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User's Guide

Multimedia Projector

EB-X25	EB-S21
EB-W22	EB-X20
EB-X22	EB-S17
EB-X21	

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Notations Used in This Guide

• Safety indications

The documentation and the projector use graphical symbols to show how to use the projector safely. Please understand and respect these caution symbols in order to avoid injury to persons or property.

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

• General information indications

Attention	Indicates procedures which may result in damage or injury if sufficient care is not taken.	
	Indicates additional information and points which may be useful to know regarding a topic.	
•	Indicates a page where detailed information regarding a topic can be found.	
*	Indicates that an explanation of the underlined word or words in front of this symbol appears in the glossary of terms. See the "Glossary" section of the "Appendix".	
[Name]	Indicates the name of the buttons on the remote control or the control panel. Example: [Esc] button	
Menu Name	Indicates Configuration menu items. Example: Select Brightness from Image . Image - Brightness	



Notations Used in This Guide	2
------------------------------	---

Introduction

Projector Features	8
Quick and Easy Set up, Projection, and Storage	8
Connecting with a USB cable and projecting (USB Display)	
Detecting projector movements and automatically correcting image distortion	_
Horizontal keystone adjuster	
Useful Functions for Projecting Images Increasing projection content in wide (WXGA) screen (EB-W22 only)	
Connect a USB storage device and project movies or images (PC Free)	
Various functions for excellent power saving	
Making the most of the remote control	
Enlarge and project your files with the Document Camera	
Enhanced security functions	
Taking Full Advantage of a Network Connection	9
Connecting to a network and projecting images from the computer's screen	^
Easy connection to a computer with Quick Wireless Connection (Windows only)	0
	0
Projecting images from portable devices over a network	
X22/EB-X20 only)	0
Part Names and Functions1	1
Front/Top	1
Rear	3
Base	4
Control Panel	
Remote Control	
Replacing the remote control batteries	
Remote control operating range 2	20

Preparing the Projector

Installing the Projector 22
Installation Methods
Installation methods
Screen Size and Approximate Projection Distance
Connecting Equipment
Connecting a Computer
Connecting Image Sources
Connecting USB Devices
Connecting External Equipment 28
Connecting a LAN Cable
Installing the Wireless LAN Unit
Installing the Quick Wireless Connection USB Key

Basic Usage

Projecting Images
Switching to the Target Image by Remote Control
Projecting with USB Display
System requirements
Connecting for the first time
Uninstalling
Adjusting Projected Images 40
Adjusting Projected Images 40 Correcting Keystone Distortion 40
Correcting Keystone Distortion 40
Correcting Keystone Distortion 40 Correcting automatically 41 Correcting manually 41
Correcting Keystone Distortion 40 Correcting automatically 41
Correcting Keystone Distortion 40 Correcting automatically 41 Correcting manually 41 Adjusting the Image Size 44
Correcting Keystone Distortion40Correcting automatically41Correcting manually41Adjusting the Image Size44Adjusting the Image Position45

Sele	cting the Projection Quality (Selecting Color Mode)
Setti	ng Auto Iris
Chai	nging the Aspect Ratio of the Projected Image
C	hanging methods
C	hanging the aspect mode

Useful Functions

Projection Functions
Projecting Without a Computer (PC Free)
Specifications for files that can be projected using PC Free
PC Free examples
PC Free operating methods
Projecting the selected image
Projecting image files in a folder in sequence (Slideshow)
Image file display settings and Slideshow operation settings
Hiding the Image and Sound Temporarily (A/V Mute)
Freezing the Image (Freeze)
Pointer Function (Pointer)
Enlarging Part of the Image (E-Zoom) 59
Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse) 60
Saving a User's Logo
Saving User Pattern
Security Functions
Managing Users (Password Protect)
Kinds of Password Protect
Setting Password Protect
Entering the Password
Restricting Operation (Control Panel Lock)
Anti-Theft Lock
Installing the wire lock
Monitoring and Controlling 70
EasyMP Monitor
Changing Settings Using a Web Browser (Web Control)
Projector setup

Displaying the Web Control screen
Displaying the Web Remote screen
Using the Mail Notification Function to Report Problems
Reading Error Notification Mail
Management Using SNMP
ESC/VP21 Commands
Command list
Cable layouts
About PJLink (EB-X25/EB-W22/EB-X22/EB-X20 Only)
About Crestron RoomView® (EB-X25/EB-W22/EB-X22/EB-X20 only)
Operating a projector from your computer
About Event ID

Configuration Menu

Using the Configuration Menu 82
List of Functions
Configuration Menu Table
Network menu
Image Menu
Signal Menu
Settings Menu
Extended Menu
Network Menu
Notes on operating the Network menu
Soft keyboard operations 92
Basic menu
Wireless LAN menu (EB-X21/EB-S21/EB-X17/EB-S17 only)
Security menu (EB-X21/EB-S21/EB-X17/EB-S17 only)
Wired LAN menu (EB-X25/EB-W22/EB-X22/EB-X20 only)
Mail menu
Others menu
Reset menu
ECO Menu
Info Menu (Display Only) 100

4

TOP



Reset Menu			101
------------	--	--	-----

Troubleshooting

Using the Help 10	03
Problem Solving	04
Reading the Indicators	04
When the Indicators Provide No Help 1	08
Problems Relating to Images	
No images appear	
Moving images are not displayed	10
Projection stops automatically 1	
The message Not supported is displayed	
The message No Signal is displayed	
Images are fuzzy, out of focus, or distorted 1	
Interference or distortion appear in images 1	
The image is truncated (large) or small, the aspect is not suitable, or the image has	
been reversed	13
Image colors are not right	13
Images appear dark	14
Problems when Projection Starts 1	15
The projector does not turn on 1	15
Other Problems	15
No sound can be heard or the sound is faint	15
There is noise in the audio (when projecting EasyMP Network Projection, EasyMP	
MultiPC Projection, USB Display, or Quick Wireless Connection) 1	16
The remote control does not work 1	16
I want to change the language for messages and menus	17
Mail is not received even if a problem occurs in the projector	17
Cannot change settings using a Web browser	17

Maintenance

Cleaning	119
Cleaning the Projector's Surface	. 119

Cleaning the Lens 119 Cleaning the Air Filter 119
Replacing Consumables 121
Replacing the Lamp
Lamp replacement period 121
How to replace the lamp 121
Resetting the lamp hours 124
Replacing the Air Filter
Air filter replacement period 124
How to replace the air filter 124

Appendix

Optional Accessories and Consumables
Consumables
Screen Size and Projection Distance
Projection Distance (For EB-X25) 128
Projection Distance (For EB-X22/EB-X21/EB-X20/EB-X17)
Projection Distance (For EB-W22) 130
Projection Distance (For EB-S21/EB-S17)
Supported Monitor Displays 133
Supported Resolutions
Computer signals (analog RGB) 133
Component video
Composite video
Input signal from the HDMI port 134
Specifications
Projector General Specifications

Contents



6

Appearance	39
Glossary 1	40
General Notes	42
About Notations	142
General Notice:	143
Index 1	44



Introduction

This chapter explains the projector's features and the part names.

Projector Features



Quick and Easy Set up, Projection, and Storage

- Turn the projector on and off by simply plugging in or unplugging.
- Project onto large screens from a short distance.
- Make easy height adjustments with one lever.
- No cool down delay makes it easy to put away.

Connecting with a USB cable and projecting (USB Display)

By simply connecting a USB cable, you can project images from a computer's screen without a computer cable.

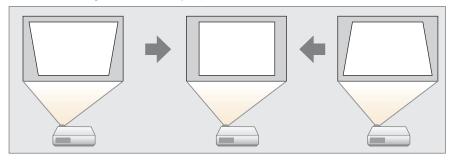
Projecting with USB Display" p.36



Detecting projector movements and automatically correcting image distortion

This projector automatically corrects vertical keystone distortion which occurs when positioning or moving the projector.

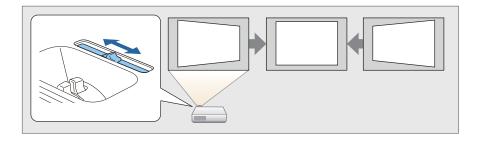
Correcting automatically" p.41



Horizontal keystone adjuster

This allows you to quickly correct horizontal distortion in the projected image. This is useful if you cannot install the projector parallel to the screen.

☞ "Correcting manually" p.41

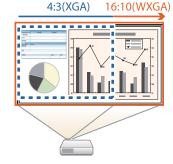


Useful Functions for Projecting Images

Increasing projection content in wide (WXGA) screen (EB-W22 only)

With a computer that has a 16:10 WXGA wide LCD display, the image can be projected in the same aspect. You can use whiteboards and other landscape format screens.

"Changing the Aspect Ratio of the Projected Image" p.47



Projector Features



Connect a USB storage device and project movies or images (PC Free)

- Only EB-X21/EB-S21/EB-X17/EB-S17 are supported.
- You can connect USB storage devices or digital cameras to the projector and project saved images.
- A wide range of file formats are supported such as movies or images.
- ☞ "Projecting Without a Computer (PC Free)" p.52

Various functions for excellent power saving

- Various functions to prevent wasting electricity The projector comes with a number of built-in functions to save power such as dimming the projected image, an auto power off timer, and adjusting power consumption while the projector is standing by.
 - ☞ "ECO Menu" p.99
- Function for displaying the power-saving status on the projected screen When ECO Display is set to **On** from the Configuration menu, leaf icons (*(*) that indicate the power-saving status are displayed at the bottomleft of the projected screen when the lamp brightness has switched to low brightness.
- ECO ECO Display p.99

Making the most of the remote control

You can use the remote control to perform operations such as enlarging part of the image. You can also use the remote control as a pointer during presentations or as a mouse for the computer.

- ☞ "Pointer Function (Pointer)" p.58
- ☞ "Enlarging Part of the Image (E-Zoom)" p.59
- ☞ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60

Enlarge and project your files with the Document Camera

You can project paper documents and objects using the optional Document Camera.

By connecting to a computer and using the software supplied, you can make full use of the projector's capabilities.

☞ "Optional Accessories" p.127

Enhanced security functions

- Password Protect to restrict and manage users
 - By setting a Password you can restrict who can use the projector.
 - ☞ "Managing Users (Password Protect)" p.65
- Control Panel Lock to restrict button operation on the control panel You can use this to prevent people changing projector settings without permission at events, in schools, and so on.
- ☞ "Restricting Operation (Control Panel Lock)" p.67
- Equipped with various anti-theft devices

The projector is equipped with the following types of anti-theft security devices.

- Security slot
- Security cable installation point
- "Anti-Theft Lock" p.69

Taking Full Advantage of a Network Connection

By connecting a LAN cable (EB-X25/EB-W22/EB-X22/EB-X20 only), or the optional Wireless LAN unit (EB-X21/EB-S21/EB-X17/EB-S17 only), you can connect to a network and access the following functions.

- ☞ "Installing the Wireless LAN Unit" p.31



Connecting to a network and projecting images from the computer's screen

You can project your computer's screen over a network by using EasyMP Network Projection. Sharing the projector over the network allows you to project data from different computers without changing the signal cable. Even if the projector is away from the computer, you can still project data over a network.

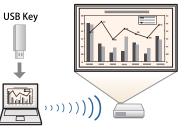


You can find Easy Network Projection on the EPSON Projector Software CD-ROM.

Easy connection to a computer with Quick Wireless Connection (Windows only)

By simply connecting the optional Quick Wireless Connection USB Key to a computer, you can automatically setup a wireless LAN connection.

 "Installing the Quick Wireless Connection USB Key" p.32



Projecting images from portable devices over a network

If "Epson iProjection" is installed on your smart phone or tablet device, you can wirelessly project data from the device. Because you can operate these devices from any location, you can vary the way in which conferences or presentations are made.



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

Projecting images from multiple computers simultaneously (EB-X25/EB-W22/EB-X22/EB-X20 only)

By using EasyMP Multi PC Projection, up to four screens from multiple computers connected to the network, or from smartphones or tablets with Epson iProjection installed, can be projected simultaneously adding a touch of dynamism to conferences that use projectors. By making yourself the host of a meeting, you can control the projected screens from other connected computers allowing you to advance the meeting smoothly.

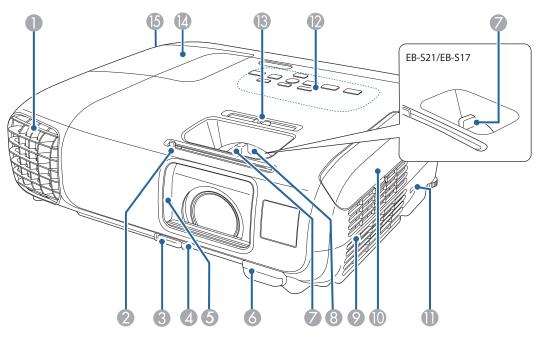
You can also project the same screen from remote projectors on the network.

You can find EasyMP Multi PC Projection on the EPSON Projector Software CD-ROM.



All of the features in this guide are explained using illustrations of EB-X21 unless otherwise mentioned.

Front/Top



	Name	Function	
0	Air exhaust vent	Exhaust vent for air used to cool the projector internally.	
		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 huma useming, or accidents to accur	
		cause burns, warping, or accidents to occur.	

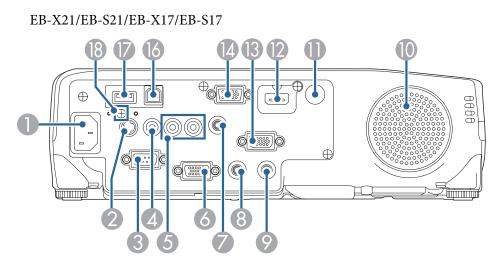


Name Function		Function
2	A/V mute slide knob	Slide the knob to open and close the A/V mute slide.
3	Foot adjust lever	Press the foot adjust lever to extend and retract the front adjustable foot. The "Adjusting the Image Position" p.45
4	Front adjustable foot	When setup on a surface such as a desk, extend the foot to adjust the position of the image. The Tradiusting the Image Position p.45
6	A/V mute slide	Close when not using the projector to protect the lens. By closing during projection you can hide the image and the sound. The "Hiding the Image and Sound Temporarily (A/V Mute)" p.57
6	Remote receiver	Receives signals from the remote control.
0	Focus ring	Adjusts the image focus. Correcting the Focus" p.45
8	Zoom ring (EB-X25/EB-W22/EB- X22/EB-X21/EB-X20/ EB-X17 only)	Adjusts the image size. The size "Adjusting the Image Size" p.44
9	Air intake vent (air filter)	Takes in air to cool the projector internally.
0	Air filter cover	Opens and closes the air filter cover. The sequence of the second secon
0	Security slot	The security slot is compatible with the Microsaver Security System manufactured by Kensington. Theft Lock" p.69
12	Control panel	Operates the projector. Control Panel" p.15
B	Horizontal keystone adjuster	Corrects horizontal distortion in the projected image. Correcting manually" p.41

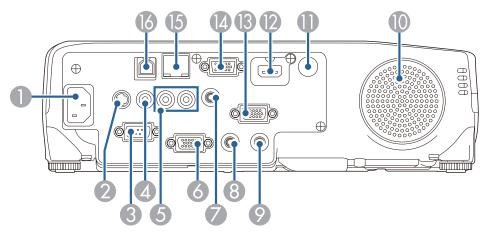
	Name	Function
(4	Lamp cover	Open when replacing the projector's lamp. Treplacing the Lamp" p.121
15	Lamp Cover Fixing Screw	Screw to fix the lamp cover in place.



Rear



EB-X25/EB-W22/EB-X22/EB-X20



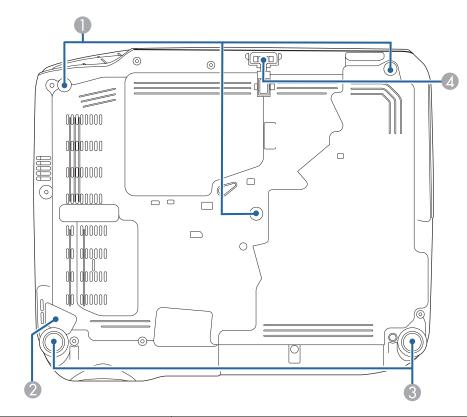
The ports vary depending on the model being used.

Name Function		Function	
0	Power inlet	Connects the power cord to the projector. Trom Installation to Projection" p.34	
2	S-Video port	For S-video signals from video sources.	
8	RS-232C port	When controlling the device from a computer, connect it to the computer with an RS-232C cable. This port is for control use and should not normally be used. The "ESC/VP21 Commands" p.73	
4	Video port	Inputs composite video signals from video sources.	
5	Audio-L/R port	Inputs audio from equipment connected to the S-Video port or the Video port.	
6	Monitor Out port	Outputs analog RGB signals input from the Computer1 port to an external monitor. You cannot output signals input from other ports or component video signals.	
7	Audio1 port	Inputs audio from equipment connected to the Computer1 port.	
8	Audio Output port	Outputs audio from the currently projected image to an external speaker.	
9	Audio2 port	Inputs audio from equipment connected to the Computer2 port.	
10	Speaker	Outputs audio.	
0	Remote receiver	Receives signals from the remote control.	
12	HDMI port	Inputs video signals from HDMI compatible video equipment and computers. This projector is compatible with <u>HDCP</u> . Connecting Image Sources" p.26	
ß	Computer2 port	Inputs image signals from a computer and component	
14	Computer1 port	video signals from other video sources.	



