# **EPSON**

# **User's Guide**

# Multimedia Projector

EB-FH54

EB-FH18

EB-994F

7	Notations Used in This Guide		
tion8	Using the Manual to Search for Information		
8	Searching by Keyword		
	Jumping Directly from Bookmarks		
8	Printing Only the Pages You Need		
nents9	Getting the Latest Version of the Documents		
10	Introduction to Your Projector		
11	Projector Features		
11	Quick and Easy Setup		
11	Easy Wireless Projection		
13	Projector Parts and Functions		
13	Projector Parts - Front		
	Projector Parts - Rear		
	Projector Parts - Base		
	Projector Parts - Control Panel		
1/	Projector Parts - Remote Control		
19	Setting Up the Projector		
20	Projector Placement		
21	Projector Setup and Installation Options		
21	Projection Distance		
23	Projector Connections		
	Connecting to a Computer		
	Connecting to a Computer for VGA Video and Audio		
	Connecting to a Computer for HDMI Video and Aud		
	Connecting to Video Sources		
	Connecting to an HDMI Video Source		
	Connecting to a Composite video source		

USB Device Projection	26
Connecting to a USB Device	27
Disconnecting a USB Device	27
Connecting to a Document Camera	
Connecting to External Devices	
Connecting to a VGA Monitor	
Connecting to External Speakers	
Connecting a Microphone	
Connecting to a Streaming Media Player	29
nstalling Batteries in the Remote Control	31
Remote Control Operation	32
Opening the Lens Cover	33
. •	
Jsing Basic Projector Features	34
Turning On the Projector	35
Home Screen	36
Turning Off the Projector	38
Setting the Date and Time	39
Selecting the Language for the Projector Menus	41
Projection Modes	
Changing the Projection Mode Using the Remote Control	
Changing the Projection Mode Using the Menus	
Displaying a Test Pattern	44
Adjusting the Image Height	
mage Shape	
Auto V-Keystone	
Correcting the Image Shape with the Horizontal Keystone Slider	
Correcting the Image Shape with the Keystone Buttons	
Correcting the Image Shape with Ouick Corner	

## Contents

Resizing the Image with the Zoom Ring50	Zooming
Focusing the Image Using the Focus Ring51	Zooming
Selecting an Image Source52	Saving a
	Saving a
Image Aspect Ratio54	Color Dif
Changing the Image Aspect Ratio54	Projector
Available Image Aspect Ratios	-
Projected Image Appearance with Each Aspect Mode55	Setting t Selecting
Adjusting Image Quality (Color Mode)56	Matchine
Changing the Color Mode56	Projecto
Available Color Modes	•
Setting Auto Iris56	Password Setting
Controlling the Volume with the Volume Buttons58	Selecti
	Enterir
Adjusting Projector Features 59	Locking
Adjusting Projector Features 39	Unlock
Projecting Two Images Simultaneously60	Installing
Unsupported Input Source Combinations for Split Screen Projection	
Split Screen Projection Restrictions	Using t
HDMI Link Features 63	
Operating the Connected Devices Using the HDMI Link Features	Wired Ne
	Connect
Projecting a PC Free Presentation65	Selecting
Supported PC Free File Types65	Wireless
Precautions on PC Free Projection	Safety In
Starting a PC Free Slide Show	Connect
Starting a PC Free Movie Presentation	Selecting
	Selecting
Shutting Off the Image and Sound Temporarily70	Selecting
Shutting Off the Sound Temporarily71	Setting U
	Setting l Suppo
Stopping Video Action Temporarily72	Suppo Using a (
Zooming In/Zooming Out of Images (E-Zoom)	Using a C

Zooming Into Images	
Saving a User's Logo Image	75
Saving a User Pattern	
Color Difference Correction when Projecting from Multiple Projectors	78
Setting the Projector ID Selecting the Projector You want to Operate	78 78
Projector Security Features	81
Password Security Types	81 82 83 84
Wired Network Projection	
Connecting to a Wired Network	87
Wireless Network Projection	90
Safety Instructions for Built-in Wireless LAN Module Connection Methods for Wireless Network Projection Selecting Wireless Network Settings Manually Selecting Wireless Network Settings in Windows Selecting Wireless Network Settings in Mac Setting Up Wireless Network Security when Simple AP Mode is Set to On Setting Up Wireless Network Security when Simple AP Mode is Set to Off Supported Client and CA Certificates Using a QR Code to Connect a Mobile Device	90 91 93 94 94 97
Using a USB Key to Connect a Windows Computer	98

## Contents

Wireless Network Projection from a Mobile Device (Miracast)9	9
Selecting Miracast Settings	
Connecting Using Miracast	
Connecting Using Miracast in Windows 10	
Secure HTTP	
Importing a Web Server Certificate Using the Menus	
Supported Web Server Certificates10	
Monitoring and Controlling the Projector 10	5
Epson Projector Management Connected / Epson Projector Management10	)6
Controlling a Networked Projector Using a Web Browser 10	)7
Web Control Options10	80
Registering Digital Certificates from a Web Browser 11	11
Setting Up Projector Network E-Mail Alerts11	12
Network Projector E-mail Alert Messages1	13
Setting Up Monitoring Using SNMP11	14
Using ESC/VP21 Commands 11	15
ESC/VP21 Command List1	
Cable Layouts1	15
PJLink Support11	17
Crestron Connected Support11	18
Setting Up Crestron Connected Support1	18
Setting Projector Event Schedules12	20
Web API 12	23
Enabling Web API	

Adjusting the Menu Settings	124
Using the Projector's Menus	125
Using the Displayed Keyboard	
Image Quality Settings - Image Menu	127
Input Signal Settings - Signal Menu	129
Projector Feature Settings - Settings Menu	130
Projector Setup Settings - Extended Menu	133
Projector Network Settings - Network Menu	136
Network Menu - Basic Menu Network Menu - Wireless LAN Menu Network Menu - Wired LAN Menu Network Menu - Notifications Menu Network Menu - Others Menu Network Menu - Reset Menu	138 141 142
Projector Setup Settings - ECO Menu	147
Projector Information Display - Info Menu	149
Info Menu - Projector Info Menu Event ID Code List	149
Projector Reset Options - Reset Menu	152
Copying Menu Settings Between Projectors (Batch Setup)	153
Transferring Settings From a USB Flash Drive Transferring Settings From a Computer Batch Setup Error Notification	154
Maintaining the Projector	156
Projector Maintenance	

## Contents

Cleaning the Lens	158	Solutions to Problems with the Remote Control	
Cleaning the Projector Case	159	Solutions to Password Problems	
•		Message Appears	
Air Filter and Vent Maintenance			
Cleaning the Air Filter and Vents		Solving Network Problems	
Replacing the Air Filter	160	Solutions When Wireless Authentication Fails	
Projector Lamp Maintenance	163	Solutions When You Cannot Access the Projector Through the Web	
Replacing the Lamp	163	Solutions When Network Alert E-Mails are not Received	
Resetting the Lamp Timer		Solutions When You Cannot Connect Using Miracast	
Updating the Firmware		Solutions When the Image or Sound Contains Static During Miracast Co	
•			
Updating Firmware Using a USB Storage Device Updating the Firmware over the Network		Solutions When HDMI Link does not Function	186
Solving Problems	170	Appendix	187
Projection Problems		Optional Accessories and Replacement Parts	188
Projector Indicator Status		Screens	188
		Mounts External Devices	
Using the Projector Help Displays	1/3	Replacement Parts	
Solving Image or Sound Problems	176	·	
Solutions When No Image Appears	176	Screen Size and Projection Distance	190
Solutions When "No Signal" Message Appears		Supported Monitor Display Resolutions	192
Displaying From a Laptop	177		
Displaying From a Mac Laptop	177	Projector Specifications	193
Solutions When "Not Supported" Message Appears		Connector Specifications	
Solutions When Only a Partial Image Appears		Wireless Channels Supported Frequency	195
Solutions When the Image is not Rectangular		External Dimensions	196
Solutions When the Image Contains Noise or Static			
Solutions When the Image is Fuzzy or Blurry		Warning Label	198
Solutions When the Image Brightness or Colors are Incorrect		List of Safety Symbols and Instructions	100
Solutions to Sound Problems		LIST OF SAFETY SYMBOLS AND MISTINGUIS	199
Solutions When Image File Names are not Displayed Correctly in PC F	ree180	Glossary	201
Solving Projector or Remote Control Operation Problem	s181	Notices	202
Solutions to Projector Power or Shut-Off Problems	181	MONGES	∠05

FCC Compliance Statement	203
Indication of the manufacturer and the importer in accord of EU directive	
Restriction of Use	204
Operating System References	204
Trademarks	204
Copyright Notice	20
Copyright Attribution	

## **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.

<b>⚠</b> Warning	This symbol indicates information that, if ignored, could possibly result in personal injury or even death.
<b>△</b> 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 projector.	
	Example: [Esc] button	
Menu/Setting name	Indicates projector menu and setting names.	
Example:		
	Select the <b>Image</b> menu	
	■ Image > Advanced	
<b>*</b>	This label indicates links to the related pages.	
This label indicates the projector's current menu level.		

### **→** Related Links

- "Using the Manual to Search for Information" p.8
- "Getting the Latest Version of the Documents" p.9

### **Using the Manual to Search for Information**

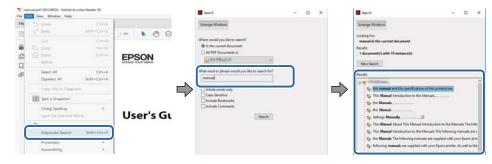
The PDF manual allows you to search for information you are looking for by keyword, or jump directly to specific sections using the bookmarks. You can also print only the pages you need. This section explains how to use a PDF manual that has been opened in Adobe Reader X on your computer.

#### **▶** Related Links

- "Searching by Keyword" p.8
- "Jumping Directly from Bookmarks" p.8
- "Printing Only the Pages You Need" p.8

### **Searching by Keyword**

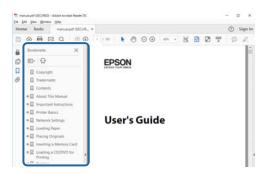
Click **Edit** > **Advanced Search**. Enter the keyword (text) for information you want to find in the search window, and then click **Search**. Hits are displayed as a list. Click one of the displayed hits to jump to that page.



### **Jumping Directly from Bookmarks**

Click a title to jump to that page. Click + or > to view the lower level titles in that section. To return to the previous page, perform the following operation on your keyboard.

- Windows: Hold down **Alt**, and then press  $\leftarrow$ .
- Mac OS: Hold down the command key, and then press ←.



### **Printing Only the Pages You Need**

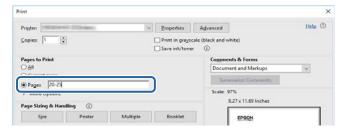
You can extract and print only the pages you need. Click **Print** in the **File** menu, and then specify the pages you want to print in **Pages** in **Pages to Print**.

• To specify a series of pages, enter a hyphen between the start page and the end page.

Example: 20-25

• To specify pages that are not in series, divide the pages with commas.

Example: 5, 10, 15



You can get the latest version of the manuals and specifications on the Epson Web site.

Visit epson.sn, and enter your projector's name.

# **Introduction to Your Projector**

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

### **→** Related Links

- "Projector Features" p.11
- "Projector Parts and Functions" p.13

## **Projector Features**

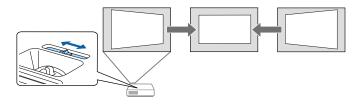
This projector comes with these special features. Refer to these sections for more details.

#### **▶** Related Links

- "Quick and Easy Setup" p.11
- "Easy Wireless Projection" p.11

### **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.
- Automatic vertical keystone correction always displays a rectangular screen ( Auto V-Keystone).
- Horizontal keystone slider allows you to quickly correct horizontal distortion in the projected image.



#### **→** Related Links

- "Turning On the Projector" p.35
- "Projector Setup Settings Extended Menu" p.133
- "Correcting the Image Shape with the Horizontal Keystone Slider" p.46
- "Auto V-Keystone" p.46

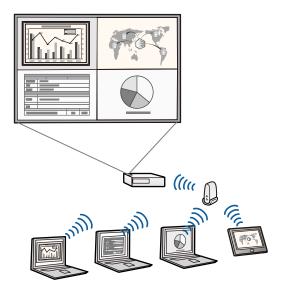
### **Easy Wireless Projection**

• Miracast to connect your projector and mobile device wirelessly using Miracast technology.



• Epson iProjection (Windows/Mac) 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.

See the Epson iProjection Operation Guide (Windows/Mac) for details.





You can download the necessary software and manuals from the following Web site:

http://www.epson.com/

• Epson iProjection (iOS/Android) to connect your projector and mobile device wirelessly using the app available on the App Store or Google Play.



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

• Epson iProjection (Chromebook) to connect your projector and Chromebook device wirelessly using the app available on the Chrome Web Store.



Any fees incurred when communicating with the Chrome Web Store are the responsibility of the customer.

#### **→** Related Links

• "Using the Projector on a Network" p.86

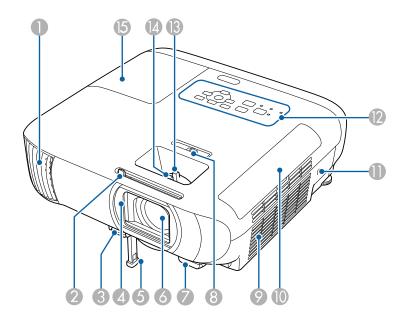
The following sections explain the projector parts and their functions.

All of the features in this guide are explained using illustrations of EB-FH54 unless otherwise mentioned.

### **→** Related Links

- "Projector Parts Front" p.13
- "Projector Parts Rear" p.14
- "Projector Parts Base" p.15
- "Projector Parts Control Panel" p.16
- "Projector Parts Remote Control" p.17

### **Projector Parts - Front**



Name		ne	Function
Ī		Air exhaust vent	Exhaust vent for air used to cool the projector internally.

Name		Function	
		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 knob to open and close the lens cover.	
3	Foot release lever	Press the foot release lever to extend and retract the front adjustable foot.	
4	Lens cover	Close when not using the projector to protect the lens. By closing it during projection you can hide the image and the sound.	
5	Front adjustable foot	When the projector is set up on a surface such as a desk, extend the foot to adjust the position of the image.	
6	Lens	Images are projected from here.	
7	Remote receiver	Receives signals from the remote control.	
8	Horizontal keystone slider	Corrects horizontal distortion in the projected image.	
9	Air intake vent (air filter)	Takes in air to cool the projector internally.	
10	Air filter cover	Open to access the air filter.	

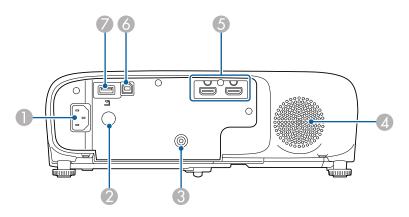
Name		Function
•	Security slot	The security slot is compatible with the Microsaver Security System manufactured by Kensington.
12	Control panel	Operates the projector.
13	Zoom ring	Adjusts the image size.
	Focus ring	Adjusts the image focus.  The shape may vary depending on the model of your projector.
15	Lamp cover	Open to access the projector's lamp.

### **→** Related Links

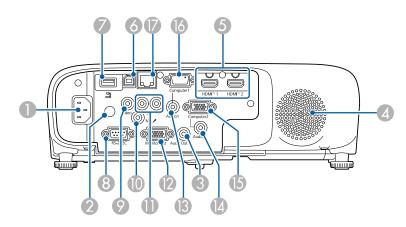
- "Resizing the Image with the Zoom Ring" p.50
- "Focusing the Image Using the Focus Ring" p.51
- "Projector Indicator Status" p.172
- "Correcting the Image Shape with the Horizontal Keystone Slider" p.46

### **Projector Parts - Rear**

### EB-FH54/EB-FH18



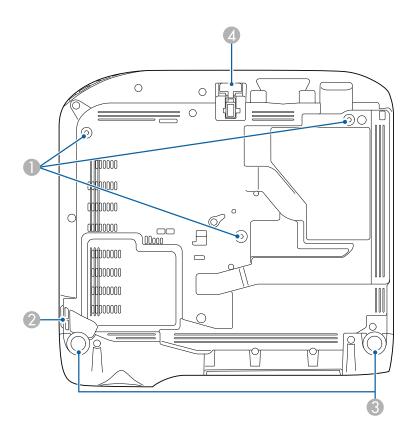
### EB-994F



Name		Function
0	Power inlet	Connects the power cord to the projector.
2	Remote receiver	Receives signals from the remote control.
3	Audio Out port	Outputs audio from the current input source to an external speaker.
4	Speaker	Outputs audio.
5	HDMI1, HDMI2 ports	Inputs video signals from HDMI compatible video equipment and computers.  This projector is compatible with HDCP.
6	USB-B port	Use this to copy menu settings when using the batch settings function.
7	USB-A (5V===2.0A) port	Connects a USB memory device or a digital camera and projects movies or images using PC Free.  Connects the optional document camera.  Provides a connection for a commercially available streaming media player allowing you to power it.

Name		Function
8	RS-232C port	Connects an RS-232C cable to control the projector from a computer. (You do not need to use this port normally.)
9	Video port	Inputs composite video signals from video sources.
10	Mic port	Inputs audio from the microphone.
0	L-Audio-R ports	Inputs audio from equipment connected to the Video port.
12	Monitor Out port	Outputs analog RGB signals input from the Computer1 port to an external monitor. You cannot output signals input from other ports.
<b>B</b>	Audio 1 port	Inputs audio from equipment connected to the Computer1 port.
14	Audio 2 port	Inputs audio from equipment connected to the Computer2 port.
15	Computer2 port	Inputs image signals from a computer.
16	Computer1 port	Inputs image signals from a computer.
•	LAN port	Connects a LAN cable to connect to a network.

## **Projector Parts - Base**



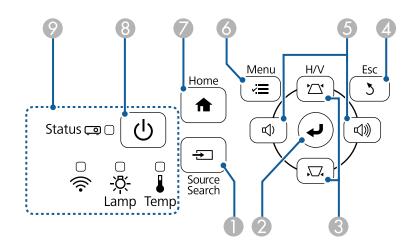
Name		Function
0	Ceiling mount fixing points (three points)	Attach the optional ceiling mount here when suspending the projector from a ceiling.
2	Security cable attachment point	Pass a commercially available wire lock through here and lock it in place.
		You can also attach the optional safety wire here to prevent the projector from falling from the ceiling or wall.

Name		Function
3	Rear feet	When the projector is set up on a surface such as a desk, turn to extend and retract the feet to adjust the horizontal tilt.
4	Front adjustable foot	When the projector is set up on a surface such as a desk, extend the foot to adjust the position of the image.

### **→** Related Links

• "Installing a Security Cable" p.84

### **Projector Parts - Control Panel**



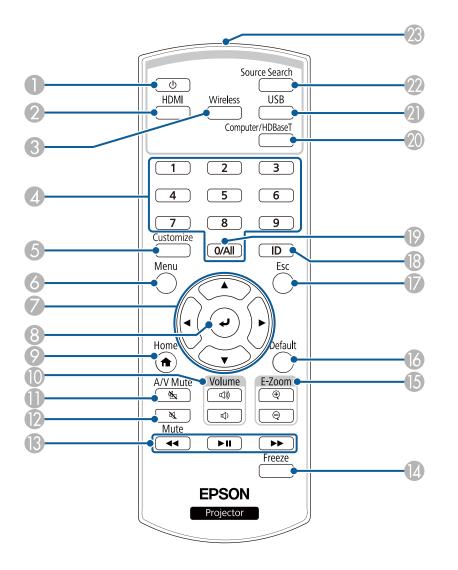
Name		Function
	[Source Search] button	Switches to the next input source.

Name		Function
2	[Enter] button [🗾	Enters the current selection and moves to the next level while displaying the projector's menu or help.
		Optimizes <b>Tracking</b> , <b>Sync.</b> , and <b>Position</b> in the projector's <b>Signal</b> menu while projecting an analog RGB signal from the Computer port.
3	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.
	(n. 11	*
4	[Esc] button	Stops the current function.  Moves back to the previous menu level while displaying the projector's menu.
5	Volume buttons and arrow buttons	: Decreases the volume. : Increases the volume.
		Corrects keystone distortion in the horizontal direction when the Keystone screen is displayed.
		Selects menu items while displaying the projector's menu or help.
6	[Menu] button	Displays and closes the projector's menu.
7	[Home] button	Displays and closes the Home screen.
8	Power button [ 🖒 ]	Turns the projector on or off.
9	Indicators	Indicates the projector's status.

#### **▶** Related Links

- "Input Signal Settings Signal Menu" p.129
- "Home Screen" p.36
- "Projector Indicator Status" p.172
- "Correcting the Image Shape with the Keystone Buttons" p.47

### **Projector Parts - Remote Control**



Name		Function
0	Power button [ $\circlearrowleft$ ]	Turns the projector on or off.
2	[HDMI] button	Switches the image source between the HDMI ports.
3	[Wireless] button	Switches the image source to a device connected over the network.
4	Numeric buttons	Enters numbers in the projector's menu.
5	[Customize] button	Performs the function set for the <b>Customize Button</b> in the <b>Settings</b> menu.
6	[Menu] button	Displays and closes the projector's menu.
<b>Ø</b>	Arrow buttons	Selects menu items while displaying the projector's menu.
8	[Enter] button [✔]	Enters the current selection and moves to the next level while displaying the projector's menu.
9	[Home] button	Displays/exits the home screen.
10	[Volume] up/down buttons	Adjusts the speaker volume.
•	[A/V Mute] button	Turns the video and audio on or off temporarily.
12	[Mute] button	Mutes the audio temporarily.
13	Playback control buttons	Controls devices that comply with the HDMI CEC standard.
14	[Freeze] button	Pauses or resumes images.
15	[E-Zoom] +/- buttons	Resizes the projected image.
16	[Default] button	Returns the selected setting to its default value.
•	[Esc] button	Stops the current function.
		Moves back to the previous menu level while displaying the projector's menu.
18	[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.

Name		Function
19	[0/All] button	Allows you to operate all projectors regardless of the <b>Projector ID</b> setting.
20	[Computer/ HDBaseT] button	Switches the image source to the Computer ports.  This button may not be available depending on the model you are using.
2	[USB] button	Switches the image source to the USB-A port.
22	[Source Search] button	Switches to the next input source.
23	Remote control light emitting area	Outputs remote control signals.

### **→** Related Links

- "Input Signal Settings Signal Menu" p.129
- "Projector Setup Settings Extended Menu" p.133
- "Projecting a PC Free Presentation" p.65
- "Projecting Two Images Simultaneously" p.60
- "Using the Projector on a Network" p.86
- "Home Screen" p.36

## **Setting Up the Projector**

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

#### **→** Related Links

- "Projector Placement" p.20
- "Projector Connections" p.23
- "Installing Batteries in the Remote Control" p.31
- "Remote Control Operation" p.32
- "Opening the Lens Cover" p.33

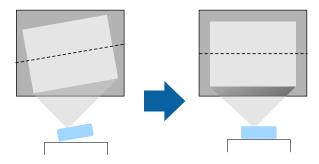
### **Projector Placement**

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

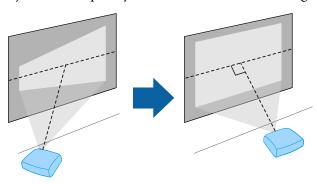
You can also install the projector in a ceiling mount if you want to use it in a fixed location. An optional ceiling mount is required when suspending the projector from a ceiling.

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





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

### **Marning**

- 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.
- Failure to install the ceiling mount and projector may cause the projector to fall. After installing the specific Epson mount that supports your projector, make sure you secure the mount to all of the projector's ceiling mount fixing points. Also, secure the projector and the mounts using wire that is strong enough to hold their weight.
- Do not install the projector in a location subject to high levels of dust or humidity, or in a location subject to smoke or steam. Otherwise, it could cause a fire or electric shock to occur. The projector's case could also deteriorate and be damaged causing the projector to fall from the mount.

#### Examples of environments that could cause the projector to fall due to case deterioration

- Locations subject to excessive smoke or airborne oil particles, such as factories or kitchens
- Locations containing volatile solvents or chemicals, such as factories or laboratories
- Locations where the projector could be subjected to detergents or chemicals, such as factories or kitchens
- Locations in which aroma oils are often used, such as relaxation rooms
- Near devices that produce excessive smoke, airborne oil particles, or foam at events

### **Projector Placement**

### Warning

- Do not cover the projector's air intake or air exhaust vents. If the vents are covered, the internal temperature could rise and cause a fire.
- Do not use or store the projector in locations where it will be subject to dust or dirt. Otherwise, the quality of the projected image may decline, or the air filter may become clogged, resulting in a malfunction or fire.
- Do not install the projector on an unstable surface or in a location beyond the weight specifications of the projector. Otherwise, it could fall or topple causing an accident and injury.
- When installing the projector in a high position, take measures to prevent falling by using wires to ensure safety in an emergency, such as an earthquake, and to prevent accidents. If it is not installed correctly, it could fall causing an accident and injury.
- Do not install in locations where salt damage could occur, or in locations subject to corrosive gas such as sulphuric gas from hot springs. Otherwise, corrosion could cause the projector to fall. It could also cause the projector to malfunction.

