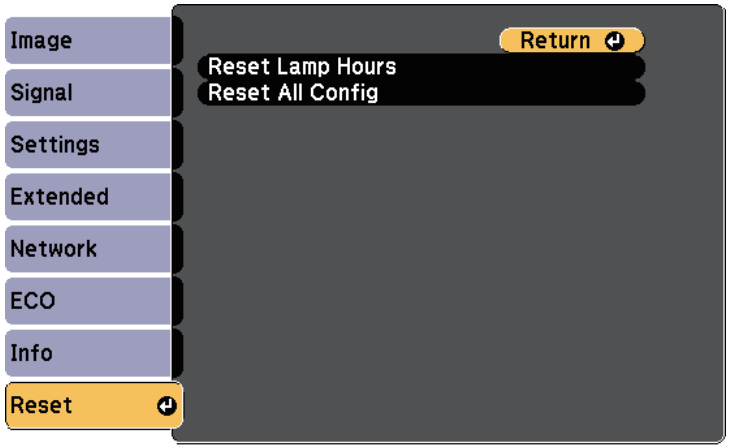
If the **Event ID** option on the **Projector Info** menu displays a code number, check this list of Event ID codes for the solution to the projector problem associated with the code.

If you cannot resolve the problem, contact your network administrator or Epson for technical support.

Event ID code	Cause and solution
0020 0026 0032 0036 0037 0038	A screen mirroring communication error has occurred. Turn the projector off and then on again, or restart the network software.
0021	Failed to startup Screen Mirroring. Turn the projector off and then on again.
0022 0027 0028 0029 0030 0031 0035	Unstable screen mirroring communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0023 0024 0025	Connection failed. If you see the PIN entry screen on your computer, enter the PIN code displayed on the Screen Mirroring standby screen or at the bottom right of the projected image. If this does not solve the problem, restart the projector and the connected devices, and then check the connection settings.
0041	Connection failed. Delete the recorded projector information on your computer and try connecting again.
0432 0435	The network software did not start. Turn the projector off and then on again.
0433	Cannot display the transferred images. Restart the network software.
0434 0481 0482 0485	Unstable network communication. Check the network communication status, wait a few moments, and try connecting to the network again.
0483 04FE	The network software quit unexpectedly. Check the network communication status, then turn the projector off and then on again.
0484	Communication with computer was disconnected. Restart the network software.
0479 04FF	A projector system error has occurred. Turn the projector off and then on again.
0891	Cannot find an access point with the same SSID. Set your computer, access point, and projector to the same SSID.
0892	The WPA/WPA2 authentication type does not match. Make sure the wireless network security settings are correct.

Event ID code	Cause and solution
0893	The TKIP/AES encryption type does not match. Make sure the wireless network security settings are correct.
0894	Communication with an unauthorized access point was disconnected. Contact your network administrator.
0898	Failed to acquire DHCP. Make sure the DHCP server is operating correctly. If you are not using DHCP, set the **DHCP** setting to **Off** in the projector's **Network** menu. ☛ **Network** > **Network Configuration** > **Wireless LAN** > **IP Settings** > **DHCP**
0899	Other communication errors.
089A	The EAP authentication type does not match the network. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.
089B	EAP server authentication failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.
089C	EAP client authentication failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.
089D	Key exchange failed. Check the wireless LAN security settings and make sure that the security certificate is installed correctly.

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



Setting	Options	Description
Reset Lamp Hours	—	Reset the projector's lamp usage timer to zero when you replace the lamp.
Reset All Config	—	Resets most of the projector settings to their default values.

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

- Input Signal
- User's Logo
- Display Background *
- Startup Screen *
- A/V Mute *
- Language
- Date & Time
- Network menu items
- Lamp Hours
- Password

* Available when you have save a user's logo.

After selecting the projector's menu settings for one projector, you can use the following methods to copy the settings to other projectors, as long as they are the same model.

- by using a USB flash drive
- by connecting a computer and projector using a USB cable

Menu settings such as the following are not copied to the other projector.

- **Network** menu settings (except for the **Others** menu)
- **Lamp Hours** and **Status** from the **Projector Info** menu

> Perform batch setup before adjusting the image settings such as Keystone. Since image adjustment values are also copied to another projector, the adjustments you made before performing the batch setup are overwritten and the projected screen you adjusted may change.
>
> When copying the menu settings from one projector to another, user's logo is also copied. Do not register the information that you do not want to share between multiple projectors as a user's logo.

Caution

Epson takes no responsibility for batch setup failures and associated repair costs due to power outages, communication errors, or other problems that may cause such failures.

Related Links

- "Transferring Settings From a USB Flash Drive" p.137
- "Transferring Settings From a Computer" p.138

Transferring Settings From a USB Flash Drive

You can copy menu settings from one projector to another of the same model using a USB flash drive.

> The USB flash drive must use a FAT format and not incorporate any security function. Delete any files on the drive before using it for batch setup or the settings may not be saved correctly.

1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.
2. Connect an empty USB flash drive directly to the projector's USB-A port.
3. Hold down the [Esc] button on the remote control or the control panel and connect the power cord to the projector.
4. When all of the projector's indicators turn on, release the [Esc] button.

   The indicators start flashing and the batch setup file is written to the USB flash drive. When writing is finished, the projector turns off.

   Caution

   Do not disconnect the power cord or the USB flash drive from the projector while the file is being written. If the power cord or USB flash drive is disconnected, the projector may not start correctly.
5. Remove the USB flash drive.

   > The file name for the batch setup file is PJCONFDATA.bin. If you need to change the file name, add text after PJCONFDATA using only alphanumeric characters. If you change the PJCONFDATA section of the file name, the projector may not be able to recognize the file correctly.
6. Disconnect the power cord from the projector to which you want to copy settings, and check that all of the projector's indicators have turned off.

7. Connect the USB flash drive containing the saved batch setup file to the projector's USB-A port.

8. Hold down the [Menu] button on the remote control or the control panel and connect the power cord to the projector.

9. When all of the projector's indicators turn on, release the [Menu] button.

   When all of the indicators start flashing, the settings are being written. When writing is finished, the projector turns off.

   Caution

   Do not disconnect the power cord or the USB flash drive from the projector while the file is being written. If the power cord or drive is disconnected, the projector may not start correctly.

10. Remove the USB flash drive.

Transferring Settings From a Computer

You can copy menu settings from one projector to another of the same model by connecting the computer and projector with a USB cable.

You can use this batch setup method with the following operating system versions:
- Windows Vista and later
- OS X 10.7.x and later

1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.

2. Connect a USB cable to the computer's USB port and to the projector's USB-B port.

3. Hold down the [Esc] button on the remote control or the control panel and connect the power cord to the projector.

4. When all of the projector's indicators turn on, release the [Esc] button.

   The computer recognizes the projector as a removable disk.

5. Open the removable disk icon or folder, and save the batch setup file to the computer.

   The file name for the batch setup file is PJCONFDATA.bin. If you need to change the file name, add text after PJCONFDATA using only alphanumeric characters. If you change the PJCONFDATA section of the file name, the projector may not be able to recognize the file correctly.

6. Eject the USB device (Windows) or drag the removable disk icon to the Trash (OS X).

7. Disconnect the USB cable.

   The projector turns off.

8. Disconnect the power cord from the projector to which you want to copy settings, and check that all of the projector's indicators have turned off.

9. Connect the USB cable to the computer's USB port and to the projector's USB-B port.

10. Hold down the [Menu] button on the remote control or the control panel and connect the power cord to the projector.

11. When all of the projector's indicators turn on, release the [Menu] button.

    The computer recognizes the projector as a removable disk.

12 Copy the batch setup file (PJCONFDATA.bin) that you saved to your computer to the top level folder of the removable disk.