	Name	Function
(5	LAN port (EB-X25/EB- W22/EB-X22/EB-X20 only)	Connects a LAN cable to connect to a network.
6	USB-B port	 Connects the projector to a computer using a USB cable, and projects the images on the computer. Projecting with USB Display" p.36 Connects the projector to a computer using a USB cable to use the Wireless Mouse function. "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60
	USB-A port (EB-X21/ EB-S21/EB-X17/EB- S17 only)	 Connects a USB memory device or a digital camera, and projects images using PC Free. Projecting Without a Computer (PC Free)" p.52 Connects the optional Document Camera. Connects the optional Wireless LAN unit. "Installing the Wireless LAN Unit" p.31 Connects the optional Quick Wireless Connection USB Key. "Installing the Quick Wireless Connection USB Key" p.32
13	Wireless LAN unit fixing screw (EB-X21/ EB-S21/EB-X17/EB- S17 only)	This screw secures the wireless LAN unit cover.

Base

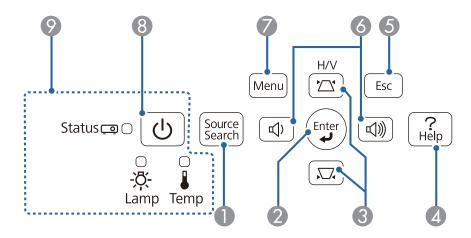


Name		Function
0	Ceiling mount fixing points (three points)	Attach the optional Ceiling Mount here when suspending the projector from a ceiling. Tinstalling the Projector" p.22 Toptional Accessories" p.127
2	Security cable installation point	Pass a commercially available wire lock through here and lock it in place. The "Installing the wire lock" p.69

TOP		
OP	88	
	OP	

Name		Function	
3	Rear feet	 When setup on a surface such as a desk, turn to extend and retract to adjust the horizontal tilt. " "Adjusting the Horizontal Tilt" p.45 	
4	Front adjustable foot	When setup on a surface such as a desk, extend the foot to adjust the position of the image. "Adjusting the Image Position" p.45	

Control Panel

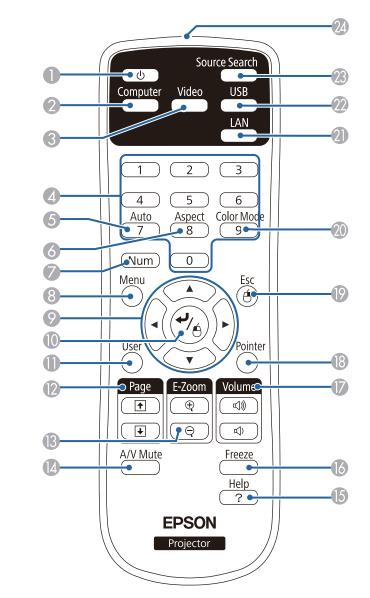


Name		Function	
0	[Source Search] button	Changes to the next input source that is sending an image. The "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.35	
2	[Enter] button [◀]	 When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position. 	
3	[깜][♫] buttons	 Displays the Keystone screen allowing you to correct keystone distortion in vertical and horizontal directions. Correcting manually" p.41 If pressed when the Configuration menu or the Help screen is displayed, these buttons select menu items and setting values. "Using the Configuration Menu" p.82 "Using the Help" p.103 	



Name		Function	
4	[Help] button	Displays and closes the Help screen which shows you how to deal with problems if they occur. Tusing the Help" p.103	
6	[Esc] button	• Stops the current function.	
		 If pressed when the Configuration menu is displayed, it moves to the previous menu level. "Using the Configuration Menu" p.82 	
0	[석][네》] buttons or [Wide][Tele] buttons		
0	[Menu] button	Displays and closes the Configuration menu. Tusing the Configuration Menu" p.82	
8	Power button [也]	Turns the projector power on or off. Turns the projector power on or off.	
9	Indicators	Indicates the projector's status. Treading the Indicators" p.104	

Remote Control





Name		Function	
0	Power button [එ]	Turns the projector power on or off. Turns the projector power on or off.	
2	[Computer] button	n Each time you press the button, the input changes between images from the Computer1 port and the Computer2 port.	
3	[Video] button	Each time the button is pressed, the image cycles through the S-Video, Video, and HDMI ports.	
4	Numeric buttons	Enter the Password. The "Setting Password Protect" p.65	
5	[Auto] button	If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.	
6	[Aspect] button	Each time the button is pressed, the aspect mode changes. Changing the Aspect Ratio of the Projected Image" p.47	
0	[Num] button	Hold down this button and press the numeric buttons to enter passwords and numbers. The "Setting Password Protect" p.65	
8	[Menu] button	Displays and closes the Configuration menu. Tusing the Configuration Menu" p.82	
0	[]]]] []] []] buttons	 When the Configuration menu or the Help screen is displayed, pressing these buttons selects menu items and setting values. "Using the Configuration Menu" p.82 When projecting using PC Free, pressing these buttons displays the previous/next image, rotates the image, and so on. "PC Free operating methods" p.53 During Wireless Mouse function, the mouse pointer moves in the direction of the button that was pushed. "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 	

Name		Function	
	[≁] button	 When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. "Using the Configuration Menu" p.82 Acts as a mouse's left button when using the Wireless Mouse function. "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 	
0	[User] button	Select any frequently used item from the five available Configuration menu items, and assign it to this button. By pressing the [User] button, the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments. Tettings Menu" p.88 Power Consumption is assigned as the default setting.	
	[Page] buttons [ᡣ][♥]	 Changes pages in files such as PowerPoint files when using the following projection methods. When using the Wireless Mouse function "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 When using USB Display "Projecting with USB Display" p.36 When using Network connection When projecting images using PC Free, pressing these buttons displays the previous/next screen.	
(3)	[E-Zoom] buttons [⊕][©]	Enlarges or reduces the image without changing the projection size. The "Enlarging Part of the Image (E-Zoom)" p.59	



Name		Function	
(2)	[A/V Mute] button	 Turns the video and audio on or off. Turns the video and audio on or off. "Hiding the Image and Sound Temporarily (A/V Mute)" p.57 You can change the Projection mode as follows by pressing the button for about five seconds. Front↔Front/Ceiling Rear↔Rear/Ceiling 	
(5	[Help] button	Displays and closes the Help screen which shows you how to deal with problems if they occur. Turner "Using the Help" p.103	
16	[Freeze] button	Images are paused or unpaused. Treezing the Image (Freeze)" p.58	
0	[Volume] buttons [句][데》]	 [♥] Decreases the volume. [♥] Increases the volume. ♥ "Adjusting the Volume" p.46 	
18	[Pointer] button	Displays the on-screen pointer. The "Pointer Function (Pointer)" p.58	
	[Esc] button	 Stops the current function. If pressed when the Configuration menu is displayed, it moves to the previous level. "Using the Configuration Menu" p.82 Acts as a mouse's right button when using the Wireless Mouse function. "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 	
20	[Color Mode] button	Each time the button is pressed, the Color Mode changes. © "Selecting the Projection Quality (Selecting Color Mode)" p.46	
2	[LAN] button	Switches to the image from the network connected device.	

Name		Function
22	[USB] button	Each time the button is pressed, it cycles through the following images:USB DisplayImages from the device connected to the USB-A port
23	[Source Search] button	Changes to the next input source that is sending an image. TAutomatically Detect Input Signals and Change the Projected Image (Source Search)" p.35
24	Remote control light- emitting area	Outputs remote control signals.



19

Replacing the remote control batteries

If delays in the responsiveness of the remote control occur or if it does not operate after it has been used for some time, it probably means that the batteries are becoming flat. When this happens, replace them with new batteries. Have two AA size manganese or alkaline batteries ready. You cannot use other batteries except for the AA size manganese or alkaline.

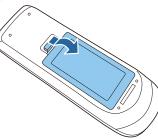
Attention

Make sure you read the following manual before handling the batteries.

Safety Instructions

Remove the battery cover.

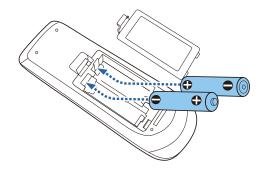
While pushing the battery compartment cover catch, lift the cover up.





1

Replace the old batteries with new batteries.



🕂 Caution

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.



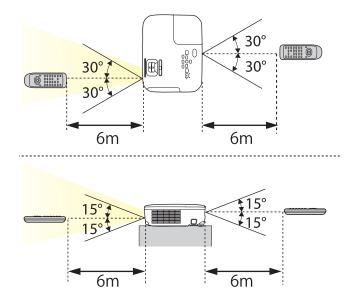
Replace the battery cover.

Press the battery compartment cover until it clicks into place.





Remote control operating range





Preparing the Projector

This chapter explains how to install the projector and connect projection sources.

Installing the Projector



22

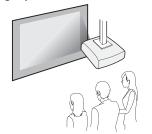
Installation Methods

The projector supports the following four different projection methods. Install the projector according to the conditions of the installation location.

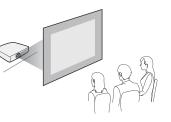
• Project images from in front of the screen. (Front projection)



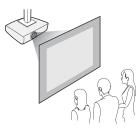
• Suspend the projector from the ceiling and project images from in front of a screen. (Front/Ceiling projection)



• Project images from behind a translucent screen. (Rear projection)



• Suspend the projector from the ceiling and project images from behind a translucent screen. (Rear/Ceiling projection)



🔥 Warning

- A special method of installation is required when suspending the projector from a ceiling (ceiling mount). If it is not installed correctly, it could fall causing an accident and injury.
- If you use adhesives on the Ceiling mount fixing points to prevent the screws from loosening, or if you use things such as lubricants or oils 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.

When installing or adjusting the ceiling mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants and so on.

• Do not cover the projector's air intake vent or air exhaust vent. If either of the vents are covered, the internal temperature could rise and cause a fire.

Attention

Do not use the projector on its side. This may cause malfunctions to occur.



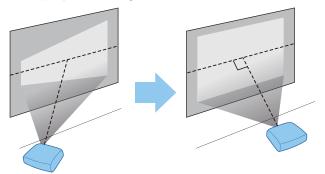
- An optional Ceiling mount is required when suspending the projector from a ceiling.
 - Optional Accessories" p.127
- The default Projection setting is **Front**. You can change from **Front** to **Rear** from the Configuration menu.
 - Extended Projection p.89
- You can change the Projection mode as follows by pressing down the [A/V Mute] button on the remote control for about five seconds.
 Front↔Front/Ceiling Rear↔Rear/Ceiling

Installing the Projector

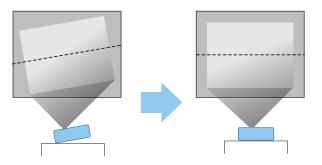
Installation methods

Install the projector as follows.

• Install the projector so that it is parallel to the screen. If the projector is installed at an angle to the screen, keystone distortion occurs in the projected image.



• Place the projector on a level surface. If the projector is tilted the projected image is also tilted.



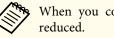
• See the following if you cannot install the projector parallel to the screen.

- Correcting Keystone Distortion" p.40
- See the following if you cannot install the projector on a level surface.
 - "Adjusting the Horizontal Tilt" p.45
 - Correcting Keystone Distortion" p.40

Screen Size and Approximate Projection Distance

Projection size is determined by the distance from the projector to the screen. See the illustrations on the right to select the best position according to the screen size. The illustrations show the approximate shortest distance at maximum zoom. See the following for more information on the projection distance.

☞ "Screen Size and Projection Distance" p.128

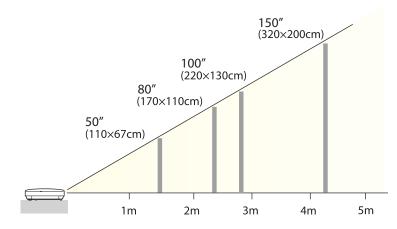


When you correct keystone distortion, the projected image may be

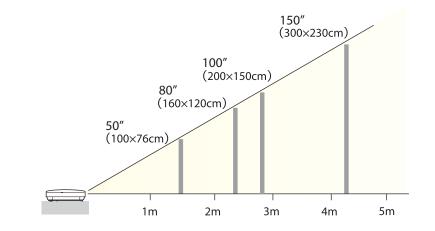
TOP

16:10 Screen Size

For EB-W22

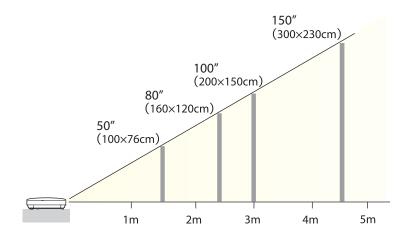


For EB-X25



4:3 Screen Size

For EB-X22/EB-X21/EB-S21/EB-X20/EB-X17/EB-S17



TOP



Illustrations in this section are of EB-X21.

The port name, number, location, and connector orientation differ depending on the source being connected.

Connecting a Computer

To project images from a computer, connect the computer using one of the following methods.

When using the supplied computer cable

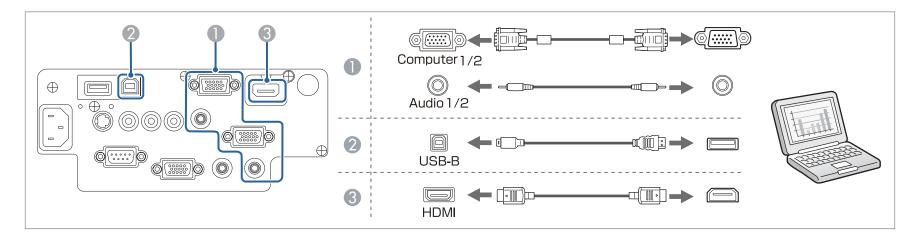
Connect the computer's display output port to the projector's Computer port. You can output audio from the projector's speaker by connecting the computer's audio output port to the projector's Audio1 or Audio2 port using a commercially available audio cable.

When using the supplied or commercially available USB cable

Connect the computer's USB port to the projector's USB-B port. You can send the computer's audio with the projected image.

(3) When using a commercially available HDMI cable

Connect the computer's HDMI port to the projector's HDMI port. You can send the computer's audio with the projected image.



• You can change the audio input source in Audio Output.

Extended - A/V Settings - Audio Output p.89

• You can use a USB cable to connect the projector to a computer to project images from the computer. This function is called USB Display.

☞ "Projecting with USB Display" p.36



Connecting Image Sources

To project images from DVD players or VHS video and so on, connect to the projector using one of the following methods.

(1) When using a commercially available video or S-video cable

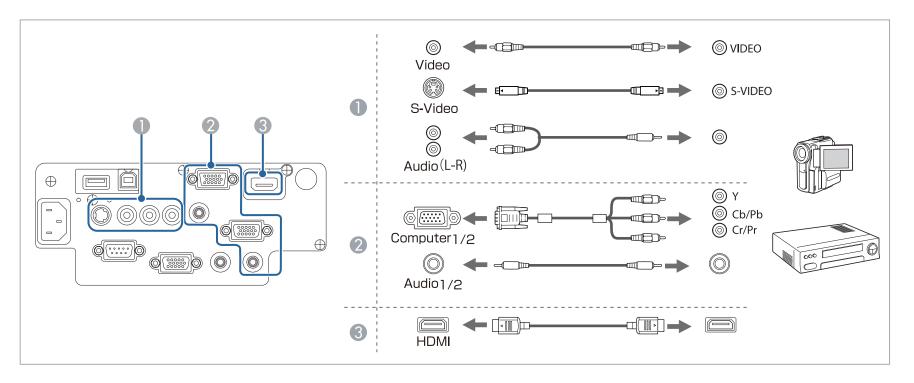
Connect the video output port on the image source to the projector's Video port. Or, connect the S-video output port on the image source to the projector's S-Video port. You can output audio from the projector's speaker by connecting the audio output port on the image source to the projector's Audio-L/R port using a commercially available audio cable.

- **When using the optional component video cable**
 - Optional Accessories" p.127

Connect the component output port on the image source to the projector's Computer input port. You can output audio from the projector's speaker by connecting the audio output port on the image source to the projector's Audio1 or Audio2 port using a commercially available audio cable.

3 When using a commercially available HDMI cable

Connect the HDMI port on the image source to the projector's HDMI port. You can send the image source's audio with the projected image.





Attention

If the orientation or shape of the plug differs, do not try to force it in. The device could be damaged or could malfunction.

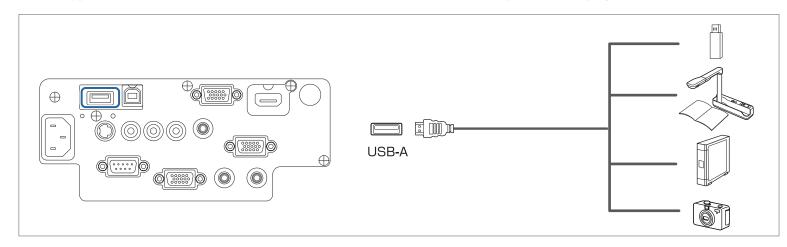
- You can change the audio input source in Audio Output.
 - Extended A/V Settings Audio Output p.89
 - If the source you want to connect to has an unusually shaped port, use the cable supplied with the device or an optional cable to connect to the projectors.
 - When using a commercially available 2RCA(L/R)/stereo mini-pin audio cable, make sure it is labeled "No resistance".

Connecting USB Devices

Only EB-X21/EB-S21/EB-X17/EB-S17 are supported.