#### **Attention**

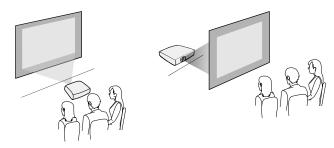
- Do not operate the projector on its side. This may cause the projector to malfunction.
- If you are using the projector at altitudes above 1,500 m, set the **High Altitude Mode** setting to **On** in the projector's menu to ensure the projector's internal temperature is regulated properly.
  - Extended > 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

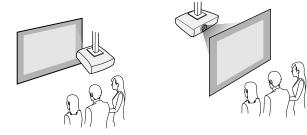
- "Projector Setup and Installation Options" p.21
- "Projection Distance" p.21
- "Image Shape" p.46
- "Projector Setup Settings Extended Menu" p.133

### **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.42

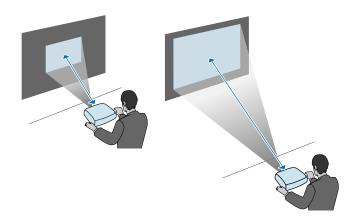
### **Projection Distance**

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.190

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

#### **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.

#### **▶** Related Links

- "Connecting to a Computer" p.23
- "Connecting to Video Sources" p.24
- "Connecting to External USB Devices" p.26
- "Connecting to a Document Camera" p.27
- "Connecting to External Devices" p.27

### **Connecting to a Computer**

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

#### **▶** Related Links

- "Connecting to a Computer for VGA Video and Audio" p.23
- "Connecting to a Computer for HDMI Video and Audio" p.24

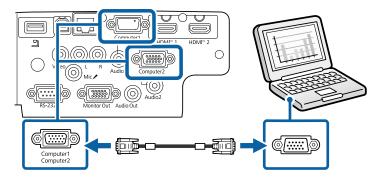
### **Connecting to a Computer for VGA Video and Audio**

You can connect the projector to your computer using a VGA computer cable. (EB-994F)

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

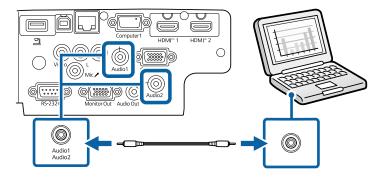


- To connect a computer that does not have a VGA video port, you need an adapter that allows you to connect to the projector's VGA video port.
- You can also set the port used for audio input in the projector's **Extended** menu.
  - **Extended** > A/V Settings > Audio Settings > Audio Output
- Make sure the audio cable is labeled "No resistance".
- Connect the VGA computer cable to your computer's monitor port.
- Connect the other end to a Computer port on the projector.



- **3** Tighten the screws on the VGA connector.
- Connect the audio cable to your laptop's headphone or audio-out jack, or your desktop's speaker or audio-out port.

Connect the other end to the Audio port that corresponds to the Computer port you are using.



#### **▶** Related Links

• "Projector Setup Settings - Extended Menu" p.133

### **Connecting to a Computer for HDMI Video and Audio**

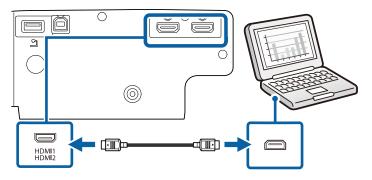
If your computer has an HDMI port, you can connect it to the projector using an HDMI cable and send the computer's audio with the projected image.



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.

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

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. (EB-994F)

- Extended > A/V Settings > Audio Settings > HDMI1 Audio Output
- Extended > A/V Settings > Audio Settings > HDMI2 Audio Output

#### **▶** Related Links

• "Projector Setup Settings - Extended Menu" p.133

### **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.25
- "Connecting to a Composite Video Source" p.25

### **Connecting to an HDMI Video Source**

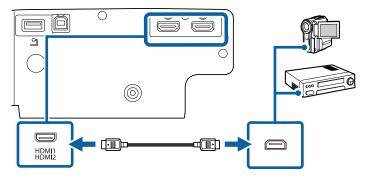
If your video source has an HDMI port, you can connect it to the projector using an HDMI cable and send the image source's audio with the projected image.

#### **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. (EB-994F)

- Extended > A/V Settings > Audio Settings > HDMI1 Audio Output
- Extended > A/V Settings > Audio Settings > HDMI2 Audio Output

#### **▶** Related Links

• "Projector Setup Settings - Extended Menu" p.133

### **Connecting to a Composite Video Source**

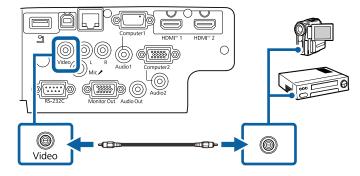
If your video source has a composite video port, you can connect it to the projector using a RCA-style video or A/V cable. (EB-994F)

You can play sound through the projector's speaker system by connecting a commercially available RCA audio cable.

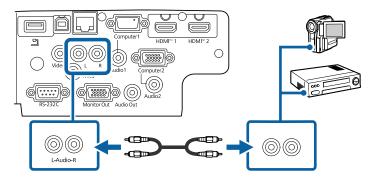


Make sure the audio cable is labeled "No resistance".

- 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.
- Connect the other end to the projector's L-Audio-R ports.



### **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.26
- "Connecting to a USB Device" p.27
- "Disconnecting a USB Device" p.27

### **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



- Digital cameras or smartphones must be USB-mounted devices, not TWAIN-compliant devices, and must be USB Mass Storage Classcompliant.
- USB hard drives must meet these requirements:
  - USB Mass Storage Class-compliant (not all USB Mass Storage Class devices are supported)
  - Formatted in FAT16/32
  - 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.

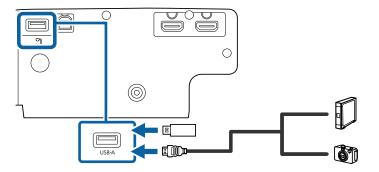
#### **▶** Related Links

• "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.

- If your USB device came with a power adapter, plug the device into an electrical outlet.
- 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.

### **Connecting to External Devices**

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

#### **▶** Related Links

- "Connecting to a VGA Monitor" p.27
- "Connecting to External Speakers" p.28
- "Connecting a Microphone" p.29
- "Connecting to a Streaming Media Player" p.29

### **Connecting to a VGA Monitor**

If you connected the projector to a computer using a Computer port, you can also connect an external monitor to the projector. This lets you see your presentation on the external monitor even when the projected image is not visible. (EB-994F)

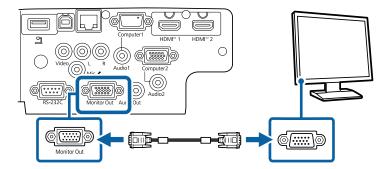


- If you want to output images to an external monitor when the projector is turned off, select **Always On** as the **A/V Output** setting in the projector's **Extended** menu.
  - Extended > A/V Settings > A/V Output
- Monitors that use a refresh rate of less than 60 Hz may not be able to display images correctly.
- 1 Make sure your computer is connected to the projector's Computer port.



Only analog RGB signals from the Computer1 port can be output to an external monitor. You cannot output signals input from other ports.

Connect the external monitor's cable to your projector's Monitor Out port.



#### **→** Related Links

• "Projector Setup Settings - Extended Menu" p.133

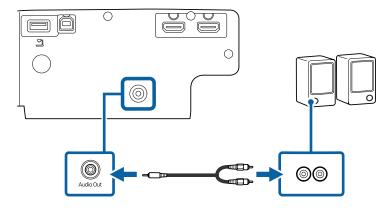
### **Connecting to External Speakers**

To enhance the sound from your presentation, you can connect the projector to external self-powered speakers. You can control the volume using the projector's remote control.



- If you want to output audio from the external speakers when the projector is turned off, select **Always On** as the **A/V Output** setting in the projector's **Extended** menu.
  - Extended > A/V Settings > A/V Output
- You can also connect the projector to an amplifier with speakers.
- The projector's built-in speaker system is disabled when you connect external speakers.
- Make sure your computer or video source is connected to the projector with both audio and video cables as necessary.
- Locate the appropriate cable to connect your external speakers, such as a stereo mini-jack-to-pin-jack cable, or another type of cable or adapter.
- **3** Connect one end of the cable to your external speakers as necessary.

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



#### **→** Related Links

• "Projector Setup Settings - Extended Menu" p.133

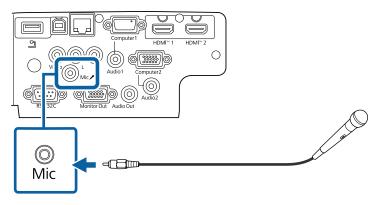
### **Connecting a Microphone**

You can connect a microphone to the projector's Mic port to provide audio support during presentations. (EB-994F)



- Plug-in-power is not supported.
- If you want to output audio from a microphone when the projector is turned off, select **Always On** as the **A/V Output** setting in the projector's **Extended** menu.
  - $\blacksquare$  Extended > A/V Settings > A/V Output
- Adjust **Mic Input Level** if the microphone audio is difficult to hear, or if it is too loud resulting in a crackling sound.
  - Settings > Mic Input Level

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



**2** Turn on the microphone, if necessary.

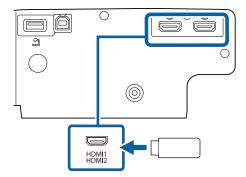
### **Connecting to a Streaming Media Player**

You can connect your streaming media player to the projector's HDMI port. By connecting the power supply USB cable, you can power the streaming media player from the projector.

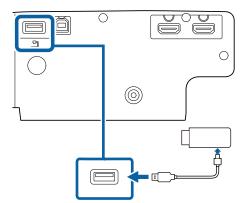


The connection method and operating environment for the streaming media player vary depending on the model you are using. For details, see the documentation supplied with your streaming media player; otherwise, it may not operate properly.

Connect your streaming media player to the projector's HDMI port.



- **2** Connect the power supply USB cable to the projector's USB-A port.
- **3** Connect the other end to the streaming media player.



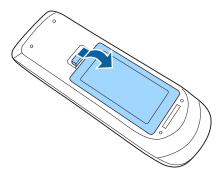
## **Installing Batteries in the Remote Control**

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.

Remove the battery cover as shown.

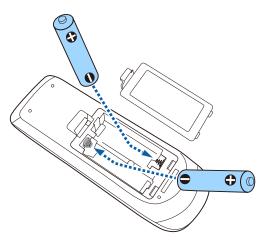


Remove the old batteries, if necessary.



Dispose of used batteries according to local regulations.

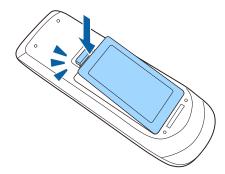
Insert the batteries with the + and - ends facing as shown.



### **Marning**

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.

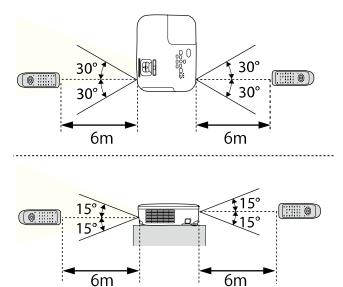
Replace the battery cover and press it down until it clicks into place.



## **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.

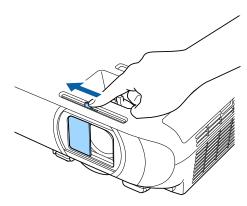




Avoid using the remote control in conditions with bright fluorescent lights or in direct sunlight, or the projector may not respond to commands. If you are not going to use the remote control for a long time, remove the batteries.

## **Opening the Lens Cover**

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



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



The projector's power automatically turns off 30 minutes after A/V Mute is enabled. You can disable this feature.

**ECO** > Lens Cover Timer

## **Using Basic Projector Features**

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

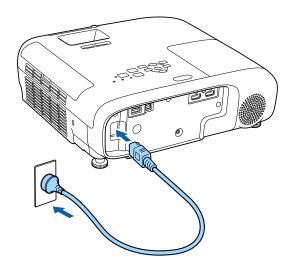
#### **→** Related Links

- "Turning On the Projector" p.35
- "Turning Off the Projector" p.38
- "Setting the Date and Time" p.39
- "Selecting the Language for the Projector Menus" p.41
- "Projection Modes" p.42
- "Displaying a Test Pattern" p.44
- "Adjusting the Image Height" p.45
- "Image Shape" p.46
- "Resizing the Image with the Zoom Ring" p.50
- "Focusing the Image Using the Focus Ring" p.51
- "Selecting an Image Source" p.52
- "Image Aspect Ratio" p.54
- "Adjusting Image Quality (Color Mode)" p.56
- "Controlling the Volume with the Volume Buttons" p.58

## **Turning On the Projector**

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

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

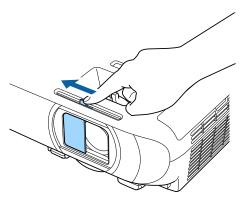


The projector's power indicator turns blue. This indicates that the projector is receiving power, but is not yet turned on (it is in standby mode).

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.

### **Turning On the Projector**

### **Marning**

- 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

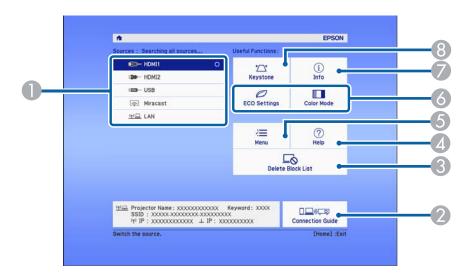
#### **▶** Related Links

- "Home Screen" p.36
- "Projector Setup Settings Extended Menu" p.133

### **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.

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



- Selects the source you want to project.
- ② Displays the Connection Guide. You can select the wireless connection methods according to the devices you are using, such as smartphones or computers.
- Removes all devices from the block list. The block list contains devices that are automatically denied Miracast projection.
  - This message is displayed when a device has been added to the block list.
- Displays the Help screen.
- 6 Displays the projector's menu.
- Performs menu options assigned to Home Screen in the projector's Extended menu.
- Displays the Info menu. (Other than EB-994F)
  Projects two images from different image sources simultaneously by splitting the projected screen. (EB-994F)
- **(8)** 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.46
- "Projector Setup Settings Extended Menu" p.133
- "Using the Projector's Menus" p.125
- "Using the Projector Help Displays" p.175
- "Projecting Two Images Simultaneously" p.60

# **Turning Off the Projector**

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.
- Press the power button on the control panel or remote control. The projector displays a shutdown confirmation screen.

Power Off?

Yes: Press 🕲 button

No: Press any other button

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

The projected image disappears, the projector beeps twice, 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.

- 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.

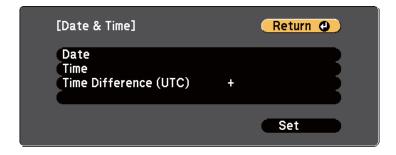
# **Setting the Date and Time**

You can set the date and time for the projector.

- Turn on the projector.
- 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].
- Select the **Date & Time** setting and press [Enter]. You see this screen:



Select the **Date & Time** setting and press [Enter]. You see this screen:

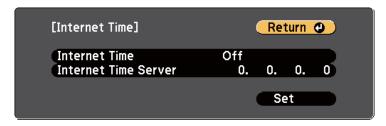


- Select **Date**, press [Enter], and use the displayed keyboard to enter today's date.
- Select **Time**, press [Enter], and use the displayed keyboard to enter the current time.
- Select **Time Difference (UTC)**, press [Enter], and set the time difference from Coordinated Universal Time.
- When you are finished, select **Set** and press [Enter].
- To activate daylight saving time, select the **Daylight Saving Time** setting and press [Enter]. Then select settings.



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

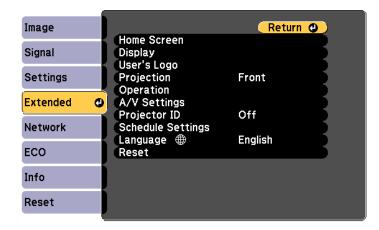
To update the time automatically through an Internet time server, select the **Internet Time** setting and press [Enter]. Then select settings.



- 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.

- Turn on the projector.
- 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.

## **Projection Modes**

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

- **Front** 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.

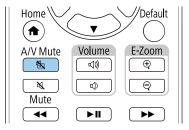
#### **₩** Related Links

- "Changing the Projection Mode Using the Remote Control" p.42
- "Changing the Projection Mode Using the Menus" p.42
- "Projector Setup and Installation Options" p.21

# **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.
- Hold down the [A/V Mute] button on the remote control for 5 seconds.



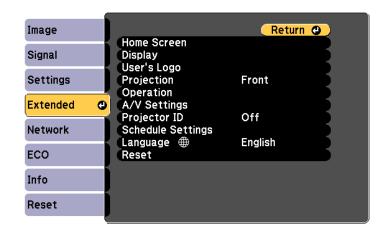
The image disappears briefly and reappears flipped top-to-bottom.

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

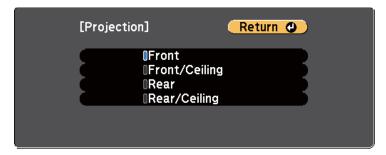
## **Changing the Projection Mode Using the Menus**

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.
- Press the [Menu] button on the control panel or remote control.
- **3** Select the **Extended** menu and press [Enter].



- Select **Projection** and press [Enter].
- **5** Select a projection mode and press [Enter].



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

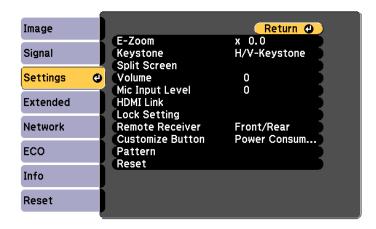
# **Displaying a Test Pattern**

You can display a test pattern to adjust the projected image without connecting a computer or video device.



To set menu items that cannot be set while the test pattern is being displayed or to fine-tune the projected image, project an image from the connected device.

- Turn on the projector.
- Press the [Menu] button on the control panel or remote control.
- **3** Select the **Settings** menu and press [Enter].



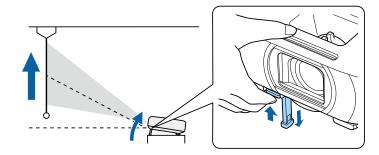
- Select **Pattern** > **Test Pattern**, and press [Enter]. The test pattern is displayed.
- Adjust the image as necessary.
- 6 Press [Esc] to clear the test pattern.

# **Adjusting the Image Height**

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

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.

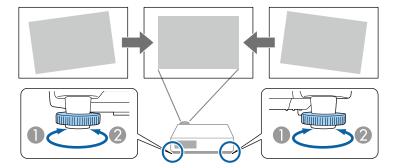
- 1 Turn on the projector and display an image.
- To adjust the front foot, pull up on the foot release lever and lift the front of the projector.



The foot extends from the projector.

You can adjust the position up to approximately 12 degrees.

- Release the lever to lock the foot.
- If the image is tilted, rotate the rear feet to adjust their height.



- Extend the rear foot
- Retract the rear foot

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

### **▶** Related Links

• "Image Shape" p.46

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

After correction, your image is slightly smaller.

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

#### **▶** Related Links

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

### **Auto V-Keystone**

When the projector is moved or tilted, **Auto V-Keystone** automatically corrects any vertical keystone distortion.

**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 menu.

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

#### **▶** Related Links

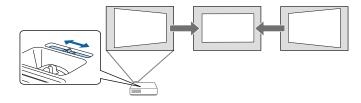
- "Projection Modes" p.42
- "Projector Setup Settings Extended Menu" p.133
- "Projector Feature Settings Settings Menu" p.130

# Correcting the Image Shape with the Horizontal Keystone Slider

You can use the projector's horizontal keystone slider to correct the shape of an image that is an uneven horizontal rectangle, such as when the projector is placed to the side of the projection area.

You can make effective corrections when the projection angle is about 30° right or left.

- 1 Turn on the projector and display an image.
- Adjust the slider until the image is an even rectangle.



After correction, your image is slightly smaller.



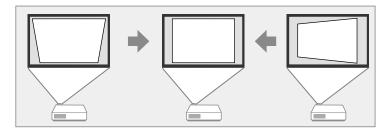
- When you use the horizontal keystone slider, set **H-Keystone Adjuster** to **On** in the projector's **Settings** menu.
  - Settings > Keystone > H/V-Keystone > H-Keystone Adjuster
- You can also correct the shape of the image in the horizontal direction in the projector's **Settings** menu.
  - $\blacksquare$  Settings > Keystone > H/V-Keystone

#### **▶** Related Links

• "Projector Feature Settings - Settings Menu" p.130

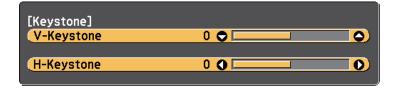
### **Correcting the Image Shape with the Keystone Buttons**

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

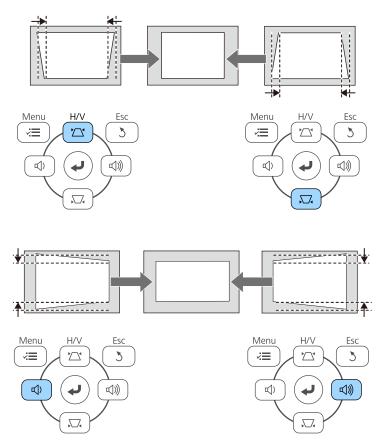


You can use keystone buttons to correct images up to 30° right, left, up, or down.

- 1 Turn on the projector and display an image.
- Press one of the keystone adjustment buttons on the control panel to display the Keystone adjustment screen.



Press a keystone button to adjust the image shape.





If the projector is installed out of your reach, you can also correct the shape of the image using the remote control.

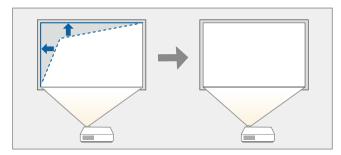
Settings > Keystone > H/V-Keystone

### **▶** Related Links

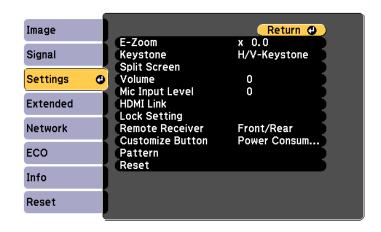
• "Projector Feature Settings - Settings Menu" p.130

### **Correcting the Image Shape with Quick Corner**

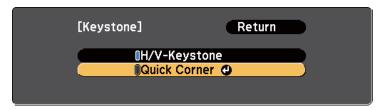
You can use the projector's **Quick Corner** setting to correct the shape and size of an image that is unevenly rectangular.



- Turn on the projector and display an image.
- Press the [Menu] button on the control panel or remote control.
- **3** Select the **Settings** menu and press [Enter].

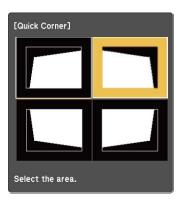


- Select **Keystone** and press [Enter].
- Select **Quick Corner** and press [Enter]. Then press [Enter] again if necessary.



You see the area selection screen.

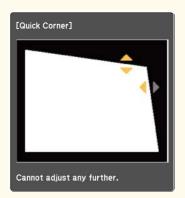
Use the arrow buttons to select the corner of the image you want to adjust. Then press [Enter].



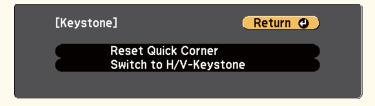
Press the arrow buttons to adjust the image shape as necessary. To return to the area selection screen, press [Enter].



• 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.



- Repeat steps 6 and 7 as needed to adjust any remaining corners.
- **9** When you are finished, press [Esc].

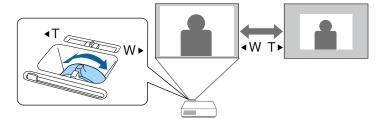
The **Keystone** setting is now set to **Quick Corner** in the projector's **Settings** menu. The next time you press the keystone adjustment buttons on the control panel, the area selection screen is displayed.

### **▶** Related Links

• "Projector Feature Settings - Settings Menu" p.130

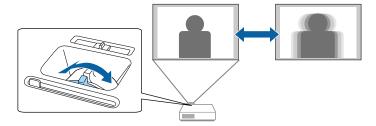
You can resize the image using the projector's zoom ring.

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



You can correct the focus using the focus ring.

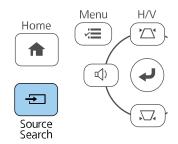
- Turn on the projector and display an image.
- **2** Rotate the focus ring to adjust the focus.

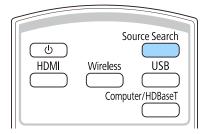


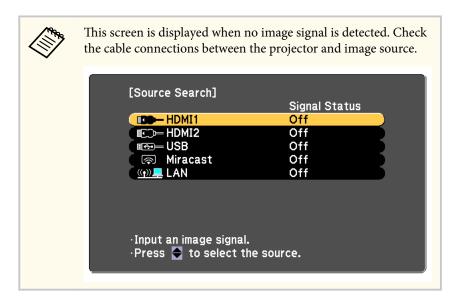
## **Selecting an Image Source**

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. Available sources vary depending on the projector model.

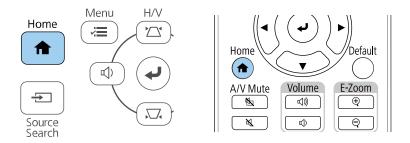
- 1 Make sure the connected image source you want to use is turned on.
- 2 For video image sources, insert a DVD or other video media and press play.
- **B** Do one of the following:
  - Press the [Source Search] button on the control panel or remote control until you see the image from the source you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







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



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



## **Image Aspect Ratio**

The projector can display images in different width-to-height ratios called aspect ratios. Normally, the input signal from your video source determines the image's aspect ratio.

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

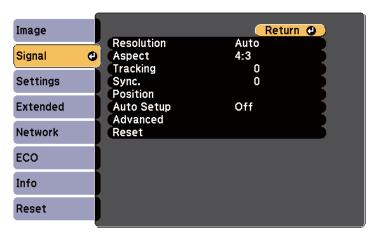
- "Changing the Image Aspect Ratio" p.54
- "Available Image Aspect Ratios" p.54
- "Projected Image Appearance with Each Aspect Mode" p.55
- "Input Signal Settings Signal Menu" p.129

### **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 [Menu] button on the control panel or remote control.

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



- 2. Select Aspect and press [Enter].
- Select one of the displayed aspect modes and press [Enter].
- 6 Press [Menu] or [Esc] to exit the menus.