> Do not copy any files or folders other than the batch setup file to the removable disk.

13 Eject the USB device (Windows) or drag the removable disk icon to the Trash (OS X).

14 Disconnect the USB cable.

When all of the indicators start flashing, the settings are being written. When writing is finished, the projector turns off.

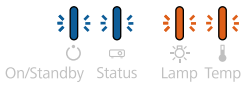
> **Caution**
>
> Do not disconnect the power cord from the projector while the file is being written. If the power cord is disconnected, the projector may not start correctly.

Related Links

- "Batch Setup Error Notification" p.139

Batch Setup Error Notification

The projector's indicators notify you if an error occurs during a batch setup operation. Check the status of the projector's indicators and follow the instructions described in the table here.

Indicator status	Problem and solution
 • Lamp: Orange - flashing fast • Temp: Orange - flashing fast	The batch setup file may be corrupt, or the USB flash drive may not be connected correctly. Disconnect the USB flash drive, unplug and then plug in the projector's power cord, and then try again.
 • Power: Blue - flashing fast • Status: Blue - flashing fast • Lamp: Orange - flashing fast • Temp: Orange - flashing fast	Writing the settings may have failed and an error may have occurred in the projector's firmware. Stop using the projector, remove the power plug from the electrical outlet. Contact Epson for help.

Maintaining the Projector

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.

Related Links

- "Cleaning the Lens" p.141
- "Cleaning the Projector Case" p.142
- "Air Filter and Vent Maintenance" p.143
- "Projector Lamp Maintenance" p.145
- "Replacing the Remote Control Batteries" p.150

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

Warning

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

Attention

Do not use glass cleaner or any harsh materials to clean the lens and do not subject the lens to any impacts; otherwise, it could be damaged. Do not use canned air, or the gases may leave a flammable residue.

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 filer 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 2000-hour period. Clean them with shorter periodicity if you use the projector in a particularly dusty environment.

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.

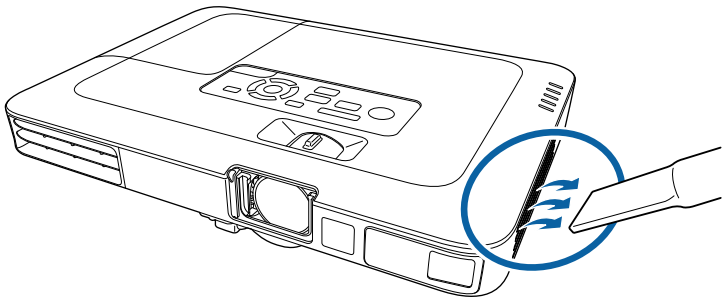
Related Links

- "Cleaning the Air Filter and Vents" p.143
- "Replacing the Air Filter" p.143

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

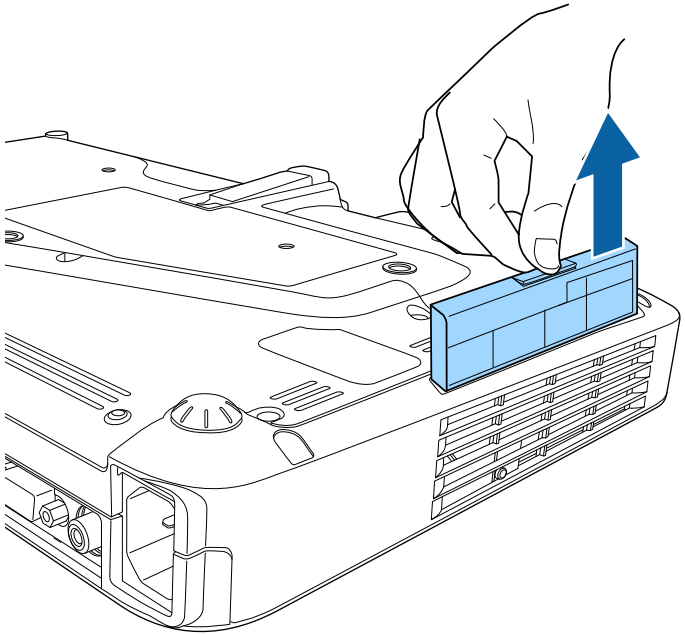
You need to replace the air filter in the following situations:

- 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.

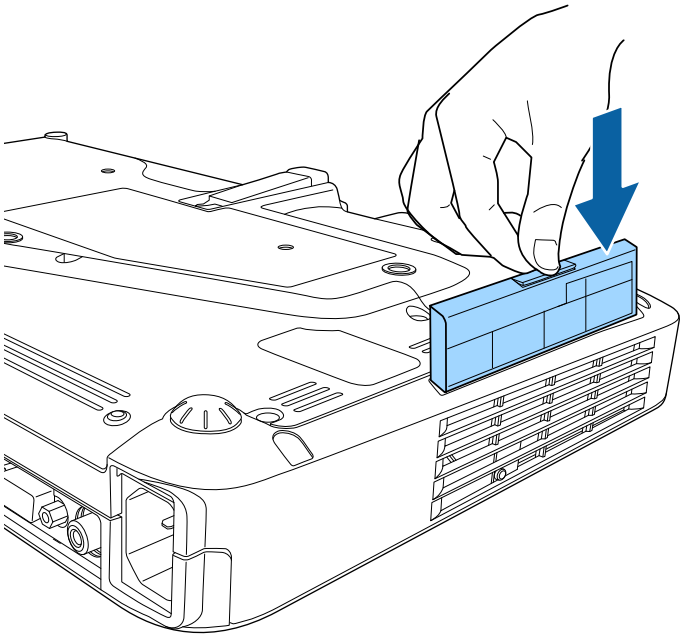
1. Turn off the projector and unplug the power cord.

2 Pull the air filter out of the projector.



Dispose of used air filters according to local regulations.
- Filter frame: Polypropylene
- Filter: Polypropylene

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

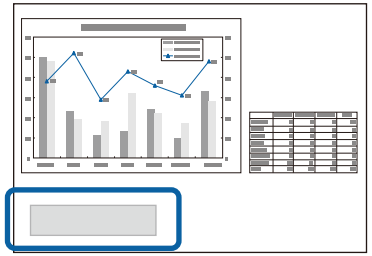


Related Links
- "Replacement Parts" p.168

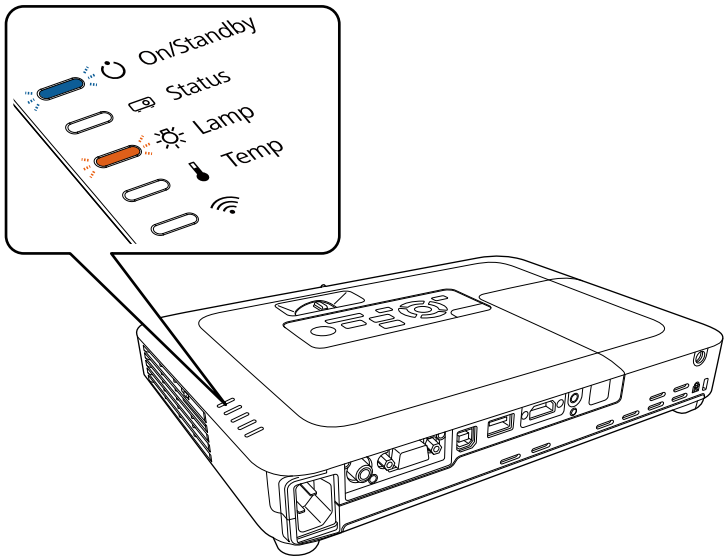
The projector monitors the number of hours the lamp is used and displays this information in the projector's menu system.