You can connect devices such as USB memory, the optional Document Camera, and USB compatible hard disks and digital cameras.

Using the USB cable supplied with the USB device, connect the USB device to the USB-A port on the projector.



When the USB device is connected, you can project image files on the USB memory or digital camera using PC Free.

☞ "PC Free examples" p.52



Attention

- If you use a USB hub, the connection may not operate correctly. Devices such as digital cameras and USB devices should be connected to the projector directly.
- When connecting and using a USB-compatible hard disk, make sure you connect the AC adaptor supplied with the hard disk.
- Connect a digital camera or hard disk to the projector using the USB cable provided with the device.
- Use a USB cable less than three meters in length. If the cable exceeds three meters, PC Free may not function correctly.

Removing USB devices

After finishing projecting, remove USB devices from the projector. For devices such as digital cameras or hard disks, turn off the device and then remove it from the projector.

Connecting External Equipment

You can output images and audio by connecting an external monitor or speaker.

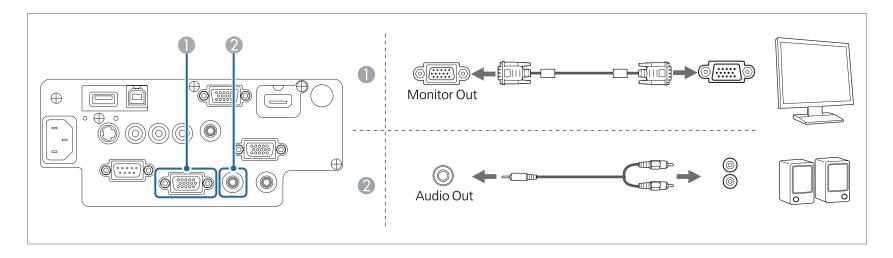
() When outputting images to an external monitor

Connect the external monitor to the projector's Monitor Out port using the cable supplied with the external monitor.

When outputting audio to an external speaker

Connect the external speaker to the projector's Audio Out port using a commercially available audio cable.





• If you set Standby Mode to Communication On, you can perform the following operations even if the projector is off.

- Outputting images to an external monitor (only when A/V Output is set to Always On).
- Outputting audio from an externally connected speaker (audio from USB or LAN cannot be output).
- ECO Standby Mode p.99
- Extended A/V Settings p.89
- Only analog RGB signals from the Computer1 port can be output to an external monitor. You cannot output signals input from other ports or component video signals.
- Setting gauges for functions such as Keystone, Configuration Menu, or Help screens are not output to the external monitor.
- When the audio cable jack is inserted into the Audio Out port, audio stops being output from the projector's built-in speakers and switches to external output.

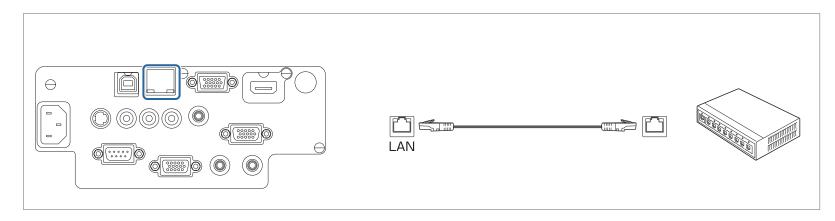


Connecting a LAN Cable

Only EB-X25/EB-W22/EB-X22/EB-X20 are supported.

Connect a LAN port on network hubs or other equipment to the projector's LAN port with a commercially available 100BASE-TX or 10BASE-T LAN cable.

By connecting a computer to the projector over a network, you can project images and check the status of the projector.





To prevent malfunctions, use a category 5 or higher shielded LAN cable.

Connecting Equipment

1



Installing the Wireless LAN Unit

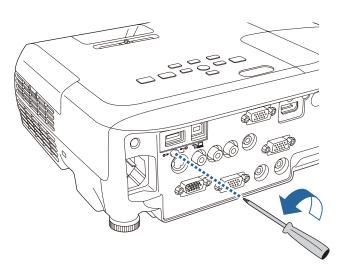
Only EB-X21/EB-S21/EB-X17/EB-S17 are supported.

By installing the optional Wireless LAN unit, you can project a computer screen over a network.

Connect the wireless LAN unit to the projector's USB-A port.

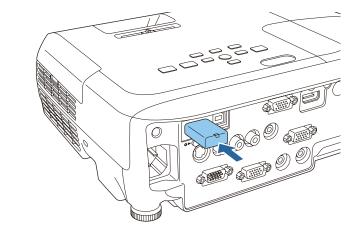
- When connecting to the network using wireless LAN, make sure you make network settings from the Configuration menu.
 - ☞ "Wireless LAN menu (EB-X21/EB-S21/EB-X17/EB-S17 only)" p.93
 - If you normally leave the wireless LAN unit installed, make sure you attach the supplied wireless LAN unit cover as a theft deterrent.
 - When moving the projector, make sure you remove the wireless LAN unit and cover for safety reasons.

Use a cross-head screwdriver to remove the screw that secures the wireless LAN unit cover.

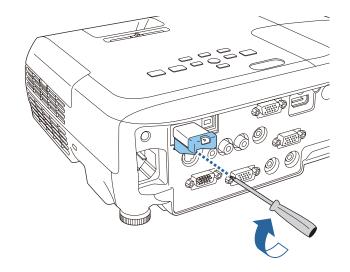


2

Connect the wireless LAN unit to the USB-A port.



- 3
- Attach the wireless LAN unit cover, and secure it in place with the screw.



Connecting Equipment

Installing the Quick Wireless Connection USB Key

When installing the optional Quick Wireless Connection USB Key, you need to remove the Wireless LAN unit first, and then connect the Quick Wireless Connection USB Key to the USB-A port.

1

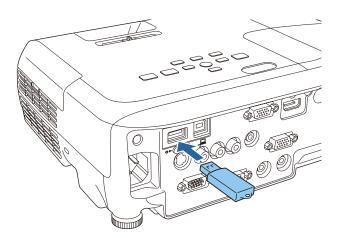
5

Turn on the projector, and then press the [LAN] button on the remote control.

The LAN standby screen is displayed.

2 Check that the SSID and IP address information are displayed on the LAN standby screen, and then remove the Wireless LAN unit.

3 Connect the Quick Wireless Connection USB Key to the USB-A port.



When the message "Network information update complete. Remove the Quick Wireless Connection USB Key Adapter." is displayed, remove the Quick Wireless Connection USB Key.



Connect the Quick Wireless Connection USB Key to the computer you are using.

For the steps from here on, see the User's Guide supplied with the Quick Wireless Connection USB Key.



Basic Usage

This chapter explains how to project and adjust images.

Projecting Images

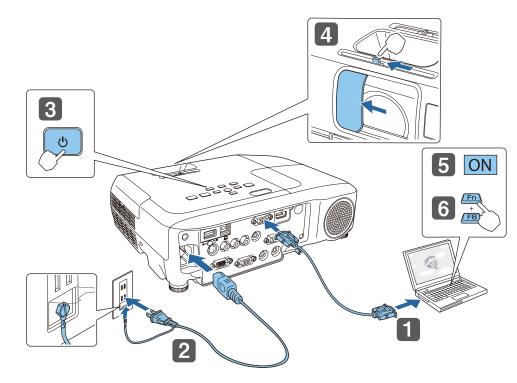


From Installation to Projection

This section explains the procedure for connecting the projector to a computer with the computer cable and projecting images.

Attention

Be sure to connect the cable of the source to the projector first, and then connect the power cord to the projector.





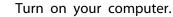
Connect the projector to the computer with the computer cable.

Connect the projector to an electrical outlet with the power cord.



Turn on the projector.

Open the A/V mute slide.



6

Change the computer's screen output.

When using a laptop computer, you need to change the screen output from the computer.

Hold down the Fn key (function key), and press the \exists/\Box key.

- The method for changing differs depending on the computer being used. See the documentation supplied with the computer.
- When turning off the projector, press the [\emptyset] power button twice.

If the image is not projected, you can change the projected image using one of the following methods.

- Press the [Source Search] button on the control panel or the remote control.
- ☞ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.35
- Press the button for the target port on the remote control.
 - ☞ "Switching to the Target Image by Remote Control" p.36

After projecting the image, adjust the image if necessary.

- ☞ "Correcting the Focus" p.45

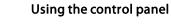
Projecting Images

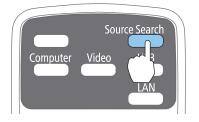


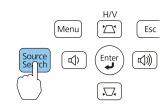
Automatically Detect Input Signals and Change the Projected Image (Source Search)

Press the [Source Search] button to project images from the port currently receiving an image.

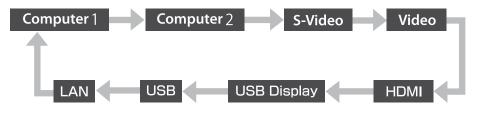
Using the remote control



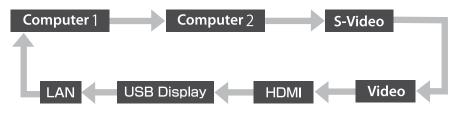




For EB-X21/EB-S21/EB-X17/EB-S17



For EB-X25/EB-W22/EB-X22/EB-X20



When two or more image sources are connected, press the [Source Search] button until the target image is projected.

When your video equipment is connected, start playback before beginning this operation.



The following screen is displayed while no image signals are input. Example: For EB-X21/EB-S21/EB-X17/EB-S17

I <mark>ng-→ Computer1</mark> Ing-→ Computer2	Off Off
I⊡ S-Video	Off
🖵 🗝 Video	Off
ED= HDMI	Off
🗖 🖦 🖛 USB Display	Off
III 🖅 — USB	Off
<u>((†)) 💻</u> LAN	Off

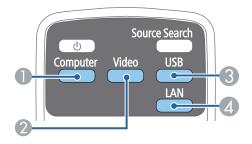


36

Switching to the Target Image by Remote Control

You can change directly to the target image by pressing the following buttons on the remote control.

Remote control



- Each time the button is pressed, it cycles through the images being input from the following sources.
 - Computer1
 - Computer2
- 2 Each time the button is pressed, it cycles through the images being input from the following sources.
 - S-Video port
 - Video port
 - HDMI port
- 3 Each time the button is pressed, it cycles through the images being input from the following sources.
 - USB Display
 - Images from the device connected to the USB-A port (EB-X21/EB-S21/EB-X17/EB-S17 only)
- Switches to the image from the network connected device.

Projecting with USB Display

You can use a USB cable to connect the projector to a computer to project images from the computer.

You can project images and send audio with one USB cable.

System requirements

For Windows

	i	
OS	Windows 2000*1	
	Windows XP*2	Professional 32bit
		Home Edition 32bit
		Tablet PC Edition 32bit
	Windows Vista	Ultimate 32bit
		Enterprise 32bit
		Business 32bit
		Home Premium 32bit
		Home Basic 32bit
	Windows 7	Ultimate 32/64bit
		Enterprise 32/64bit
		Professional 32/64bit
		Home Premium 32/64bit
		Home Basic 32bit
		Starter 32bit
	Windows 8	Windows 8 32/64 bit
		Windows 8 Pro 32/64 bit
		Windows 8 Enterprise 32/64 bit
CPU	Mobile Pentium II	I 1.2 GHz or faster
	Recommended: Pentium M 1.6 GHz or fa	
Amount of	256 MB or more	
Memory Recommended: 512 MB or more		2 MB or more

Projecting Images



Hard Disk Space	20 MB or more
Display	Resolution of no less than 640x480 and no higher than 1600x1200. Display color in 16-bit color or greater

*1 Service Pack 4 only

*2 Except for Service Pack 1

For Mac OS

OS	Mac OS X 10.5.x 32 bit
	Mac OS X 10.6.x 32/64 bit
	Mac OS X 10.7.x 32/64 bit
	Mac OS X 10.8.x 32/64 bit
CPU	Power PC G4 1GHz or faster
	Recommended: Core Duo 1.83GHz or faster
Amount of Memory	512 MB or more
Hard Disk	20 MB or more
Space	
Display	Resolution of no less than 640x480 and no higher than 1680x1200.
	Display color in 16-bit color or greater

Connecting for the first time

The first time you connect the projector and the computer using the USB cable, the driver needs to be installed. The procedure is different for Windows and Mac OS.



- You do not need to install the driver the next time you connect.
- When inputting images from multiple sources, change the input source to USB Display.
- If you use a USB hub, the connection may not operate correctly. Connect the USB cable directly to the projector.
- You cannot change option settings while using USB Display.

For Windows



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



For Windows 2000 or Windows XP, a message asking you if you want to restart your computer may be displayed. Select No.

For Windows 2000

Double-click **Computer**, **EPSON PJ_UD**, and then **EMP_UDSE.EXE**.

For Windows XP

Driver installation starts automatically.

For Windows Vista/Windows 7/Windows 8

When the dialog box is displayed, click Run EMP_UDSE.exe.



When the License Agreement screen is displayed, click Agree.

3

4

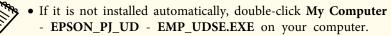


Computer images are projected.

It may take a while before computer images are projected. Until computer images are projected, leave the equipment as it is and do not disconnect the USB cable or turn off the power to the projector.

Disconnect the USB cable when you finish projection.

When disconnecting the USB cable, there is no need to use Safely Remove Hardware.



- If nothing is projected for some reason, click All Programs -EPSON Projector - Epson USB Display - Epson USB Display Vx.xx on your computer.
- When using a computer running Windows 2000 under user authority, a Windows error message is displayed and you may not be able to use the software. In this case, try updating Windows to the latest version, restart, and then try to connect again.

For more details, contact your local dealer or the nearest address provided in the following document.

Epson Projector Contact List

For Mac OS

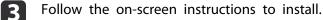


Connect the computer's USB port to the projector's USB-B port using a USB cable.

The Setup folder of USB Display is displayed in the Finder.



Double-click the USB Display Installer icon.



When the License Agreement screen is displayed, click Agree. Enter the administrator authority password and start the installation. When the installation is complete, the USB Display icon is displayed in the Dock and menu bar.

Computer images are projected. 5

It may take a while before computer images are projected. Until computer images are projected, leave the equipment as it is and do not disconnect the USB cable or turn off the power to the projector.

6

When you finish projection, select **Disconnect** from the USB Display icon menu on the menu bar or Dock, and then remove the USB cable.

• If the USB Display setup folder is not displayed automatically in the Finder, double-click EPSON PJ_UD - USB Display Installer on your computer.

- If nothing is projected for some reason, click the USB Display icon in the Dock.
- If there is no USB Display icon in the Dock, double-click USB Display from the Applications folder.
- If you select Exit from the USB Display icon menu on the Dock, USB Display does not start automatically when you connect the USB cable.

Projecting Images

Uninstalling

For Windows 2000

- 1 Clic
 - Click Start, select Settings, and then click Control Panel.
- 2 Double-click Add/Remove Programs.
- **3** Click Change or Remove Programs.
- 4
- Select Epson USB Display and click Change/Remove.

For Windows XP



- Click Start, and then click Control Panel.
- Double-click Add or Remove Programs.
- **3** Select **Epson USB Display** and click **Remove**.

For Windows Vista/Windows 7



- Click Start, and then click Control Panel.
- Click Uninstall a program under Programs.
- **3** Select **Epson USB Display** and click **Uninstall**.

For Windows 8



- Open Charms, and then select **Search**. Right-click (press and hold) **Epson USB Display Ver.XXX**.
- 2

3

- Select **Uninstall** from the app bar.
- Select Epson USB Display, and then select Uninstall.



Follow the on-screen instructions to uninstall.

For Mac OS



Open the **Applications** folder, double-click **USB Display**, and then double-click **Tool**.



Run USB Display UnInstaller.

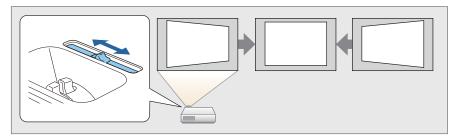
Adjusting Projected Images

TOP

Correcting Keystone Distortion

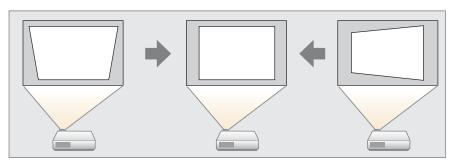
You can correct keystone distortion using one of the following methods.

- Correcting automatically (Auto V-Keystone) Automatically corrects vertical keystone distortion.
- Correcting manually (H-Keystone Adjuster) Manually corrects horizontal keystone distortion using the horizontal keystone adjuster.

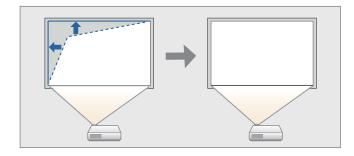


• Correcting manually (H/V-Keystone)

Manually correct distortion in the horizontal and vertical directions independently.



• Correcting manually (Quick Corner) Manually correct the four corners independently.





When you correct keystone distortion, the projected image may be reduced.

Correcting automatically

Auto V-Keystone

When the projector detects any movement, for example when it is installed, moved, or tilted, it automatically corrects vertical keystone distortion. This function is called Auto V-Keystone.

When the projector remains still for about two seconds after it detects movement, it displays a screen for adjustment and then automatically corrects the projected image.

You can use Auto V-Keystone to correct the projected image under the following conditions.

Correction angle: approx. 30° up and down

• Auto V-Keystone works only when Projection is set to Front from the Configuration menu.

Extended - Projection p.89

• If you do not want to enable Auto V-Keystone, set Auto V-Keystone to Off.