To display images without black bars, set **Resolution** to **Wide** or **Normal** in the projector's **Signal** menu according to the computer's resolution. (EB-994F)

#### **▶** Related Links

• "Input Signal Settings - Signal Menu" p.129

### **Available Image Aspect Ratios**

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

# **Image Aspect Ratio**



- The available aspect ratio setting varies depending on the input signal.
- 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.

Aspect mode	Description
Auto Normal	Automatically sets the aspect ratio according to the input signal and the <b>Resolution</b> setting.
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.

Aspect mode	Aspect ratio for input signals		
	16:10	16:9	4:3
Auto Normal		0	

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

## **Adjusting Image Quality (Color Mode)**

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

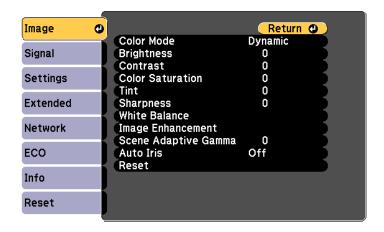
#### **→** Related Links

- "Changing the Color Mode" p.56
- "Available Color Modes" p.56
- "Setting Auto Iris" p.56

### **Changing the Color Mode**

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

- 1 Turn on the projector and switch to the image source you want to use.
- Press the [Menu] button on the control panel or remote control.
- **3** Select **Image** and press [Enter].



- Select **Color Mode** and press [Enter].
- **5** Select one of the displayed color modes and press [Enter].
- 6 Press [Menu] or [Esc] to exit the menus.

#### **▶** Related Links

• "Image Quality Settings - Image Menu" p.127

### **Available Color Modes**

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

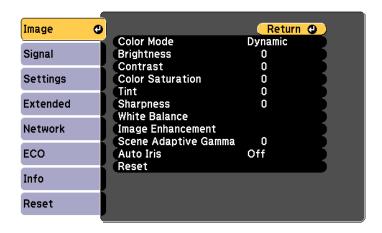
Color mode	Description	
Dynamic	This is the brightest mode. Best for prioritizing brightness.	
Presentation	Best for projecting vivid images.	
Cinema	Best for enjoying content such as movies.	
sRGB	Best for faithfully reproducing the color of the source image.	
Blackboard	Best for projecting images directly on a green chalkboard.	

### **Setting Auto Iris**

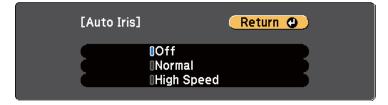
You can turn on **Auto Iris** to automatically optimize the image based on the brightness of the content.

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

- Press the [Menu] button on the control panel or remote control.
- Select the **Image** menu and press [Enter].



- Select **Auto Iris** and press [Enter].
- **5** Choose one of the following options and press [Enter]:



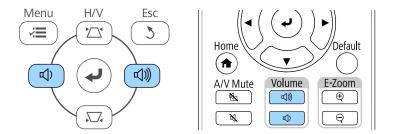
- Normal for standard brightness adjustment.
- **High Speed** to adjust brightness as soon as the scene changes.
- **6** Press [Menu] or [Esc] to exit the menus.

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

You can also control the volume of any external speakers you connected to the projector.

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

- Turn on the projector and start a presentation.
- 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.

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.130

# **Adjusting Projector Features**

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

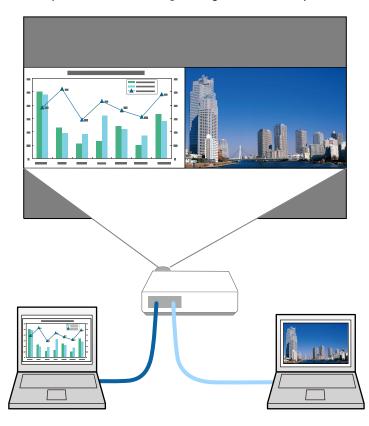
### **→** Related Links

- "Projecting Two Images Simultaneously" p.60
- "HDMI Link Features" p.63
- "Projecting a PC Free Presentation" p.65
- "Shutting Off the Image and Sound Temporarily" p.70
- "Shutting Off the Sound Temporarily" p.71
- "Stopping Video Action Temporarily" p.72
- "Zooming In/Zooming Out of Images (E-Zoom)" p.73
- "Saving a User's Logo Image" p.75
- "Saving a User Pattern" p.77
- "Color Difference Correction when Projecting from Multiple Projectors" p.78
- "Projector Security Features" p.81

# **Projecting Two Images Simultaneously**

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.

This function may not be available depending on the model you are using.



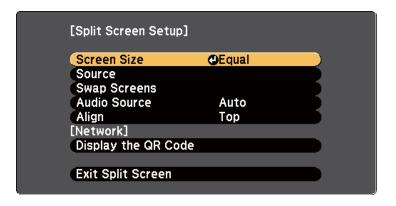


While using the split screen feature, other projector features may not be available and some settings may be automatically applied to both images.

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

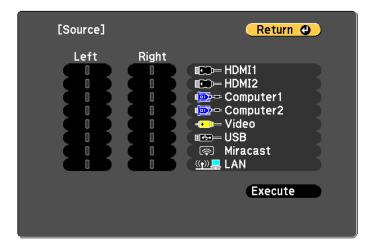
- Select **Settings** and press [Enter].
- Select **Split Screen** and press [Enter].

  The currently selected input source moves to the left of the screen.
- Press the [Menu] button.
  You see this screen:



# **Projecting Two Images Simultaneously**

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.
- To switch images, select **Swap Screens** and press [Enter]. The projected images on the left and right are swapped.



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**.

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.

- To align the projected images, select **Align**, press [Enter], select the setting, and press [Enter] again. To exit the menu, press [Menu].
- 10 To exit the split screen feature, press [Esc].

#### ▶ Related Links

- "Unsupported Input Source Combinations for Split Screen Projection" p.62
- "Split Screen Projection Restrictions" p.62

# **Unsupported Input Source Combinations for Split Screen Projection**

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

- Computer1 and Computer2
- Computer1/Computer2 and Video
- HDMI1 and HDMI2
- HDMI1/HDMI2 and LAN/Miracast
- USB and LAN
- LAN and Miracast

### **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
- Operations using the [Customize] 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.
- 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.

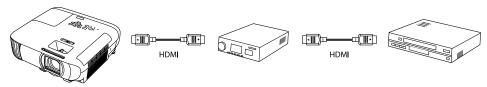
#### **▶** Related Links

- "Image Aspect Ratio" p.54
- "Adjusting Image Quality (Color Mode)" p.56
- "Projector Feature Settings Settings Menu" p.130
- "Projector Setup Settings Extended Menu" p.133
- "Image Quality Settings Image Menu" p.127
- "Zooming In/Zooming Out of Images (E-Zoom)" p.73
- "Setting Auto Iris" p.56

HDMI Link Features 63

When an audio/video source that meets the HDMI CEC standard is connected to the projector's HDMI port, you can use the projector's remote control to control certain features of the linked device.

Example: Projector, audio/video system, and multi-media players connection





- As long as the connected device meets the HDMI CEC standard, you can use the HDMI Link features even if the audio/video system in-between does not meet the HDMI CEC standard.
- Up to 3 multi-media players that meet the HDMI CEC standard can be connected at the same time.

#### **▶** Related Links

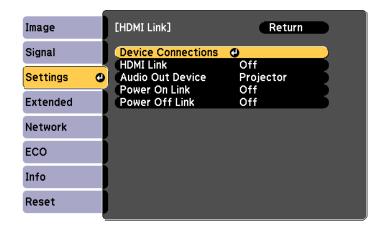
• "Operating the Connected Devices Using the HDMI Link Features" p.63

# Operating the Connected Devices Using the HDMI Link Features

You can select the connected device that is available for HDMI Link and control the selected device using the HDMI Link features.



- When you use the HDMI Link features, set the **HDMI Link** setting to **On** in the projector's **Settings** menu.
  - Settings > HDMI Link > HDMI Link
- You must also configure the connected device. See the documentation supplied with the device for more information.
- Some connected devices or functions of those devices may not operate properly even if they meet the HDMI CEC standard. See the documentation supplied with the device for more information.
- Use a cable that supports the HDMI standard.
- Press the [Menu] button on the control panel or remote control.
- Select **Settings** and press [Enter].
- Select **HDMI Link** and press [Enter].
  On the screen displayed, make sure that **HDMI Link** is set to **On**.
- 4. Select **Device Connections** and press [Enter].



HDMI Link Features 64

Select the device you want to control and project the image from, and press [Enter].



- A linked device is indicated by a blue mark.
- The device name is left blank if it cannot be acquired.
- 6 Press [Esc] to select the HDMI Link options as necessary.
  - Audio Out Device: Select the device for audio output.



- Select **Projector** to output audio from the projector itself.
- Select **AV System** to output audio from an AV amplifier that is connected using an HDMI cable.
- **Power On Link** lets you control what happens when you turn on the projector or linked device.



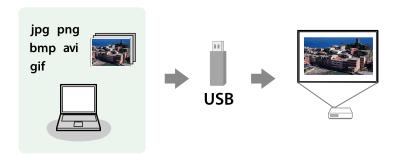
- Select **PJ** -> **Device** or **Bidirectional** to turn the linked device on when the projector is turned on.
- Select **Device** -> **PJ** or **Bidirectional** to turn the projector on when the linked device is turned on.
- **Power Off Link** lets you control whether linked devices are turned off when the projector is turned off.



- **Power Off Link** only works when the connected device's CEC power link function is enabled.
- Note that depending on the status of the connected device (for example, if it is recording), the device may not be turned off.

You can use the projector's remote control to control the linked device, such as playback, stop, fast forward, and rewind.

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 Movie Presentation" p.67
- "PC Free Display Options" p.68

### **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:
.gif		• Above 1280 × 800 resolution
		Make sure the file is not:
		• Above 1280 × 800 resolution
		Animated
		Interlaced
	.png	Make sure the file is not:
		• Above 1920 × 1200 resolution
		Interlaced
Movie .avi		Supports only AVI 1.0.
	(Motion JPEG)	Make sure the file is not:
		Saved with an audio codec other than PCM or ADPCM
		• Above 1280 × 720 resolution
		Larger than 2 GB

### **Precautions on PC Free Projection**

Note the following precautions when using PC Free features.

- You cannot use a USB key for 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

#### **▶** Related Links

- "Stopping Video Action Temporarily" p.72
- "Shutting Off the Image and Sound Temporarily" p.70
- "Zooming In/Zooming Out of Images (E-Zoom)" p.73

### 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].

Press the [USB] button on the remote control. The PC Free file list screen is displayed.

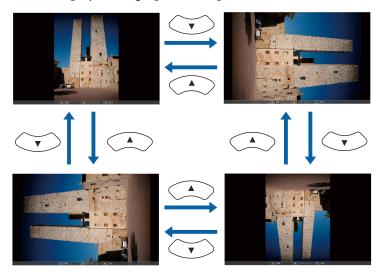




- If the Select Drive screen is displayed, press the arrow buttons to select the drive and press [Enter].
- To display images on the other USB drive, highlight **Select Drive** at the top of the file list screen and press [Enter].
- 2 Do one of the following to locate your files:
  - If you need to display 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].
- **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.
- 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.
- To stop the display, follow the on-screen instructions or press the [Esc] button.

You return to the file list screen.

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

#### **▶** Related Links

- "PC Free Display Options" p.68
- "Connecting to a USB Device" p.27

### **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].

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 movie files on the other USB drive, 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 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.
- To stop movie playback, press the [Esc] button, highlight **Exit**, and press [Enter].

You return to the file list screen.

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

### **▶** Related Links

- "PC Free Display Options" p.68
- "Connecting to a USB Device" p.27

### **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].

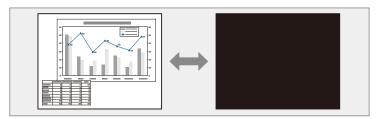


Setting	Options	Description	
Display Order	Name Order	Displays files in name order	
	Date Order	Displays files in date order	
Sort Order	In Ascending	Sorts files in first-to-last order	
	In Descending	Sorts files in last-to-first order	
Continuous Play	On	Displays a slide show continuously	
	Off	Displays 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	
Effect	No	No effect	
	Wipe	Transitions between images using a wipe effect	
	Dissolve	Transitions between images using a dissolve effect	

Setting	Options	Description
	Random	Transitions between images using a random variety of effects

# **Shutting Off the Image and Sound Temporarily**

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.

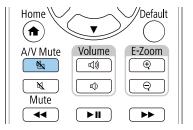




If you want to display an image such as a company logo or picture when the [A/V Mute] button is pressed, you can select the screen displayed in the A/V Mute setting in the projector's Extended menu.

Extended > Display > A/V Mute

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.



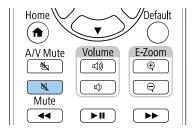
- You can also stop projection using the A/V Mute slide lever on the projector.
- The projector's power automatically turns off 30 minutes after A/V Mute is enabled. You can disable this feature.
  - **ECO** > A/V Mute Timer
- The lamp is still operating during A/V Mute, so the lamp hours continue to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

### **▶** Related Links

- "Projector Setup Settings Extended Menu" p.133
- "Projector Setup Settings ECO Menu" p.147

You can temporarily mute the audio.

Press the [Mute] button on the remote control to mute the audio.

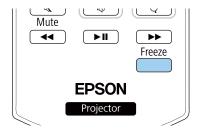


**2** To unmute, press [Mute] again.

# **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.

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

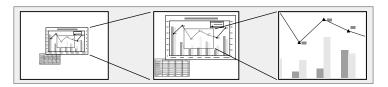


**2** To restart the video action in progress, press [Freeze] again.

## **Zooming In/Zooming Out of Images (E-Zoom)**

You can zoom in or zoom out of the projected image using the [E-Zoom] button on the remote control.

The size and the position of the zoomed image remain even after switching the input source or turning off the projector.

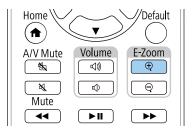


#### **→** Related Links

- "Zooming Into Images" p.73
- "Zooming Out of Images" p.73

## **Zooming Into Images**

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



The projected image is enlarged focusing around the center of the image. You can enlarge the image between one to four times in 25 incremental steps.

- Use the following buttons on the remote control to adjust the zoomed image while the zoom ratio is displayed:
  - Press the [E-Zoom] + button repeatedly to zoom into the image.

- To pan around the zoomed image, use the arrow buttons.
- To zoom out of the image, press the [E-Zoom] button.
- To return to the original image size, press the [Default] button.

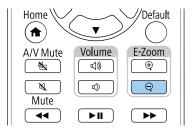


When projecting images from an Epson document camera, you can enlarge the image from one to eight times its size in 57 incremental steps using the [E-Zoom] + button on the document camera.

When the zoom ratio display disappears, the size and the position of the zoomed image will be saved. Press the [E-Zoom] +/- buttons to make adjustment again.

## **Zooming Out of Images**

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



The projected image is reduced. You can reduce the image between 100% to 50% in incremental steps.

- Use the following buttons on the remote control to adjust the zoomed-out image while the zoom ratio is displayed:
  - Press the [E-Zoom] button repeatedly to zoom out of the projected image.

- To move the zoomed-out image in the projection area, use the arrow buttons.
- To zoom into the image, press the [E-Zoom] + button.
- To return to the original image size, press the [Default] button.



When projecting image from an Epson document camera, you can also reduce the image using the [E-Zoom] - button on the document camera.

When the zoom ratio display disappears, the size and the position of the zoomed image will be saved. Press the [E-Zoom] +/- buttons to make adjustment again.

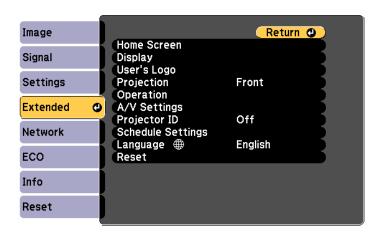
## Saving a User's Logo Image

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. 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.



- If the **User's Logo Protection** setting in the **Password Protection** setting menu is set to **On**, 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.
- You cannot save content that is protected by HDCP.
- This function is unavailable if the input source is LAN or Miracast.
- Display the image you want to project as the user's logo.
- Press the [Menu] button, select the **Extended** menu, and press [Enter].



Select **User's Logo** > **Start Setting** 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**.

- Select **Yes** and press [Enter].
- Check the displayed image, and then select **Yes** to save it as the user's logo. The user's logo is overwritten and a completion message is displayed.
- **6** Press [Esc] to exit the message screen.
- Select the **Extended** menu and press [Enter].
- Select **Display** and press [Enter].
- **9** 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**.
    - Extended > Display > Display Background
  - To display it whenever you turn the projector on, select **Startup Screen** and set it to **On**.
    - Extended > Display > Startup Screen
  - To display it whenever you press the [A/V Mute] button, select A/V Mute and set it to Logo.
    - Extended > Display > A/V Mute

## Saving a User's Logo Image

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.70
- "Selecting Password Security Types" p.82

## Saving a User Pattern

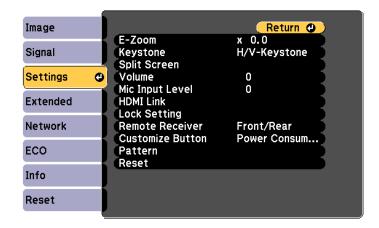
There are four types of patterns pre-registered in the projector, such as ruled lines and grid patterns. You can project these patterns to aid in presentations using the **Pattern Display** settings.

You can also save the image that is currently being projected as a User Pattern.



Once you save a User Pattern, the pattern cannot be returned to the factory default.

- Project the image you want to save as the User Pattern, and then press the [Menu] button on the control panel or remote control.
- 2 Select the **Settings** menu and press [Enter].



Select **Pattern** > **User Pattern** and press [Enter].

You see a prompt asking if you want to use the displayed image as a User Pattern.



- Adjustments such as Keystone, E-Zoom, or Aspect are temporarily cancelled when you select **User Pattern**.
- You cannot save digital images protected by HDCP technology as a User Pattern.
- Select **Yes** and press [Enter].
- Press [Enter].
  You see a prompt asking if you want to save the image as the User Pattern.
- Select **Yes** and press [Enter]. You see a completion message.

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

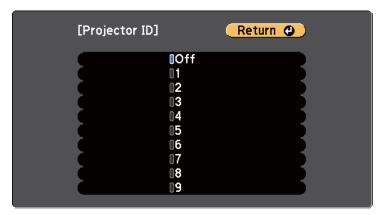
- "Setting the Projector ID" p.78
- "Selecting the Projector You want to Operate" p.78
- "Matching Multiple-Projector Display Quality" p.79

## **Setting the Projector ID**

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

- Press the [Menu] button, select the **Extended** menu, and press [Enter].
- 2 Select **Projector ID** and press [Enter].

Use the arrow buttons to select the identification number you want to use for the projector. Then press [Enter].

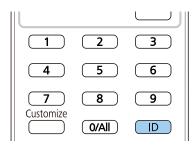


- Press [Menu] or [Esc] to exit the menus.
- Repeat these steps for all the other projectors you want to operate from one remote control.

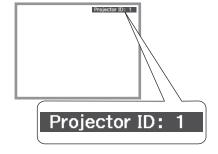
## Selecting the Projector You want to Operate

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

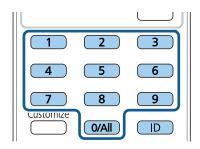
Aim the remote control at the target projector and press the [ID] button.



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



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.



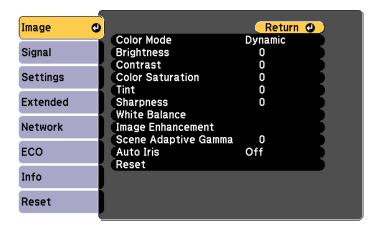
- When you select [0/All] on the remote control, you can operate all projectors regardless the **Projector ID** setting.
- When you set the **Projector ID** setting to **Off**, you can operate the projector using the remote control whichever ID you select on the remote control.
- The projector ID setting is saved in the remote control. Even if the remote control batteries are removed to replace them and so on, the saved ID setting is retained. However, if the batteries are left out of the remote control for an extended period, the ID returns to its default setting (0/All).
- When you use multiple remote controls at the same time, you
  may not be able to operate projectors as intended due to infrared
  interference.

## **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.
- Make sure all the projectors are using the same Color Mode setting.
- Select the remote control ID to match the first projector.

Press the [Menu] button, select the **Image** menu, and press [Enter].



- **6** Select settings as necessary.
- 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.81
- "Locking the Projector's Buttons" p.83
- "Installing a Security Cable" p.84

### **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.

• **Schedule Protection** password prevents anyone from changing the projector's schedule settings.

#### **▶** Related Links

- "Setting a Password" p.81
- "Selecting Password Security Types" p.82
- "Entering a Password to Use the Projector" p.83

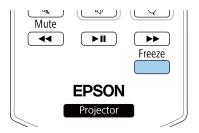
### **Setting a Password**

For the first time you use the projector, you must set a password.



No password is set by default. You must set a password.

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

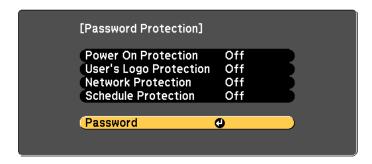


You see the Password Protection setting menu.



- If no password has been set, a screen prompting you to set a password is displayed before you can view 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].



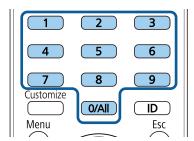
You see the prompt **Change the password?**.

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



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

Use the numeric buttons on the remote control 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.

- Enter the password again.

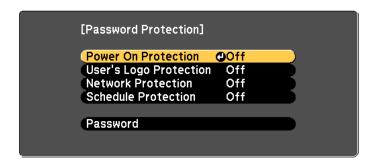
  You see the message **Password accepted**. If you enter the password incorrectly, a message is displayed prompting you to re-enter the
- 6 Press [Esc] to return to the menu.

password.

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 schedule settings, select **On** as the **Schedule Protection** setting.

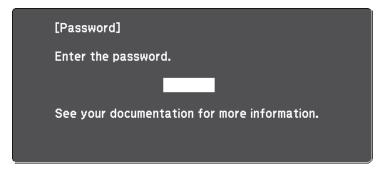
You can attach the password protect sticker to the projector as an additional theft deterrent.



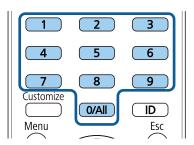
Be sure to keep the remote control in a safe place; if you lose it, you will not be able to enter the password.

### **Entering a Password to Use the Projector**

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



Use the numeric buttons on the remote control to enter the password.



The password screen closes.

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

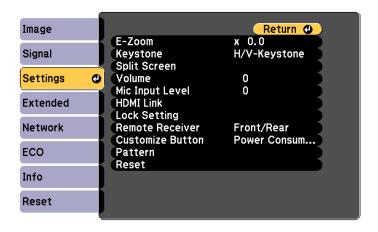
#### **Attention**

- 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.

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



- Select Lock Setting > Control Panel Lock, and press [Enter].
- 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.
- Select **Yes** and press [Enter].
  The **Control Panel Lock** setting takes effect.

#### **→** Related Links

• "Unlocking the Projector's Buttons" p.84

### **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.130

## **Installing a Security Cable**

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

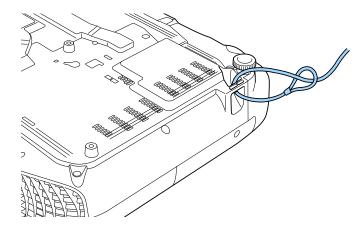
• Use the security slot on the projector to attach a Kensington Microsaver Security system.



For more details on the Microsaver Security System, visit the Kensington Web site.

https://www.kensington.com/

• Use the security cable attachment point on the projector to attach a wire cable and secure it to a room fixture or heavy furniture.





You can use a commercially available theft-prevention wire lock. See the documentation supplied with the wire lock for locking instructions.

## **Using the Projector on a Network**

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

#### **→** Related Links

- "Wired Network Projection" p.87
- "Wireless Network Projection" p.90
- "Wireless Network Projection from a Mobile Device (Miracast)" p.99
- "Secure HTTP" p.103

This feature is available only for models that support wired LAN projection.

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

After connecting and setting up the projector as described here, download and install Epson iProjection (Windows/Mac) from the following Web site.

#### epson.sn/

Epson iProjection software sets up your computer for network projection. It also allows you to hold interactive meetings by projecting user's computer screens over a network. See the *Epson iProjection Operation Guide (Windows/Mac)* for instructions.



- If the **Web Control Password** has not been set, a screen prompting you to set a password is displayed when you save the network settings. Follow the on-screen instructions to set the password.
- When using the Moderator function in Epson iProjection to display the projector screen on a computer, you cannot capture the screen on that computer.

#### **₩** Related Links

- "Connecting to a Wired Network" p.87
- "Selecting Wired Network Settings" p.87

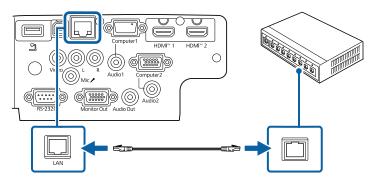
## **Connecting to a Wired Network**

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

1

Connect one end of the network cable to your network hub, switch, or router.

**2** Connect the other end of the cable to the projector's LAN port.



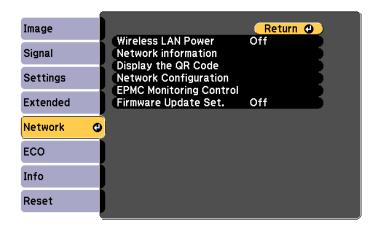
### **Selecting Wired Network Settings**

Before you can project from computers on your network, you need to select network settings on the projector.