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.145
- "Resetting the Lamp Timer" p.149
- "Projector Specifications" p.173

Replacing the Lamp

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

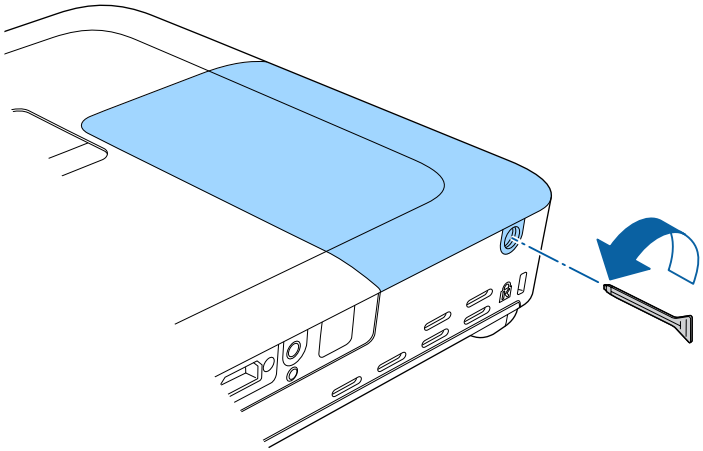
Warning

- 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.

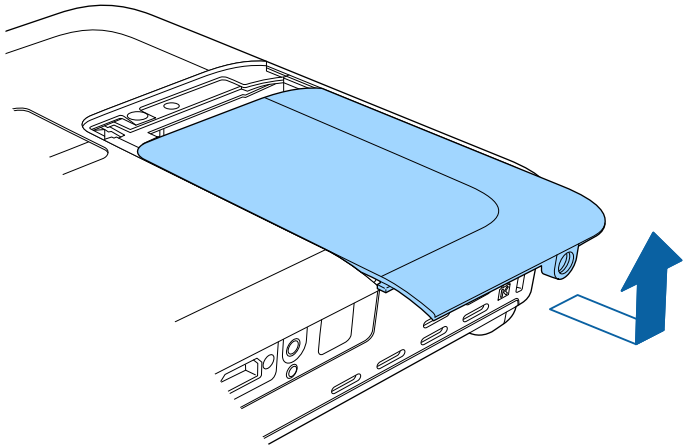
1. Turn off the projector and unplug the power cord.
2. Allow the projector lamp to cool down for at least one hour.

3 Use the screwdriver included with the replacement lamp to loosen the screw securing the lamp cover.

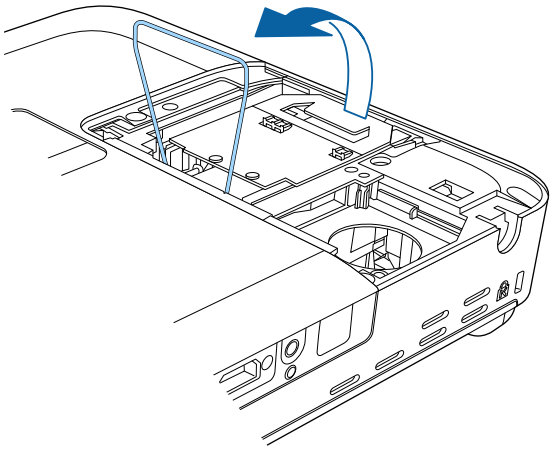
> **Warning**
>
> When replacing the lamp, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is cracked, and you should stand to the side of the lamp cover, not underneath it. Remove 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.



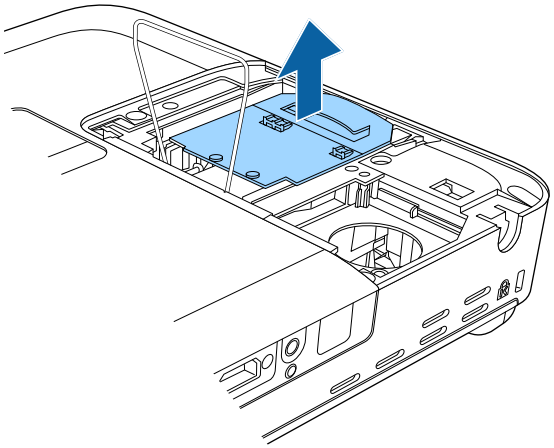
4 Slide the lamp cover out and lift it off.



5 Raise the lamp fixing spring.

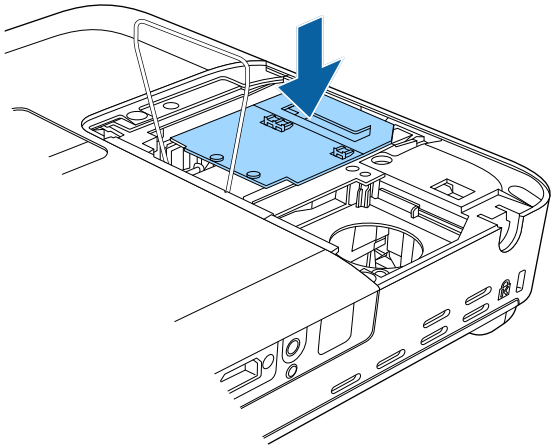


6 Lift up the lamp handle and carefully pull the lamp out of the projector.



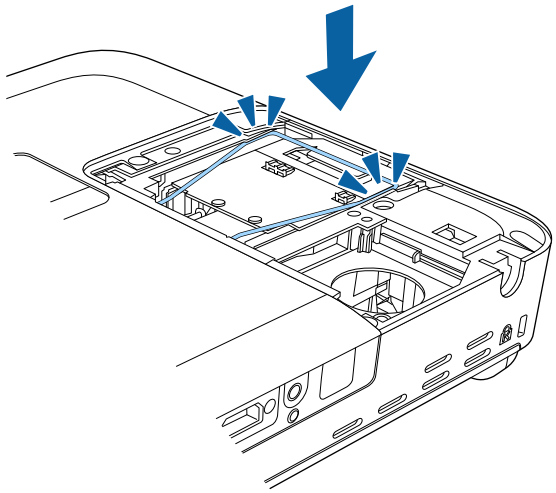
- If you notice the lamp is cracked when removing the lamp, replace it with a new lamp, or contact Epson for help.
- The lamp(s) in this product contain mercury (Hg). Check your local laws and regulations regarding disposal or recycling. Do not put in the trash.

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

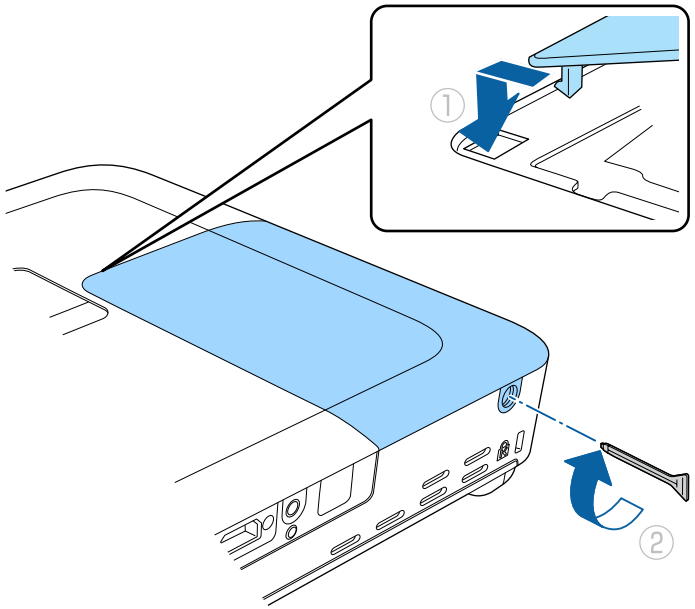


Attention
Do not touch any glass on the lamp assembly to avoid premature lamp failure.