✓ Settings - Keystone - H/V-Keystone - Auto V-Keystone p.88

Correcting manually

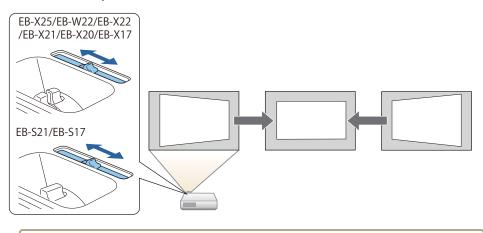
You can manually correct keystone distortion.

You can use H/V-Keystone to correct the projected image under the following conditions.

Correction angle: approx. 30° right and left/approx. 30° up and down

H-Keystone Adjuster

Move the horizontal keystone adjuster to the right or left to perform horizontal keystone correction.



• When using horizontal keystone adjuster, set H-Keystone Adjuster to On.

✓ Settings - Keystone - H/V-Keystone - H-Keystone Adjuster p.88

• You can also correct keystone distortion in the horizontal direction using H/V-Keystone.



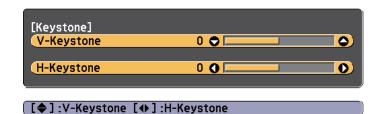
H/V-Keystone

Manually correct distortion in the horizontal and vertical directions independently.

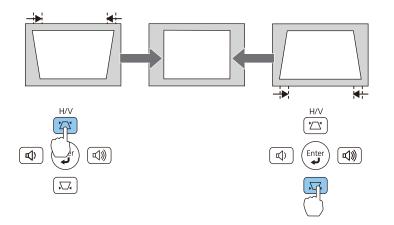


2

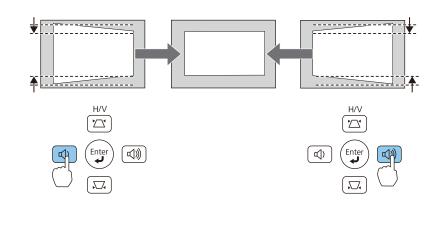
Press the $[\square]$ or $[\square]$ button on the control panel during projection to display the Keystone screen.



Press the following buttons to correct keystone distortion. Press the $[\square]$ or $[\square]$ button to correct vertical distortion.



Press the $[\Phi]/[\Phi]$ buttons or the [Wide]/[Tele] buttons to correct horizontal distortion.



You can also set H/V-Keystone from the Configuration menu. Settings - Keystone - H/V-Keystone p.88

Quick Corner

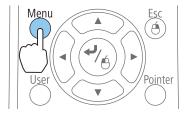
This allows you to manually correct each of the four corners of the projected image separately.

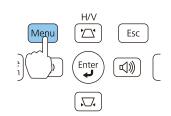


Press the [Menu] button while projecting.

Using the remote control

Using the control panel

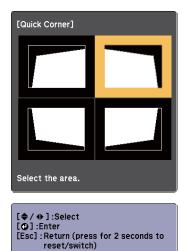






Select Keystone from Settings.

Image			Return	
Intege		Keystone	OH/V-Keystone	
Signal		Zoom		
Settings	0	Control Panel Lock Pointer Shape	Full Lock Pointer 1	
occurigo		Volume	0	
Extended		Remote Receiver	Front/Rear	
	- 1	User Button	Power Consum)	
Network		Pattern		
ECO		Reset		
Info				
Reset				
Neget				
[Esc] :Retu	ırn [🗢]:Select [🕒]:Ente	r [Menu]:E	Xi



3

Select Quick Corner, and then press the [+] button.

[Keystone]	Return
IH/V-Key Quick Co	
[Esc]:Return [�]:Select	[•]:Enter [Menu]:Exit

Using the [,], [], [], and [] buttons on the remote control, or the [], [], [], and [] buttons (or the [Wide]/[Tele] buttons) on the control panel, select the corner to correct, and then press the [] button. 88



5

Using the [], [], [], [], and [] buttons on the remote control, or the <math>[], [], [], and [] buttons (or the [Wide]/[Tele] buttons) on the control panel, correct the position of the corner.

When you press the $[\checkmark]$ button, the screen shown in step 4 is displayed.

If the message "Cannot adjust any further." is displayed while adjusting, you cannot adjust the shape any further in the direction indicated by the gray triangle.



[\$/•	•1:A	djust	
[Esc]	/[@]	:Return	

- Repeat procedures 4 and 5 as needed to adjust any remaining corners.
- 7

6

When you are done, press the [Esc] button to exit the correction menu.

Because **Keystone** was changed to **Quick Corner**, the corner selection screen shown in step 4 is displayed the next time you press the $[\square]$ or $[\square]$ button on the control panel. Change **Keystone** to **H/V-Keystone** if you want to perform horizontal and vertical correction using the $[\square]$ or $[\square]$ button on the control panel.

☞ Settings - Keystone - H/V-Keystone p.88

If the [Esc] button is held dow the corner selection screen from following screen is displayed.	
[Keystone]	Return
Reset Quick Cornel Switch to H/V-Key:	
[Esc] /[❹] :Return [♦] :Select	[Menu]:Exit
Reset Quick Corner : Resets the corrections.	e result of Quick Corner
Switch to H/V-Keystone: Switc H/V-Keystone. ☞ "Settings Menu" p.88	hes the correction method to

Adjusting the Image Size

For EB-X25/EB-W22/EB-X22/EB-X21/EB-X20/EB-X17

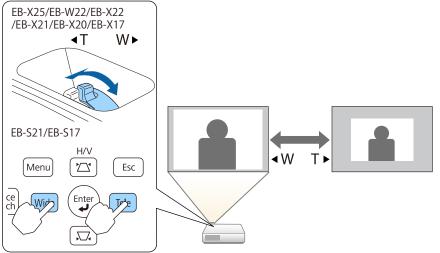
Turn the zoom ring to adjust the size of the projected image.

For EB-S21/EB-S17

Adjust by using the [Wide]/[Tele] buttons on the control panel.

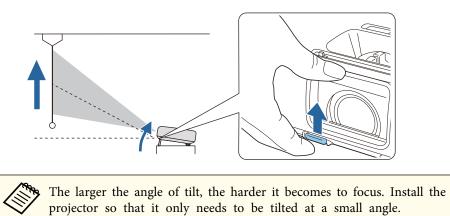
Wide: Enlarges the size of the projected image.

Tele: Reduces the size of the projected image.



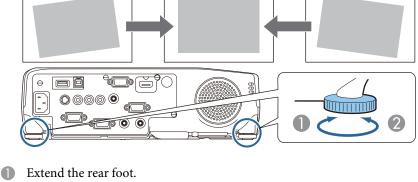
Adjusting the Image Position

Press the foot adjust lever to extend the front adjustable foot. You can adjust the position of the image by tilting the projector up to 12 degrees.



Extend and retract the rear feet to adjust the projector's horizontal tilt.

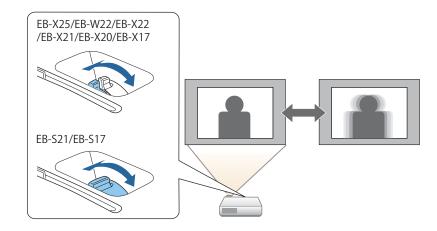
Adjusting the Horizontal Tilt



2 Retract the rear foot.

Correcting the Focus

You can correct the focus using the focus ring.





Adjusting the Volume

You can adjust the volume using one of the following methods.

- Press the [Volume] button on the control panel or the remote control to adjust the volume.
- $[\triangleleft]$ Decreases the volume.
- [⊲»] Increases the volume.

Using the remote control

↑

A/V Mute

Using the control panel (EB-X25/EB-W22/EB-X22/EB-X21/EB-X20/EB-X17 only) Menu H/V Esc

 ∇

Adjust the volume from the Configuration menu.
 Settings - Volume p.88

🕂 Caution

Do not start at high volume.

A sudden excessive volume may cause loss of hearing. Always lower the volume before powering off, so that you can power on and then gradually increase the volume.

Selecting the Projection Quality (Selecting Color Mode)

You can easily obtain the optimum image quality simply by selecting the setting that best corresponds to your surroundings when projecting. The brightness of the image varies depending on the mode selected.

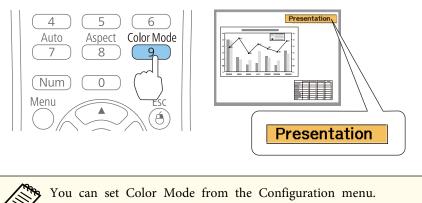
Mode	Application
Dynamic	Ideal for use in a bright room. This is the brightest mode, and reproduces shadow tones well.
Presentation	Ideal for making presentations using color materials in a bright room.
Theatre	Ideal for watching films in a dark room. Gives images a natural tone.
Photo*1	Ideal for projecting still pictures, such as photos, in a bright room. The images are vivid and brought into contrast.
Sports ^{*2}	Ideal for watching TV programmes in a bright room. The images are vivid and brought to life.
sRGB	Ideal for images that conform to the <u>sRGB</u> color standard.
Blackboard	Even if you are projecting onto a blackboard (greenboard), this setting gives your images a natural tint, just like when projecting onto a screen.
Whiteboard	Ideal for making presentations using a whiteboard.

- *1 This selection is only available when the input signal is RGB or when the source is USB Display or USB.
- *2 This selection is only available when the input signal is component video, or when the input source is Video or S-Video.

TOP

Each time you press the [Color Mode] button, the Color Mode name is displayed on the screen and the Color Mode changes.

Remote control



Setting Auto Iris

By automatically setting the luminance according to the brightness of the displayed image, it lets you enjoy deep and rich images.

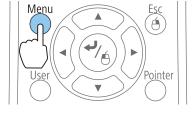


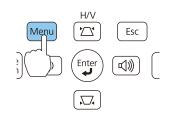
Press the [Menu] button.

☞ "Using the Configuration Menu" p.82

Using the remote control

Using the control panel







Select Auto Iris from Image.

Image	0	Return
Signal	Color Mode Brightness	Dynamic 0
Settings	Contrast Sharpness Abs. Color Temp.	0 0 5000 K
Extended	Color Adjustment	CO Off
Network	Reset	
ECO		
Info	j.	
Reset		

[Esc]:Return [�]:Select [@]:Enter



Select Normal or High Speed.

The setting is stored for each Color Mode.



When set to **High Speed**, the brightness of the image is adjusted as soon as the scene changes.

Press the [Menu] button to finish making settings.



Auto Iris can only be set when the **Color Mode** is **Dynamic** or **Theatre**.

[Menu]:Exit

Changing the Aspect Ratio of the Projected Image

You can change the <u>Aspect Ratio</u> of the projected image to suit the type, the ratio of height and width, and the resolution of the input signals.

Adjusting Projected Images

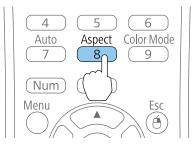


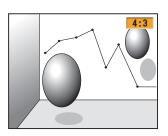
Available aspect modes vary depending on the image signal currently being projected.

Changing methods

Each time you press the [Aspect] button on the remote control, the aspect mode name is displayed on the screen and the aspect ratio changes.

Remote control





```
You can set the aspect ratio from the Configuration menu.

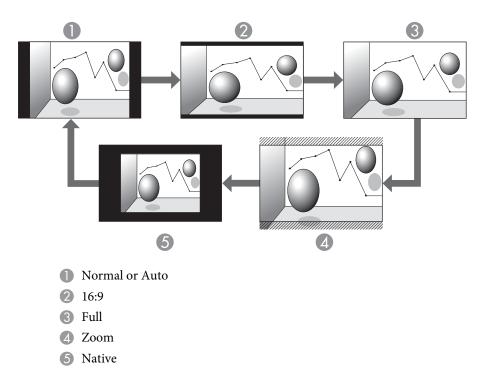
Signal - Aspect p.86
```

Changing the aspect mode

Projecting images from video equipment or from the HDMI port (for EB-W22)

Each time the [Aspect] button is pressed, the aspect mode changes in the order Normal or Auto, 16:9, Full, Zoom, and Native.

Example: 1080p signal input (resolution: 1920x1080, aspect ratio: 16:9)



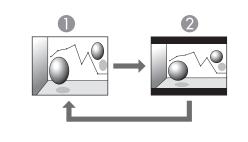
Projecting images from video equipment (for EB-X25/EB-X22/EB-X21/EB-S21/EB-X20/ EB-X17/EB-S17)

Each time the [Aspect] button is pressed, the aspect mode changes in the order 4:3 and 16:9.

When inputting a 720p/1080i signal and the aspect mode is set to 4:3, a 4:3 zoom is applied (the right and left sides of the image are cut off).

Example: 720p signal input (resolution: 1280x720, aspect ratio: 16:9)



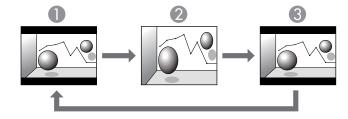


4:3
 16:9

Projecting images from the HDMI port (for EB-X25/EB-X22/EB-X21/EB-S21/EB-X20/EB-X17/EB-S17)

Each time the Aspect button is pressed, the aspect mode changes in the order Auto, 4:3, and 16:9.

Example: 1080p signal input (resolution: 1920x1080, aspect ratio: 16:9)



Auto

2 4:3

3 16:9

Projecting images from a computer

The following shows projection examples for each aspect mode.

For EB-W22

Aspect Mode	Input Signal		
	XGA 1024X768(4:3)	WXGA 1280X800(16:10)	
Normal			
16:9			
Full			
Zoom			
Native			

For EB-X25/EB-X22/EB-X21/EB-S21/EB-X20/EB-X17/EB-S17

Aspect Mode	Input Signal	
	XGA 1024X768(4:3)	WXGA 1280X800(16:10)
Normal 4:3		
16:9		

If parts of the image are missing, set the **Resolution** setting to **Wide** or **Normal** from the Configuration menu, according to the size of the computer panel.

☞ Signal - Resolution p.86

50



Useful Functions

This chapter explains useful tips for giving presentations, and the Security functions.

Projection Functions

Projecting Without a Computer (PC Free)

Only EB-X21/EB-S21/EB-X17/EB-S17 are supported.

By connecting a USB storage device such as a USB flash drives or a USB hard disk to the projector, you can project the files stored on the device without using a computer. This function is called PC Free.

- You may not be able to use USB storage devices that incorporate security functions.
 - You cannot correct keystone distortion while projecting in PC Free, even if you press the [22] and [52] buttons on the control panel.

Specifications for files that can be projected using PC Free

Туре	File Type (Ex- tension)	Notes
Image	.jpg	The following cannot be projected.
		- CMYK color mode formats
		- Progressive formats
		- Images with a resolution greater than 8192 x 8192
		Due to the characteristics of JPEG files, images may not be projected clearly if the compression ratio is too high.
	.bmp	Cannot project images with a resolution greater than 1280 x 800.
	.gif	 Cannot project images with a resolution greater than 1280 x 800. Cannot project animated GIFs.
	.png	Cannot project images with a resolution greater than 1280 x 800.

Туре	File Type (Ex- tension)	Notes
Movie	.avi	 Cannot project images with a resolution greater than 1280 x 720. The audio format can only playback linear PCM and ADPCM.

- When connecting and using a USB-compatible hard disk, make sure you connect the AC adaptor supplied with the hard disk.
- The projector does not support some file systems, so use media that has been formatted in Windows.
- Format the media in FAT16/32.

PC Free examples

Projecting images stored on USB storage



- ☞ "Projecting image files in a folder in sequence (Slideshow)" p.56

Projection Functions

PC Free operating methods

Although the following steps are explained based on the remote control, you can perform the same operations from the control panel.

Starting PC Free



- Change the source to USB.
- ☞ "Switching to the Target Image by Remote Control" p.36
- 2 Connect the USB storage device to the projector.
 - ☞ "Connecting USB Devices" p.27

PC Free starts and the file list screen is displayed.

- The following files are displayed as thumbnails (file contents are displayed as small images).
- JPEG files
- AVI files (displays the image at the start of the movie)
- Other files or folders are displayed as icons as shown in the following table.

lcon	File	lcon	File
JPEG	JPEG files*	ВМР	BMP files
GIF	GIF files	PNG	PNG files
AVI	AVI (Motion JPEG) files*		

* When it cannot be displayed as a thumbnail, it is displayed as an icon.

- You can also insert a memory card into a USB card reader and then connect the reader to the projector. However, some commercially available USB card readers may not be compatible with the projector.
- If the following screen (Select Drive screen) is displayed, press the [...], [...], [...], [...], [...] buttons to select the drive you want to use, and then press the [...] button.

PC Free					
USB 1	US8 2	USB 3	USB 4		

• To display the Select Drive screen, position the cursor on Select Drive at the top of the file list screen, and then press the [+] button.

TOP

Projecting images



2

Press the [], [], [], or [] buttons to select the file or folder you want to project.



If not all of the files and folders are displayed on the current screen, press the [I] button on the remote control, or position the cursor on **Next Page** at the bottom of the screen and press the $[\Huge{I}]$ button.

To return to the previous screen, press the $[\bullet]$ button on the remote control, or position the cursor on **Previous Page** at the top of the screen and press the $[\bullet]$ button.

Press the [+] button.

The selected image is displayed.

When a folder is selected, the files in the selected folder are displayed. To return to the previous screen, position the cursor on **Back to Top** and press the $[\checkmark]$ button.