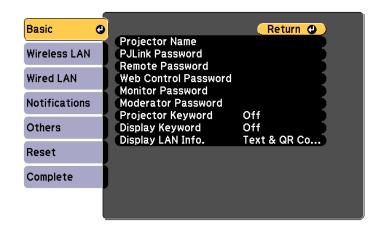


Make sure you already connected the projector to your wired network using the LAN port.

Press the [Menu] button, select the **Network** menu, and press [Enter].



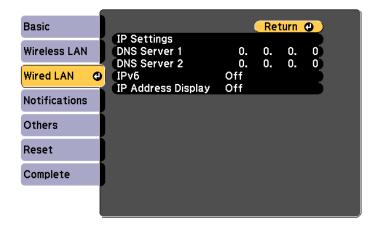
- 2 Select Network Configuration and press [Enter].
- **3** Select the **Basic** menu and press [Enter].



- 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.
  - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control.
  - **Remote Password** lets you enter a password up to 32 alphanumeric characters long for accessing the projector using the Basic Control. (The user name is EPSONREMOTE. No password is set by default.)
  - Web Control Password lets you enter a password up to 32 alphanumeric characters long for accessing the projector over the Web. (The user name is EPSONWEB. No password is set by default.)
  - Monitor Password lets you enter a password up to 16 alphanumeric characters long when using Epson Projector Management Ver.5.30 or earlier, or when monitoring the projector in combination with a switcher or controller. (No password is set by default.)
  - Moderator Password lets you enter a four-digit number password for accessing the projector as a moderator using 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 Epson iProjection to access the projector and share the current screen.
  - **Display Keyword** lets you select whether to display a projector keyword on the projected image when accessing the projector using Epson iProjection.
  - **Display LAN Info.** lets you set the display format for the projector's network information.



Use the displayed keyboard to enter numbers and characters. Press the arrow buttons on the remote control to highlight characters and press [Enter] to select them. Select the **Wired LAN** menu and press [Enter].



- **6** 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.



To highlight the numbers you want from the displayed keyboard, press the arrow buttons on the remote control. To select a highlighted number, press [Enter].

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

When you finish selecting settings, select **Complete** and follow the onscreen instructions to save your settings and exit the menus.



If no **Web Control Password** has been set, a screen prompting you to set a password is displayed before you can save the settings. Follow the on-screen instructions to set the password.

Press the [Source Search] button on the control panel or remote control until you see the LAN standby screen.

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



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

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

When you have finished making the projector's network settings, download and install the necessary network software. Use the following software and documentation to set up and control wireless projection.

- Epson iProjection (Windows/Mac) software allows you to hold interactive meetings by projecting the computer screens of users over a network. See the *Epson iProjection Operation Guide (Windows/Mac)* for instructions.
- Epson iProjection (iOS/Android) app allows you to project from iOS or Android devices.

You can download Epson iProjection from the App Store or Google Play. Any fees incurred when communicating with the App Store or Google Play are the responsibility of the customer.

• Epson iProjection (Chromebook) app allows you to project from Chromebook devices.

You can download Epson iProjection from the Chrome Web Store. Any fees incurred when communicating with the Chrome Web Store are the responsibility of the customer.



- If the **Web Control Password** has not been set, a screen prompting you to set a password is displayed when you save the network settings. Follow the on-screen instructions to set the password.
- When using the Moderator function in Epson iProjection to display the projector screen on a computer, you cannot capture the screen on that computer.

#### **₩** Related Links

- "Safety Instructions for Built-in Wireless LAN Module" p.90
- "Connection Methods for Wireless Network Projection" p.90
- "Selecting Wireless Network Settings Manually" p.91
- "Selecting Wireless Network Settings in Windows" p.93
- "Selecting Wireless Network Settings in Mac" p.94

- "Setting Up Wireless Network Security when Simple AP Mode is Set to On" p.94
- "Setting Up Wireless Network Security when Simple AP Mode is Set to Off" p.94
- "Using a QR Code to Connect a Mobile Device" p.97
- "Using a USB Key to Connect a Windows Computer" p.98

## **Safety Instructions for Built-in Wireless LAN Module**

This projector contains built-in wireless LAN modules. Be sure to follow these important guidelines when using a wireless LAN connection.



### **Marning**

- Do not use the device near medical equipment such as pace makers. Furthermore, when using the device, make sure there is no medical equipment such as pace makers, in the surrounding area. Electromagnetic interference may cause medical equipment to malfunction.
- Electromagnetic interference may cause automatically controlled equipment to malfunction which could cause an accident. Do not use the device near automatically controlled equipment such as automatic doors or fire alarms.



### Caution

Make sure you keep a distance of at least 20 cm between the device and your body. Otherwise, it could cause you to feel unwell.

## **Connection Methods for Wireless Network Projection**

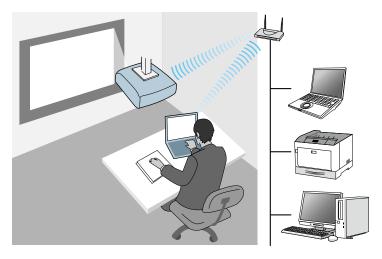
Choose a connection method for connecting your computer and projector over a network based on your network environment.

• Turning on simple AP mode lets you directly connect to smartphones, tablets, or computers using your projector as an access point. When you use this

method, connect the projector using **Quick Connection Mode** of the Epson iProjection software or use Miracast.



• Turning off simple AP mode lets you connect to smartphones, tablets, or computers over a wireless network access point. When you use this method, connect the projector using **Advanced Connection Mode** of the Epson iProjection software.





When monitoring or controlling the projector using wireless LAN, turn off simple AP mode.

### **Selecting Wireless Network Settings Manually**

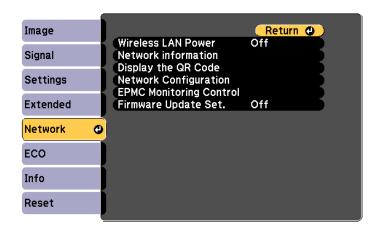
Before you can project from your wireless network, you need to select network settings for the projector.



You can use the wireless LAN even when the projector is off. To do so, follow the steps below to configure the wireless LAN, and then set A/V **Output** to **Always On** in A/V **Settings** from the **Extended** menu.

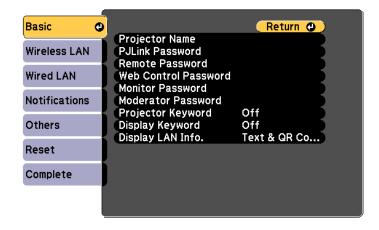
Extended > A/V Settings > A/V Output

Press the [Menu] button, select the **Network** menu, and press [Enter].



- 2 Select On as the Wireless LAN Power setting.
- Select Network Configuration and press [Enter].

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



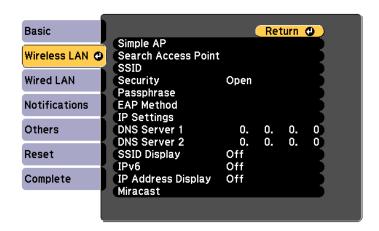
- **5** Select the basic options as necessary.
  - **Projector Name** lets you enter a name up to 16 alphanumeric characters long to identify the projector over the network.
  - **PJLink Password** lets you enter a password up to 32 alphanumeric characters long for using the PJLink protocol for projector control. (EB-994F)
  - **Remote Password** lets you enter a password up to 32 alphanumeric characters long for accessing the projector using the Basic Control. (The user name is EPSONREMOTE. No password is set by default.)
  - Web Control Password lets you enter a password up to 32 alphanumeric characters long for accessing the projector over the Web. (The user name is EPSONWEB. No password is set by default.)
  - Monitor Password lets you enter a password up to 16 alphanumeric characters long when using Epson Projector Management Ver.5.30 or earlier, or when monitoring the projector in combination with a switcher or controller. (No password is set by default.)

- **Moderator Password** lets you enter a four-digit number password for accessing the projector as a moderator using 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 Epson iProjection to access the projector and share the current screen.
- **Display Keyword** lets you select whether to display a projector keyword on the projected image when accessing the projector using Epson iProjection.
- **Display LAN Info.** lets you set the display format for the projector's network information.



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

6 Select the Wireless LAN menu and press [Enter]



- **7** Select the connection method.
  - To connect in simple AP mode, set the **Simple AP** setting to **On** and go to step 11.



You must set the **Passphrase** when using simple AP mode for the first time. Follow the on-screen instructions to set the passphrase.

- If you are not using simple AP mode and want to connect using a wireless LAN access point, set the **Simple AP** setting to **Off** and go to the next step.
- 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.

- 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.
- 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.

When you finish selecting settings, select **Complete** and follow the onscreen instructions to save your settings and exit the menus.



If no **Web Control Password** has been set, a screen prompting you to set a password is displayed before you can save the settings. Follow the on-screen instructions to set the password.

Press the [Wireless] button on the remote control until you see the LAN standby screen.

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.

- To access your wireless utility software, click the network icon on the Windows taskbar.
- Select the network name (SSID) of the network the projector is connecting to.
- Click Connect.

### **Selecting Wireless Network Settings in Mac**

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

- Click the Wi-Fi icon on the menu bar at the top of the screen.
- Make sure Wi-Fi is turned on and select the network name (SSID) of the network the projector is connecting to.

# Setting Up Wireless Network Security when Simple AP Mode is Set to On

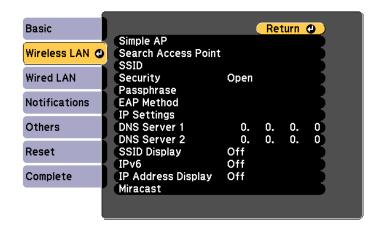
You can set up security for your projector to use on a wireless network with simple AP mode. You can use WPA2-PSK security.



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

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

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



- 4 Select **Simple AP** and press [Enter].
- Select **Passphrase**, press [Enter], and enter a passphrase from 8 to 63 characters long. To enter more than 32 characters, use your Web browser.
- When you have finished making settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.

# Setting Up Wireless Network Security when Simple AP Mode is Set to Off

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:

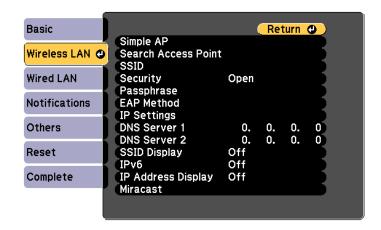
- WPA3-PSK security
- WPA2/WPA3-PSK security

- WPA3-EAP security
- WPA2/WPA3-EAP security

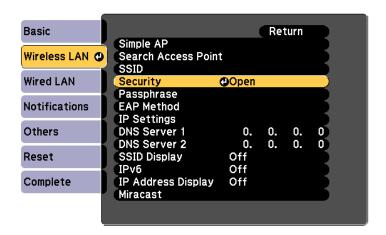


Contact your network administrator for guidance on entering the correct information.

- When setting WPA3-EAP or WPA2/WPA3-PSK security, store the certificate in a format that is compatible with the projector in the root directory of the USB storage device.
- Press the [Menu] button, select the **Network** menu, and press [Enter].
- **3** Select **Network Configuration** and press [Enter].
- A Select the Wireless LAN menu and press [Enter].

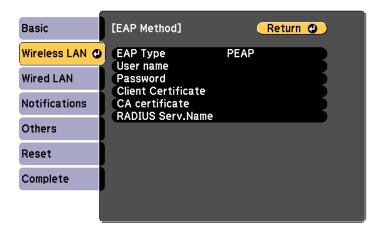


Select the **Security** setting and press [Enter].



- **6** Select the security settings to match your network settings.
- **7** Do one of the following according to the security you selected.
  - WPA3-PSK or WPA2/WPA3-PSK: Select Passphrase, press [Enter], and enter a passphrase from 8 to 63 characters long. To enter more than 32 characters, use your Web browser. Then go to step 16.
  - WPA3-EAP or WPA2/WPA3-EAP: Select EAP Method and press [Enter].

Select the protocol for authentication as the EAP Type setting.



- To import your certificate, select the certificate type and press [Enter].
  - Client Certificate for the EAP-TLS type
  - **CA certificate** for all EAP types



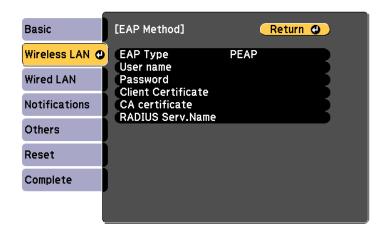
You can also register the digital certificates from your Web browser. However, be sure to register just once or the certificate may not install correctly.

- 10 Select Register and press [Enter].
- Follow the on-screen instructions to connect a USB storage device to the projector's USB-A port.
- Press [Enter] to display the certificate list.

- Select the certificate to import using the displayed list.

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

  The certificate is imported and a completion message appears.
- **15** Select your EAP settings as necessary.
  - **User name** lets you enter a user name using up to 64 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 64 alphanumeric characters for authentication when using the **PEAP** type. To enter more than 32 characters, use your Web browser.
  - RADIUS Serv.Name lets you enter the server name to be verified.



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.97
- "Network Menu Wireless LAN Menu" p.138

### **Supported Client and CA Certificates**

You can register these types of digital certificates.

#### **Client Certificate (EAP-TLS)**

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
Password *	Up to 64 alphanumeric characters; required

#### **CA Certificate (PEAP/EAP-TLS)**

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

<sup>\*</sup> You can set a password using up to 64 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 (iOS/Android) app.



- Make sure you have installed the latest version of Epson iProjection on your device.
- You can download Epson iProjection for free from the App Store or Google Play. Any fees incurred when communicating with the App Store or Google Play are the responsibility of the customer.
- When using Epson iProjection in Quick connection mode, we recommend making security settings.
- Press the [Wireless] 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 [Esc].
- When the QR code is hidden, press [Enter] to display the code.
- Start Epson iProjection on your mobile device.

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.

### **Using a USB Key to Connect a Windows Computer**

You can set up your USB flash drive as a USB key to quickly connect the projector to a wireless LAN supported Windows computer. After creating the USB key, you can quickly project images from the network projector.

1 Set up the USB key using Epson iProjection (Windows) software.



See the *Epson iProjection Operation Guide* (*Windows/Mac*) for instructions.

- Turn on the projector.
- Press the [Wireless] button on the remote control until you see the LAN standby screen.

The LAN standby screen is displayed. Verify that an SSID and IP address are displayed.

- Connect the USB key to the projector's USB-A port.
  You see a projected message that the network information update is complete.
- **5** Remove the USB key.
- **6** Connect the USB key to a USB port on your computer.
- **7** Follow the on-screen instructions to install the necessary application.



- If the Windows Firewall message is displayed, click Yes to disable the firewall.
- You need administrator authority to install the software.
- If it is not installed automatically, double-click **MPPLaunch.exe** in the USB key.

After a few minutes, your computer image is displayed by the projector.

When you have finished projecting wirelessly, select the **Safely Remove Hardware** option in the Windows taskbar, and then remove the USB key from your computer.



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

You can send image to your projector from mobile devices such as laptops, smartphones, and tablets using Miracast technology.

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 Miracast 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  $1920 \times 1080$  and a frame rate above 30 fps.
- You cannot play 3D video.
- The projector cannot play copyright-protected content using a Miracast connection.
- Do not change the projector's Miracast settings during Miracast projection.
   Doing so may cause the projector to disconnect and it may take a while to re-connect.
  - **☞** Network > Network Configuration > Wireless LAN > Miracast
- Do not turn off the projector directly by the breaker during Miracast 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.
- If the **Web Control Password** has not been set, a screen prompting you to set a password is displayed when you save the network settings. Follow the on-screen instructions to set the password.

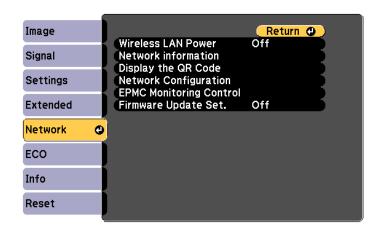
#### **▶** Related Links

- "Selecting Miracast Settings" p.99
- "Connecting Using Miracast" p.100

### **Selecting Miracast Settings**

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

Press the [Menu] button, select the **Network** menu, and press [Enter].



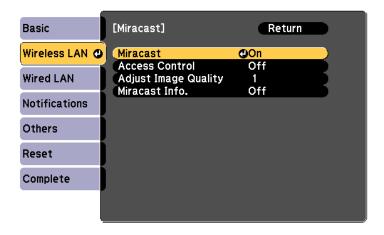
- 2 Select **Network Configuration** and press [Enter].
- **3** Select **Wireless LAN** and press [Enter].
- Select **Simple AP** and press [Enter].
- Select **On** as the **Simple AP** setting.



If no **Passphrase** has been set, a screen prompting to set the **Passphrase** appears. Follow the on-screen instructions to set the **Passphrase**.

6 Go back to the Wireless LAN screen, select Miracast, and press [Enter].

7 Select **On** as the **Miracast** setting.



- Change the following settings as needed.
  - When set to **On**, **Access Control** lets you display a screen asking if you want to allow projection when connected using Miracast. Check the device name and select whether or not to allow projection.
  - Adjust Image Quality lets you adjust the Miracast speed/quality. Select a small number to improve the quality and select large number to increase the speed.
  - **Miracast Info.** lets you select whether or not to display Miracast information.
- When you have finished selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.



If no **Web Control Password** has been set, a screen prompting you to set a password is displayed before you can save the settings. Follow the on-screen instructions to set the password.

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

### **Connecting Using Miracast**

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 Miracast.

- Select **Miracast** settings on your projector as necessary.
- Press the [Wireless] button on the remote control to switch to the Miracast source.

You see the Miracast standby screen.

On your mobile device, use your Miracast function to search for the projector.

You see a list of available devices.

Select the projector's Display Name from the list.

If you see the screen asking if you allow the projection using Miracast on the projector, check the device name displayed and select if you allow the projection or not.

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.
- To add a device to the block list, select Add to Block List on the Miracast projection confirmation screen and then select No. This registers the device name to the block list.
- When a device registered to the block list attempts to connect using Miracast, the standby screen remains displayed, and the images are not projected. You can remove the block list using any of the following methods.
  - Select **Delete Block List** on the home screen.
  - Turn off the projector.
  - Update the network settings.
  - Press the [Enter] button on the standby screen, and then select **Yes** on the screen displayed.

#### **→** Related Links

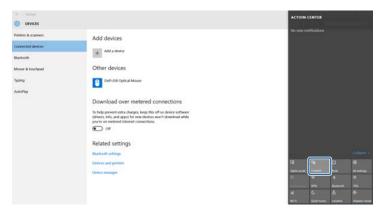
- "Connecting Using Miracast in Windows 10" p.101
- "Connecting Using Miracast in Windows 11" p.102

### **Connecting Using Miracast in Windows 10**

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

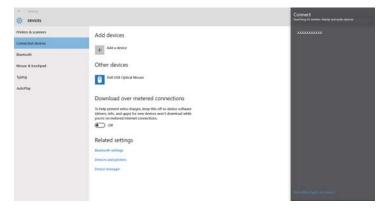
Select **Miracast** settings on your projector as necessary.

- Press the [Wireless] button on the remote control to switch to the Miracast source.
  - You see the Miracast 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.



If you see the screen asking if you allow the projection using Miracast on the projector, check the device name displayed and select if you allow the projection or not.

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 Miracast in Windows 11**

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

- 1 Select the **Miracast** settings on your projector as necessary.
- Press the [Wireless] button on the remote control to switch to the Miracast source.

You see the network information screen.

- **3** Click the speaker icon on your computer's taskbar.
- Click Cast.

You see a list of available devices.



If **Cast** is not displayed or another message is displayed, see the manual supplied with the computer.

Select the projector's Projector Name from the list.

If you see the screen asking if you allow the projection using Miracast on the projector, check the device name displayed and select if you allow the projection or not.

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.

Secure HTTP 103

You can use the HTTPS protocol to increase security between the projector and a Web browser communicating with it. 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.103

## **Importing a Web Server Certificate Using the Menus**

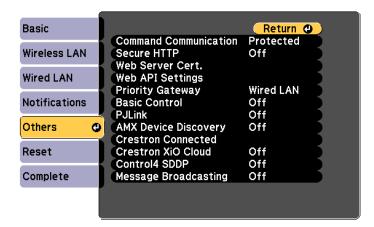
You can create your Web server certificate, and import it using the projector menus and a USB flash drive.



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.

- Make sure your digital certificate file is compatible with projector registration and directly placed on the USB storage device.
- Press the [Menu] button, select the **Network** menu, and press [Enter].
- **3** Select **Network Configuration** and press [Enter].

A Select the **Others** menu and press [Enter].



- **5** Set the **Secure HTTP** setting to **On**.
- 6 Select Web Server Cert. and press [Enter].
- **7** Select **Register** and press [Enter].
- Follow the on-screen instructions to connect a USB storage device to the projector's USB-A port.
- **9** Press [Enter] to display the certificate list.
- Select the certificate to import using the displayed list.

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

  The certificate is imported and a completion message appears.

Secure HTTP 104

### **→** Related Links

• "Supported Web Server Certificates" p.104

### **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
Organization	Optional
Password *	Up to 64 alphanumeric characters; required

<sup>\*</sup> You can set a password using up to 64 alphanumeric characters. However, you need to use your Web browser to enter more than 32 characters.

## **Monitoring and Controlling the Projector**

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

#### **→** Related Links

- "Epson Projector Management Connected / Epson Projector Management" p.106
- "Controlling a Networked Projector Using a Web Browser" p.107
- "Registering Digital Certificates from a Web Browser" p.111
- "Setting Up Projector Network E-Mail Alerts" p.112
- "Setting Up Monitoring Using SNMP" p.114
- "Using ESC/VP21 Commands" p.115
- "PJLink Support" p.117
- "Crestron Connected Support" p.118
- "Setting Projector Event Schedules" p.120
- "Web API" p.123

Epson Projector Management Connected and Epson Projector Management is software that lets you monitor and control the status of projectors connected to your network.

Epson Projector Management Connected manages projector information on a cloud server, enabling remote monitoring and control from any device.

Epson Projector Management is software for Windows only that lets you monitor and control projectors on the same network from a computer.

Choose the appropriate option based on your usage environment and needs. For more details, visit the following website.

https://www.projection-service.epson.com/epm-connected/



- The authentication method when registering projectors varies depending on the version of the Epson Projector Management software you are using.
  - Ver.5.30 or earlier: Monitor Password
  - Ver.5.40 or later: Web Control Password

For the best results, we recommend that you use the latest version of the Epson Projector Management.

- Network > Network Configuration > Others
- To monitor and control the projector using Epson Projector
  Management Connected or Epson Projector Management, set A/V
  Output to Always On from A/V Settings in the Extended menu.

  If A/V Output is set to While Projecting, you cannot monitor and control the projector using Epson Projector Management Connected or

Epson Projector Management when the projector is in standby mode.

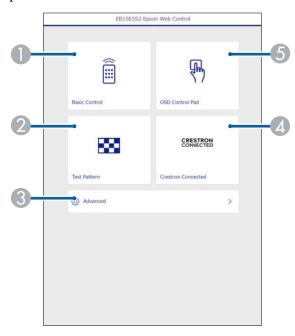
Once you have connected your projector to your network, you can select projector settings and control projection using a compatible Web browser. This lets you access the projector remotely.



- Make sure the computer and projector are connected to the network.
   When projecting images using a wireless LAN, connect using a wireless LAN access point.
- You can use the following Web browsers.
  - Microsoft Edge (Windows)
  - Safari (Mac, iOS)
  - Chrome (Android)
- When connected to a network by wireless LAN and **A/V Output** is set to **Always On** from **A/V Settings** in the **Extended** menu, you can use a Web browser to select settings and control projection even if the projector is in standby mode (when the power is off).
  - Extended > A/V Settings > A/V Output
- While using the Web browser, do not connect using a proxy server. You cannot select all of the projector menu settings or control all projector functions using a Web browser.
- When connected to a network by wired LAN, if you set **Standby Mode** to **Communication On**, you can use a Web browser to select settings and control projection even if the projector is in standby mode (when the power is off). (EB-994F)
  - **ECO** > Standby Mode
- Make sure the projector is turned on.
- 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.

Go to the Epson Web Control screen by entering the projector's IP address into the browser's address box. (Wired only) When entering an IPv6 address, wrap the address with [ and ].

You see the Epson Web Control screen.



- Controls the projector remotely.
- ② Displays a test pattern.
- Sets detailed projector settings.
- Opens the Crestron Connected and Crestron XiO Cloud operation windows. (EB-994F)
- **6** Operates the projector's menu settings with your finger or mouse.



Select the option corresponding to the projector function you want to control.



You may need to log in to access some of the options on the **Epson Web Control** screen. Set the following passwords first.

 To access the Basic Control option, you need to log in using EPSONREMOTE as the user name and your Remote Password. (No password is set by default.)

Set **Basic Control** to **On** in the projector's **Network** menu, and then set the password.

- **▶** Network > Network Configuration > Others > Basic Control
- To access other options and save settings, you need to log in using **EPSONWEB** as the user name and your **Web Control Password**. (No password is set by default.)

Set the password in the projector's **Network** menu.

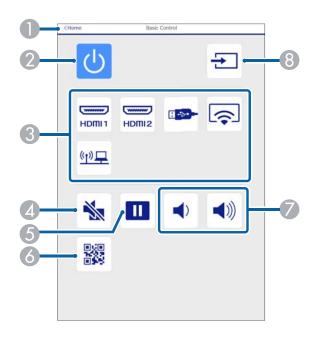
Network > Network Configuration > Basic > Web Control Password

#### **▶** Related Links

- "Web Control Options" p.108
- "Projector Setup Settings ECO Menu" p.147
- "Network Menu Basic Menu" p.137

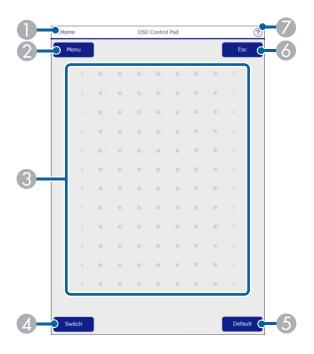
### **Web Control Options**

#### **Basic Control**



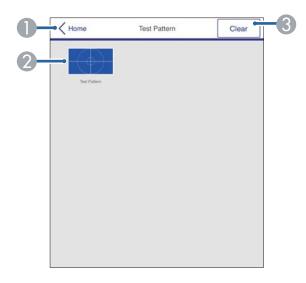
- Returns to the Epson Web Control screen.
- 2 Turns the projector on or off.
- **Selects the input source.**
- Turns the video and audio on or off temporarily.
- 6 Pauses or resumes images.
- Oisplays the QR code.
- Adjusts the speaker volume.
- Searches for sources.