8 Lower the lamp fixing spring, and press down on the left and right until it clicks into place.



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

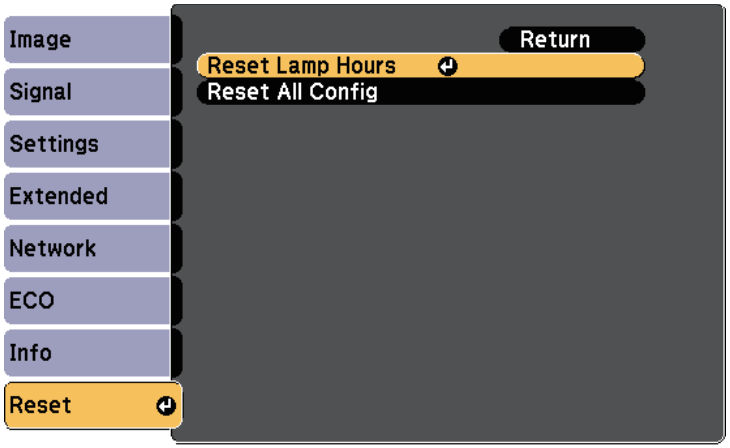
• "Replacement Parts" p.168

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 on the control panel or remote control.
3. Select the **Reset** menu and press [Enter].
4. Select **Reset Lamp Hours** and press [Enter].



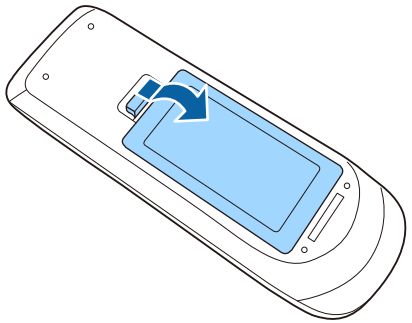
You see a prompt asking if you want to reset the lamp hours.

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

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

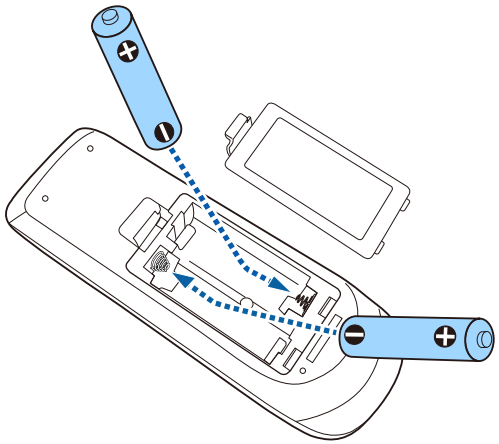
Attention
Make sure you read the *Safety Instructions* before handling the batteries.

1. Remove the battery cover as shown.



2. Remove the old batteries.

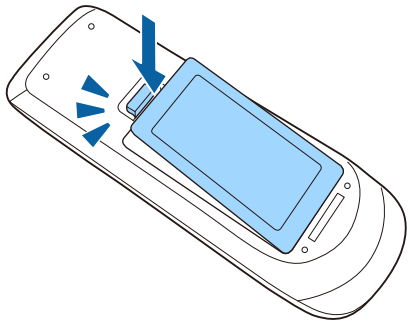
3. Insert the batteries with the + and – ends facing as shown.



Warning

Check the positions of the (+) and (–) marks inside the battery holder to ensure the batteries are inserted the correct way. If the batteries are not used 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.



Solving Problems

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

Related Links

- "Projection Problems" p.152
- "Projector Indicator Status" p.153
- "Using the Projector Help Displays" p.155
- "Solving Image or Sound Problems" p.156
- "Solving Projector or Remote Control Operation Problems" p.162
- "Solving Network Problems" p.164

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

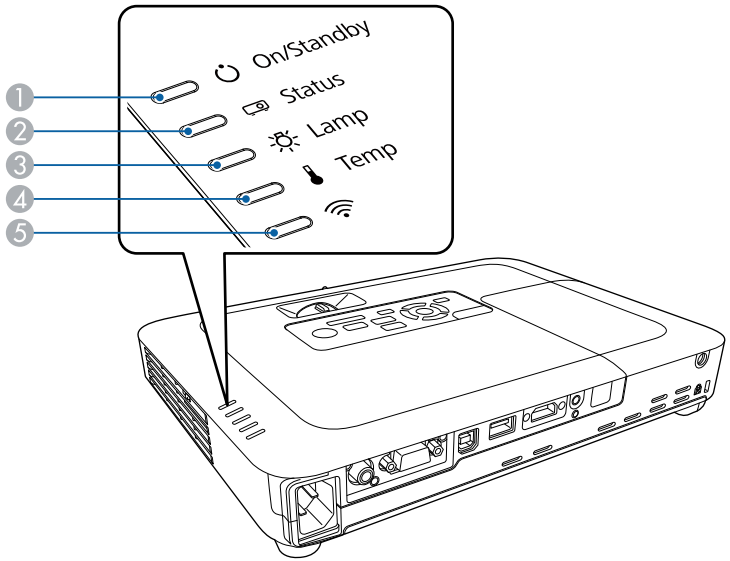
If this does not solve the problem, check the following:

- 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.

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.



1. On/Standby (power) indicator
2. Status indicator
3. Lamp indicator
4. Temp (temperature) indicator
5. Wireless LAN 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 or shutting down. When warming up, wait about 30 seconds for an image to appear. All buttons are disabled during warm-up and shutting down.
Power: Lit blue Status: Off Lamp: Off Temp: Off	Standby or sleep mode. When you press the power button, projection starts.
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. • 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 **Extended** 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 **Extended** 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.
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.

Indicator and status	Problem and solutions
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

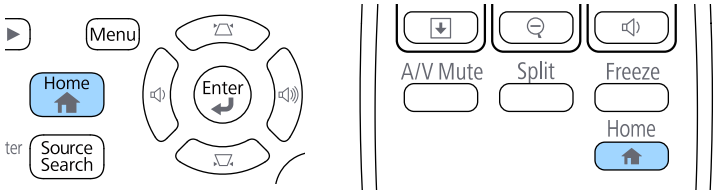
Wireless LAN indicator and status	Problem and solutions
Lit blue	Wireless LAN is available.
Flashing blue (quickly)	Connecting to a device.
Flashing blue (slowly)	An error has occurred. Turn off the projector and restart it. If this does not solve the problem, contact Epson for help.
Off	Wireless LAN is not available. Make sure the wireless LAN settings are correct.

Related Links

- "Cleaning the Air Filter and Vents" p.143
- "Replacing the Air Filter" p.143
- "Replacing the Lamp" p.145

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

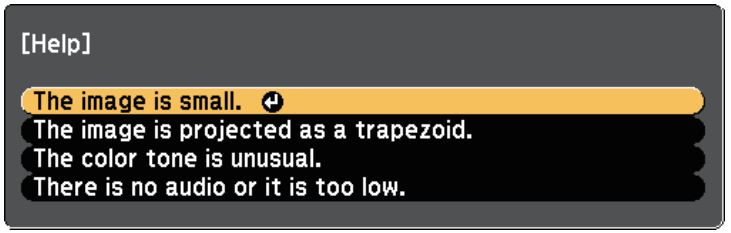
1. Turn on the projector.
2. Press the [Home] button on the control panel or remote control.