Rotating images

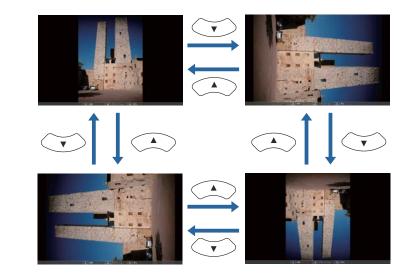
You can rotate the played images in 90° increments. The rotating function is also available during Slideshow.



Play images, or run Slideshow.



While projecting, press the [\bigcirc] or [\bigcirc] button.



Stopping PC Free

To close PC Free, disconnect the USB device from the USB port on the projector. For devices such as digital cameras or hard disks, turn off the device and then remove it from the projector.

Projecting the selected image

Attention

Do not disconnect the USB storage device while it is being accessed. PC Free may not operate correctly.



Start PC Free.

The file list screen is displayed.

- ☞ "Starting PC Free" p.53
- Press the [condots], [condots], [condots], and [box] buttons to select the image file you want to project.





Press the [+] button.

The image is displayed or the movie is played back.



4

Press the $[(\cdot)][(\cdot)]$ buttons to move to the next or previous image file.

- To finish projecting, perform one of the following operations.
- Projecting an image: Press the [Esc] button.
- Projecting a movie: Press the [Esc] button to display the message screen, select **Exit**, and then press the [+] button.

When projection is finished, you are returned to the file list screen.

Projection Functions



Projecting image files in a folder in sequence (Slideshow)

You can project the image files in a folder in sequence, one at a time. This function is called Slideshow. Use the following procedure to run Slideshow.



To change files automatically when you run Slideshow, set **Screen Switching Time** from **Option** in Slideshow to anything other than **No**. The default setting is 3 seconds.

☞ "Image file display settings and Slideshow operation settings" p.57

1 Start PC Free.

The file list screen is displayed.

- ☞ "Starting PC Free" p.53
- Press the [∞], [∞], [√], or [) buttons to position the cursor over the folder for the Slideshow that you want to run, and then press the [↓] button.
- 3

Select **Slideshow** at the bottom right of the file list screen, and then press the [+] button.

Slideshow starts, and the image files in the folder are automatically projected in sequence, one at a time.

When the last file is projected, the file list is displayed again automatically. If you set **Continuous Play** to **On** in the Option window, projection starts again from the beginning when it reaches the end.

"Image file display settings and Slideshow operation settings"
 p.57

You can proceed to the next screen, return to the previous screen, or stop playback while projecting a Slideshow.



If Screen Switching Time on the Option screen is set to No, files do not change automatically when you select Play Slideshow. Press the $[\bigcirc]$ button, the $[\checkmark]$ button, or the $[\boxdot]$ button to continue to the next file.

You can use the following functions when projecting a file with PC Free.

- Freeze
- ☞ "Freezing the Image (Freeze)" p.58
- A/V Mute
- ☞ "Hiding the Image and Sound Temporarily (A/V Mute)" p.57
- E-Zoom
- ☞ "Enlarging Part of the Image (E-Zoom)" p.59
- Pointer
- ☞ "Pointer Function (Pointer)" p.58

Projection Functions



You can set the file display order and Slideshow operations on the Option screen.



Select **Option** at the bottom of the file list screen, and then press the [+] button.

2

When the following Option screen is displayed, set each of the items.

Select any of the options as necessary and press the $[\checkmark]$ button. The following table shows the details for each item.



Display Order	You can select to display the files in Name Order or Date Order.
Sort Order	You can select to sort the files In Ascending or In Descending order.
Continuous Play	You can set whether to repeat the Slideshow.

ing Time Slideshow. You can set a time b		You can set the time for a single file to be displayed in Slideshow. You can set a time between No (0) to 60 Seconds. When you set Off , auto play is disabled.
	Effect	You can set the screen effects when changing slides.

3

When you have finished making settings, use the $[c_{2}]$, $[c_{2}]$, $[c_{3}]$,

or $[\begin{smallmatrix} b] buttons to position the cursor over$ **OK**, and then press the

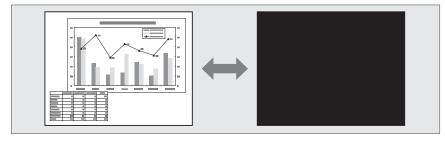
[◀] button.

The settings are applied.

If you do not want to apply the settings, position the cursor on **Cancel**, and then press the $[\checkmark]$ button.

Hiding the Image and Sound Temporarily (A/V Mute)

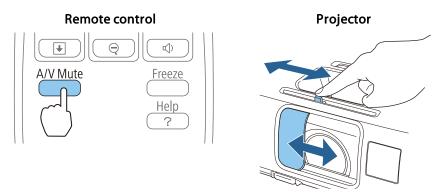
You can use this when you want to focus the audience's attention on what you are saying, or if you do not want to show details such as when you are changing between files during presentations from a computer.



57



Each time you press the [A/V Mute] button or open/close the lens cover, A/V Mute turns on or off.



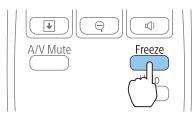
- When projecting moving images, the images and sound continue to be played back while A/V Mute is on. It is not possible to resume projection from the point where A/V Mute was activated.
 - You can select the screen displayed when the [A/V Mute] button is pressed from the Configuration menu.
 - Extended Display A/V Mute p.89
 - When A/V mute is enabled with the [A/V Mute] button, A/V Mute Timer activates and the power is automatically turned off after approximately 30 minutes. If you do not want to enable A/V Mute Timer, set A/V Mute Timer to Off.
 - ECO A/V Mute Timer p.99
 - When the A/V mute slide is closed for approximately 30 minutes, Lens Cover Timer activates and the power is automatically turned off. If you do not want Lens Cover Timer to activate, set **Lens Cover Timer** to **Off**.
 - ECO Lens Cover Timer p.99
 - The lamp is still lit during A/V Mute, so the lamp hours continue to accumulate.

Freezing the Image (Freeze)

When Freeze is activated on moving images, the frozen image continues to project on the screen, so you can project a moving image one frame at a time like a still photo. Also, you can perform operations such as changing between files during presentations from a computer without projecting any images if the Freeze function is activated beforehand.

Each time you press the [Freeze] button, Freeze turns on or off.

Remote control

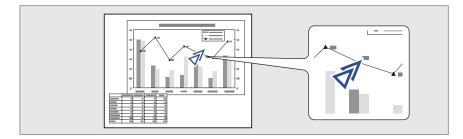


- 🔊 Audio does not stop.
- When projecting moving images, the images continue to be played back while the screen is frozen. It is not possible to resume projection from the point where the screen was frozen.
- If the [Freeze] button is pressed while the Configuration menu or the Help screen is displayed, the menu or the Help screen that is displayed is closed.
- Freeze still works while E-Zoom is being used.

Pointer Function (Pointer)

This allows you to move a Pointer icon on the projected image, and helps you draw attention to the area you are talking about.



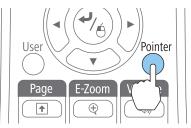




Display the Pointer.

Each time you press the [Pointer] button, the pointer appears or disappears.

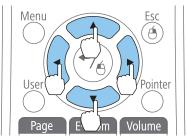
Remote control

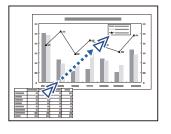




Move the Pointer icon (\checkmark).

Remote control





When any pair of adjacent [], [], [], or [] buttons are pressed at the same time, the pointer can be moved diagonally.

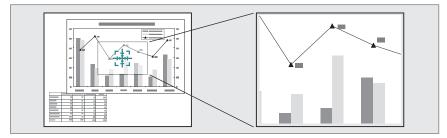


You can select the shape of the pointer icon from the Configuration menu.

Settings - Pointer Shape p.88

Enlarging Part of the Image (E-Zoom)

This is useful when you want to expand images to see them in greater detail, such as graphs and tables.

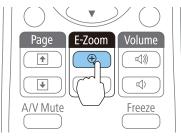




Start E-Zoom.

Press the $[\oplus]$ button to display the Cross $\left(\frac{r+1}{r+1}\right)$.

Remote control

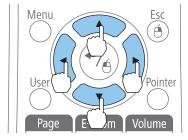


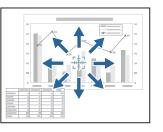


2

Move the Cross $\left(\frac{r+\frac{1}{2}}{L+\frac{1}{2}}\right)$ to the area of the image that you want to enlarge.

Remote control



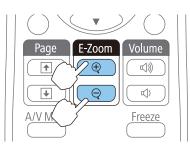


When any pair of adjacent $[\infty]$, $[\infty]$, [n], or [n] buttons are pressed at the same time, the pointer can be moved diagonally.

3

Enlarge.

Remote control



[①] button: Expands the area each time it is pressed. You can expand quickly by holding the button down.

 $[\heartsuit]$ button: Reduces images that have been enlarged.

[Esc] button: Cancels E-Zoom.

- The enlargement ratio appears on the screen. The selected area can be enlarged to between 1 to 4 times in 25 incremental steps.
- During enlarged projection, press the [], [], [], or
 - $[\cdot]$ buttons to scroll the image.

Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)

You can control the computer's mouse pointer from the projector's remote control. This function is called Wireless Mouse.

The following operating systems are compatible with Wireless Mouse.

	Windows	Mac OS
OS	Windows 2000	Mac OS X 10.3.x
	Windows XP	Mac OS X 10.4.x
	Windows Vista	Mac OS X 10.5.x
	Windows 7	Mac OS X 10.6.x
	Windows 8	Mac OS X 10.7.x
		Mac OS X 10.8.x

* It may not be possible to use the Wireless Mouse function under some versions of the operating systems.

Use the following procedure to enable the Wireless Mouse function.

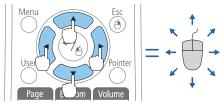
Connect the projector to the computer with the USB cable.

- ☞ "Connecting a Computer" p.25
- Change the source to one of the following.
 - USB Display
 - Computer
 - HDMI
 - ☞ "Switching to the Target Image by Remote Control" p.36

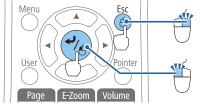


Once set, the mouse pointer can be controlled as follows.

Moving the mouse pointer



Mouse clicks



[◀] button: Left click. Press quickly twice to double-click.

 $[\bigcirc] [\bigcirc] [(\widehat{\cdot})] [(\widehat{\cdot})]$ buttons:

Moves the mouse pointer.

[Esc] button: Right click.



• When any pair of adjacent [, [,], [,], or []] buttons are pressed at the same time, the pointer can be moved diagonally.

- If the mouse button settings are set to reverse on the computer, the operation of the remote control buttons will also be reversed.
- The Wireless Mouse function does not work under the following conditions.
- When the Configuration menu or a Help screen is displayed
- When operating functions other than the Wireless Mouse function (such as adjusting the volume)

However, when using the E-Zoom or Pointer function, the page up or down function is available.

Saving a User's Logo

You can save the image that is currently being projected as a User's Logo.



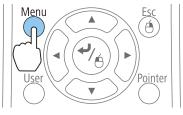
• Once a User's Logo has been saved, the logo cannot be returned to the factory default.



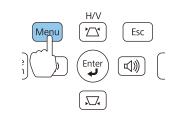
Project the image you want to save as the User's Logo, and then press the [Menu] button.

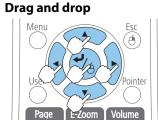
☞ "Using the Configuration Menu" p.82

Using the control panel

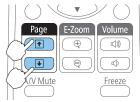


Using the remote control





Page Up/Down



While holding down the $[\checkmark]$ button, press the $[\frown], [\frown], [\frown], or [\frown]$

button.

Release the [◀] button to drop at the desired location.

[●] button: Moves to the previous page.

[] button: Moves to the next page.

62



Select User's Logo from Extended.

Image			Return	
Signal		Display User's Logo	0	
Settings	j	Projection Operation A/V Settings	Front	R
Extended	Θ	(Language 🌏	English	Б.
Network		Reset		
ECO				
Info				
Reset				

- [Esc]:Return [�]:Select [@]:Enter [Menu]:Exit
 - When User's Logo Protect from Password Protect is set to On, a message is displayed and the User's Logo cannot be changed. You can make changes after setting User's Logo Protect to Off.
 - ☞ "Managing Users (Password Protect)" p.65
 - If User's Logo is selected when Keystone, E-Zoom, Aspect, or Adjust Zoom are being performed, the function currently being performed is temporarily cancelled.

3

When the message "Choose this image as the User's Logo?" is displayed, select **Yes**.

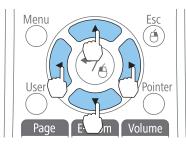
When you press the [↓] button on the remote control or the control panel, the screen size may change depending on the signal to match the actual resolution of the image signal.

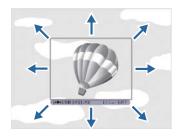
4

Move the box to select the part of the image to use as the User's Logo.

You can perform the same operations from the projector's control panel.

Remote control





You can save at 400x300 dots in size.

5

When you press the [+] button and the message "Select this image?" is displayed, select **Yes**.

6 Select the zoom factor from the zoom setting screen.

[User's Logo]	
Set the zoom factor.	
Zoom factor:	
0100% 🔮	
0200%	
0300%	
[Esc]:Return [�]:Select [@]:Set	[Menu]:Exit

Projection Functions



When the message "Save this image as the User's Logo?" is displayed, select **Yes**.

The image is saved. After the image has been saved, the message "Completed." is displayed.

- When a User's Logo is saved, the previous User's Logo is erased.
 - It takes a while to save. Do not operate the projector or any connected equipment while it is saving, otherwise malfunctions may occur.

Saving User Pattern

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

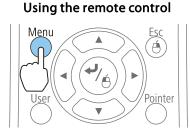


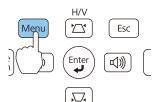
When a User Pattern is saved, the previous User Pattern is erased.



Project the image you want to use as the User Pattern, and then press the [Menu] button.

☞ "Using the Configuration Menu" p.82





Using the control panel



Select **Pattern** from **Settings**.

Image		Return
Signal	Keystone Control Panel Lock Pointer Shape	H/V-Keystone Full Lock Pointer 1
Settings 🕻	Volume	0
Extended	Mic Input Level Remote Receiver User Button	0 Front/Rear Power Consum
Network	Pattern	Ower Consumation
ECO	Reset	
Info		
Reset		

[Esc]:Return [\$]:Select [O]:Enter

[Menu]:Exit

Select User Pattern.

3

Image		[Pattern]	Return	
Signal		Pattern Display Pattern Type	Pattern 1	
Settings	0	User Pattern Test Pattern		
Extended		restratien		
Network				
ECO				
Info				
Reset				

[Esc]:Return [�]:Select [@]:Enter [Menu]:Exit



If **User Pattern** is selected when one of the Keystone, E-Zoom, Aspect, Progressive, and Zoom Adjustment functions is being used, the function currently being used is cancelled temporarily.



Projection Functions



When "Do you want to use the currently projected image as the User Pattern?" is displayed, select **Yes**.



When you press the [Enter] button, the message "Do you save this image as the User Pattern?" is displayed. Then, select **Yes**.

The image is saved. After the image has been saved, the message "The User Pattern setting is complete". is displayed.

- Once a User Pattern has been saved, User Pattern cannot be returned to the factory default.
 - Saving the User Pattern may take approximately 15 seconds. Do not operate the projector or any connected equipment while it is saving, otherwise malfunctions may occur.



Security Functions

TOP

65

The projector has the following enhanced security functions.

• Password Protect

You can limit who can use the projector.

• Control Panel Lock

You can prevent people changing the settings on the projector without permission.

- ☞ "Restricting Operation (Control Panel Lock)" p.67
- Anti-Theft Lock

The projector is equipped with the following anti-theft security device.

☞ "Anti-Theft Lock" p.69

Managing Users (Password Protect)

When Password Protect is activated, people who do not know the password cannot use the projector to project images even if the projector power is on. Furthermore, the user's logo that is displayed when you turn on the projector cannot be changed. This acts as an anti-theft function as the projector cannot be used even if it is stolen. At the time of purchase, Password Protect is not activated.

Kinds of Password Protect

The following two kinds of Password Protect settings can be made according to how the projector is being used.

• Power On Protect

When **Power On Protect** is **On**, you need to enter a preset password after the projector is plugged in and turned on (this also applies to Direct Power On). If the correct password is not entered, projection does not start.

• User's Logo Protection

Even if someone tries to change the User's Logo set by the owner of the projector, it cannot be changed. When User's Logo Protect is set to On, the following setting changes for the User's Logo are prohibited.

- Capturing a User's Logo
- Setting Display Background, Startup Screen, or A/V Mute from Display
- Extended Display p.89

• Network Protection

When **Network Protect** is set to **On**, changing the settings for **Network** is prohibited.

☞ "Network Menu" p.91

Setting Password Protect

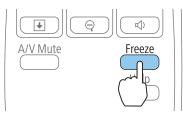
Use the following procedure to set Password Protect.



During projection, hold down the [Freeze] button for about five seconds.

The Password Protect setting menu is displayed.

Remote control



Security Functions





• If Password Protect is already activated, you must enter the password.

If the password is entered correctly, the Password Protect setting menu is displayed.

- ☞ "Entering the Password" p.66
- When the password is set, stick the password protect sticker in a visible position on the projector as a further theft deterrent.
 - Password Protect Sticker

2

Select the type of Password Protect you want to set, and then press the [←] button.





Select **On**, and then press the [↓] button.