#### **OSD Control Pad**



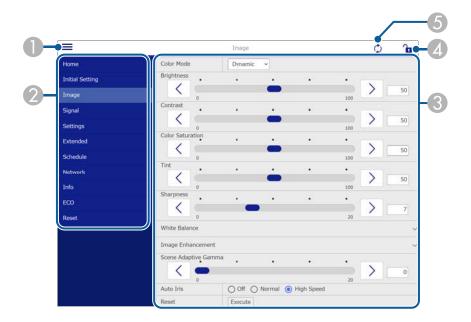
- Returns to the Epson Web Control screen.
- ② Displays the projector's setting menus.
- 3 Use your finger or mouse to navigate the menus.
- $\bigcirc$  Switches the operation method to button operation.
- **(5)** Resets the selected setting to its default value.
- **6** Returns to the previous menu.
- Displays help topics.

#### **Test Pattern**



- Returns to the Epson Web Control screen.
- ② Displays available test patterns; select to project a test pattern.
- Turns off test pattern display.

#### Advanced



- Opens the menus.
- ② Displays the menu name you selected.
- Specifies the projector settings.
- Lock/unlock the projector settings.
- **6** Updates the projector settings.



You cannot change the following settings using Epson Web Control.

- HDMI Link
- Customize Button
- User's Logo
- HDMI EQ Setting
- Language
- Reset Lamp Hours

## **Registering Digital Certificates from a Web Browser**

You can register the digital certificates on the projector to provide security for your presentation files.



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
- Make sure your digital certificate file is compatible with projector registration.
- **2** Make sure the projector is turned on.
- Start your Web browser on a computer or device connected to the network.
- 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.

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**. No password is set by default.)
- You can change the password in **Web Control Password** in the projector's **Network** menu.
  - Network > Network Configuration > Basic > Web Control Password
- 6 Under Network, select Certificate.
- **7** Select the certificate file you want to register.
- Enter the password in the **Password** box, and then click **Set**.
- When you finish registering the certificate, click **Apply** to finalize your changes and complete the registration.

## **Setting Up Projector Network E-Mail Alerts**

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

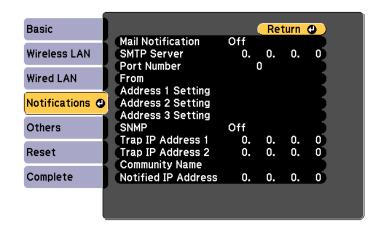
When connected to a network by wireless LAN and A/V Output is set to Always On from A/V Settings in the Extended menu, you can use a Web browser to select settings and control projection even if the projector is in standby mode (when the power is off).

#### Extended > A/V Settings > A/V Output

When connected to a network by wired LAN, if you set **Standby Mode** to **Communication On**, you can receive the e-mail alerts even if the projector is in standby mode (when the power is off). (EB-994F)

#### **ECO** > Standby Mode

- Press the [Menu] button, select the **Network** menu, and press [Enter].
- 2 Select Network Configuration and press [Enter].
- Select the **Notifications** menu and press [Enter].



**5** Enter the IP address for the **SMTP Server** option.



Do not use "127.x.x.x" (where x is a number from 0 to 255) for the **SMTP Server**.

- Select a number for the SMTP server **Port Number**, from 1 to 65535 (default is 25).
- **7** Enter the e-mail address to be indicated as the sender in **From**.
- Choose an address field, enter the e-mail address, and select the alerts you want to receive. Repeat for up to three addresses.



Your e-mail address can be up to 64 alphanumeric characters long. To enter more than 32 characters, use your Web browser.

When you finish selecting settings, select **Complete** and follow the onscreen instructions to save your settings and exit the menus.



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

#### **→** Related Links

- "Network Projector E-mail Alert Messages" p.113
- "Projector Setup Settings Extended Menu" p.133

**4.** Set the **Mail Notification** setting to **On**.

### **Network Projector E-mail Alert Messages**

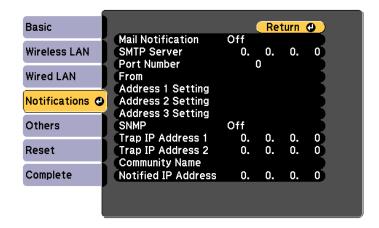
When a problem occurs with a projector on the network, and you selected to receive e-mail alerts, you receive an e-mail containing the following information:

- The email address set in **From** as the mail sender
- **Epson Projector** in the subject line
- The name of the projector experiencing a problem
- The IP address of the affected projector
- Detailed information about the problem

## **Setting Up Monitoring Using SNMP**

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

- Press the [Menu] button, select the **Network** menu, and press [Enter].
- 2 Select Network Configuration and press [Enter].
- **3** Select the **Notifications** menu and press [Enter].



- 2. Set the **SNMP** setting to **On**.
- Enter the SNMP **Community Name** up to 32 alphanumeric characters long.

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



Do not use these addresses: 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255). This projector supports SNMP agent version 1 (SNMPv1).

When you finish selecting settings, select **Complete** and follow the onscreen instructions to save your settings and exit the menus.

## **Using ESC/VP21 Commands**

You can control the projector from an external device using ESC/VP21. This feature is only available on the EB-994F.

#### **▶** Related Links

- "ESC/VP21 Command List" p.115
- "Cable Layouts" p.115

### **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	Computer1	SOURCE 10
	Computer2	SOURCE 20
	HDMI1	SOURCE 30
	HDMI2	SOURCE A0
	Video	SOURCE 41
	USB	SOURCE 52
	LAN	SOURCE 53
	Miracast	SOURCE 56

Item		Command
A/V Mute On/Off On		MUTE ON
	Off	MUTE OFF

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

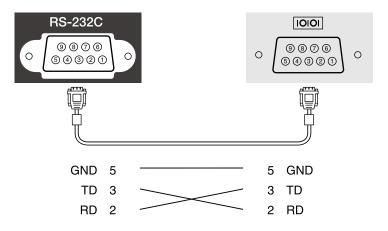
Contact Epson for more details.

### **Cable Layouts**

#### Serial connection

- Connector shape: D-Sub 9-pin (male)
- Projector input port name: RS-232C
- Cable type: Crossover (null modem) cable

In the following illustration, the projector side is shown on the left, and the computer side on the right:



# **Using ESC/VP21 Commands**

Signal name	Function
GND	Signal wire ground
TD	Transmit data
RD	Receive data

### **Communications protocol**

• Default baud rate setting: 9600 bps

• Data length: 8 bit

• Parity: None

• Stop-bit: 1 bit

• Flow control: None

# **PJLink Support**

This feature is only available on the EB-994F.

PJLink was established by the JBMIA (Japan Business Machine and Information System Industries Association) as a standard protocol for controlling network-compatible projector's as part of their efforts to standardize projector control protocols.

The projector complies with the PJLink Class2 standard established by the JBMIA.

The port number used for the PJLink search function is 4352 (UDP).

You need to make network settings before you can use PJLink.

It complies with all commands except for the following commands defined by PJLink Class2, and agreement was confirmed by the PJLink standard adaptability verification.

http://pjlink.jbmia.or.jp/english/

• Non-compatible commands

Function		PJLink command
Mute settings Image muting set		AVMT 11
	Audio muting set	AVMT 21

• Input ports and corresponding input source number

Input port name	Input source number
Computer1	11
Computer2	12
Video	21
HDMI1	32
HDMI2	33
USB	41
LAN	52
Miracast	57

- Manufacturer name displayed for "Manufacture name information query"
   EPSON
- Model name displayed for "Product name information query"
  - EPSON 994F

#### **▶** Related Links

• "Using the Projector on a Network" p.86

## **Crestron Connected Support**

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

This feature is only available on the EB-994F.



- You cannot use the Message Broadcasting feature in Epson Projector Management when you use Crestron Connected.
- When connected to a network by wired LAN, if you set **Standby Mode** to **Communication On**, you can control the projector even if the projector is in standby mode (when the power is off).
  - **ECO** > Standby Mode
- When connected to a network by wireless LAN and **A/V Output** is set to **Always On** from **A/V Settings** in the **Extended** menu, you can control the projector even if the projector is in standby mode (when the power is off).
  - Extended > A/V Settings > A/V Output

For additional information on Crestron Connected, visit the Crestron Web site.

#### https://www.crestron.com/

To monitor devices in the system, you can use Crestron RoomView Express or Crestron Fusion provided by Crestron. You can communicate with the help desk and send emergency messages. See the following Web site for details.

#### http://www.crestron.com/getroomview

To monitor or control your projector and other various devices over a network, you can use Crestron XiO Cloud. You can manage multiple devices from one location. See the following Web site for details.

#### https://www.crestron.com/Products/Featured-Solutions/XiO-Cloud

This manual describes how to perform operations on your computer using a Web browser.

#### **→** Related Links

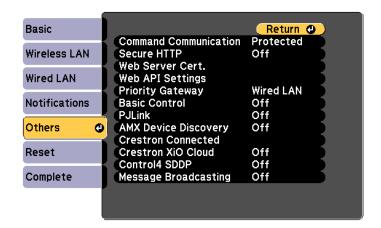
- "Setting Up Crestron Connected Support" p.118
- "Projector Setup Settings ECO Menu" p.147

• "Projector Setup Settings - Extended Menu" p.133

### **Setting Up Crestron Connected Support**

To set up your projector for monitoring and control using a Crestron Connected system, make sure your computer and projector are connected to the network. When projecting images using a wireless LAN, connect using a wireless LAN access point.

- Press the [Menu] button, select the **Network** menu, and press [Enter].
- 2 Select **Network Configuration** and press [Enter].
- **3** Select the **Others** menu and press [Enter].



## **Crestron Connected Support**

Set the **Crestron Connected** setting to **On** to allow the projector to be detected.



- If no password has been set, a screen prompting you to set a password is displayed before you can set **Crestron Connected** to **On**. Follow the on-screen instructions to set the password.
- To enable the Crestron XiO Cloud service, set **Crestron XiO** Cloud to **On**.
- When you have finished selecting settings, select **Complete** and follow the on-screen instructions to save your settings and exit the menus.
- Turn off the projector, and then turn it on again to enable the setting.
- Start your Web browser on a computer or device connected to the network.
- **8** Go to the Epson Web Control screen by entering the projector's IP address into the browser's address box.
- Select the **Crestron Connected** settings. See the Crestron Web site for details.

## **Setting Projector Event Schedules**

You can schedule up to 30 events to occur automatically on your projector, such as turning the projector on or off or switching the input source. The projector performs the selected events on the specified date and time in the schedule you set up.



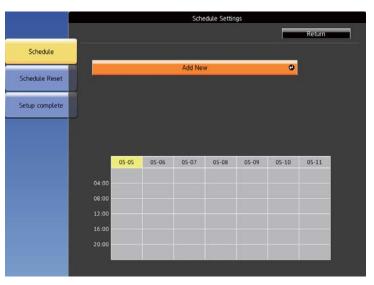
### Warning

Do not place flammable objects in front of the lens. If you schedule the projector to turn on automatically, flammable objects in front of the lens could catch on a fire.



- If you set a **Schedule Protection** password, turn off your **Schedule Protection** password first.
- Set the date and time in the **Date & Time** menu.
  - Extended > Operation > Date & Time
- Press the [Menu] button, select the **Extended** menu, and press [Enter].
- **3** Select **Schedule Settings** and press [Enter].
- 4 Select **Schedule** and press [Enter].

**5** Select **Add New** and press [Enter].

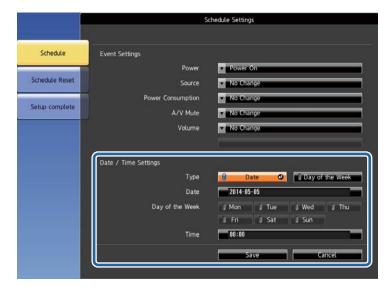


6 Select the event details you want to perform.



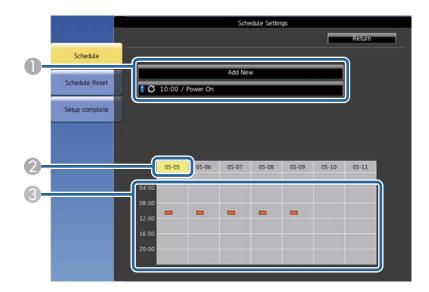
# **Setting Projector Event Schedules**

7 Select the date and time at which you want the event to occur.



Select **Save** and press [Enter].

The scheduled events are displayed on the screen with icons indicating the event status.



- : valid schedule
  - : regular schedule
  - : invalid schedule
- The date currently selected (highlighted in yellow)
- ③ : one time schedule
  - : regular schedule
  - standby schedule (turns communication on or off during standby)
  - : invalid schedule
- 9 To edit a scheduled event, select the schedule and press [Esc].
- **10** Select an option from the menu displayed.
  - On or Off lets you enable or disable the selected event.
  - Edit lets you change the event details or date and time.

- Clear lets you remove the scheduled event from a list.
- Select **Complete**, then select **Yes**.

To delete all scheduled events, select **Schedule Reset**.

#### **→** Related Links

- "Setting the Date and Time" p.39
- "Setting a Password" p.81

See the Web API Specifications for Projectors for details.



- You can authenticate Web API communications using API authentication (Digest authentication).
- The user name for API authentication is **EPSONWEB**; use the password that is set for **Web Control Password**.
  - Network > Network Configuration > Basic > Web Control Password

#### **→** Related Links

• "Enabling Web API" p.123

## **Enabling Web API**

You can enable Web API using the projector's menu.

- Press the [Menu] button, select the **Network** menu, and press [Enter].
- Select Network Configuration and press [Enter].
- **3** Select **Others** and press [Enter].
- A. Select Web API Settings.
- Set Web API to On.
- When you finish selecting settings, select **Complete** and follow the onscreen instructions to save your settings and exit the menus.

# **Adjusting the Menu Settings**

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

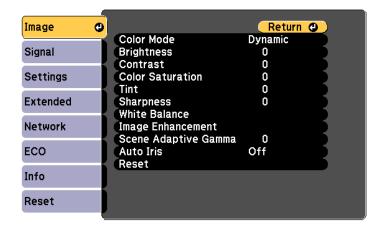
#### **→** Related Links

- "Using the Projector's Menus" p.125
- "Using the Displayed Keyboard" p.126
- "Image Quality Settings Image Menu" p.127
- "Input Signal Settings Signal Menu" p.129
- "Projector Feature Settings Settings Menu" p.130
- "Projector Setup Settings Extended Menu" p.133
- "Projector Network Settings Network Menu" p.136
- "Projector Setup Settings ECO Menu" p.147
- "Projector Information Display Info Menu" p.149
- "Projector Reset Options Reset Menu" p.152
- "Copying Menu Settings Between Projectors (Batch Setup)" p.153

# **Using the Projector's Menus**

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

Press the [Menu] button on the control panel or remote control. You see the menu screen displaying the **Image** menu settings.



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.

- To change settings in the displayed menu, press [Enter].
- Press the up or down arrow button to move through the settings.
- Change the settings using the buttons listed on the bottom of the menu screens.

- To return all the menu settings to their default values, select **Reset**.
- When you finish changing settings on a menu, press [Esc].
- Press [Menu] or [Esc] to exit the menus.

## **Using the Displayed Keyboard**

You can use the displayed keyboard to enter numbers and characters.

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.

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 displayed keyboard. Use your Web browser to enter the text.

#### **▶** Related Links

- "Available Text Using the Displayed Keyboard" p.126
- "Controlling a Networked Projector Using a Web Browser" p.107

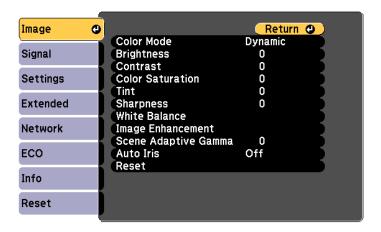
### **Available Text Using the Displayed Keyboard**

You can enter the following text when using the displayed keyboard.

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

# **Image Quality Settings - Image Menu**

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



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

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.

Setting	Options	Description
Sharpness	Varying levels available	Adjusts the sharpness or softness of image details.
White Balance		Adjusts the overall tint of the image.
	Color Temp.	Color Temp.: sets the color temperature according to the color mode you selected. Higher values tint the image blue and lower values tint the image red.
	Custom	<b>Custom</b> : adjusts the individual R (red), G (green), and B (blue) components of the offset and gain.
Image Enhancement		Adjusts the perceived resolution of the image:
	Noise Reduction	Noise Reduction: reduces flickering in analog images.
	Deinterlacing (For interlaced signal [480i/576i/	<b>Deinterlacing</b> : sets whether or not to convert interlaced-to-progressive signals for certain video image types.
	1080i] input)	Off: for fast-moving video images.      Video for montaridae images.
		<ul> <li>Video: for most video images.</li> <li>Film/Auto: for movies, computer graphics, and animation.</li> </ul>
Scene Adaptive Gamma	Various levels available	Adjusts the coloring according to the scene, and obtains a more vivid image. Select a large number to enhance contrast.
Auto Iris	Off Normal High Speed	Adjusts the projected luminance based on the image brightness.
Reset	_	Resets all adjustment values on the <b>Image</b> menu for the selected color mode to their default settings.



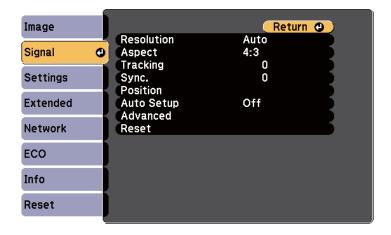
The **Brightness** setting does not affect lamp brightness. To change the lamp brightness mode, use the **Power Consumption** setting in the projector's **ECO** menu.

#### **→** Related Links

• "Available Color Modes" p.56

# **Input Signal Settings - Signal Menu**

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.



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 <b>Auto</b> 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.

Setting	Options	Description
Auto Setup*	On Off	Automatically optimizes computer image quality (when <b>On</b> ).
Advanced	Video Range	Sets the video range to match the setting of the device connected to the HDMI port.
	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 <b>Signal</b> menu to their default settings.

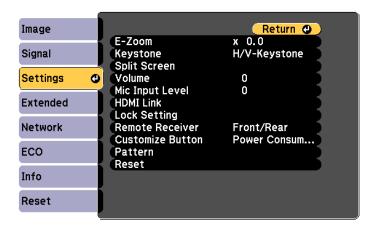
<sup>\*</sup> This setting is only available on the EB-994F.

#### **→** Related Links

• "Available Image Aspect Ratios" p.54

# **Projector Feature Settings - Settings Menu**

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



Setting	Options	Description
E-Zoom	Varying levels available	Adjusts the size of the projected image.
Keystone		Adjusts image shape to rectangular (horizontally and vertically).
	H/V-Keystone	<b>V-Keystone</b> : Select to manually correct vertical sides.
		<b>H-Keystone</b> : Select to manually correct horizontal sides.
		<b>Auto V-Keystone</b> : Turns automatic correction on or off.
		H-Keystone Adjuster: Turns H-Keystone Adjuster on or off.
	Quick Corner	Quick Corner: Select to correct image shape and alignment using an on-screen display.

Setting	Options	Description
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).  This setting is only available on the EB-994F.
Volume	Varying levels available	Adjusts the volume of projector's speaker system.  You can also adjust the volume of external speakers.  Setting values are saved for each source.
Mic Input Level	Varying levels available	Adjusts the input level from a microphone.  When <b>Mic Input Level</b> is turned up, the volume of the other connected device is turned down; when it is turned down, the volume of the other connected device is turned up.  (EB-994F)
HDMI Link	Device Connections	Lists the devices connected to the HDMI ports.  Setting is only displayed when HDMI Link is set to On.
	HDMI Link	Set to <b>On</b> to enable the HDMI Link features.

# **Projector Feature Settings - Settings Menu**

Setting	Options	Description
	Audio Out Device	Sets the audio output destination.
		Projector: Audio is output from the projector's speakers or external speakers connected to the projector's Audio Out port.
		AV System: Audio is output from speakers connected to an AV amplifier connected using an HDMI cable.
	Power On Link	Controls what happens when you turn on the projector or connected device.
		Bidirectional: automatically turns on the connected device when you turn on the projector, and vice versa.
		Device -> PJ: automatically turns on the projector when you turn on the connected device.
		PJ -> Device: automatically turns on the connected device when you turn on the projector.
	Power Off Link	Controls whether connected devices are turned off when you turn off the projector.
Lock Setting	Control Panel Lock	Controls projector button locking to secure the projector:
		Full Lock: locks all buttons.
		<b>Partial Lock</b> : locks all buttons except the power button.
		Off: no buttons locked.
Remote Receiver	Front/Rear Front Rear Off	Limits reception of remote control signals by the selected receiver; <b>Off</b> turns off all receivers.

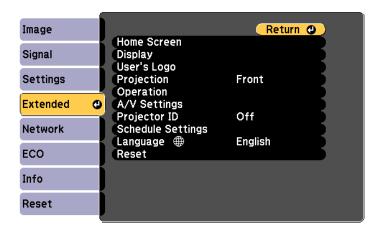
Setting	Options	Description
Customize Button	Power Consumption Info Test Pattern Mic Input Level Pattern Display Display the QR Code Split Screen	Assigns a menu option to the [Customize] button on the remote control for one-touch access.  Mic Input Level and Split Screen are only available on the EB-994F.
Pattern		Attention  If a pattern is displayed for a long time, a residual image may be visible in projected images.
	Pattern Display	Pattern Display: lets you display the selected pattern type on the screen to aid in presentation.
	Pattern Type	Pattern Type: select from Patterns 1 to 4 or User Pattern. Patterns 1 to 4 display patterns pre-registered in the projector, such as ruled lines or grid patterns.
	User Pattern	<b>User Pattern</b> : captures a projected screen and saves it as a pattern for display.
	Test Pattern	<b>Test Pattern</b> : displays a test pattern to assist in focusing and zooming the image and correcting image shape (press the [Esc] button to cancel pattern display).

# **Projector Feature Settings - Settings Menu**

Setting	Options	Description
Reset	_	Resets all adjustment values on the <b>Settings</b> menu to their default settings, except for the following:
		• E-Zoom
		HDMI Link (except for On and Off settings in HDMI Link)
		Customize Button

# **Projector Setup Settings - Extended Menu**

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	<b>Display Background</b> : sets the screen color or logo to display when no signal is received.
	Startup Screen	<b>Startup Screen</b> : set to <b>On</b> 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	<b>Direct Power On</b> : lets you turn on the projector by plugging it in without pressing the power button.
	High Altitude Mode	<b>High Altitude Mode</b> : 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.

# **Projector Setup Settings - Extended Menu**

Setting	Options	Description
	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.
		The following image sources are available for this feature. Computer1 is only available on the EB-994F.
		• HDMI1
		Computer1
	Power On Trigger	Sets the way the projector turns on when <b>Auto Power On</b> is set to <b>HDMI1</b> .
		Plug-in Detection: Automatically turns on the projector when it detects that a connected device has been turned on.
		<b>Signal Detection</b> : Automatically turns on the projector when it detects an HDMI video signal.
		When set to <b>Signal Detection</b> , the standby power increases. Please consider the environment before making any changes.
	USB Power	Set to <b>Always On</b> to continue supplying power to the streaming media player when the projector is not projecting images.
		When set to <b>Always On</b> , the standby power increases.

Setting	Options	Description
	HDMI EQ Setting	HDMI EQ Setting: Adjust the HDMI input signal level depending on the devices connected to the HDMI port. If there is a lot of interference in the image, or if a problem such as no image being projected occurs, change the setting. If no images are displayed using a thumb-sized media streaming device, select 1.
	Advanced	<b>Log Save Destination</b> : sets the location in which to save error and operation log files.
		Batch Setup Range: select All to copy all of the projector menu settings using the batch setup feature. Select Limited, if you do not want to copy the following settings:
		Password Protection settings
		Network menu settings
	Date & Time	<b>Date &amp; Time</b> : 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:
	A/V Output	A/V Output: set to Always On to output audio and images to external devices when the projector is in standby mode.

# **Projector Setup Settings - Extended Menu**

Setting	Options	Description
	Audio Settings (Available only for EB-994F)	Audio Output: selects the audio input port when projecting images from anything except for HDMI ports.  HDMI1 Audio Output/HDMI2 Audio Output: selects the audio input port when projecting images from HDMI ports.
Projector ID	Off 1 through 9	Assigns an ID for the projector when you use multiple projectors.
Schedule Settings	To Schedule Settings menu	Schedules projector events to occur automatically at selected dates and times.
Language	Various languages available	Select the language for projector menu and message displays.
Reset	_	Resets all adjustment values on the <b>Extended</b> menu to their default settings, except for the following:
		User's Logo
		• Projection
		High Altitude Mode
		Auto Source Search
		USB Power
		HDMI EQ Setting
		Date & Time
		A/V Output
		Projector ID
		Schedule Settings
		Language



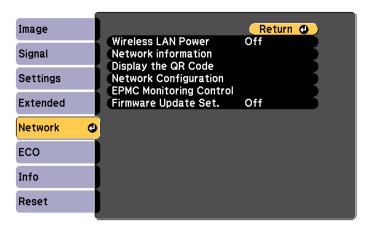
When you set **User's Logo Protection** to **On** in the **Password Protection** screen, you cannot change settings related to user's logo display (**Display Background**, **Startup Screen**, **A/V Mute** in the **Display** setting). Set **User's Logo Protection** to **Off** first.