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.156
- "Solutions When Image is Incorrect Using the USB Display Function" p.156
- "Solutions When "No Signal" Message Appears" p.157
- "Solutions When "Not Supported" Message Appears" p.158
- "Solutions When Only a Partial Image Appears" p.158
- "Solutions When the Image is not Rectangular" p.158
- "Solutions When the Image Contains Noise or Static" p.159
- "Solutions When the Image is Fuzzy or Blurry" p.159
- "Solutions When the Image Brightness or Colors are Incorrect" p.160
- "Solutions to Sound Problems" p.160
- "Solutions When Image File Names are not Displayed Correctly in PC Free" p.161

Solutions When No Image Appears

If no image appears, try the following solutions:

- Press the power button to turn the power on.
- 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.
- Make sure the image being projected is not completely black (only when projecting computer images).
- Make sure the projector's menu settings are correct.
- 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.
- Check the settings on the projector's **Signal** menu to make sure they are correct for the current video source.
- Adjust the **Brightness** setting in the projector's **Image** menu.
- Select **Normal** 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**.
- 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 in the projector's **Settings** menu or use the remote control to turn on the projector.
  ☛ **Settings** > **Lock Setting** > **Control Panel Lock**
- If the projector does not respond when you press buttons on the remote control, make sure the remote receivers are turned on.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.
- 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.

Related Links

- "Input Signal Settings - Signal Menu" p.119
- "Image Quality Settings - Image Menu" p.117
- "Projector Setup Settings - ECO Menu" p.131
- "Projector Setup Settings - Extended Menu" p.123
- "Unlocking the Projector's Buttons" p.89

Solutions When Image is Incorrect Using the USB Display Function

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

- Press the [USB] button on the remote control.

- Make sure the Epson USB Display software has been installed correctly. Install it manually if necessary.
- Make sure the **USB Type B** setting in the **Extended** menu is set to **USB Display**.
- For OS X, 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.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.
- If the 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 projectors with a resolution of 1080p (1920 × 1080), if you change the computer resolution during projection, the performance and quality of the video may decline.

Related Links
- "Connecting to a Computer for USB Video and Audio" p.20

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.
- Connect the video source directly to the projector.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
- Make sure the connected computer is not in sleep mode.
- 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.157
- "Displaying From a Mac Laptop" p.158

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**. (See your laptop manual for details.) 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. (See your computer or Windows manual for instructions.)
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 on 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. (See your computer manual for details.)

Related Links

- "Input Signal Settings - Signal Menu" p.119
- "Supported Monitor Display Resolutions" p.171

Solutions When Only a Partial Image Appears

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

- Press the [Auto] button on the remote control to optimize the image signal.
- Try adjusting the image position using the **Position** 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 [Esc] button until the projector returns to a full display.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits. (See your computer manual for details.)
- Check the resolution assigned to your presentation files to see if they are created for a different resolution. (See your software help for details.)
- 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.119
- "Projector Setup Settings - Extended Menu" p.123
- "Supported Monitor Display Resolutions" p.171

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.
- Turn on automatic adjustment in the projector's **Settings** menu. The projector automatically corrects the image every time you move the projector.
  ☛ **Settings** > **Keystone** > **H/V-Keystone** > **Auto H/V-Keystone**
  ☛ **Settings** > **Keystone** > **H/V-Keystone** > **Auto V-Keystone**
- Press the [Screen Fit] button and adjust the image shape using the on-screen display (EB-1795F/EB-1785W/EB-1781W).
- If you adjusted the projector height using the projector feet, 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 H/V-Keystone" p.41
- "Auto V-Keystone" p.41
- "Automatically Correcting the Image Shape with Screen Fit" p.41
- "Correcting the Image Shape with the Keystone Buttons" p.43
- "Correcting the Image Shape with Quick Corner" p.44

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 on the projector's **Signal** menu to make sure they match the video source.
- If available for your video source, adjust the **Deinterlacing** and **Noise Reduction** settings in the projector's **Image** menu.
  ☛ **Image** > **Advanced** > **Deinterlacing**
  ☛ **Image** > **Image Enhancement** > **Noise Reduction**
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer, press the [Auto] button on the remote control to automatically adjust the **Tracking** and **Sync.** settings. If the images are not adjusted correctly, manually adjust the **Tracking** and **Sync.** settings in the projector's **Signal** menu.
- Select **Auto** as the **Resolution** setting 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.119
- "Image Quality Settings - Image Menu" p.117
- "Supported Monitor Display Resolutions" p.171

Solutions When the Image is Fuzzy or Blurry

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

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

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

- Position the projector close enough to the screen.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- When using the Screen Fit feature, position the projector at a compatible distance from the screen or adjust the image shape manually (EB-1795F/EB-1785W/EB-1781W).
- Turn on automatic adjustment in the projector's **Settings** menu.
  ☛ **Settings** > **Keystone** > **H/V-Keystone** > **Auto H/V-Keystone**
  ☛ **Settings** > **Keystone** > **H/V-Keystone** > **Auto V-Keystone**
- Adjust the **Sharpness** setting in the projector's **Image** menu to improve image quality.
- If you are projecting from a computer, press the [Auto] button on the remote control to automatically adjust the tracking and sync. If any bands

or overall blurriness 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 H/V-Keystone" p.41
- "Auto V-Keystone" p.41
- "Input Signal Settings - Signal Menu" p.119
- "Image Quality Settings - Image Menu" p.117
- "Supported Monitor Display Resolutions" p.171
- "Focusing the Image Using the Focus Ring" p.49
- "Cleaning the Lens" p.141
- "Focusing the Image Using the Focus Button" p.48

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 on the projector's **Image** menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, **Color Temp.**, and/or **Color Saturation**.
- Make sure you selected the correct **Input Signal** or **Video Signal** setting in the projector's **Signal** menu, if available for your image source.
  ☛ **Signal** > **Advanced** > **Input Signal**
  ☛ **Signal** > **Advanced** > **Video Signal**
- Make sure you selected the correct **Gamma** or **RGBCMY** setting in the projector's **Image** menu.
  ☛ **Image** > **Advanced**
- 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 **Normal**.
  ☛ **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

- "Color Mode" p.54
- "Input Signal Settings - Signal Menu" p.119
- "Image Quality Settings - Image Menu" p.117
- "Projector Setup Settings - ECO Menu" p.131

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.
- Disconnect the audio cable, and then reconnect it.
- Check the audio cable connections between the projector and your video source.
- If you do not hear sound from an HDMI source, set the connected device to PCM output.
- Make sure any connected audio cables are 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.
- 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.
- Even if **Power Consumption** is set to **ECO** in the projector's **ECO** menu, the cooling fans may run at high speed momentarily and cause an unexpected noise. This is normal.
- 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 EasyMP Multi PC Projection or USB Display.)

Related Links

- "Projector Connections" p.20
- "Projector Setup Settings - Extended Menu" p.123
- "Projector Setup Settings - ECO Menu" p.131
- "Controlling the Volume with the Volume Buttons" p.60

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.162
- "Solutions to Problems with the Remote Control" p.162
- "Solutions to Password Problems" p.163
- "Solution When "The Battery that Saves Your Clock Settings is Running Low" Message Appears" p.163
- "Solutions to Gesture Presenter Problems" p.163

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.
- The projector's buttons may be locked for security. Unlock the buttons in the **Control Panel Lock** setting in the projector's **Settings** menu or use the remote control to turn on the projector.
  ☛ **Settings** > **Lock Setting** > **Control Panel Lock**
- The power cord may be defective. Disconnect the cord and contact Epson for help.
- 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.
- 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 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.

Related Links

- "Projector Setup Settings - ECO Menu" p.131
- "Projector Indicator Status" p.153
- "Projector Feature Settings - Settings Menu" p.121
- "Unlocking the Projector's Buttons" p.89

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.
- If you lose the remote control, you can order another one from Epson.