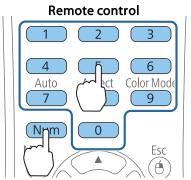
Press the [Esc] button, the screen displayed in step 2 is displayed again.



Set the password.

(1) Select **Password**, and then press the [] button.

- (2) When the message "Change the password?" is displayed, select **Yes** and then press the [←] button. The default password is set to "0000". Change this to your own desired Password. If you select **No**, the screen displayed in step 2 is displayed again.
- (3) While holding down the [Num] button, enter a four digit number using the numeric buttons. The number entered is displayed as "* * * *". When you enter the fourth digit, the confirmation screen is displayed.

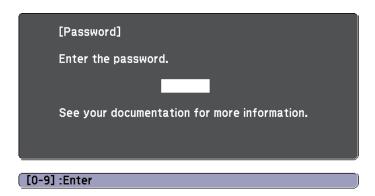


Re-enter the password.
 "The message Password accepted." is displayed.
 If you enter the password incorrectly, a message is displayed prompting you to re-enter the password.

Entering the Password

When the password entry screen is displayed, enter the password using the remote control.

While holding down the [Num] button, enter the password by pressing the numeric buttons.



When you enter the correct password, Password Protect is temporarily released.

Attention

- If an incorrect password is entered three times in succession, the message "The projector's operation will be locked." is displayed for approximately five minutes, and then the projector switches to standby mode. If this happens, disconnect the power plug from the electrical outlet and then reinsert it and turn the projector's power 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 the nearest address provided in the Epson Projector Contact List.
- Epson Projector Contact List
- If you continue to repeat the above operation and enter the wrong password thirty times in succession, the following message is displayed and the projector does not accept any more password entries. "The projector's operation will be locked. Contact Epson as described in your documentation."
- Epson Projector Contact List

Restricting Operation (Control Panel Lock)

Perform one of the following to lock the operation buttons on the control panel.

• Full Lock

All of the buttons on the control panel are locked. You cannot perform any operations from the control panel, including turning the power on or off.

• Partial Lock

All of the buttons on the control panel, except for the $[\mbox{\boldmath \mho}]$ power button, are locked.

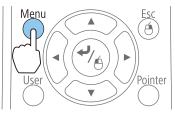
This is useful at events or shows when you want to deactivate all buttons during projection or at schools when you want to limit button operation. The projector can still be operated using the remote control.

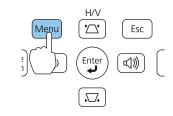
Press the [Menu] button while projecting.

☞ "Using the Configuration Menu" p.82

Using the remote control

Using the control panel







2

Select Control Panel Lock from Settings.

Image		Return
Signal	Keystone Control Panel Lock Pointer Shape	H/V-Keystone Pointer 1
Settings G		0
Extended	Remote Receiver User Button	Front/Rear Power Consum
Network	Pattern Reset	
ECO	J	
Info	J	
Reset		
[Esc]:Return	[€]:Select [@]:Ente	r [Menu]:Exit



Select either Full Lock or Partial Lock according to your purpose.

[Control Panel Lock] Return	
●Full Lock ● ●Partial Lock ■Off	B
[Esc]:Return [�]:Select [O]:Set	[Menu]:Exit



Select Yes when the confirmation message is displayed.

The control panel buttons are locked according to the setting you chose.



You can release the control panel lock by one of the following two methods.

- Select Off from Control Panel Lock.
- Settings Control Panel Lock p.88
- Press and hold down the [+] button on the control panel for about seven seconds, a message is displayed and the lock is released.



69

Anti-Theft Lock

The projector is equipped with the following types of anti-theft security devices.

• Security slot

The security slot is compatible with the Microsaver Security System manufactured by Kensington.

See the following for more details on the Microsaver Security System.

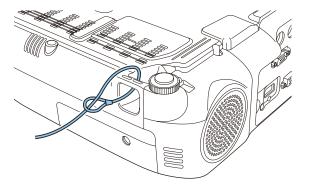
- http://www.kensington.com/
- Security cable installation point

A commercially available theft-prevention wire lock can be passed through the installation point to secure the projector to a desk or pillar.

Installing the wire lock

Pass an anti-theft wire lock through the installation point.

See the documentation supplied with the wire lock for locking instructions.



EasyMP Monitor

By using EasyMP Monitor, you can display the status of multiple Epson network projectors on your computer. This allows you to check the status of the projectors and control them from your computer. The Message Broadcasting plugin for EasyMP Monitor can be used to simultaneously send JPEG files to registered projectors. You can download EasyMP Monitor from the following Web site.

http://www.epson.com

Download the Message Broadcasting plugin from the Web site.

Changing Settings Using a Web Browser (Web Control)

By using a Web browser of a computer connected to the projector on a network, you can make settings and control the projector. This function allows you to perform setup and control operations remotely. In addition, since you can use the computer's keyboard, entering characters required for the setup is easier.

Use Microsoft Internet Explorer 8.0 or later as the Web browser. If using a Mac OS X, use Safari.



If you set **Standby Mode** to **Communication On**, you can use the Web browser to make settings and perform control even if the projector is in standby mode (when the power is off).

ECO - Standby Mode p.99

ТОР

Projector setup

In a Web browser, you can set items that are usually set in the projector's Configuration menu. The settings are reflected in the Configuration menu. There are also items that can only be set in the Web browser.

Items in the Configuration menu that cannot be set by the Web browser

- Settings Menu Pointer Shape
- Settings Menu Pattern
- Settings Menu User Button
- Extended Menu User's Logo
- Extended Menu Language
- Extended Menu Operation High Altitude Mode
- Reset Menu Reset All and Reset Lamp Hours

The settings for items on each menu are the same as the projector's Configuration menu.

☞ "Configuration Menu" p.81

Items that can only be set with a Web browser

- SNMP Community Name (up to 32 single-byte alphanumeric characters)
- Monitor Password (up to 16 single-byte alphanumeric characters)

Displaying the Web Control screen

Use the following procedure to display the Web Control screen.

Make sure the computer and projector are connected to the network. When communicating with a wireless LAN, connect in Advanced mode.



If your Web browser is set up to connect via a proxy server, the Web Control screen cannot be displayed. To display Web Control, you need to make settings so that a proxy server is not used for a connection.



- 1
- Start a Web browser on the computer.
- 2
- Enter the IP address of the projector in the address input box of the Web browser, and press the Enter key on the computer's keyboard.

The Web Control screen is displayed.

When Web Control Password is set from the Configuration menu, the password entry screen is displayed.

3

Enter the user ID and password.

Enter "EPSONWEB" as the user ID.

The initial password is "admin".

- Enter the user ID even if a password has not been set. You cannot change the user ID.
 - You can change the password on the Network menu from the Configuration menu.
 - Network Basic Web Control Password p.93

Displaying the Web Remote screen

The Web Remote function allows you to perform projector remote control operations with a Web browser.



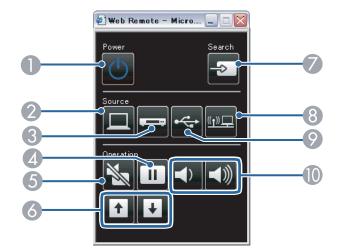
Display the Web Control screen.

Click Web Remote.

EPSON		
Proiector Control	signal > Image	
Web Remote >>>	ColorMode	Presentation
Signal Inage	Brightness	
Signal	Contrast	



The Web Remote screen is displayed.



Name		Function
0	Power button [也]	Turns the projector power on or off. Turns the projection or off.
2	[Computer] button	Each time you press the button, the input changes between images from the Computer1 port and the Computer2 port.
3	[Video] button	Each time the button is pressed, the image cycles through the Video, S-Video, and HDMI ports.
4	[Freeze] button	Images are paused or unpaused. ☞ "Freezing the Image (Freeze)" p.58



Name		Function
6	[A/V Mute] button	Turns the video and audio on or off. Turns the Image and Sound Temporarily (A/V Mute)" p.57
6	[Page] buttons [↑][↓]	 Changes pages in files such as PowerPoint files when using the following projection methods. When using the Wireless Mouse function "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 When using USB Display "Projecting with USB Display" p.36 During a network connection
		When projecting images or scenarios using PC Free, pressing these buttons displays the previous/next screen.
0	[Source Search] button	Changes to the next input source that is sending an image. ☞ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.35
8	[LAN] button	 Changes to the image projected with EasyMP Network Projection. When projecting using the optional Quick Wireless Connection USB Key, this button switches to that image. ☞ "Switching to the Target Image by Remote Control" p.36
9	[USB] button	 Each time the button is pressed, it cycles through the following images: USB Display Images from the device connected to the USB port "Switching to the Target Image by Remote Control" p.36
0	[Volume] buttons [ଐ][ଐ]]	[Φ] Decreases the volume. [☞] Increases the volume. ☞ "Adjusting the Volume" p.46

Using the Mail Notification Function to Report Problems

When you set Mail Notification, notification messages are sent to the preset email addresses when a problem or warning occurs with a projector. This will enable the operator to be notified of problems with projectors even at locations away from the projectors.

✓ Network - Mail - Mail Notification p.97

• Up to a maximum of three notification destinations (addresses) can be registered, and notification messages can be sent to all three destinations at once.

• If a projector develops a critical problem and suddenly stops working, it may not be able to send a message notifying an operator of the problem.

- If you set **Standby Mode** to **Communication On**, you can control the projector even if it is in standby mode (when the power is off).
- ECO Standby Mode p.99

Reading Error Notification Mail

When the Mail Notification function is set to On and a problem or warning occurs in the projector, the following email will be sent.

Mail sender: Address for Address 1

Subject: EPSON Projector

Line 1: The projector name where the problem has occurred

Line 2: The IP address set for the projector where the problem has occurred.

Line 3 and on: Details of the problem

Monitoring and Controlling

ТОР

73

The details of the problem are listed line by line. The messages are listed below.

- Internal error
- Fan related error
- Sensor error
- Lamp cover is open
- Lamp timer failure
- Lamp out
- Internal temperature error
- High-speed cooling in progress
- Lamp replacement notification
- No-signal

No Signal is input to the projector. Check the connection status or check that the power for the signal source is turned on.

- Auto Iris Error
- Power Err. (Ballast)

See the following to deal with problems or warnings.

☞ "Reading the Indicators" p.104

Management Using SNMP

By setting **SNMP** to **On** in the Configuration menu, notification messages are sent to the specified computer when a problem or warning occurs. This will enable the operator to be notified of problems with projectors even at locations away from the projectors.

Network - Others - SNMP p.98



• SNMP should be managed by a network administrator or someone who is familiar with the network.

- To use the SNMP function to monitor the projector, you need to install the SNMP manager program on your computer.
- The SNMP Agent for this projector complies with version 1 (SNMPv1).
- The managing function using SNMP cannot be used via wireless LAN in Quick mode.
- Up to two destination IP addresses can be saved.

ESC/VP21 Commands

You can control the projector from an external device using 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.

ltem			Command
Power ON/OFF	On		PWR ON
	Off		PWR OFF
Signal selection	Computer1	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	Computer2	Auto	SOURCE 2F

ltem		Command	
		RGB	SOURCE 21
		Component	SOURCE 24
	HDMI		SOURCE 30
	Video		SOURCE 41
	S-Video		SOURCE 42
	USB Display		SOURCE 51
	USB		SOURCE 52
	LAN		SOURCE 53
A/V Mute On/Off	On		MUTE ON
	Off		MUTE OFF
A/V Mute selection	Black		MSEL 00
	Blue		MSEL 01
	Logo		MSEL 02

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

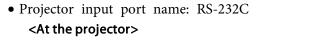
For more details, contact your local dealer or the nearest address provided in the Epson Projector Contact List.

Epson Projector Contact List

Cable layouts

Serial connection

• Connector shape: D-Sub 9-pin (male)



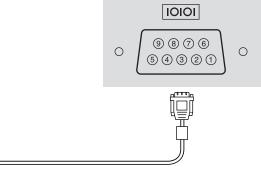
Ο

RS-232C

9876

54321

Ο



<at projector:<="" th="" the=""><th>></th><th>(PC serial cable)</th><th><!--</th--><th>At the computer></th></th></at>	>	(PC serial cable)	</th <th>At the computer></th>	At the computer>
GND	5		5	GND
RD	2	◀	3	TD
TD	3		2	RD

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

TOP

<At the computer>

About PJLink (EB-X25/EB-W22/EB-X22/EB-X20 Only)

PJLink Class1 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 Class1 standard established by the JBMIA.

See the Network menu for more information on PJLink network settings.

☞ "Network Menu" p.91

It complies with all commands except for the following commands defined by PJLink Class1, and agreement was confirmed by the PJLink standard adaptability verification.

URL: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 names defined by PJLink and corresponding projector sources

Source	PJLink Command
Computer1	INPT 11
Computer2	INPT 12
Video	INPT 21
S-Video	INPT 22
НДМІ	INPT 32

Source	PJLink Command
USB	INPT 41
LAN	INPT 52
USB Display	INPT 53

- Manufacturer name displayed for "Manufacture name information query" **EPSON**
- Model name displayed for "Product name information query" EPSON 25 EPSON 22 EPSON 20

About Crestron RoomView® (EB-X25/EB-W22/EB-X22/EB-X20 only)

Crestron RoomView[®] is an integrated control system provided by Crestron[®]. It can be used to monitor and control multiple devices connected on a network.

The projector supports the control protocol, and can therefore be used in a system built with Crestron RoomView[®].

Visit the Crestron® Web site for details on Crestron RoomView®.

http://www.crestron.com

The following provides an overview of Crestron RoomView®.

• Remote operation using a Web browser

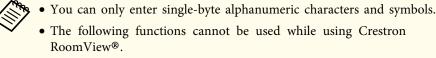
You can operate a projector from your computer just like using a remote control.

• Monitoring and control with application software

You can use Crestron RoomView[®] Express or Crestron RoomView[®] Server Edition provided by Crestron[®] to monitor devices in the system, to communicate with the help desk, and to send emergency messages. See the following Web site for details.

http://www.crestron.com/getroomview

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



☞ "Changing Settings Using a Web Browser (Web Control)" p.70

Message Broadcasting (EasyMP Monitor plug-in)

- If you set **Standby Mode** to **Communication On**, you can control the projector even if it is in standby mode (when the power is off).
- ECO Standby Mode p.99

Operating a projector from your computer

Displaying the operation window

Check the following before carrying out any operations.

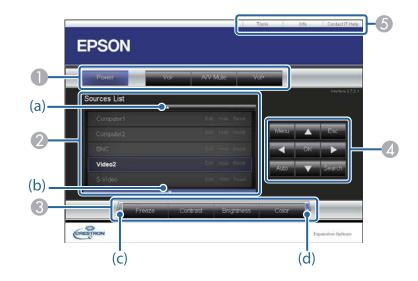
- Make sure the computer and projector are connected to the network. When communicating with a wireless LAN, connect in Advanced mode.
- ☞ "Wireless LAN menu (EB-X21/EB-S21/EB-X17/EB-S17 only)" p.93
- Set Crestron RoomView to On from the Network menu.
- ☞ Network Others Crestron RoomView p.84



Start a Web browser on the computer.

2 Enter the IP address of the projector in the address field of the Web browser, and press the Enter key on the keyboard. The operation window is displayed.

Using the operation window



1 You can perform the following operations when you click the buttons.

Button	Function
Power	Turns the projector power on or off.
Vol-/Vol+	Adjusts the volume.

TOP

Monitoring and Controlling



Button	Function	
A/V Mute	Turns the video and audio on or off.	
	 "Hiding the Image and Sound Temporarily (A/V Mute)" p.57 	

- Switch to the image from the selected input source. To display input sources that are not shown in Source List, click (a) or (b) to scroll up or down. You can change the source name if necessary.
- 3 You can perform the following operations when you click the buttons. To display buttons that are not shown in Source List, click (c) or (d) to scroll left or right.

Button	Function
Freeze	Images are paused or unpaused. ☞ "Freezing the Image (Freeze)" p.58
Contrast	You can adjust the difference between light and dark in the images.
Brightness	You can adjust the image brightness.
Color	You can adjust the color saturation for the images.
Sharpness	You can adjust the image sharpness.
Zoom	Click the $[\textcircled{P}]$ button to enlarge the image without changing the projection size. Click the $[\textcircled{Q}]$ button to reduce an image that was enlarged with the $[\textcircled{P}]$ button. Click the $[\blacktriangle], [\checkmark], [\checkmark], [\checkmark]$ buttons to change the position of an enlarged image. P "Enlarging Part of the Image (E-Zoom)" p.59

The [▲], [▼], [◀], and [▶] buttons perform the same operations as the [<,],
 [, [,], and [)] buttons on the remote control. You can perform the following operations when you click the other buttons.

Button	Function
ОК	Performs the same operation as the [] button on the remote control.
Menu	Displays and closes the Configuration menu.
Auto	If clicked while projecting analog RGB signals from Computer1 port or Computer2 port, automatically optimizes the image by adjusting the Tracking, Sync., and Position.
Search	Changes to the next input source that is sending an image. The "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.35
Esc	Performs the same operation as the [Esc] button on the remote control. Therefore The the same operation as the [Esc] button on the remote control. Therefore The the same operation as the [Esc] button on the remote control. The same operation as the [Esc] button on the remote control. The same operation as the same operation

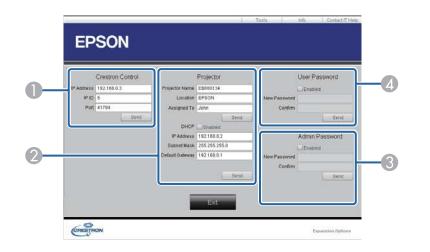
(5) You can perform the following operations when you click the tabs.