#### **→** Related Links

• "Selecting Password Security Types" p.82

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.





If no **Web Control Password** has been set, a screen prompting you to set a password is displayed before you can save network settings. Follow the on-screen instructions to set the password.

Setting	Options	Description
Wireless LAN	On	Configures your wireless LAN settings.
Power	Off	Select <b>On</b> 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.

Setting	Options	Description
Network information	Simple AP Wireless LAN Wired LAN	Displays the network connection status and detailed information. Wireless LAN is available when you have set Wireless LAN Power to On, and Wired LAN is available when you have set Wireless LAN Power to Off.  (Wired LAN is only available on the EB-994F.)  Simple AP is only available when Wireless LAN Power is set to On, and Simple AP in the Wireless LAN menu is set to On.  The following settings are displayed when you select On as the IPv6 setting.  • IPv6 Address (Auto)  • Temporary Address  • Link-local Address  • Stateless Address
D. 1. 1. 0D		Stateful Address
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.

Setting	Options	Description
EPMC Monitoring Control	EPMC Settings Export EPMC Settings Import EPMC Settings	EPMC Settings: Set to On as the EPMC Monitoring Control to communicate directly with the Epson Projector Management Connected cloud server without going through the Epson Projector Connected Agent.
		See the Epson Projector Management Connected Operation Guide for details.
		https://www.projection- service.epson.com/pages/epm-connected/ online-manual/web-front/EN/index.html
		<b>Export EPMC Settings</b> : Exports the settings for Epson Projector Management Connected.
		Import EPMC Settings: Imports the settings for Epson Projector Management Connected.
Firmware Update Set.	Notify Do not notify Auto update at midnight Off	Select whether to receive notifications about firmware updates and whether to update automatically during the night.  Set this to <b>Off</b> if you do not want to update the projector's firmware over the network.
		If you are using Epson Projector Management Connected, we recommend setting this to Off.



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.

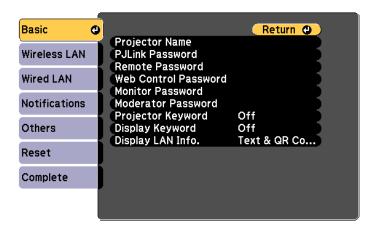
#### **▶** Related Links

- "Network Menu Basic Menu" p.137
- "Network Menu Wireless LAN Menu" p.138
- "Network Menu Wired LAN Menu" p.141
- "Network Menu Notifications Menu" p.142
- "Network Menu Others Menu" p.144
- "Network Menu Reset Menu" p.145
- "Selecting Password Security Types" p.82

#### Network Menu - Basic Menu

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

**☞** Network > Network Configuration > Basic



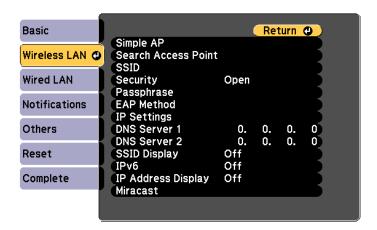
Setting	Options	Description
Projector Name	Up to 16 alphanumeric characters (do not use " * + , / :; < = > ? [ \ ] `   spaces)	Enter a name to identify the projector over the network.
PJLink Password	Up to 32 alphanumeric characters (do not use spaces and any symbols)	Enter a password for using the PJLink protocol for projector control. (EB-994F)
Remote Password	Up to 32 alphanumeric characters (do not use * : spaces)	Enter a password for accessing the projector using the Basic Control. (The user name is <b>EPSONREMOTE</b> . No password is set by default.)
Web Control Password	Up to 32 alphanumeric characters (do not use * : spaces)	Enter a password for accessing the projector over the Web. (The user name is <b>EPSONWEB</b> . No password is set by default.)
Monitor Password	Up to 16 alphanumeric characters (do not use spaces and any symbols other than @)	Enter a password when using Epson Projector Management Ver.5.30 or earlier, or when controlling and monitoring the projector in combination with a switcher or controller. (No password is set by default.) Make sure the Monitor Password matches the password used with the switcher or controller. Available when you have set Command Communication to Compatible.  Network > Network Configuration > Others

Setting	Options	Description
Moderator Password	Four-digit number	Enter a password for accessing the projector as a moderator using Epson iProjection. (No password is set by default.)
Projector Keyword	On Off	Set to <b>On</b> to enable a security password to prevent access to the projector by anyone not in the same room as the projector. You must enter a displayed, randomized keyword from a computer using Epson iProjection to access the projector and share the current screen.
Display Keyword	On Off	Set to <b>On</b> to display a projector keyword on the projected image when accessing the projector using Epson iProjection.  Available when <b>Projector Keyword</b> is set to <b>On</b> .
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 <b>Text &amp; QR Code</b> .
Proxy	IP Address Port Number	Enter the IP address and port number of the proxy server when using a proxy server.

### 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
Simple AP	•	Select the settings for connecting to a wireless LAN network using Simple AP.
	Simple AP	Set to <b>On</b> when connecting using Simple AP.
	SSID	Displays the SSID (network name) of the wireless LAN system to which the projector is connected.
		Simple AP automatically detects and connects to the wireless LAN system.
	Security	For Simple AP, this is fixed at <b>WPA2-PSK</b> .
		Communication is performed using WPA2 security with AES encryption. When connecting to the projector from a computer, enter the value set as the passphrase.

Setting	Options	Description
	Passphrase (Various passphrases from 8 to 32 characters (when entering from a Web browser: various passphrases from 8 to 63 characters))	Enter the passphrase of the projector for entry on your device in simple AP connections.  You must set the <b>Passphrase</b> when using simple AP mode for the first time.  Enter a passphrase and press [Enter] to set the value. The set value is displayed as a string of asterisks (*).  For increased security, we recommend changing the passphrase periodically. If you reset the network settings, the passphrase is reset to its default value.
	Channel	For Simple AP, this is fixed at <b>Auto</b> (5GHz).
Search Access Point	To Search View	Search for available wireless network access points. 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.
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	Security is not set.
	WPA3-PSK	Communication is performed using WPA3 security. Uses AES method for encryption. When establishing a connection from a computer to the projector, enter the value set in the passphrase.

Setting	Options	Description
	WPA2/WPA3-PSK	Connects in WPA2/WPA3 personal mode. Encryption method is selected automatically according to the access point settings. Set a passphrase which is the same for the access point.
	WPA3-EAP	Connects in WPA3 enterprise mode. Encryption method is selected automatically according to the access point settings.
	WPA2/WPA3-EAP	Connects in WPA2/WPA3 enterprise mode. Encryption method is selected automatically according to the access point settings.
Passphrase	Various passphrases from 8 to 32 characters	For WPA3-PSK and WPA2/WPA3-PSK security, selects the pre-shared passphrase used on the network.
	(when entering from a Web browser: various	When the passphrase is entered and the [Enter] button is pressed, the value is set and displayed as an asterisk (*).
	passphrases from 8 to 63 characters)	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 <b>WPA3-EAP</b> and <b>WPA2/WPA3-EAP</b> security.
	EAP Type	<b>EAP Type</b> : selects the protocol for authentication.
		PEAP: authentication protocol widely used in Windows Server.
		EAP-TLS: authentication protocol widely used to use a client certificate.

Setting	Options	Description
	User name	User name: Enter up to 64 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 64 alphanumeric characters for authentication when EAP Type is set to PEAP. You can enter up to 32 alphanumeric characters in the projector menu. To enter more than 32 characters, use your Web browser. After you enter the password and select Set, the password is displayed as an asterisk (*).
	Client Certificate	Client Certificate: imports the client certificate when EAP Type is set to EAP-TLS.
	CA certificate	CA certificate: imports the CA certificate.
	RADIUS Serv.Name	RADIUS Serv.Name: Enter the server name you want to verify. You can enter up to 64 alphanumeric characters. To enter more than 32 characters, use your Web browser.

Setting	Options	Description
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, 192.168.48.x, 192.168.88.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.
DNS Server 1 DNS Server 2	Various IP addresses	Enter the IP address for the DNS server, using 0 to 255 for each address field. The DNS server resolves the host name. Do not use the following IP addresses: 127.x.x.x (where x is a number from 0 to 255).  When these settings are not set and remain as 0.0.0.0, DNS server information is acquired using DHCP. After acquiring the information, the values remain as 0.0.0.0.
SSID Display	On Off	Select whether to display the SSID on the network standby screen and Home screen.
IPv6	On Off	Set to <b>On</b> when connecting the projector to a network using IPv6.
IP Address Display	On Off	Select whether to display the IP address on the network standby screen and Home screen.

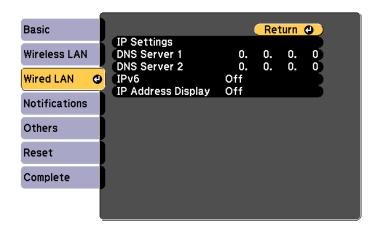
Setting	Options	Description
Miracast		Select the settings for using the Miracast function.
	Miracast	Set to <b>On</b> when using the Miracast function.
	Access Control	Set to <b>On</b> to display a screen asking if you want to allow projection when connected using Miracast. Check the device name and select whether or not to allow projection.
	Adjust Image Quality	Adjusts the image display speed and quality for Miracast.  You can select from 1 (Fine) to 4 (Fast).  1: Improved display quality.  4: Improved display speed.
	Miracast Info.	Set to <b>On</b> to display information necessary to connect to the device while projecting from a Miracast source.

### Network Menu - Wired LAN Menu

Settings on the Wired LAN menu let you select the wired LAN settings.

**☞** Network > Network Configuration > Wired LAN

This menu is available only for models that support wired LAN projection.



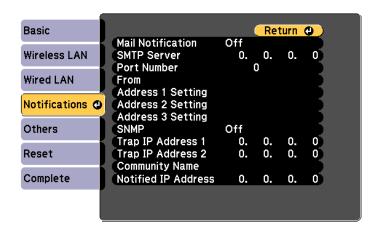
Setting	Options	Description
IP Settings	DHCP IP Address Subnet Mask Gateway Address	DHCP: set to On if your network assigns addresses automatically; set to Off to manually enter the network's IP Address, Subnet Mask, and Gateway Address using 0 to 255 for each address field.  Do not use these addresses: 0.0.0.0, 127.x.x.x, 192.0.2.x, 192.168.48.x, 192.168.88.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 255.255.255.255.255 for Gateway Address.

Setting	Options	Description
DNS Server 1 DNS Server 2	Various IP addresses	Enter the IP address for the DNS server, using 0 to 255 for each address field. The DNS server resolves the host name. You cannot use the following IP addresses: 127.x.x.x (where x is a number from 0 to 255).
		When these settings are not set and remain as 0.0.0.0, DNS server information is acquired using DHCP. After acquiring the information, the values remain as 0.0.0.0.
IPv6	On Off	Set to <b>On</b> if you want to connect the projector to the network using IPv6. IPv6 is supported to monitor and control the projector over a network using Epson Web Control and PJLink. (PJLinkis only available for the EB-994F.)
IP Address Display	On Off	Select whether to display the IP address on the network standby screen.

### **Network Menu - Notifications Menu**

Settings on the **Notifications** menu let you receive an email notification if a problem or warning occurs in the projector.

**☞** Network > Network Configuration > Notifications



Setting	Options	Description
Mail Notification	On Off	Set to <b>On</b> to send an email to the preset addresses when a problem or warning occurs with a projector.
SMTP Server	IP address	Enter the IP address for the projector's SMTP server using 0 to 255 for each address field.
		Do not use these addresses: 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).
Port Number	1 to 65535 (default is 25)	Select a number for the SMTP server Port Number.

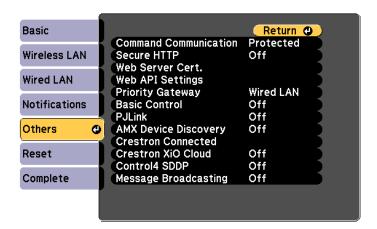
Setting	Options	Description
From	Up to 32	Enter the email address of the sender.
Address 1 Setting Address 2 Setting Address 3 Setting	alphanumeric characters  Up to 64 alphanumeric characters from the Web browser  (do not use "(),:; <> [\] spaces)	Enter the e-mail address, and select the alerts you want to receive. Repeat for up to three addresses.
SNMP	On Off	Set to <b>On</b> to monitor the projector using SNMP. To monitor the projector, you need to install the SNMP manager program on your computer. SNMP should be managed by a network administrator.
Trap IP Address 1 Trap IP Address 2	IP address	Enter up to two IP addresses to receive SNMP notifications, using 0 to 255 for each address field.  Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255 (where x is a number from 0 to 255).
Community Name	Up to 32 alphanumeric characters (do not use spaces and any symbols)	Set the SNMP community name.

Setting	Options	Description
Notified IP Address	IP address	Enter the IP address to receive the projector's operating status when the PJLink notification function is enabled. Enter the addresses using 0 to 255 for each address field.  Do not use these addresses: 127.x.x.x or 224.0.0.0 through 255.255.255.255 (where x is a number from 0 to 255).  (EB-994F)

### Network Menu - Others Menu

Settings on the **Others** menu let you select other network settings.

**▶** Network > Network Configuration > Others



Setting	Options	Description
Command Communication		Select the authentication method for using commands to communicate with the projector over a network from external devices such as a computer or controller.
	Protected	Select this when using Digest authentication to authenticate using a Web Control Password. Be sure to use the latest version of Epson Projector Management.
	Compatible	Select this when performing plain text authentication using the <b>Monitor Password</b> (up to 16 alphanumeric characters long).
		Select Compatible when using Epson Projector Management Ver.5.30 or earlier, or when monitoring the projector in combination with a switcher or controller. Make sure the Monitor Password
		matches the password used with the switcher or controller.
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 <b>On</b> .

# **Projector Network Settings - Network Menu**

Setting	Options	Description
Web Server Cert.	_	Imports the Web server certificate for secure HTTP.
Web API Settings	Web API	Select <b>On</b> to enable the Web API function.
	Authentication	Selects the security for your projector to use during Web API communications.
		<b>Open</b> : Security is not set.
		<b>Digest</b> : Communication is performed using API authentication (Digest authentication).
		See the Web API Specifications for Projectors for details.
Priority Gateway *	Wired LAN Wireless LAN	You can set the priority gateway.
Basic Control	On Off	Set to <b>On</b> to monitor and control the projector using <b>Basic Control</b> in <b>Epson Web Control</b> .
PJLink *	On Off	Set to <b>On</b> to enable the PJLink notification function.
AMX Device Discovery *	On Off	Set to <b>On</b> when you want to allow the projector to be detected by AMX Device Discovery.
Crestron Connected *	On Off	Set to <b>On</b> only when monitoring or controlling the projector over the network using Crestron Connected.
		Enabling Crestron Connected disables the Epson Message Broadcasting feature in the Epson Projector Management software.

Setting	Options	Description
Crestron XiO Cloud *	On Off	Set to <b>On</b> to monitor or control your projector and other devices over the network using the Crestron XiO Cloud service.
Control4 SDDP *	On Off	Set to <b>On</b> to allow device information to be acquired using Control4 Simple Device Discovery Protocol (SDDP).
Message Broadcasting	On Off	Set to <b>On</b> to receive the message delivered by Epson Projector Management. See the <i>Epson Projector Management Operation Guide</i> for details.

<sup>\*</sup> Available only for the EB-994F.

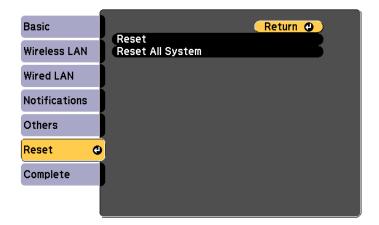
### **→** Related Links

• "Crestron Connected Support" p.118

### **Network Menu - Reset Menu**

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

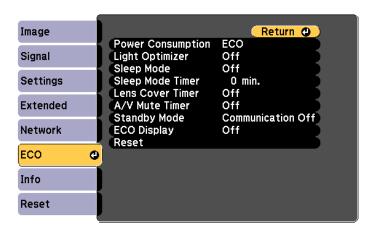
**▶** Network > Network Configuration > Reset



Setting	Options	Description
Reset	Yes No	Attention All of the passwords that have been set for the Network menu are also reset and you need to set them again. To prevent the passwords from being reset by unauthorized users, set Network Protection to On in the Password Protection menu.
Reset All System	Yes No	Select <b>Yes</b> to reset the apps, network settings, and so on stored in the network firmware.

# **Projector Setup Settings - ECO Menu**

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	High Medium ECO	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.  Select ECO to reduce lamp brightness and fan noise, and to save power and lamp life.  Medium is only available for the EB-994F.

Setting	Options	Description
Light Optimizer	On Off	When set to <b>On</b> , 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:  • <b>Power Consumption</b> is set to <b>High</b> or <b>Medium</b> . ( <b>Medium</b> is only available for the EB-994F.)  • <b>Auto Iris</b> is set to <b>Off</b> .   Image > <b>Auto Iris</b>
Sleep Mode	On Off	Automatically turns off the projector after an interval of inactivity (when <b>On</b> ).
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 <b>On</b> ).
A/V Mute Timer	On Off	Automatically turns off the projector after 30 minutes if <b>A/V Mute</b> is enabled (when <b>On</b> ).

# **Projector Setup Settings - ECO Menu**

Setting	Options	Description
Standby Mode	Communication On Communication Off	When connected to a network by wired LAN, set to <b>Communication On</b> to allow monitoring and controlling the projector over a network when the projector is in standby mode. (EB-994F)  Setting is only displayed in the following
		<ul><li>cases:</li><li>A/V Output is set to While Projecting.</li></ul>
		<ul> <li>Auto Power On is not set to HDMI1 and Power On Trigger is set to Plug- in Detection.</li> </ul>
		• USB Power is set to On While Projecting.
		Extended > A/V Settings > A/V Output
		Extended > Operation > Auto Power On
		Extended > Operation > Power On Trigger
		Extended > Operation > USB Power
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 <b>On</b> ).
Reset	_	Resets all adjustment values on the ECO menu to their default settings, except for Standby Mode.



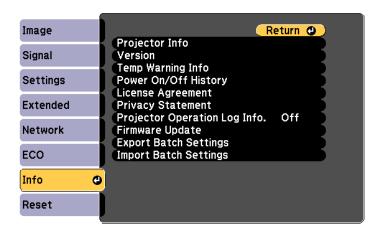
- When the **Sleep Mode Timer** setting is enabled, the lamp dims for a short time before the timer limit is reached and the projector turns off.
- When the **Lens Cover Timer** or **A/V Mute Timer** settings are enabled, the lamp uses less power when the lens cover is closed or **A/V Mute** is activated.

#### **→** Related Links

• "Projector Setup Settings - Extended Menu" p.133

# **Projector Information Display - Info Menu**

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.	
Temp Warning Info	Displays various high temperature warnings.	
Power On/Off History	Displays the projector's power on and power off history.	
License Agreement	Displays the License Agreement.	
Privacy Statement	Displays the Privacy Statement.	
Projector Operation Log Info.	Select whether or not to allow Epson to investigate the projector's usage status.	
Firmware Update	Enters the firmware update mode. You can update by USB-A or over the network.	
	You can select to update firmware over the network when the latest firmware has been uploaded on the server. This cannot be selected if <b>Firmware Update Set.</b> is set to <b>Off</b> .	
	<b>☞</b> Network > Firmware Update Set.	

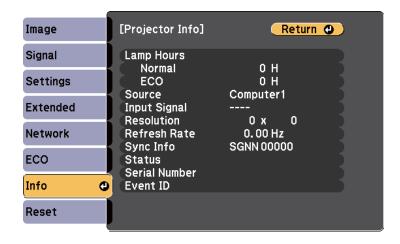
Information item	Description
Export Batch Settings	Exports the projector's menu settings to a USB flash drive or a computer, allowing you to copy them to other projectors of the same model.
Import Batch Settings	Imports menu settings that have been saved to a USB flash drive or a computer.

#### **▶** Related Links

- "Info Menu Projector Info Menu" p.149
- "Updating the Firmware" p.167

### 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.

# **Projector Information Display - Info Menu**

Information item	Description	
Lamp Hours	Displays the number of hours (H) the lamp has been used in each <b>Power Consumption</b> mode; if the information is displayed in yellow, obtain a genuine Epson replacement lamp soon. <b>ECO</b> > <b>Power Consumption</b>	
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.	
Refresh Rate	Displays the refresh rate of the current input source.	
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.150

### **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.

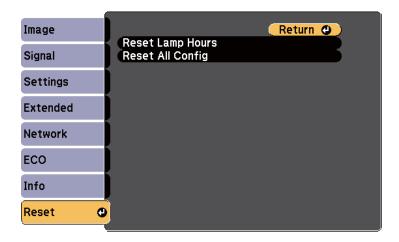
Event ID code	Cause and solution	
0432	The network software did not start. Turn the projector off and then	
0435	again.	
0433	Cannot display the transferred images. Restart the network software.	
0434	Unstable network communication. Check the network	
0481	communication status, wait a few moments, and try connecting to	
0482	the network again.	
0485		
0483	The network software quit unexpectedly. Check the network	
04FE	communication status, then turn the projector off and then on again.	
0484	Communication with computer was disconnected. Restart the network software.	
0479	A projector system error has occurred. Turn the projector off and then	
04FF	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 WPA2/WPA3 authentication type does not match. Make sure the wireless network security settings are correct.	
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.	
0895	Communication with a connected device was disconnected. Check your device connection status.	
0898	Failed to acquire DHCP. Make sure the DHCP server is operating correctly. If you are not using DHCP, set the <b>DHCP</b> setting to <b>Off</b> in the projector's <b>Network</b> menu.	
	► Network > Network Configuration > Wireless LAN > IP Settings > DHCP	
0899	Other communication errors.	

# **Projector Information Display - Info Menu**

Event ID code	Cause and solution
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.

# **Projector Reset Options - Reset Menu**

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:

- E-Zoom
- User's Logo
- Display Background \*
- Startup Screen \*
- A/V Mute \*
- Schedule Settings
- Language
- Date & Time

- Network menu items
- Lamp Hours
- Password
- \* Only when you set the **User's Logo Protection** setting to **On** in the **Password Protection** setting menu.

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 Notifications menu and the Others menu)
- Lamp Hours and Status from the Projector Info menu



- Perform batch setup before adjusting the image settings such as keystone distortion correction. 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.
- Make sure **Batch Setup Range** is set to **Limited** if you do not want to copy the following settings:
  - Password Protection settings
  - Network menu settings (except for the Notifications menu and the Others menu)
  - Extended > Operation > Advanced > Batch Setup Range



### 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.153

• "Transferring Settings From a Computer" p.154

### **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 FAT16/32 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.
- You can also use this batch setup method from the projector's menu.
- Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.
- Connect an empty USB flash drive directly to the projector's USB-A port.
- Hold down the [Esc] button on the remote control or the control panel and connect the power cord to the projector.
- 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.

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.

- 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.
- Connect the USB flash drive containing the saved batch setup file to the projector's USB-A port.
- Hold down the [Menu] button on the remote control or the control panel and connect the power cord to the projector.
- 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 USB flash drive is disconnected, the projector may not start correctly.

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 10 and later
  - macOS 12.x and later
- You can also use this batch setup method from the projector's menu.
- Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.
- Connect a USB cable to the computer's USB port and to the projector's USB-B port.
- Hold down the [Esc] button on the remote control or the control panel and connect the power cord to the projector.
- When all of the projector's indicators turn on, release the [Esc] button. The computer recognizes the projector as a removable disk.
- 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.

- Eject the USB device (Windows) or drag the removable disk icon to the Trash (Mac).
- Disconnect the USB cable. The projector turns off.

- 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.
- Connect the USB cable to the computer's USB port and to the projector's USB-B port.
- Hold down the [Menu] button on the remote control or the control panel and connect the power cord to the projector.
- When all of the projector's indicators turn on, release the [Menu] button. The computer recognizes the projector as a removable disk.
- 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.

- Eject the USB device (Windows) or drag the removable disk icon to the Trash (Mac).
- Disconnect the USB cable.

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



### **A** 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.155

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

#### **▶** Related Links

• "Projector Indicator Status" p.172

# **Maintaining the Projector**

Follow the instructions in these sections to maintain your projector.

#### **→** Related Links

- "Projector Maintenance" p.157
- "Cleaning the Lens" p.158
- "Cleaning the Projector Case" p.159
- "Air Filter and Vent Maintenance" p.160
- "Projector Lamp Maintenance" p.163
- "Updating the Firmware" p.167

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.



### **Marning**

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

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

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



### **Marning**

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

### **Attention**

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

# **Cleaning the Projector Case**

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

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

### **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 10,000-hour period. Clean them more often than this 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

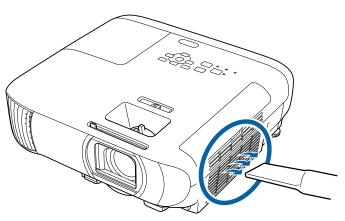
- "Cleaning the Air Filter and Vents" p.160
- "Replacing the Air Filter" p.160

### **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.

Turn off the projector and unplug the power cord.

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.