Related Links

- "Remote Control Operation" p.27
- "Projector Feature Settings - Settings Menu" p.121
- "Selecting the Projector You want to Operate" p.83
- "Replacing the Remote Control Batteries" p.150

Solutions to Password Problems

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

- You may have turned on password protection without first setting a password. Try entering **0000** using the remote control.
- If you have entered an incorrect password too many times and see a message displaying a request code, write down the code and contact Epson 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.

Solution When "The Battery that Saves Your Clock Settings is Running Low" Message Appears

If the message "The battery that saves your clock settings is running low." is displayed, contact Epson for help.

Solutions to Gesture Presenter Problems

If the Gesture Presenter feature does not work correctly, try the following solutions:

- Check the USB cable is securely connected to the computer and the projector.
- Select **Normal** as the **Power Consumption** setting.
  ☛ **ECO** > **Power Consumption**
- Dim the room lights. Make sure the projection surface is not in direct sunlight or other sources of bright lighting.
- Check the brightness of the room is stable.

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

Related Links

- "Solutions When Wireless Authentication Fails" p.164
- "Solutions When You Cannot Access the Projector Through the Web" p.164
- "Solutions When the Image Contains Static During Network Projection" p.164
- "Solutions When You Cannot Connect Using Screen Mirroring" p.165
- "Solutions When the Image or Sound Contains Static During Screen Mirroring Connection" p.165

Solutions When Wireless Authentication Fails

If you are having trouble with the authentication, try the following solutions (EB-1795F/EB-1785W):

- If the wireless settings are correct, but authentication fails, you may need to update the **Date & Time** settings on the projector's **Extended** menu.
  ☛ **Extended** > **Operation** > **Date & Time**
- Check the **Security** settings in the projector's **Network** menu.
  ☛ **Network** > **Network Configuration** > **Wireless LAN**

Related Links

- "Projector Setup Settings - Extended Menu" p.123
- "Network Menu - Wireless LAN Menu" p.127

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.

- When accessing **Basic Control** in **Epson Web Control**, enter **EPSONREMOTE** as the user ID. (You cannot change the user ID.)
- Enter the password set in the projector's **Network** menu as the Basic Control password. The default password is **guest**.
  ☛ **Network** > **Network Configuration** > **Basic** > **Remote Password**
- When accessing **Advanced** in **Epson Web Control**, enter **EPSONWEB** as the user ID. (You cannot change the user ID.)
- Enter the password set in the projector's **Network** menu as the Advanced or OSD Control Pad password. The default password is **admin**.
  ☛ **Network** > **Network Configuration** > **Basic** > **Web Control Password**
- 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 Web Control screen cannot be displayed. Make settings for a connection without using a proxy server.

The user ID and password are case sensitive.

Related Links

- "Network Menu - Basic Menu" p.126

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.
- If the wireless connection is slow or your projected image contains noise, check for interference from other equipment, such as a Bluetooth device or

microwave. Move the interfering device farther away or expand your wireless bandwidth.

- Reduce the number of connected devices if the connection speed declines.

Solutions When You Cannot Connect Using Screen Mirroring

If you are unable to connect to the projector using Screen Mirroring, try the following solutions (EB-1795F/EB-1785W):

- Check the projector's settings.
  - Select **On** as the **Screen Mirroring** setting in the projector's **Network** menu.
  - Change the **Display Name** so that it does not include "-" in the projector's Screen Mirroring Settings setting menu or it may not be displayed correctly on your mobile device.
    ☛ **Network** > **Screen Mirroring Settings** > **Display Name**
  - Select **Off** as the **Screen Mirroring** setting in the projector's **Network** menu, and select **On** again.
  - Change the Operation Mode and connect again.
    ☛ **Network** > **Screen Mirroring Settings** > **Operation Mode**
  - Make sure that the no other devices are connected to the projector with **No Interruptions** settings.
    ☛ **Network** > **Screen Mirroring Settings** > **Extended** > **Meeting Mode**
  - Change the Channel settings according to the wireless LAN environment.
    ☛ **Network** > **Screen Mirroring Settings** > **Extended** > **Channel**
- Check the mobile device's settings.
  - Make sure the settings on the mobile device are correct.
  - When connecting again immediately after disconnecting, it may take some time until the connection is established. Reconnect after waiting for a while.
  - Restart the mobile device.
  - Once you have connected using Screen Mirroring, the projector connection information may be recorded on the mobile device. However, you may not be able to reconnect to the projector from the recorded information. Select the projector from the list of available devices.

Related Links

- "Projector Network Settings - Network Menu" p.125
- "Network Menu - Screen Mirroring Settings" p.126

Solutions When the Image or Sound Contains Static During Screen Mirroring Connection

If the projected image or sound contains static when connecting using Screen Mirroring, try the following solutions (EB-1795F/EB-1785W):

- Avoid covering the Wi-Fi antenna of the mobile device.
- If you use a Screen Mirroring connection and an internet connection at the same time, the image may stop or contain noise. Disconnect the internet connection to expand your wireless bandwidth and improve the connection speed of the mobile device.
- Make sure the projection contents meet the Screen Mirroring requirements.
- Depending on the settings of the mobile device, the connection may be lost when the device enters power saving mode. Check the electrical power saving settings on the mobile device.
- Update to the latest version of the wireless driver or firmware on the mobile device.

Related Links

- "Wireless Network Projection from a Mobile Device (Screen Mirroring)" p.100

Appendix

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

Related Links

- "Optional Accessories and Replacement Parts" p.167
- "Screen Size and Projection Distance" p.169
- "Supported Monitor Display Resolutions" p.171
- "Projector Specifications" p.173
- "External Dimensions" p.175
- "USB Display System Requirements" p.176
- "List of Safety Symbols (corresponding to IEC60950-1 A2)" p.177
- "Glossary" p.179
- "Notices" p.181

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: September 2016.

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

Related Links

- "Screens" p.167
- "Cables" p.167
- "Mounts" p.167
- "External Devices" p.167
- "Replacement Parts" p.168

Screens

60" portable screen ELPSC27
80" portable screen ELPSC28
100" portable screen ELPSC29
Portable roll-type screens. (aspect ratio 4:3)

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)

70" portable screen ELPSC23
80" portable screen ELPSC24
90" portable screen ELPSC25
Portable roll-type screens. (aspect ratio 16:10)

80" Spring Roller Screen ELPSC15
Roll-type screens. (aspect ratio 16:9)

80" Mobile X-Type Screen ELPSC21B
Portable X-type screens. (aspect ratio 16:9)

Multi Aspect Screen ELPSC26/ELPSC26H
Portable multi-aspect screen.

Cables

Computer cable ELPKC02 (1.8 m - for mini D-sub 15-pin/mini D-Sub 15pin)
Computer cable ELPKC09 (3 m - for mini D-sub 15-pin/mini D-Sub 15pin)
Computer cable ELPKC10 (20 m - for mini D-sub 15-pin/mini D-Sub 15pin)
Use when connecting to the Computer port.

Component video cable ELPKC19 (3 m - for mini D-Sub 15-pin/RCA male x 3)
Use this to connect a component video source.

D port cable ELPKC22 (Mini D-Sub 15-pin/3 m for D port)
Use this when connecting to the D port on an image source.

Mounts

Ceiling mount ELPMB23
Use when installing the projector on a ceiling.

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.

External Devices

Document Camera ELPDC21
Use when projecting image such as books, OHP documents, or slides.

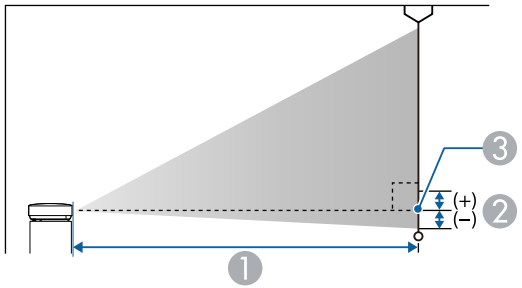
Soft carrying case ELPKSxx(TBD)
Use this to carry the projector by hand.