Tab	Function
Contact IT Help	Displays the Help Desk window. Used to send messages to, and receive messages from, the administrator using Crestron RoomView [®] Express.
Info	Displays information on the projector that is currently connected.
Tools	Changes settings in the projector that is currently connected. See the next section.

Using the tools window

The following window is displayed when you click the **Tools** tab on the operation window. You can use this window to change settings in the projector that is currently connected.





Crestron Control

Make settings for Crestron[®] central controllers.

Projector

The following items can be set.

ltem	Function
Projector Name	Enter a name to differentiate the projector that is currently connected from other projectors on the network. (The name can contain up to 15 single-byte alphanumeric characters.)
Location	Enter an installation location name for the projector that is currently connected on the network. (The name can contain up to 32 single-byte alphanumeric characters and symbols.)
Assigned To	Enter a user name for the projector. (The name can contain up to 32 single-byte alphanumeric characters and symbols.)

ltem	Function
DHCP	Select the Enabled check box to use DHCP. You cannot enter an IP address if DHCP is enabled.
IP Address	Enter the IP address to assign to the currently connected projector.
Subnet Mask	Enter a subnet mask for the currently connected projector.
Default Gateway	Enter the gateway address for the currently connected projector.
Send	Click this button to confirm the changes made to the Projector .

3 Admin Password

Select the **Enabled** check box to require a password to open the Tools window. The following items can be set.

ltem	Function
New Password	Enter the new password when changing the password to open the Tools window. (The name can contain up to 26 single-byte alphanumeric characters.)
Confirm	Enter the same password as you entered in New Password . If the passwords are not the same, an error is displayed.
Send	Click this button to confirm the changes made to the Admin Password .

4 User Password

Select the **Enabled** check box to require a password to open the operation window on the computer. The following items can be set.

ltem	Function
New Password	Enter the new password when changing the password to open the operation window. (The name can contain up to 26 single-byte alphanumeric characters.)
Confirm	Enter the same password as you entered in New Password . If the passwords are not the same, an error is displayed.
Send	Click this button to confirm the changes made to the User Password .





Check the numbers and then apply the following countermeasures. If you cannot resolve the problem, contact your network administrator, or contact your local dealer or the nearest address provided in the Epson Projector Contact List.

Epson Projector Contact List

Event ID	Cause	Remedy
0432	Failed to startup EasyMP Network Projection.	Restart the projector.
0435		
0434	Network communication is unstable.	Check the network communication status, and reconnect after waiting for a
0481		while.
0482		
0485		
0433	Cannot play transferred images.	Restart EasyMP Network Projection.
0484	Communication was disconnected from the computer.	
0483	EasyMP Network Projection ended unexpectedly.	Check the network communication status, and then restart the projector.
04FE		
0479	A system error occurred in the projector.	Restart the projector.
04FF		
0891	Cannot find an access point with the same SSID.	Set the computer, the access point, and the projector to the same SSID.
0892	The WPA/WPA2 authentication type does not match.	Check that the wireless LAN security settings are correct.
0893	The WEP/TKIP/AES encryption type does not match.	C Security p.95
0894	Communication was disconnected because the projector connected to an unauthorized access point.	Contact your network administrator for more information.
0898	Failed to acquire DHCP.	Check that the DHCP server is operating correctly. If you are not using DHCP, turn off the DHCP setting.
		Wireless LAN - IP Settings p.93
0899	Other communication errors	If restarting the projector or EasyMP Network Projection does not solve the problem, contact your local dealer or the nearest address provided in the Epson Projector Contact List.Image: Contact Contact List



Configuration Menu

This chapter explains how to use the Configuration menu and its functions.

Using the Configuration Menu

TOP 82

This section explains how to use the Configuration menu.

Although steps are explained using the remote control as an example, you can perform the same operations from the control panel. Check the guide under the menu for the available buttons and their operations.



Display the Configuration menu screen.

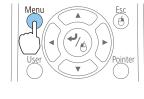


Image	0		rn 🕘
Signal	Color Mode Brightness	Dynamic O	
Settings	Contrast Sharpness	0	3
Extended	Abs. Color Temp. Color Adjustment	K	
Network	Auto Iris Reset	Off	
ECO			
Info			
Reset			
	:Return [�]:Select		[Menu]



Select a top menu item.

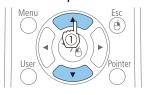
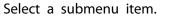
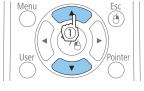
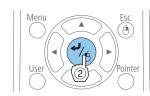


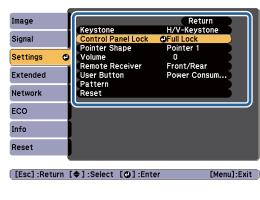
Image			Return 🔮
Signal		Keystone Control Panel Lock	H/V-Keystone Full Lock
Settings	0	Pointer Shape Volume	Pointer 1 0
Extended	ĺ	Remote Receiver User Button	
Network		Pattern Reset	
ECO			
Info			
Reset			



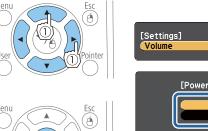


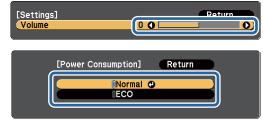














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Press the [Menu] button to finish making settings.



Configuration Menu Table

Settable items vary depending on the model being used and the image signal and source being projected.

Top Menu Name	Submenu Name	Items or Setting Values
Image menu p.85	Color Mode	Dynamic, Presentation, Theatre, Photo, Sports, sRGB, Blackboard, and Whiteboard
	Brightness	-24 - 24
	Contrast	-24 - 24
	Color Saturation	-32 - 32
	Tint	-32 - 32
	Sharpness	-5 - 5
	Abs. Color Temp.	5000K to 10000K
	Color Adjustment	Red: -16 to 16 Green: -16 to 16 Blue: -16 to 16
	Auto Iris	Off, Normal, High Speed
Signal menu	Auto Setup	On and Off
🖝 p.86	Resolution	Auto, Wide, and Normal
	Tracking	-
	Sync.	0 - 31
	Position	Up, Down, Left, and Right
	Progressive	Off, Video, and Film/Auto
	Noise Reduction	Off, NR1, and NR2
	HDMI Video Range	Auto, Normal, and Expanded
	Input Signal	Auto, RGB, and Component

Top Menu Name	Submenu Name	Items or Setting Values
	Video Signal	Auto, NTSC, NTSC4.43, PAL, M-PAL, N-PAL, PAL60, and SECAM
	Aspect	Normal, Auto, 4:3, 16:9, Full, Zoom, and Native
	Overscan	Auto, Off, 4%, and 8%
	Image Processing	Fine, Fast
Settings menu	Keystone	H/V-Keystone and Quick Corner
☞ p.88	Zoom (EB-S21/EB-S17 only)	-
	Control Panel Lock	Full Lock, Partial Lock, and Off
	Pointer Shape	Pointer 1, 2, and 3
	Volume	0 - 10
	Remote Receiver	Front/Rear, Front, Rear, and Off
	User Button	Power Consumption, Info, Progressive, Resolution, and Pattern Display
	Pattern	Pattern Display, Pattern Type, User Pattern, and Test Pattern
Extended menu p.89	Display	Messages, Display Background, Startup Screen, and A/V Mute
	User's Logo	-
	Projection	Front, Front/Ceiling, Rear, and Rear/Ceiling
	Operation	Direct Power On, High Altitude Mode, Startup Source Search
	A/V Settings	A/V Output, Audio Output, HDMI Audio Output
	Language	15 or 36 languages ^{*1}
ECO menu	Power Consumption	Normal and ECO



Top Menu Name	Submenu Name	Items or Setting Values
🖝 p.99	Light Optimizer	On and Off
	Sleep Mode	On and Off
	Sleep Mode Timer	0 - 30
	Lens Cover Timer	On and Off
	A/V Mute Timer	On and Off
	Standby Mode	Communication On and Communication Off
	ECO Display	On and Off
Info menu	Lamp Hours	-
🖝 p.100	Source	-
	Input Signal	-
	Resolution	-
	Video Signal	-
	Refresh Rate	-
	Sync Info	-
	Status	-
	Serial Number	-
	Version	-
	Event ID	-
Reset menu	Reset All	-
• p.101	Reset Lamp Hours	-

*1 The number of supported languages differs depending on the region where the projector is used.

Network menu

Top Menu Name	Submenu Name	Setting Values
Basic menu	Projector Name	-
• p.93	PJLink Password (EB-X25/EB-W22/EB- X22/EB-X20 only)	-
	Web Control Password	-
	Projector Keyword	On and Off
Wireless LAN menu	Wireless LAN Power	On and Off
(EB-X21/EB-S21/EB- X17/EB_S17_cmlx)	Connection Mode	Quick, Advanced
X17/EB-S17 only)	Channel	1ch, 6ch, 11ch
I	Wireless LAN Sys.	802.11b/g and 802.11b/g/n
	SSID Auto Setting	On and Off
	SSID	-
	IP Settings	DHCP, IP Address, Subnet Mask, and Gateway Address
	SSID Display	On and Off
	IP Address Display	On and Off
Security menu (EB-X21/EB-S21/EB-	Security	No, WEP, WPA-PSK, and WPA2- PSK
X17/EB-S17 only)	WEP Encryption	128Bit and 64Bit
● p.95	Format	ASCII and HEX
	Key ID	1, 2, 3, 5
	Encryption Key 1, En- cryption Key 2, Encryp- tion Key 3, and Encryp- tion Key 4	-
	Authentication Type	Open and Shared
	Passphrase	-

Top Menu Name	Submenu Name	Setting Values
Wired LAN menu (EB-X25/EB-W22/	IP Settings	DHCP, IP Address, Subnet Mask, and Gateway Address
EB-X22/EB-X20 only) • p.96	IP Address Display	On and Off
Mail menu	Mail Notification	On and Off
• p.97	SMTP Server	-
	Port Number	-
	Address 1 Setting, Ad- dress 2 Setting, and Ad- dress 3 Setting	-
Others menu	SNMP	On and Off
☞ p.98	Trap IP Address 1 and Trap IP Address 2	-
	AMX Device Discovery	On and Off
	Crestron RoomView (EB-X25/EB-W22/EB- X22/EB-X20 only)	On and Off
	Bonjour	On and Off
	Message Broadcasting	On and Off

Image Menu

Settable items vary depending on the image signal and source currently being projected. Setting details are saved for each image signal.

9

Color Mode

Brightness

Contrast

Sharpness Abs. Color Temp.

Reset

Color Adjustment Auto Iris

Image

Signal

Settings

Extended

Network

ECO Info Reset

[Esc] /[O] :Return [I] :Select [Menu]:Exit		
Submenu	Function	
Color Mode	You can select the quality of the image to suit your surroundings. "Selecting the Projection Quality (Selecting Color Mode)" p.46	
Brightness	You can adjust the image brightness.	
Contrast	You can adjust the difference between light and dark in the images.	
Color Saturation	You can adjust the color saturation for the images.	
Tint	(Adjustment is possible when a component video signal is being input. If a composite video or S-video signal is input, adjustment is only possible when NTSC signals are being input.) You can adjust the image tint.	
Sharpness	You can adjust the image sharpness.	
Abs. Color Temp.	(This item cannot be selected if Color Mode is set to <u>sRGB</u>).) Adjusts the tint for the images. The image is tinted blue when you raise the color temperature, and tinted red when you lower it.	

85

тор

Return 🙂

Dynamic

0

0

0

Off

5000 K

Submenu	Function
Color Adjust- ment	 (This item cannot be selected if Color Mode is set to <u>sRGB</u>[→].) You can adjust the color strength for Red, Green, and Blue individually.
Auto Iris	 (This item can be set only if Color Mode is set to Dynamic or Theatre.) Set to Normal or High Speed to adjust the iris to obtain the optimum light for images being projected. Select High Speed to make faster iris corrections to match the speed of the scene. The setting is stored for each Color Mode. Tsetting Auto Iris" p.47
Reset	You can reset all adjustment values for the Image menu to their default settings. See the following to return all menu items to their default settings. There is the the following to return all menu items to their default settings.

Signal Menu

Settable items vary depending on the image signal and source currently being projected. Setting details are saved for each image signal.

You cannot make settings on the Signal menu when the source is USB Display, USB, or LAN.

☞ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.35

Auto Setu

Image

Signal	Ð	Resolution	Auto	5
-	-	Tracking	0	5
Settings		Sync. Position	0	R
Extended		Input Signal	Auto	5
	- 1	Aspect	4:3	
Network		Image Processing Reset	Fine	
ECO		Reset		
Info				
Reset				

Submenu	Function
Auto Setup	Set to On to automatically adjust Tracking, Sync., and Position to the optimum state when the input signal changes.
Resolution	Set to Auto to automatically identify the resolution of the input signal. If images are not projected correctly when set to Auto , for example if some of the image is missing, adjust to Wide for wide screens, or set to Normal for 4:3 or 5:4 screens depending on the connected computer.
Tracking	You can adjust computer images when vertical stripes appear in the images.
Sync.	You can adjust computer images when flickering, fuzziness, or interference appear in the images.
Position	You can adjust the display position up, down, left, and right when a part of the image is missing so that the whole image is projected.

TOP

(Return 🕘)

Off

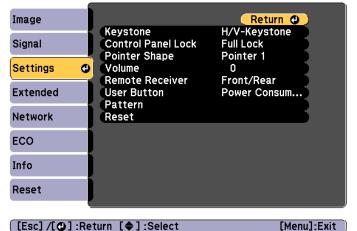
Submenu	Function
Progressive	(When a component video or RGB video is being input, this setting can only be adjusted if the signal being input is an interlaced signal (480i/576i/1080i). This cannot be set when a digital RGB signal is being input.) <u>Interlace</u> (i) signal is converted to <u>Progressive</u> (p). (IP conversion) Off: Ideal for images with a large amount of movement. Video: Ideal for general video images. Film/Auto: This is ideal for movie films, computer graphics, and animation.
Noise Reduction	(This cannot be set when a digital RGB signal is input or when projecting an interlaced signal while Progressive is set to Off .) Smoothes out rough images. There are two modes. Select your favorite setting. It is recommended that this is set to Off when viewing image sources in which noise is very low, such as for DVDs.
HDMI Video Range	When the projector's HDMI port is connected to a DVD player, set the projector's video range according to the DVD player's video range setting.
Input Signal	You can select input signal from Computer port. If set to Auto , the input signal is set automatically according to the connected equipment. If colors do not appear correctly when set to Auto , select the appropriate signal according to the connected equipment.
Video Signal	You can select the input signal from the Video port. If set to Auto , video signals are recognized automatically. If interference appears in the image or a problem occurs such as no image is being projected when set to Auto , select the appropriate signal according to the connected equipment.
Aspect	You can set the <u>aspect ratio</u> [→] for projected images.