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

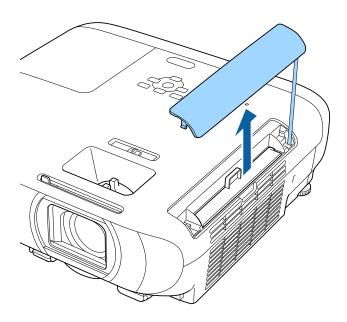
### Replacing the Air Filter

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

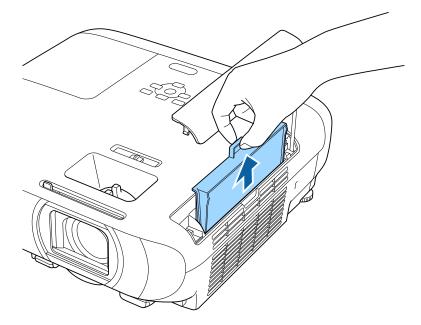
- After cleaning the air filter, you see a message telling you to clean or replace it.
- The air filter is torn or damaged.

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

- Turn off the projector and unplug the power cord.
- 2 Open the air filter cover.



**3** Pull the air filter out of the projector.



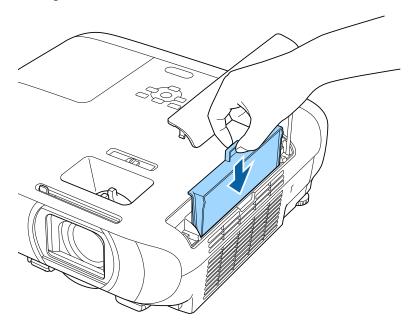


Dispose of used air filters according to local regulations.

• Filter frame: ABS

• Filter: Polyurethane foam

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



**5** Close the air filter cover.

### **→** Related Links

• "Replacement Parts" p.188

## **Projector Lamp Maintenance**

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.163
- "Resetting the Lamp Timer" p.166
- "Projector Specifications" p.193
- "Projector Indicator Status" p.172

### **Replacing the Lamp**

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



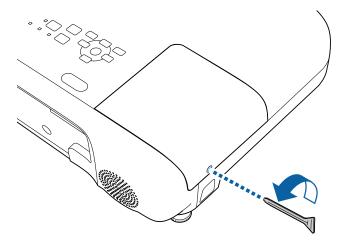
### **Marning**

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

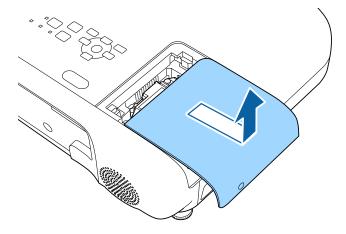


### **Marning**

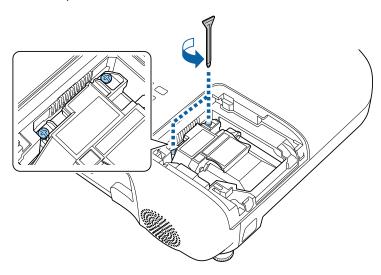
When replacing the lamp, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is cracked, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently.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



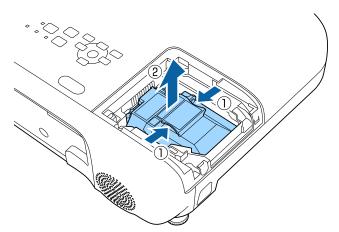
4. Slide the lamp cover out and lift it off.



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



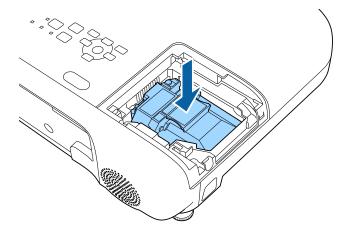
**6** Grip the raised section of the lamp and remove it.



# **Projector Lamp Maintenance**



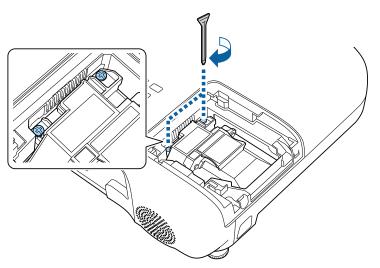
- If you notice the lamp is cracked when removing the lamp, contact Epson for help.
- The lamp(s) in this product contain mercury (Hg). Check your local laws and regulations regarding disposal or recycling. Do not put in the trash.
- Gently insert the new lamp into the projector. If it does not fit easily, make sure it is facing the right way.



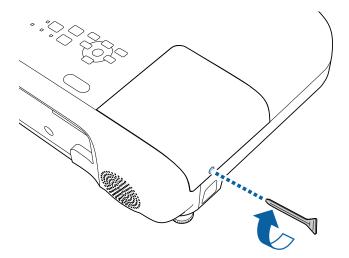
### **Attention**

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

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



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



# **Projector Lamp Maintenance**



- 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.188

### **Resetting the Lamp Timer**

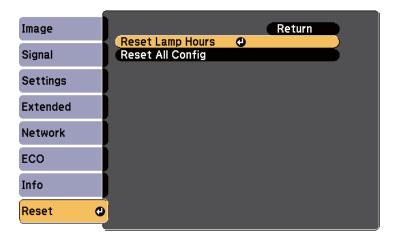
You must reset the lamp timer after replacing the projector's lamp to clear the lamp replacement message and to monitor lamp usage correctly.



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

1 Turn on the projector.

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



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

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

# **Updating the Firmware**

#### **▶** Related Links

- "Updating Firmware Using a USB Storage Device" p.167
- "Updating the Firmware over the Network" p.168

### **Updating Firmware Using a USB Storage Device**

You can update the projector's firmware using a USB storage device.



- Responsibility for updating the firmware lies with the customer. If a firmware update fails due to problems such as a power failure or communication problems, a fee will be charged for any necessary repairs.
- When updating the firmware using a USB storage device, you must set **Log Save Destination** to **Internal Memory**.
  - Extended > Operation > Advanced > Log Save Destination
- 1 Download the projector firmware file from the Epson Web site.
- 2 Copy the downloaded firmware file to the root folder (highest folder in the hierarchy) of the USB storage device.



- The USB storage device must be formatted in FAT format.
- Do not copy any other files to the USB storage device.
- Do not change the firmware's file name. If the file name is changed, the firmware update will not start.
- Check that the firmware file you copied is the correct file for your projector model. If the firmware file is not correct, the firmware update will not start.

Connect the USB storage device to the projector's USB-A port.



Connect the USB storage device directly to the projector. If the USB storage device is connected using a USB hub, the firmware update may not be applied correctly.

- Press the [Menu] button, select the **Info** menu, and press [Enter].
- Select Firmware Update and press [Enter].



During the network firmware update, you cannot select **Firmware Update**. Even if you can select it, the projector update will not start even if you select **Yes** from **Update by USB**. Wait until the network firmware update is complete before updating the projector.

- 6 Select **Update by USB** and press [Enter].
- Select **Yes** to start the firmware update.

  The Firmware Update screen is displayed.
- 8 Select List update and press [Enter].
- 9 Select the file listed and press [Enter].
- Select **Transfer** and press [Enter] to start the firmware update.



- Do not disconnect the power cord from the projector while the firmware is updating. If the power cord is disconnected, the projector may not start correctly.
- Do not disconnect the USB storage device from the projector while the firmware is updating. If the USB storage device is disconnected, the update may not be applied correctly.

# **Updating the Firmware**

All of the projector's indicators start flashing and the firmware update starts.

Once the update is complete, **Reboot** is displayed. Select **Reboot** and press [Enter].

When the update finishes, check the projector's **Info** menu to make sure that the **Version** information has been updated to the correct firmware version.



- When all indicators flash rapidly, the firmware update may have failed. Disconnect the power cord from the projector, and then reconnect it to the projector. If the indicators continue to flash even after reconnecting the power cord, remove the power plug from the electrical outlet and contact Epson.
- If the firmware update fails due to a timeout or other issues, check the following.
  - Make sure there is enough free space on the USB storage device.
  - Make sure the USB storage device is not write-protected.

### **Updating the Firmware over the Network**

Once the latest firmware has been uploaded to the server, you can update the projector's firmware over the network.

The procedures for updating the firmware vary depending on the settings in **Firmware Update Set.** from the **Network** menu.

- **Notify**: When the projector is turned on, a firmware update confirmation screen is displayed.
  - Select **OK** to start the update.
- Do not notify: You can update the firmware from the Info menu.
- **Auto update at midnight**: When the projector is in standby mode, the firmware is automatically updated between 12:00 AM and 4:00 AM.
- Off: Disables firmware updates over the network.



 You need to configure a DNS server to update the firmware over the network.

Depending on your network, set **DHCP** to **On** in **IP Settings** from the **Wired LAN** menu or the **Wireless LAN** menu. If **DHCP** is set to **Off** or if you want to specify a DNS server address, enter the IP address in **DNS Server 1** or **DNS Server 2**.

- Network > Network Configuration > Wireless LAN
- Network > Network Configuration > Wired LAN
- If you are using Epson Projector Management Connected, we recommend setting Firmware Update Set. to Off in the Network menu.

If **Firmware Update Set.** is set to **Do not notify** in the **Network** menu, follow the steps below to update the firmware.

If **Firmware Update Set.** is set to **Notify** and you did not select **OK** when turning on the projector, or if it is set to **Auto update at midnight** but the update was not performed because the projector was on, you can update the firmware using the same procedure.

- Press [Menu], select **Info**, and then press [Enter].
- Select Firmware Update and press [Enter].
- Select **Update over Network** and press [Enter].



- If the latest firmware has not been uploaded to the server, you cannot select **Update over Network**.
- If Firmware Update Set. is set to Off in the Network menu, you cannot select Update over Network.

# **Updating the Firmware**



Select **Yes** to start the firmware update.



Do not disconnect the power cord from the projector while the firmware is updating. If the power cord is disconnected, the projector may not start correctly.

All of the projector's indicators start flashing and the firmware update starts. When the update finishes normally, the projector enters standby status (only the power indicator is lit blue). If **Direct Power On** is set to **On** in the projector's **Extended** menu, the projector turns back on again.

When the update finishes, check the projector's **Info** menu to make sure that the **Version** information has been updated to the correct firmware version.



When all indicators flash rapidly, the firmware update may have failed. Disconnect the power cord from the projector, and then reconnect it to the projector. If the indicators continue to flash even after reconnecting the power cord, remove the power plug from the electrical outlet and contact Epson.

#### Related Links

- "Projector Network Settings Network Menu" p.136
- "Projector Information Display Info Menu" p.149

# **Solving Problems**

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

#### **→** Related Links

- "Projection Problems" p.171
- "Projector Indicator Status" p.172
- "Using the Projector Help Displays" p.175
- "Solving Image or Sound Problems" p.176
- "Solving Projector or Remote Control Operation Problems" p.181
- "Solving Network Problems" p.183
- "Solutions When HDMI Link does not Function" p.186

# **Projection Problems**

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

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

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

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



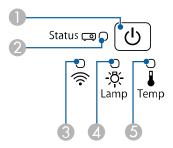
After repairing the projector, Epson may return the projector to you in its initial status. Make sure you make a note of the account information of each online service before you contact your local dealer or the nearest Epson repair center.

# **Projector Indicator Status**

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.



- Power indicator
- Status indicator
- Wireless LAN indicator
- Lamp indicator
- **6** Temp (temperature) indicator

### **Projector status**

Indicator and status	Problem and solutions
Power: Lit blue	Normal operation.
Status: Lit blue	
Lamp: Off	
Temp: Off	

T 1:	D 11 1 1 1
Indicator and status	Problem and solutions
Power: Lit blue	Warming up, shutting down, or cooling down.
Status: Flashing blue	When warming up, wait about 30 seconds for an image to
Lamp: Off	appear.
Temp: Off	All buttons are disabled during warm-up, shutting down, and cooling down.
Power: Lit blue	Standby, sleep mode, or monitoring.
Status: Off	When you press the power button, projection starts.
Lamp: Off	
Temp: Off	
Power: Flashing blue	Preparing for monitoring and all features are disabled.
Status: Off	
Lamp: Off	
Temp: Off	
Power: Flashing blue	Projector is too hot.
Status: Indicator status varies	<ul> <li>Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.</li> </ul>
Lamp: Indicator status	Clean or replace the air filter.
varies Temp: Flashing orange	Make sure the environmental temperature is not too hot.

# **Projector Indicator Status**

Indicator and status	Problem and solutions
Power: Off Status: Flashing blue	Projector has overheated and turned off. Leave it turned off to cool down for 5 minutes.
Lamp: Off Temp: Lit orange	Make sure that the vents and air filter are not clogged with dust or obstructed by nearby objects.
	Make sure the environmental temperature is not too hot.
	Clean or replace the air filter.
	• If operating the projector at high altitude, set the <b>High Altitude Mode</b> setting to <b>On</b> in the projector's menu.
	Extended > Operation > High Altitude Mode
	If the problem persists, unplug the projector and contact Epson for help.
Power: Off	Lamp has a problem.
Status: Flashing blue Lamp: Lit orange Temp: Off	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 <b>High Altitude Mode</b> setting to <b>On</b> in the projector's menu.
	Extended > Operation > High Altitude Mode
	If the problem persists, unplug the projector and contact Epson for help.
	Lamp cover has a problem.
	Check that the lamp and the lamp cover are securely installed. The lamp does not turn on if the lamp and the lamp cover are not installed correctly.

Indicator and status	Problem and solutions
Power: Flashing blue Status: Indicator status varies	Replace the lamp soon to avoid damage. Do not continue using the projector.
Lamp: Flashing orange Temp: Indicator status varies	
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.
Power: Off Status: Flashing blue Lamp: Lit orange Temp: Lit orange	Power error (Ballast). Turn the projector off, unplug it, and contact Epson for help.

### Wireless LAN status

Wireless LAN indicator status	Problem and solutions
Lit blue	Wireless LAN is available.
Flashing blue (quickly)	Connecting to a device.

# **Projector Indicator Status**

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

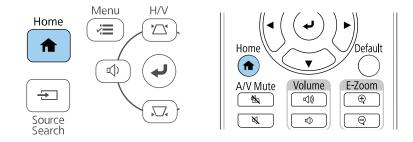
### **→** Related Links

- "Cleaning the Air Filter and Vents" p.160
- "Replacing the Air Filter" p.160
  "Replacing the Lamp" p.163

# **Using the Projector Help Displays**

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

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

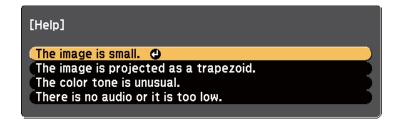


**3** Select **Help** on the Home screen.



The Help menu is displayed.

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



- 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.176
- "Solutions When "No Signal" Message Appears" p.176
- "Solutions When "Not Supported" Message Appears" p.177
- "Solutions When Only a Partial Image Appears" p.177
- "Solutions When the Image is not Rectangular" p.178
- "Solutions When the Image Contains Noise or Static" p.178
- "Solutions When the Image is Fuzzy or Blurry" p.179
- "Solutions When the Image Brightness or Colors are Incorrect" p.179
- "Solutions to Sound Problems" p.180
- "Solutions When Image File Names are not Displayed Correctly in PC Free" p.180

### **Solutions When No Image Appears**

If no image appears, try the following solutions:

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

- If the projector does not respond when you press the control panel buttons, the buttons may be locked for security. Unlock the buttons in the **Control Panel Lock** setting or use the remote control to turn on the projector.
  - Settings > Lock Setting > Control Panel Lock
- Adjust the **Brightness** setting in the projector's **Image** menu.
- Select **High** or **Medium** as the **Power Consumption** setting. (**Medium** is only available for the EB-994F.)
  - **ECO** > Power Consumption
- Check the **Display** setting in the projector's **Extended** menu to make sure **Messages** is set to **On**.
- The projector may not be able to project copyrighted videos that you play back on a computer. For more details, see the manual supplied with the computer.
- For images projected with Windows Media Center, reduce the screen size from full screen mode.
- For images projected from applications using Windows DirectX, turn off DirectX functions.

#### **₩** Related Links

- "Input Signal Settings Signal Menu" p.129
- "Image Quality Settings Image Menu" p.127
- "Projector Setup Settings ECO Menu" p.147
- "Projector Setup Settings Extended Menu" p.133
- "Unlocking the Projector's Buttons" p.84

### **Solutions When "No Signal" Message Appears**

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

• Press the [Source Search] button and wait a few seconds for an image to appear.

- Turn on the connected computer or video source, and press play to begin your presentation, if necessary.
- Check that all cables required for projection are securely connected.
- If you are projecting from a laptop computer, make sure it is set up to display on an external monitor.
- If necessary, turn off the projector and the connected computer or video source, and then turn them back on.
- Set the CEC function for the connected device again and restart the device.
- If you are projecting from an HDMI source, replace the HDMI cable with the shorter one.

#### **▶** Related Links

- "Displaying From a Laptop" p.177
- "Displaying From a Mac Laptop" p.177

### **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.

- Hold down the laptop's **Fn** key and press the key labeled with a monitor icon or **CRT/LCD**. Wait a few seconds for an image to appear.
- To display on the laptop's monitor and the projector, try pressing the same keys again.
- 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.
- 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.)

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

### **Solutions When "Not Supported" Message Appears**

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

- Make sure the correct input signal is selected in the projector's **Signal** menu.
- Make sure the computer's display resolution does not exceed the projector's resolution and frequency limits. If necessary, select a different display resolution for your computer.

#### **→** Related Links

- "Input Signal Settings Signal Menu" p.129
- "Supported Monitor Display Resolutions" p.192

### **Solutions When Only a Partial Image Appears**

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

• Try adjusting the image position using the **Position** setting in the projector's **Signal** menu. (EB-994F)

- Change the aspect ratio in **Aspect** from the **Signal** menu.
- Change the **Resolution** setting in the projector's **Signal** menu according to the signal for the connected equipment. (EB-994F)
- If you zoomed into or out of the image using the [E-Zoom] buttons, press the [Default] button to return to the original image size.
- Check your computer display settings to disable dual display and set the resolution within the projector's limits.
- Check the resolution assigned to your presentation files to see if they are created for a different resolution.
- Make sure you selected the correct projection mode. You can select this using the **Projection** setting in the projector's **Extended** menu.

#### **▶** Related Links

- "Input Signal Settings Signal Menu" p.129
- "Projector Setup Settings Extended Menu" p.133
- "Supported Monitor Display Resolutions" p.192

### Solutions When the Image is not Rectangular

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

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

### Settings > Keystone > Quick Corner

#### **▶** Related Links

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

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

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

- Check the cables connecting your computer or video source to the projector. They should be:
  - Separated from the power cord to prevent interference
  - Securely connected at both ends
  - Not connected to an extension cable
- Check the settings in the projector's **Signal** menu to make sure they match the video source.
- If available for your video source, adjust the **Deinterlacing** and **Noise Reduction** settings in the projector's **Image** menu.
  - **☞** Image > Image Enhancement > Noise Reduction
  - **☞** Image > Image Enhancement > Deinterlacing
- Select **Auto** as the **Resolution** setting in the projector's **Signal** menu. (EB-994F)
- Select a computer video resolution and refresh rate that are compatible with the projector.
- If you are projecting from a computer using a VGA computer cable, adjust the **Tracking** and **Sync.** settings in the projector's **Signal** menu. (EB-994F)

- 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.

#### **▶** Related Links

- "Input Signal Settings Signal Menu" p.129
- "Image Quality Settings Image Menu" p.127
- "Supported Monitor Display Resolutions" p.192

### Solutions When the Image is Fuzzy or Blurry

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

- Adjust the image focus.
- Position the projector close enough to the screen.
- Position the projector so the keystone adjustment angle is not so wide that it distorts the image.
- Clean the projector lens.



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

- Adjust the **Sharpness** setting in the projector's **Image** menu to improve image quality.
- If you are projecting from a computer using a VGA computer cable and 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. (EB-994F)

• If you are projecting from a computer, use a lower resolution or select a resolution that matches the projector's native resolution.

#### **▶** Related Links

- "Auto V-Keystone" p.46
- "Input Signal Settings Signal Menu" p.129
- "Image Quality Settings Image Menu" p.127
- "Supported Monitor Display Resolutions" p.192
- "Focusing the Image Using the Focus Ring" p.51
- "Cleaning the Lens" p.158

# 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:

- Select a color mode that suits the image and projection environment from **Color Mode** in the **Image** menu.
- Check your video source settings.
- Adjust the available settings in the projector's **Image** menu for the current input source, such as **Brightness**, **Contrast**, **Tint**, and **Color Saturation**.
- Make sure you selected the correct **Video Signal** or **Video Range** setting in the projector's **Signal** menu, if available for your image source. (**Video Signal** is only available for the EB-994F.)
  - Signal > Advanced > Video Signal
  - Signal > Advanced > Video Range
- Make sure all the cables are securely connected to the projector and your video device. If you connected long cables, try connecting shorter cables.
- If you are using ECO as Power Consumption, try selecting High or Medium. (Medium is only available on the EB-994F.)
  - **ECO** > Power Consumption



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

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

#### **▶** Related Links

- "Adjusting Image Quality (Color Mode)" p.56
- "Input Signal Settings Signal Menu" p.129
- "Image Quality Settings Image Menu" p.127
- "Projector Setup Settings ECO Menu" p.147

### **Solutions to Sound Problems**

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

- Adjust the projector's volume settings.
- Press the [A/V Mute] button on the remote control to resume video and audio if they were temporarily stopped.
- Check your computer or video source to make sure the volume is turned up and the audio output is set for the correct source.
- Check the audio cable connections between the projector and your video source.
- Make sure any connected audio cables are labeled "No Resistance".
- Select the correct audio input in the **A/V Settings** setting in the projector's **Extended** menu.
- If you want to use a connected audio source when the projector is off, set the **Standby Mode** option to **Communication On** in the projector's **ECO** menu and make sure the **A/V Settings** options are set correctly in the **Extended** menu. (EB-994F)

- If you do not hear sound from an HDMI source, set the connected device to PCM output.
- When you are connecting the projector to a Mac using an HDMI cable, make sure your Mac supports audio through the HDMI port.
- If the volume for the computer is set to the minimum while the projector is set to the maximum, the noise may be mixed. Turn up the computer's volume and turn down the projector's volume. (When you use Epson iProjection (Windows/Mac).)

#### **▶** Related Links

- "Projector Connections" p.23
- "Projector Feature Settings Settings Menu" p.130
- "Projector Setup Settings Extended Menu" p.133
- "Projector Setup Settings ECO Menu" p.147
- "Controlling the Volume with the Volume Buttons" p.58

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

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

## **Solving Projector or Remote Control Operation Problems**

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.181
- "Solutions to Problems with the Remote Control" p.181
- "Solutions to Password Problems" p.182
- "Solution When "The Battery that Saves Your Clock Settings is Running Low" Message Appears" p.182

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

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

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

#### Settings > Lock Setting > Control Panel Lock

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

- If the projector's lamp turns off unexpectedly, the lens cover timer may be enabled. To turn off the lens cover timer, select **Off** as the **Lens Cover Timer** setting in the projector's **ECO** menu.
- If the projector's lamp turns off, the status indicator is flashing, and the temp (temperature) indicator is lit, the projector has overheated and turned off.
- The cooling fans may run in standby status depending on the projector settings. Also, when the projector wakes from standby status, the fans may cause an unexpected noise. This is not a malfunction.
- The power cord may be defective. Disconnect the cord and contact Epson for help.

#### **▶** Related Links

- "Projector Setup Settings ECO Menu" p.147
- "Projector Indicator Status" p.172
- "Projector Feature Settings Settings Menu" p.130
- "Unlocking the Projector's Buttons" p.84

#### **Solutions to Problems with the Remote Control**

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

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

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

#### **▶** Related Links

- "Remote Control Operation" p.32
- "Projector Feature Settings Settings Menu" p.130
- "Selecting the Projector You want to Operate" p.78
- "Installing Batteries in the Remote Control" p.31

#### **Solutions to Password Problems**

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

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

#### Attention

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

# 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.

## **Solving Network Problems**

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

#### **▶** Related Links

- "Solutions When Wireless Authentication Fails" p.183
- "Solutions When You Cannot Access the Projector Through the Web" p.183
- "Solutions When Network Alert E-Mails are not Received" p.183
- "Solutions When the Image Contains Static During Network Projection" p.184
- "Solutions When You Cannot Connect Using Miracast" p.184
- "Solutions When the Image or Sound Contains Static During Miracast Connection" p.184

#### **Solutions When Wireless Authentication Fails**

If you are having trouble with the authentication, try the following solutions:

- If the wireless settings are correct, but authentication fails, you may need to update the **Date & Time** settings.
  - Extended > Operation > Date & Time
- Check the **Security** settings in the projector's **Network** menu.
  - **▶ Network > Network Configuration > Wireless LAN**
- If the access point security is WPA3-EAP, change the access point setting to WPA2/WPA3-EAP.

#### **→** Related Links

- "Projector Setup Settings Extended Menu" p.133
- "Network Menu Wireless LAN Menu" p.138

# Solutions When You Cannot Access the Projector Through the Web

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

- Make sure you use the following user IDs. (You cannot change the user IDs.)
  - To access the **Basic Control** option, enter **EPSONREMOTE**.
  - To access other options and save settings, enter **EPSONWEB**.
- For the password, enter the password set in the projector's **Network** menu. No password is set by default.
- Make sure you have access to the network the projector is on.
- If your Web browser is set up to connect via a proxy server, the **Epson Web Control** screen cannot be displayed. Make settings for a connection without using a proxy server.
- If **A/V Output** in the projector's **A/V Settings** is set to **Always On** and the projector is in standby mode, make sure the network device is turned on. After turning on the network device, turn on the projector.
  - Extended > A/V Settings > A/V Output



The user ID and password are case sensitive.