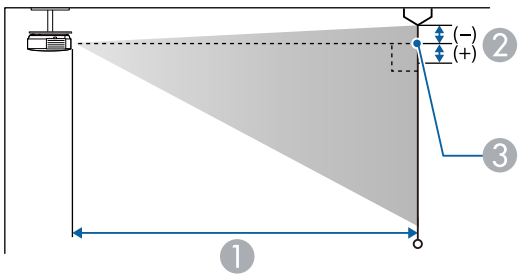
Replacement Parts

Lamp unit ELPLP94
Use as a replacement for used lamps.

Air filter ELPAF53
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

1080p (EB-1795F)

16:10 screen size		1 Minimum (Wide) to Maximum (Tele)	2
30"	65 × 40	86 - 145	-4
35"	75 × 47	101 - 169	-4

16:10 screen size		1 Minimum (Wide) to Maximum (Tele)	2
40"	86 × 54	116 - 194	-5
50"	108 × 67	146 - 243	-6
60"	129 × 81	176 - 293	-7
80"	172 × 108	236 - 392	-10
100"	215 × 135	296 - 491	-12
150"	323 × 202	446 - 738	-18
200"	431 × 269	595 - 985	-24
300"	646 × 404	895 - 1479	-37

4:3 screen size		1 Minimum (Wide) to Maximum (Tele)	2
30"	61 × 46	98 - 164	-4
40"	81 × 61	132 - 220	-6
50"	102 × 76	166 - 276	-7
60"	122 × 91	200 - 332	-8
70"	142 × 107	234 - 388	-10
80"	163 × 122	268 - 444	-11
100"	203 × 152	335 - 556	-14
150"	305 × 229	505 - 836	-21
200"	406 × 305	674 - 1115	-28
260"	528 × 396	878 - 1451	-36

16:9 screen size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	66 × 37	89 - 149	-2
35"	77 × 44	104 - 174	-2
40"	89 × 50	119 - 200	-2
50"	111 × 62	150 - 250	-3
60"	133 × 75	181 - 301	-3
70"	155 × 87	212 - 352	-4
80"	177 × 100	243 - 403	-4
100"	221 × 125	304 - 504	-6
150"	332 × 187	458 - 758	-8
200"	443 × 249	612 - 1012	-11
290"	642 × 361	889 - 1469	-16

WXGA (EB-1785W/EB-1780W/EB-1781W)

16:10 screen size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	65 × 40	67 - 80	-4
40"	86 × 54	89 - 108	-5
50"	108 × 67	112 - 135	-6
60"	129 × 81	135 - 162	-7
80"	172 × 108	181 - 217	-10
100"	215 × 135	226 - 271	-12
150"	323 × 202	340 - 408	-18
200"	431 × 269	454 - 545	-24
250"	538 × 337	567 - 681	-31
300"	646 × 404	681 - 818	-37

4:3 screen size		❶ Minimum (Wide) to Maximum (Tele)	❷
28"	57 × 43	71 - 85	-4
30"	61 × 46	76 - 91	-4
40"	81 × 61	102 - 122	-6
50"	102 × 76	127 - 153	-7
60"	122 × 91	153 - 184	-8
80"	163 × 122	205 - 246	-11
100"	203 × 152	256 - 308	-14
150"	305 × 229	385 - 462	-21
200"	406 × 305	514 - 617	-28
250"	508 × 381	643 - 771	-35
260"	528 × 396	668 - 802	-36

16:9 screen size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	67 × 38	69 - 83	-2
40"	50 × 89	92 - 111	-2
50"	111 × 62	115 - 139	-3
60"	133 × 75	139 - 167	-3
70"	155 × 87	162 - 195	-4
80"	177 × 100	186 - 223	-5
100"	221 × 125	232 - 279	-6
150"	332 × 187	349 - 419	-8
200"	443 × 249	466 - 560	-11
250"	553 × 311	583 - 700	-14
280"	620 × 349	653 - 784	-16

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

Component Signals (Analog RGB)

Signal	Refresh rate (Hz)	Resolution (dots)
VGA	60/72/75/85	640 × 480
SVGA	60/72/75/85	800 × 600
XGA	60/70/75/85	1024 × 768
WXGA	60	1280 × 768
	60	1366 × 768
	60/75/85	1280 × 800
WXGA+	60/75/85	1440 × 900
WXGA++	60	1600 × 900
SXGA	70/75/85	1152 × 864
	60/75/85	1280 × 960
	60/75/85	1280 × 1024
SXGA+	60/75	1400 × 1050
WSXGA+ *	60	1680 × 1050
UXGA	60	1600 × 1200

* WSXGA+ is compatible only when **Wide** is selected as the **Resolution** setting in the projector's **Signal** menu.

Even when signals other than those mentioned above are input, it is likely that the image can be projected. However, not all functions may be supported.

Component Video

Signal	Refresh rate (Hz)	Resolution (dots)
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i/1080p *)	50/60	1920 × 1080

* Only for the input signals from the Computer port.

Composite Video

Signal	Refresh rate (Hz)	Resolution (dots)
TV (NTSC)	60	720 × 480
TV (SECAM)	50	720 × 576
TV (PAL)	50/60	720 × 576

HDMI Input Signal

Signal	Refresh rate (Hz)	Resolution (dots)
VGA	60	640 × 480
SVGA	60	800 × 600
XGA	60	1024 × 768
WXGA	60	1280 × 800
		1366 × 768
WXGA+	60	1440 × 900
WXGA++	60	1600 × 900
UXGA	60	1600 × 1200
WSXGA+	60	1680 × 1050
SXGA	60	1280 × 960
	60	1280 × 1024
SXGA+	60	1400 × 1050
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720

Signal	Refresh rate (Hz)	Resolution (dots)
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30/50/60	1920 × 1080

MHL Input Signal

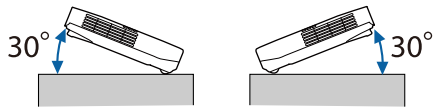
Signal	Refresh rate (Hz)	Resolution (dots)
VGA	60	640 × 480
SDTV (480i/480p)	60	720 × 480
SDTV (576i/576p)	50	720 × 576
HDTV (720p)	50/60	1280 × 720
HDTV (1080i)	50/60	1920 × 1080
HDTV (1080p)	24/30	1920 × 1080

Product name	EB-1795F/EB-1785W/EB-1781W/EB-1780W
Dimensions	292 (W) × 44 (H) × 212 (D) mm (not including raised section) (TBD)
LCD panel size	**EB-1795F**: 0.61" **EB-1785W**: 0.59"
Display method	Poly-silicon TFT active matrix
Resolution	**EB-1795F**: 2,073,600 pixels 1080p (1920 (W) × 1080 (H) dots) × 3 **EB-1785W**: 1,024,000 pixels WXGA (1280 (W) × 800 (H) dots) × 3
Focus adjustment	**EB-1795F/EB-1785W**: Powered
Zoom adjustment	1-1.2
Lamp	**EB-1795F/EB-1785W**: UHE lamp, 214 W Model No.: ELPLP94
Lamp life	Normal Power Consumption mode: Up to 4,000 hours ECO Power Consumption mode: Up to 7,000 hours
Max. audio output	1W
Speaker	1
Power supply	100-240V AC±10% 50/60Hz 3.4 - 1.6 A (TBD)
Power consumption (100 to 120 V area)	Operating: 337 W (TBD) Standby power consumption: 0.45 W(TBD)
Power consumption (220 to 240 V area)	Operating: 319 W(TBD) Standby power consumption: 0.45 W(TBD)

Operating altitude	Altitude 0 to 3,000 m
Operating temperature	+5 to +35°C (No condensation) (Altitude 0 to 2,286 m) +5 to +30°C (No condensation) (Altitude more than 2,286 m)
Storage temperature	-10 to +60°C (No condensation)
Mass	**EB-1795F/EB-1785W**: Approx. 1.85 kg

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

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

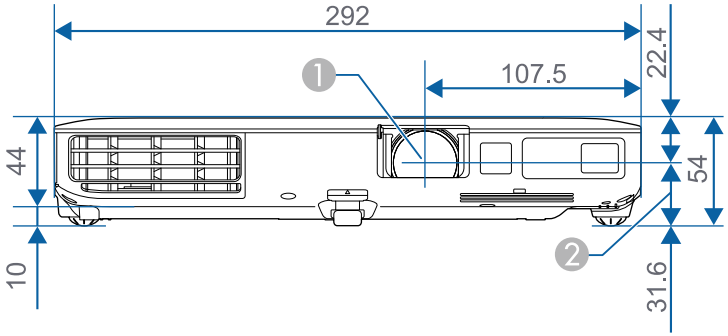
- "Connector Specifications" p.173

Connector Specifications

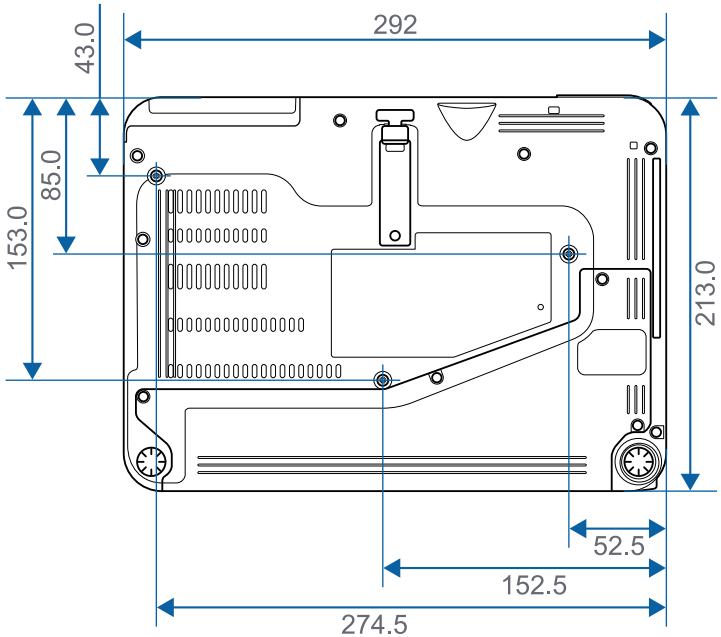
Computer port	1	Mini D-Sub15-pin (female)
Video port	1	RCA pin jack
Audio port	1	Stereo mini pin jack
HDMI port	1	HDMI (Audio is only supported by PCM)

USB-A port	1	USB connector (Type A)
USB-B port	1	USB connector (Type B)

- 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 is not support USB 1.1.



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



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 Vista • Ultimate (32-bit) • Enterprise (32-bit) • Business (32-bit) • Home Premium (32-bit) • Home Basic (32-bit)	OS X • 10.7.x (32- and 64-bit) • 10.8.x (64-bit) • 10.9.x (64-bit) • 10.10.x (64-bit) • 10.11.x (64-bit)
	Windows 7 • Ultimate (32- and 64-bit) • Enterprise (32- and 64-bit) • Professional (32- and 64-bit) • Home Premium (32- and 64-bit) • Home Basic (32-bit) • Starter (32-bit)	
	Windows 8 • Windows 8 (32- and 64-bit) • Windows 8 Pro (32- and 64-bit) • Windows 8 Enterprise (32- and 64-bit)	
	Windows 8.1 • Windows 8.1 (32- and 64-bit) • Windows 8.1 Pro (32- and 64-bit) • Windows 8.1 Enterprise (32- and 64-bit)	
	Windows 10 • Windows 10 Home (32- and 64-bit) • Windows 10 Pro (32- and 64-bit) • Windows 10 Enterprise (32- and 64-bit)	
CPU	Intel Core2Duo or faster (Intel Core i3 or faster recommended)	Intel Core2Duo or faster (Intel Core i5 or faster recommended)
Memory	2GB or more (4GB or more recommended)	
Hard disk space	20 MB or more	
Display	Resolution between 640 × 480 and 1920 × 1200 16-bit color or greater	

Operation is not guaranteed for Windows Vista without any service packs installed, or Windows Vista Service Pack 1.

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

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

No.	Symbol mark	Approved standards	Description
❾		—	The same as No.8.
❿		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.
⓫		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.
⓬		—	The same as No.11.
⓭		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.
⓮		IEC60417 No.5017	Earth To identify an earth (ground) terminal in cases where neither the symbol No.13 is explicitly required.
⓯		IEC60417 No.5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
⓰		IEC60417 No.5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.

No.	Symbol mark	Approved standards	Description
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.
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.

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.
Component Video	A method that separates the video signal into a luminance component (Y), and a blue minus luminance (Cb or Pb) and a red minus luminance (Cr or Pr).
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.
DICOM	An acronym for Digital Imaging and Communications in Medicine. An international standard that defines image standards and a communications protocol for medical images.
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
Infrastructure mode	A method for wireless LAN connection in which devices communicate through access points.
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.
MHL	An abbreviation for Mobile High-definition Link, a standard for connection interfaces aimed at mobile devices such as smartphones and tablets. Images can be transferred at high quality and at high speeds without compressing the digital signal, and also charges connected devices.
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.
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.
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.

Check these sections for important notices about your projector.

Related Links

- "FCC Compliance Statement" p.181
- "Indication of the manufacturer and the importer in accordance with requirements of EU directive" p.182
- "Wireless Telegraphy Act Regulations" p.182
- "Restriction of Use" p.182
- "Operating System References" p.182
- "Trademarks" p.182
- "Copyright Notice" p.183
- "Copyright Attribution" p.183

FCC Compliance Statement

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: 3840 Kilroy Airport Way MS: 3-13 Long Beach, CA 90806

Tel: 562-981-3840

This device complies with part 15 of FCC Rules and Industry Canada's licence-exempt RSSs. 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 complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Trade Name: EPSON

Type of Product: LCD Projector Model: H793A/H796A

Contains FCC ID: BKMAE-7122
Contains FCC ID: BKMAE-WLU5000

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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.

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
Telephone: 81-266-52-3131
http://www.epson.com/

Importer: EPSON EUROPE B.V.
Address: Atlas Arena, Asia Building, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost
The Netherlands
Telephone: 31-20-314-5000
http://www.epson.com/europe.html

Wireless Telegraphy Act Regulations

The following acts are prohibited by the Wireless Telegraphy Act.

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

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 Vista® operating system
- Microsoft® Windows® 7 operating system
- Microsoft® Windows® 8 operating system
- Microsoft® Windows® 8.1 operating system
- Microsoft® Windows® 10 operating system

In this guide, the operating systems above are referred to as "Windows Vista", "Windows 7", "Windows 8", "Windows 8.1", and "Windows 10". Furthermore, the collective term "Windows" is used to refer to them all.

- OS X 10.7.x
- OS X 10.8.x
- OS X 10.9.x
- OS X 10.10.x
- OS X 10.11.x

In this guide, the operating systems above are referred to as "OS X 10.7.x", "OS X 10.8.x", "OS X 10.9.x", "OS X 10.10.x", and "OS X 10.11.x". Furthermore, the collective term "OS X" is used to refer to them all.

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