#### **▶** Related Links

• "Network Menu - Basic Menu" p.137

# Solutions When Network Alert E-Mails are not Received

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

## **Solving Network Problems**

- Make sure the projector is turned on and connected to the network correctly. (If an error shuts down the projector, the email may not be delivered.)
- Make sure you set up the projector e-mail alert settings correctly in the projector's network **Notifications** menu or in the network software.
- When connected to a network by wired LAN, set the **Standby Mode** setting to **Communication On** so that the network software can monitor the projector in standby mode. When connected to a network by wireless LAN, set **A/V Output** in **A/V Settings** to **Always On**.
  - ECO > Standby Mode
  - Extended > A/V Settings > A/V Output

#### **▶** Related Links

- "Network Menu Notifications Menu" p.142
- "Projector Setup Settings ECO Menu" p.147
- "Projector Setup Settings Extended Menu" p.133

# Solutions When the Image Contains Static During Network Projection

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

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

### **Solutions When You Cannot Connect Using Miracast**

If you are unable to connect to the projector using Miracast, try the following solutions:

- Check the projector's settings.
  - Set Miracast to On from Wireless LAN in the Network.
  - Set **Miracast** to **Off** from **Wireless LAN** in the **Network**, and select **On** again.
- 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 Miracast, 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.136
- "Wireless Network Projection from a Mobile Device (Miracast)" p.99

## Solutions When the Image or Sound Contains Static During Miracast Connection

If the projected image or sound contains static when connecting using Miracast, try the following solutions:

• Avoid covering the Wi-Fi antenna of the mobile device.

## **Solving Network Problems**

- If you use a Miracast 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 Miracast 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 (Miracast)" p.99

If you cannot operate the connected devices using the HDMI Link features, try the following solutions:

- Make sure the cable meets the HDMI CEC standard.
- Check if the device is available in the **Device Connections** list. If the device
  does not appear in the **Device Connections** list, it does not meet the HDMI
  CEC standards, Connect a different device.

#### Settings > HDMI Link > Device Connections

- Check that all cables required for HDMI Link are securely connected.
- Make sure the connected devices are turned on and in standby status. See the documentation supplied with the device for more information.
- If you connect a new device or change the connection, set the CEC function for the connected device again and restart the device.

#### **▶** Related Links

- "Projector Feature Settings Settings Menu" p.130
- "HDMI Link Features" p.63

## **Appendix**

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

#### **→** Related Links

- "Optional Accessories and Replacement Parts" p.188
- "Screen Size and Projection Distance" p.190
- "Supported Monitor Display Resolutions" p.192
- "Projector Specifications" p.193
- "External Dimensions" p.196
- "Warning Label" p.198
- "List of Safety Symbols and Instructions" p.199
- "Glossary" p.201
- "Notices" p.203

## **Optional Accessories and Replacement Parts**

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: January 2025.

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

#### **▶** Related Links

- "Screens" p.188
- "Mounts" p.188
- "External Devices" p.188
- "Replacement Parts" p.188

#### **Screens**

60" portable screen ELPSC27

80" portable screen ELPSC28

100" portable screen ELPSC29

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

70" portable screen ELPSC23

80" portable screen ELPSC24

90" portable screen ELPSC25

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

64" portable screen ELPSC31

Portable magnetic screens. (aspect ratio 4:3)

50" portable screen ELPSC32

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

80" Mobile X-Type Screen ELPSC21

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

**Multi Aspect Screen ELPSC26** 

Portable multi-aspect screen.

#### **Mounts**

#### **Ceiling mount ELPMB23**

Use when installing the projector on a ceiling.

#### **Safety Wire Set ELPWR01**

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

#### Ceiling pipe (450 mm) ELPFP13

#### Ceiling pipe (700 mm) ELPFP14

Use when installing the projector on a high ceiling.



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

#### **External Devices**

#### Document Camera ELPDC30/ELPDC21/ELPDC13/ELPDC07

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

#### Android TV<sup>™</sup> device ELPAP12

Use this streaming media player to watch online content.

#### **External Speaker ELPSP02 (EB-994F)**

External self-powered speaker.

#### **Soft carrying case ELPKS70**

Use this to carry the projector by hand.

### **Replacement Parts**

#### **Lamp unit ELPLP97**

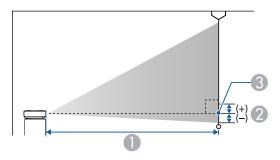
Use as a replacement for used lamps.

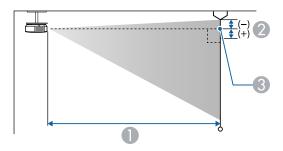
#### Air filter ELPAF54

Use as a replacement for used air filters.

## **Screen Size and Projection Distance**

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





- 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)
- Center of lens

16:9 screen size		0	2
		Minimum (Wide) to Maximum (Tele)	
31"	69 × 39	88 - 143	0
40"	89 × 50	114 - 185	0
50"	111 × 62	144 - 233	0

16:9 screen size		0	2
		Minimum (Wide) to Maximum (Tele)	
60"	133 × 75	173 - 280	0
80"	177 × 100	232 - 374	0
100"	221 × 125	290 - 468	-1
150"	332 × 187	437 - 704	-1
200"	443 × 249	583 - 939	-1
250"	553 × 311	730 - 1175	-1
304"	673 × 379	888 - 1429	-2

4:3 screen size		0	2
		Minimum (Wide) to Maximum (Tele)	
25"	51 × 38	87	0
30"	61 × 46	105 - 170	0
40"	81 × 61	141 - 228	0
60"	122 × 91	212 - 343	0
80"	163 × 122	284 - 458	-1
100"	203 × 152	356 - 574	-1
120"	244 × 183	428 - 689	-1
150"	305 × 229	535 - 862	-1
200"	406 × 305	715 - 1150	-1
220"	447 × 335	786 - 1265	-1
245"	498 × 373	876 - 1410	-2

## **Screen Size and Projection Distance**

16:10 so	16:10 screen size		2
		Minimum (Wide) to Maximum (Tele)	
30"	65 × 40	92 - 150	0
40"	86 × 54	124 - 201	0
60"	129 × 81	187 - 303	0
80"	172 × 108	251 - 404	0
100"	215 × 135	314 - 506	-1
120"	259 × 162	377 - 608	-1
150"	323 × 202	472 - 761	-1
200"	431 × 269	631 - 1016	-1
250"	538 × 337	789 - 1270	-1
277"	597 × 373	875 - 1408	-2

## **Supported Monitor Display Resolutions**

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

#### **→** Related Links

• "Getting the Latest Version of the Documents" p.9

## **Projector Specifications**

#### EB-FH54/EB-FH18

D 1 (	ED FILEA/ED FILIO
Product name	EB-FH54/EB-FH18
Dimensions	309 (W) $\times$ 90 (H) $\times$ 282 (D) mm (not including raised section)
LCD panel size	0.62"
Display method	3LCD
Number of pixels	Full HD (1,920 (W) × 1,080 (H) dots) × 3
Screen resolution	2,073,600 pixels (1,920 × 1,080)
Focus adjustment	Manual
Zoom adjustment	1 to 1.62 (Optical Zoom)
Lamp	UHE lamp, 230 W Model No.: ELPLP97
Lamp life	High Power Consumption mode: Up to 5,500 hours
	ECO Power Consumption mode: Up to 12,000 hours
Air filter maintenance cycle	10,000 hours
Max. audio output	16 W
Speaker	1
Power supply	100-240V AC±10% 50/60Hz 3.6 - 1.7 A
Power consumption (100 to 120 V area)	Operating: 349 W
Power consumption (220 to 240 V area)	Operating: 332 W
Standby power consumption	0.3 W
Operating altitude	Altitude 0 to 3,048 m

Operating temperature *	Altitude of 0 to 2,286 m: +5 to +40°C (No condensation) Altitude of 2,287 to 3,048 m: +5 to +35°C (Humidity of 20 to 80%, No condensation)
Storage temperature	-10 to +60°C (Humidity of 10 to 90%, No condensation)
Mass	Approx. 3.1 kg

 $<sup>^{\</sup>star}$  Lamp brightness automatically dims if the surrounding temperature gets too high. (Approximately 35°C at an altitude of 0 to 2,286 m, and approximately 30°C at an altitude of 2,287 to 3,048 m; however, this may vary depending on the surrounding environment.)

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

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

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

https://download2.ebz.epson.net/sec\_pubs\_visual/zicta/

#### EB-994F

Product name	EB-994F
Dimensions	$309 \text{ (W)} \times 90 \text{ (H)} \times 282 \text{ (D)} \text{ mm (not including raised section)}$
LCD panel size	0.62"
Display method	3LCD
Number of pixels	Full HD (1,920 (W) × 1,080 (H) dots) × 3
Screen resolution	2,073,600 pixels (1,920 × 1,080)
Focus adjustment	Manual
Zoom adjustment	1 to 1.62 (Optical Zoom)
Lamp	UHE lamp, 230 W Model No.: ELPLP97

## **Projector Specifications**

Lamp life	High Power Consumption mode: Up to 6,500 hours  Medium Power Consumption mode: Up to 10,000 hours  ECO Power Consumption mode: Up to 17,000 hours
Air filter maintenance cycle	10,000 hours
Max. audio output	16 W
Speaker	1
Power supply	100-240V AC±10% 50/60Hz 3.6 - 1.7 A
Power consumption (100 to 120 V area)	Operating: 349 W
Power consumption (220 to 240 V area)	Operating: 332 W
Standby power consumption	Communication On: 2.0 W Communication Off: 0.3 W
Operating altitude	Altitude 0 to 3,048 m
Operating temperature *	Altitude of 0 to 2,286 m: +5 to +40°C (No condensation) Altitude of 2,287 to 3,048 m: +5 to +35°C (Humidity of 20 to 80%, No condensation)
Storage temperature	-10 to +60°C (Humidity of 10 to 90%, No condensation)
Mass	Approx. 3.1 kg

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

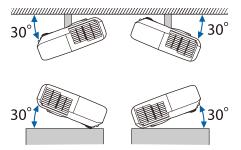
This product is also designed for IT power distribution system with phase-to-phase voltage 230 V.

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

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

https://download2.ebz.epson.net/sec\_pubs\_visual/zicta/

#### Angle of tilt



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

#### **→** Related Links

- "Connector Specifications" p.194
- "Wireless Channels Supported Frequency" p.195

### **Connector Specifications**

Computer1 port*	Mini D-Sub15-pin (female)
Computer2 port*	Mini D-Sub15-pin (female)
Monitor Out port*	Mini D-Sub15-pin (female)
Video port*	RCA pin jack
Audio 1 port*	Stereo mini pin jack
Audio 2 port*	Stereo mini pin jack
L-Audio-R ports*	RCA pin jack × 2 (L-R)
Mic port*	Stereo mini pin jack
Audio Out port	Stereo mini pin jack
HDMI1 port	HDMI (Audio is only supported by PCM)
HDMI2 port	HDMI (Audio is only supported by PCM)

## **Projector Specifications**

USB-A port	USB connector (Type A)
USB-B port	USB connector (Type B)
LAN port*	RJ-45
RS-232C port*	Mini D-Sub 9-pin (male)

<sup>\*</sup> Available only for the EB-994F.



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

## **Wireless Channels Supported Frequency**

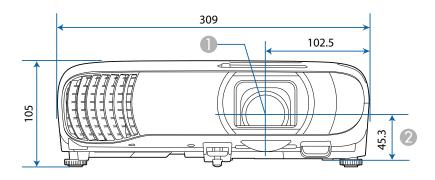
Check the **Region Code** displayed under **Wireless LAN** in **Network information**, and see the table below to check the supported frequencies for the corresponding region code.

Region Code	EU	TW	ME	KR
2.4GHz Ch1 - Ch11 (2.400 - 2.473GHz)	Yes	Yes	Yes	Yes
2.4GHz Ch12, 13 (2.473 - 2.4835GHz)	Yes	No	Yes	Yes
5GHz Ch36, 40, 44, 48 (5.15 – 5.25GHz)	Yes	Yes	Yes	Yes

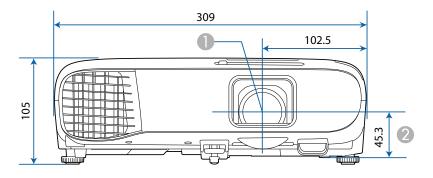
Region Code	EU	TW	ME	KR
5GHz Ch52, 56, 60, 64	Yes*	Yes*	Yes*	Yes*
(5.25 – 5.35GHz) 5GHz Ch100 – Ch144 (5.47 – 5.725GHz)	Yes* (Ch100-140)	Yes* (Ch100-140)	No	Yes* (Ch100-140)
5GHz Ch149 - Ch165 (5.725 - 5.85GHz)	No	Yes	No	Yes
6GHz Ch1 – Ch93 (5.945 – 6.425GHz)	Yes*	Yes*	No	Yes*
6GHz Ch97 – Ch113 (6.425 – 6.525GHz)	No	No	No	Yes*
6GHz Ch117 – Ch185 (6.525 – 6.875GHz)	No	No	No	Yes*
6GHz Ch189 – Ch233 (6.875 – 7.125GHz)	No	No	No	Yes* (Ch189-229)

<sup>\*</sup> When connecting to an access point

#### EB-FH54/EB-FH18

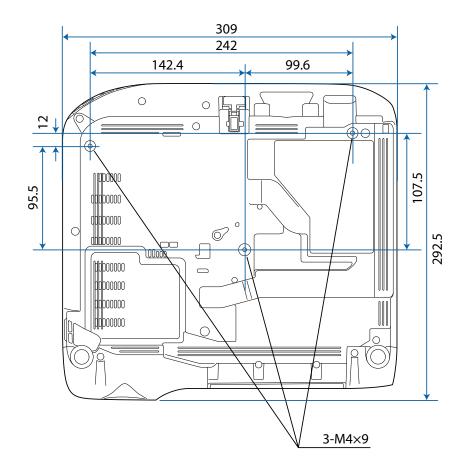


#### EB-994F

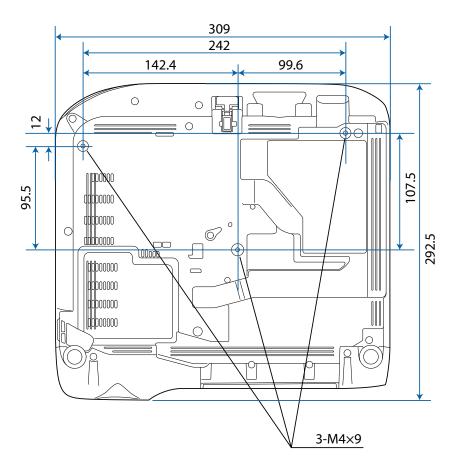


- Center of lens
- Distance from center of lens to suspension bracket fixing point

#### EB-FH54/EB-FH18



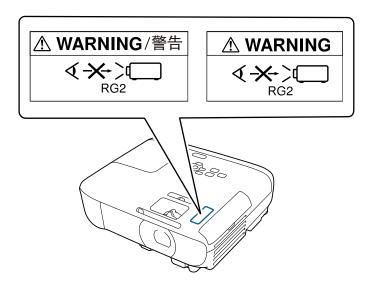
EB-994F



The unit in these illustrations is mm.

The warning label is attached to the projector.

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



### **Marning**

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

## **List of Safety Symbols and Instructions**

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

No.	Symbol mark	Approved standards	Description
0		IEC60417	"ON" (power)
		No. 5007	To indicate connection to the mains.
2		IEC60417	"OFF" (power)
	$\cup$	No. 5008	To indicate disconnection from the mains.
3	414	IEC60417	Stand-by
	Ü	No. 5009	To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
4	<b>A</b>	ISO7000	Caution
	<u></u>	No. 0434B, IEC3864-B3.1	To identify general caution when using the product.
5	Λ	IEC60417	Caution, hot surface
		No. 5041	To indicate that the marked item can be hot and should not be touched without taking care.
6	Δ	IEC60417	Caution, risk of electric shock
	/4\	No. 6042	To identify equipment that has risk of
		ISO3864-B3.6	electric shock.
7	<b>△</b> √1	IEC60417	For indoor use only
		No. 5957	To identify electrical equipment designed primarily for indoor use.

No.	Symbol mark	Approved standards	Description
8		IEC60417	Polarity of d.c. power connector
		No. 5926	To identify the positive and negative connections (the polarity) on a piece of equipment to which a d.c. power supply may be connected.
9	$\bigcirc \oplus \oplus$	_	The same as No. 8.
1		IEC60417	Battery, general
	Ч	No. 5001B	On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
•	41	IEC60417	Positioning of cell
	4+	No. 5002	To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
12	<del>(+ -</del>	_	The same as No. 11.
13		IEC60417	Protective earth
		No. 5019	To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
14	ı	IEC60417	Earth
	<u> </u>	No. 5017	To identify an earth (ground) terminal in cases where neither the symbol No. 13 is explicitly required.

## **List of Safety Symbols and Instructions**

No.	Symbol mark	Approved standards	Description
15		IEC60417 No. 5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating
			current only; to identify relevant terminals.
16		IEC60417	Direct current
		No. 5031	To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
		IEC60417	Class II equipment
		No. 5172	To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
13		ISO 3864	General prohibition
	0		To identify actions or operations that are prohibited.
19	(II)	ISO 3864	Contact prohibition
			To indicate injury that could occur due to touching a specific part of the equipment.
20	<b>√-×→</b>		Never look into the optical lens while the projector is on.
2	PEX	_	To indicate that the marked item don't place anything on projector.
22	<b>^</b>	ISO3864	Caution, laser radiation
	*	IEC60825-1	To indicate the equipment has a laser radiation part.

No.	Symbol mark	Approved standards	Description
23		ISO 3864	Disassembly prohibition  To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
24	Ö	IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
25		ISO3864 IEC60417 No. 5057	Caution, movable parts  To indicate that you must keep away from movable parts according to protection standards.
26	<u> </u>	IEC60417 No. 6056	Caution (Moving Fan Blades) As a safety precaution, stay away from the moving fan blades.
2	MET	IEC60417 No. 6043	Caution (Sharp Corners)  To indicate sharp corners that should not be touched.
28		_	To indicate that looking into the lens while projecting is prohibited.
29	*	ISO7010 No. W027 ISO 3864	Warning, Optical radiation (such as UV, visible radiation, IR)  Taking care to avoid injury to eyes and skin when in the vicinity of optical radiation.
30	巡	IEC60417 No. 5109	Not to be used in residential areas.  To identify electrical equipment which is not suitable for a residential area.

## Glossary

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.

AMX Device	AMX Device Discovery is a technology developed by AMX to
Discovery	facilitate AMX control systems for easy operation of the target equipment.
	Epson have implemented this protocol technology, and have provided a setting to enable the protocol function (ON).
	See the AMX Web site for more details.
	URL http://www.amx.com/
Aspect Ratio	The ratio between an image's length and its height.
	Screens with a horizontal:vertical ratio of 16:9, such as HDTV screens, are known as wide screens.
	SDTV and general computer displays have an aspect ratio of 4:3.
Composite Video	A method that combines the video signal into a luminance component and a color component for transmission down a single cable.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to make text and graphics stand out more clearly, or to make them appear softer. Adjusting this particular property of an image is called contrast adjustment.
DHCP	An abbreviation of Dynamic Host Configuration Protocol, this protocol automatically assigns an IP address to equipment connected to a network.
Full HD	A screen size standard with a resolution of 1,280 (horizontal) $\times$ 1,080 (vertical) dots.
Gateway Address	This is a server (router) for communicating across a network (subnet) divided according to subnet mask.

HDCP	HDCP is an abbreviation for High-bandwidth Digital Content Protection.
	It is used to prevent illegal copying and protect copyrights by encrypting digital signals sent over DVI and HDMI ports.
	Because the HDMI port on this projector supports HDCP, it can project digital images protected by HDCP technology.
	However, the projector may not be able to project images protected with updated or revised versions of HDCP encryption.
HDMI <sup>™</sup>	An abbreviation for High Definition Multimedia Interface.  HDMI <sup>™</sup> is a standard aimed at digital consumer electronics and computers. This is the standard by which HD images and multichannel audio signals are digitally transmitted.
	By not compressing the digital signal, the image can be transferred at the highest quality possible. It also provides an encryption function for the digital signal.
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satisfy the following conditions:
	Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace)
	Screen aspect ratio of 16:9
Interlace	Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom.
	Images are more likely to flicker because one frame is displayed every other line.
IP Address	A number to identify a computer connected to a network.
Progressive	Projects information to create one screen at a time, displaying the image for one frame.
	Even though the number of scan lines is the same, the amount of flicker in images decreases because the volume of information has doubled compared with an interlace system.

## Glossary

Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time.
	Because of this, the image must be scanned many times per second to refresh the light-emitting element.
	The number of refresh operations per second is called the Refresh rate and is expressed in hertz (Hz).
SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.
SNMP	An abbreviation for Simple Network Management Protocol, which is the protocol for monitoring and controlling devices such as routers and computers connected to a TCP/IP network.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set both the projector and the connected signal source to sRGB.
SSID	SSID is identification data for connecting to another device on a wireless LAN. Wireless communication is possible between devices with the same SSID.
Subnet Mask	This is a numerical value that defines the number of bits used for the network address on a divided network (subnet) from the IP address.
SVGA	A screen size standard with a resolution of 800 (horizontal) $\times$ 600 (vertical) dots.
SXGA	A screen size standard with a resolution of 1,280 (horizontal) $\times$ 1,024 (vertical) dots.

Sync.	The signals output from computers have a specific frequency.
	If the projector frequency does not match this frequency, the resulting images are not of a good quality.
	The process of matching the phases of these signals (the relative position of the crests and the troughs in the signal) is called Synchronization.
	If the signals are not synchronized, flickering, blurriness, and horizontal interference occur.
Tracking	The signals output from computers have a specific frequency.
	If the projector frequency does not match this frequency, the resulting images are not of a good quality.
	The process of matching the frequency of these signals (the number of crests in the signal) is called Tracking.
	If Tracking is not carried out correctly, wide vertical stripes appear in the signal.
Trap IP Address	This is the IP address for the destination computer used for error notification in SNMP.
VGA	A screen size standard with a resolution of 640 (horizontal) $\times$ 480 (vertical) dots.
XGA	A screen size standard with a resolution of 1,024 (horizontal) $\times$ 768 (vertical) dots.
WXGA	A screen size standard with a resolution of 1,280 (horizontal) $\times$ 800 (vertical) dots.
WUXGA	A screen size standard with a resolution of 1,920 (horizontal) $\times$ 1,200 (vertical) dots.

Notices 203

Check these sections for important notices about your projector.

#### **▶** Related Links

- "FCC Compliance Statement" p.203
- "Indication of the manufacturer and the importer in accordance with requirements of EU directive" p.204
- "Restriction of Use" p.204
- "Operating System References" p.204
- "Trademarks" p.204
- "Copyright Notice" p.205
- "Copyright Attribution" p.205

### **FCC Compliance Statement**

#### Supplier's DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or

CPU Boards and Power Supplies used with Class B Personal Computers

We: Epson America, Inc.

Located at: 3131 Katella Avenue, Los Alamitos, CA

Tel: 562-981-3840

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.906. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: EPSON

Type of Product: LCD Projector

Model: HB59C/HB60C

Product name	Model
Remote controller	2234403 xx (x=0-9)

#### **FCC Compliance Statement For United States Users**

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded

Notices 204

equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

#### For Canadian Users

CAN ICES (B) / NMB (B)

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

Manufacturer: SEIKO EPSON CORPORATION

Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan

http://www.epson.com/

Importer: EPSON EUROPE B.V.

EU Address: Atlas Arena, Asia Building, Hoogoorddreef 5,1101 BA Amsterdam

Zuidoost The Netherlands

UK Address: Floor 3&4, The Clarendon Works, 37-39 Clarendon Road, Watford

WD17 1JA, U.K.

http://www.epson.eu/

#### **Restriction of Use**

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc; or functional/precision devices etc, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use

in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care etc, please make your own judgment on this product's suitability after a full evaluation.

### **Operating System References**

- Microsoft \*Windows 10 operating system
- Microsoft \*Windows 11 operating system

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

- macOS 12.x
- macOS 13.x
- macOS 14.x

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

#### **Trademarks**

EPSON is a registered trademark, ELPLP and its logo are registered trademarks or trademarks of Seiko Epson Corporation.

Mac and macOS are trademarks of Apple Inc.

Microsoft, Windows, and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Wi-Fi<sup>®</sup>, WPA2<sup>™</sup>, WPA3<sup>™</sup>, and Miracast<sup>®</sup> are trademarks of Wi-Fi Alliance<sup>®</sup>.

App Store is a trademark of Apple Inc.

Chrome, Chromebook, and Google Play are trademarks of Google LLC.

Notices 205

HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

#### HDMI

"QR Code" is a registered trademark of DENSO WAVE INCORPORATED.

PJLink trademark is a trademark applied for registration or is already registered in Japan, the United States of America and other countries and areas.

Crestron<sup>\*</sup>, Crestron Connected<sup>\*</sup>, Crestron Fusion<sup>\*</sup>, Crestron RoomView<sup>\*</sup>, and Crestron XiO Cloud<sup>\*</sup> are registered trademarks of Crestron Electronics, Inc.



Covered by one or more claims of the HEVC patents listed at patentlist.accessadvance.com.

Other product names used herein are also for identification purposes only and may be trademarks of their respective owners. Epson disclaims any and all rights in those marks.

### **Copyright Notice**

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Seiko Epson Corporation. No patent liability is assumed with respect to the use of the information contained herein. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Neither Seiko Epson Corporation nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by the purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with Seiko Epson Corporation's operating and maintenance instructions.

Seiko Epson Corporation shall not be liable against any damages or problems arising from the use of any options or any consumable products other than those designated as Original Epson Products or Epson Approved Products by Seiko Epson Corporation.

The contents of this guide may be changed or updated without further notice. Illustrations in this guide and the actual projector may differ.

### **Copyright Attribution**

This information is subject to change without notice.
© 2025 Seiko Epson Corporation
2025.1 414569800EN