Submenu	Function
Overscan	Changes the output image ratio (the range of the projected image). You can set the cropping range to Off , 4% , or 8% . When the source is HDMI, Auto is available. When Auto is selected, it automatically changes to Off or 8% according to the input signal.
Image Process- ing	Changes settings for image processing. Fast : Images are displayed quicker. The pen's tracking delay is improved when using the optional interactive unit. Fine : Images are displayed in higher quality.
Reset	 You can reset all adjustment values on the Signal menu to their default settings, except for Input Signal and Image Processing. See the following to return all menu items to their default settings. TReset Menu" p.101

87



Settings Menu



[Esc]/[@]:Return [�]:Select

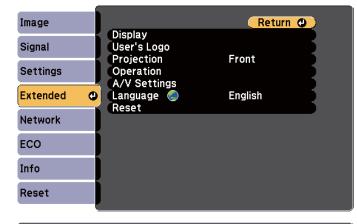
Submenu Function You can correct keystone distortion. Keystone • When **H/V-Keystone** is selected: Adjust V-Keystone and H-Keystone to correct horizontal and vertical keystone distortion. You can also set H-Keystone Adjuster and Auto V-Keystone to On or Off. • When **Quick Corner** is selected: Select and correct the four corners of the projected image. "Quick Corner" p.42 Adjusts the size of the projected image. Zoom (EB-S21/EB-S17 only) **Control Panel** You can use this to restrict operation of the projector's control Lock panel. "Restricting Operation (Control Panel Lock)" p.67

Submenu	Function
Pointer Shape	You can select the shape of the pointer.
	Pointer 1: 🛷
	Pointer 2: 🔵
	Pointer 3:
	"Pointer Function (Pointer)" p.58
Volume	You can adjust the volume. Setting values are saved for each source.
Remote Receiver	You can limit the reception of the operation signal from the remote control.
	When set to Off , you cannot perform any operations from the remote control. If you want to make operations from the remote control, hold down the [Menu] button on the remote control for at least 15 seconds to reset the setting to its default value.
User Button	You can select and assign an item from the Configuration menu with the remote control's [User] button. Pressing the [User] button directly displays the assigned menu item selection/ adjustment screen, allowing you to make one-touch changes to settings/adjustments. You can assign one of the following items to the [User] button.
	Power Consumption, Info, Progressive, Resolution, and Pattern Display



Submenu	Function
Pattern	Pattern Display: Display a pattern.
	Pattern Type : You can select from Patterns 1 to 4 or User Pattern. Patterns 1 to 4 display projection lines such as ruled lines or a grid.
	Pattern 1: Pattern 2:
	Pattern 3:
	User Pattern : Captures a user pattern.
	Test Pattern : When the projector is set up, a test pattern is displayed so that you can adjust the projection status without connecting equipment. While the test pattern is displayed, zoom, focus adjustments, and keystone correction can be performed. To cancel the test pattern, press the [Esc] button on the remote control or the control panel.
	Attention If a pattern is displayed for a long time, a residual image may be visible in projected images.
Reset	You can reset all adjustment values on the Settings menu to their default settings, except for Zoom (EB-S21/EB-S17 only) and User Button .
	See the following to return all menu items to their default settings.
	"Reset Menu" p.101

Extended Menu



[Esc]/[@]:Return [�]:Select

[Menu]:Exit

Submenu	Function		
Display	You can make settings related to the projector's display.		
	Messages: When set to Off, the following items will not b displayed.		
	Item names when the Source, Color Mode, or Aspect Ratio is changed, messages when no signal is being input, and warnings such as High Temp Warning.		
	Display Background ^{*1} : You can set the screen background to Black , Blue , or Logo when no image signal is available.		
	Startup Screen ^{*1} : Set to On to display the User's Logo when projection starts.		
	A/V Mute ^{*1} : You can set the screen displayed when the remote control's [A/V Mute] button is pressed to Black , Blue , or Logo .		
User's Logo ^{*1}	You can change the user's logo that is displayed as a background during Display Background, A/V Mute, and so on.		
	"Saving a User's Logo" p.61		



Submenu	Function	Submenu	Function
Projection	Select from one of the following projection methods depending on how the projector is installed. Front, Front/Ceiling, Rear, and Rear/Ceiling You can change the setting as follows by pressing down the [A/V Mute] button on the remote control for about five seconds. Front↔Front/Ceiling Rear↔Rear/Ceiling "Installation Methods" p.22 	A/V Settings	 A/V Output: (This item can be set only if Standby Mode is set to Communication On.) Set to Always On to output audio and images to external equipment when the projector is in standby status. Audio is output from the speaker. The fan may rotate in standby status. Also, when the projector wakes from standby status, the fan may make a loud noise as it rotates, but this is not a malfunction.
Operation	 Direct Power On: Set to On to turn on the projector simply by plugging it in. When the power cord is plugged in, note that the projector turns on automatically in cases such as a power outage being restored. High Altitude Mode: Set to On when using the projector above an altitude of 1500 m. Startup Source Search: Set to On to project images from the port currently receiving an image when the projector starts. 		 Audio Output: Select the audio output when projecting images from the Computer1, Computer2, S-Video, or Video input ports. When set to Auto, the audio from the audio input port that matches each image input port is output. In standby status, the audio from the last selected source is output. Connecting Equipment" p.25 HDMI Audio Output: Select the audio source when projecting images from the HDMI input port. Select HDMI to output the image's audio as it is.

Language	You can set the language for messages and menus.
Reset	You can reset the adjustment values for Display ^{*1} , Operation ^{*2} , and A/V Settings ^{*3} from the Extended menu to their default settings. See the following to return all menu items to their default settings.

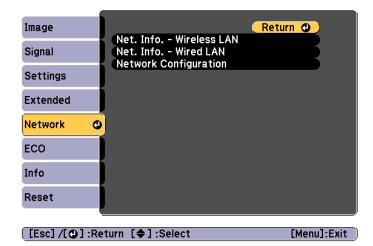
- *1 When User's Logo Protect is set to On in Password Protect, settings related to user's logo cannot be changed. You can make changes after setting User's Logo Protect to Off.
- *2 Except for High Altitude Mode and Startup Source Search.
- *3 Except for A/V Output.



Network Menu

When **Network Protect** is set to **On** in **Password Protect**, a message is displayed and the network settings cannot be changed. Set **Network Protect** to **Off** and then configure the network.

☞ "Setting Password Protect" p.65



Submenu	Function
Net. Info Wire- less LAN (EB-X21/EB-S21/ EB-X17/EB-S17 only)	Displays the following network setting status information. • Connection Mode • Antenna Level • Projector Name • SSID • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address • Region Code*

Submenu	Function	
Net. Info Wired LAN (EB-X25/EB-W22/ EB-X22/EB-X20 only)	Displays the following network setting status information. • Projector Name • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address	
Network Config- uration	The following menus are available for setting Network items. Basic, Wireless LAN, Security, Wired LAN, Mail, Others, Reset, and Complete	

* Displays available region information for the Wireless LAN unit being used. For more details, contact your local dealer or the nearest address provided in the Epson Projector Contact List.

Epson Projector Contact List



• By using a Web browser of a computer connected to the projector on a network, you can set functions and control the projector. This function is called Web Control. You can easily enter text using a keyboard to make settings for Web Control such as Security settings.

☞ "Changing Settings Using a Web Browser (Web Control)" p.70

• Contact your network administrator for details on network settings.

Notes on operating the Network menu

Selecting from the top menu and sub menus, and changing selected items is the same as making operations from the Configuration menu.

When done, make sure you go to the **Complete** menu, and select **Yes**, **No**, or **Cancel**. When you select **Yes** or **No**, you are returned to the Configuration menu.



Yes: Saves the settings and exits the Network menu.

 $\ensuremath{\text{No:}}$ Does not save the settings and exits the Network menu.

Cancel: Continues displaying the Network menu.

Soft keyboard operations

[Mot passe PJLink]
A B C D E F G 1 2 3 + - + Backsp Del H I J K L M N 4 5 6 * * + - + - + - + - + - + - + - + - + - + - + - + - + <td< td=""></td<>
[Esc]:Retour [◀♦▶]:Sélection [❹]:Valider

- Each time the CAPS key is selected and the [+] button is pressed, it sets and changes between upper case and lower case letters.
- Each time the SYM1/2 key is selected and the [←] button is pressed, it sets and changes the symbol keys for the section enclosed by the frame.



Basic menu

Basic	0	Return 🕲
Wireless LAN	Projector Name PJLink Password Web Control Password	
Security	Projector Keyword	Off
Wired LAN		
Mail		
Others		
Reset		
Complete		

[Esc]/[@]:Return [�]:Select

Submenu	Function
Projector Name	Displays the projector name used to identify the projector when connected to a network. When editing, you can enter up to 16 single-byte alphanumeric characters.
PJLink Password (EB-X25/EB-W22/ EB-X22/EB-X20 only)	Set a password to use when you access the projector using compatible PJLink software. You can enter up to 32 single-byte alphanumeric characters.
Web Control Password	Set a password to use when making settings and controlling the projector using Web Control. Enter no more than eight single- byte alphanumeric characters. Web Control is a computer function that allows you to set up and control the projector by using the Web browser on a computer connected on a network. The changing Settings Using a Web Browser (Web Control)" p.70

Submenu	Function
Projector Key- word	 When set to On, you have to enter the keyword when you try to connect the projector to a computer via a network. As a result, you can prevent presentations from being interrupted by connections from other computers. Normally this should be set to On. <i>EasyMP Network Projection Operation Guide</i> <i>EasyMP Multi PC Projection Operation Guide</i>

Wireless LAN menu (EB-X21/EB-S21/EB-X17/EB-S17 only)

Basic		Return 🕐
Wireless LAN 🥥		Off Quick
Security	Channel Wireless LAN Sys.	
Mail	SSID Auto Setting SSID IP Settings	Off
Others	SSID Display IP Address Display	Off Off
Reset	IF Address Display	
Complete		

[Esc]/[@]:Return [+]:Select

Submenu	Function	
Wireless LAN Power	Turn On when connecting the projector to the computer over wireless LAN.	
	If you do not want to connect via wireless LAN, turn it Off to prevent unauthorized access by others. The default value is On .	



Submenu	Function	Submenu	Function
Connection Mode	Set the connection mode to use when connecting the projector and a computer via a wireless LAN.	IP Settings	(This item can only be set if Connection Mode is set to Advanced .)
	If you select Quick , a small network is created automatically by the projector and computer. It is used with EasyMP Network Projection. If SSID Auto Setting is set to On , the projector becomes an easy access point; if it is set to Off , the network is created in <u>Ad hoc mode</u> . If you select Advanced , the connection is established in <u>Infrastructure mode</u> .		 You can make network settings. DHCP: Set to On to make network settings using DHCP. If this is set to On, you cannot set any more addresses. IP Address: You can input the <u>IP address</u> assigned to the projector. You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a
Channel	 (This can only be set if Connection Mode is set to Quick.) Select the frequency band used by the wireless LAN from 1ch, 6ch, or 11ch. The default value is 11ch. 		number from 0 to 255) Subnet Mask : You can input the <u>subnet mask</u> for the projector. You can enter a number from 0 to 255 in each field of the address. However, the following subnet masks cannot be used. 0.0.0.0, 255.255.255.255
Wireless LAN Sys.	Set the Wireless LAN system to either 802.11b/g or 802.11b/g/n . The default value is 802.11b/g/n .		
SSID Auto Set-	(This can only be set if Connection Mode is set to Quick .)		field of the address. However, the following <u>Gateway addresses</u>
ting	When you set this to On , you can search for the projector more quickly from among multiple projectors. SSID is set		0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
	automatically. When connecting to multiple projectors from one computer in	SSID Display	To prevent the <u>SSID</u> from being displayed on the LAN Standby screen, set this to Off .
	Quick mode, set this to Off , and set the same SSID in all the projectors that will connect.	IP Address Dis-	To prevent the <u>IP address</u> from being displayed on the LAN Standby screen, set this to Off .
SSID	 (This item can only be set when SSID Auto Setting is set to Off.) Enter an SSID. When an SSID is provided for the wireless LAN system in which the projector participates, enter the SSID. You can enter up to 32 single-byte alphanumeric characters. 	play	Standby screen, set this to On.



Security menu (EB-X21/EB-S21/EB-X17/EB-S17 only)

Available when the Wireless LAN unit is installed.

Basic		Return 🕘
Wireless LAN	Security WEP Encryption Format	No 128Bit ASCII
Security 🛛 🕲		0
Mail	Encryption Key 2 Encryption Key 3	
Others	Encryption Key 3 Encryption Key 4 Authentication Type	Open
Reset	Passphrase	
Complete		

[Esc]/[@]:Return [�]:Select

Submenu	Function	
Security	Select the security type from the items that are displayed. When setting up Security, follow the instructions from the administrator of the network system you are about to access.	
WEP Encryption	You can set the encryption for WEP encryption. 128Bit : Uses 128 (104) bit encoding. 64Bit : Uses 64 (40) bit encoding.	
Format	You can set the input method for the WEP encryption key. ASCII: Input text. HEX: Input in HEX (hexadecimal).	
Key ID	Selects the WEP encryption ID key.	

Submenu	Function	
Encryption Key 1/Encryption Key 2/Encryption Key 3/Encryption Key 4	 You can enter the key used for WEP encryption. Enter the key in single-byte characters following instructions from the network administrator for the network in which the projector participates. The type of character and the number that can be entered differ according to the WEP Encryption and Format settings. 128Bit - ASCII: Single-byte alphanumeric, 13 characters. 64Bit - ASCII: Single-byte alphanumeric, 5 characters. 128Bit - HEX: 0 to 9 and A to F, 26 characters 64Bit - HEX: 0 to 9 and A to F, 10 characters 	
Authentication	Set the WEP authentication type.	
Туре	Open: Uses open system authentication.	
	Shared: Uses shared key authentication.	
Passphrase	 Enter the passphrase. You can enter at least 8 and up to 63 single byte alphanumeric characters. When using it with EasyMP Network Projection, you do not need to input the passphrase in the computer if it is the initial (default) passphrase. 	
	In the interests of security, we recommended that you change the passphrase periodically. If the network settings are initialized, it returns to the initial passphrase.	
	Treset menu" p.99	
	You can enter up to 32 characters on the Configuration menu. When entering more than 32 characters, use your Web browser to enter the text.	
	 "Changing Settings Using a Web Browser (Web Control)" p.70 	
	In Quick mode, the initial passphrase is set.	

Type of security

When the Wireless LAN unit is installed and you are using Advanced, it is strongly recommended that you set security. Select one of the following security methods.

• WEP

Data is encrypted with a code key (WEP key). This mechanism prevents communication unless the encrypted keys for the access point and the projector match.

• WPA

This is an encryption standard that improves security which is a weak point of WEP. Although there are multiple kinds of WPA encryption methods, this projector uses TKIP and AES.

WPA also includes user authentication functions. WPA authentication provides two methods: using an authentication server, or authenticating between a computer and an access point without using a server. This projector supports the latter method, without a server.



For setting details, follow the directions from the network administrator of your network.

Wired LAN menu (EB-X25/EB-W22/EB-X22/EB-X20 only)

Basic		Return 🕲
Wireless LAN	IP Settings IP Address Display	Off
Security		
Wired LAN 🛛 🛛		
Mail		
Others		
Reset		
Complete		

[Esc]/[@]:Return [�]:Select

Submenu	Function
IP Settings	You can make settings related to the following addresses. <u>DHCP</u> : Set to On to configure the network using DHCP. If this is set to On , you cannot set any more addresses. <u>IP Address</u> : You can input the IP address assigned to the projector. You can input a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 0.0.0.0, 127.x.x., 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) <u>Subnet Mask</u> : You can input the subnet mask for the projector. You can input a number from 0 to 255 in each field of the address. However, the following subnet masks cannot be used. 0.0.0.0, 255.255.255.255.255
	Gateway Address You can input the IP address for the gateway for the projector. You can input a number from 0 to 255 in each field of the address. However, the following gateway addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)

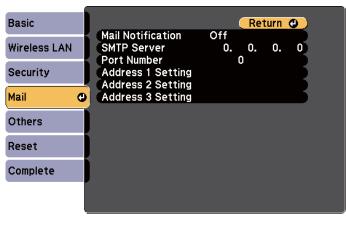
TOP



Submenu	Function		
IP Address Dis- play	To prevent the IP address from being displayed on Network Info in the Network Menu and on the LAN Standby screen, set this to Off.		

Mail menu

When this is set, you receive an email notification if a problem or warning occurs in the projector.



[Esc] /[•] :Return [+] :Select

Submenu	Function		
Mail Notification	Set to On to send an email to the preset addresses when a problem or warning occurs with a projector.		
SMTP Server	You can input the <u>IP address</u> for the SMTP server for the projector. You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)		

Submenu	Function		
Port Number	You can input the port number for the SMTP server. The default value is 25. You can input numbers between 1 to 65535.		
Address 1 Set- ting/Address 2 Setting/Address 3 Setting	You can input the email address of the destination to send the notification email to. You can register up to three destinations. You can enter up to 32 single-byte alphanumeric characters for the email addresses.		
	You can select the problems or warnings to be notified about by email. When the selected problem or warning occurs in the projector, an email is sent to the specified destination address notifying that a problem or warning has occurred. You can select multiple items from the displayed items.		



Others menu

Basic			Re	turn	•
Wired LAN		SNMP Trap IP Address 1	Off 0. 0.	0.	Q
Mail		Trap IP Address 2 AMX Device Discovery Crestron RoomView	0. 0. Off Off	0.	
Others	0	Bonjour Message Broadcasting	Off Off		Ę.
Reset		nebbuge broudbubting	UII		
Complete					
	_				

Submenu	Function				
Crestron Room- View (EB-X25/EB-W22/	Set this to On only when monitoring or controlling the projector over the network using Crestron RoomView [®] . Otherwise, set this to Off .				
EB-X22/EB-X20 only)	 "About Crestron RoomView[®] (EB-X25/EB-W22/EB-X22/ EB-X20 only)" p.75 				
	When this is set to On , the following functions are not available.				
	• Web control				
	Message Broadcasting (EasyMP Monitor plugin)				
Bonjour	Set this to On when connecting to the network using Bonjour.				
	See Apple's Web site for more information on the Bonjour service.				
	http://www.apple.com/				
Message Broad- casting	You can switch the EPSON Message Broadcasting function to enable or disable.				

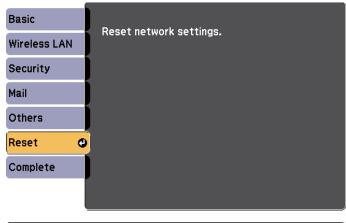
[Esc]/[@]:Return [�]:Select

Submenu	Function		
SNMP	Set to On 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. The default value is Off .		
Trap IP Address 1/Trap IP Ad- dress 2	You can register up to two IP addresses for the SNMP trap notification destination. You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)		
AMX Device Dis- covery	When the projector is connected to a network, set this to On to allow the projector to be detected by <u>AMX Device Discovery</u> . Set this to Off if you are not connected to an environment controlled with a controller from AMX or AMX Device Discovery.		



Reset menu

Resets all of the network settings.



[�]:Select [@]:Enter

Submenu	Function	
Reset network settings.	To reset all of the Network settings, select Yes.	

ECO Menu

When you make ECO menu settings, the projector performs functions to save power. When power saving settings have been enabled, a leaf icon is displayed next to each submenu.

Image		Return 🕘
Signal	Power Consumption Light Optimizer	Normal Off
Settings	Sleep Mode Sleep Mode Timer	On 20 min.
Extended	Lens Cover Timer A/V Mute Timer	On On Communication Off
Network	Standby Mode ECO Display Reset	Communication Off
ECO 🤆	P	
Info		
Reset)	

[Esc]/[@]:Return [+]:Select

[Menu]:Exit

Submenu	Function		
Power Consump- tion	You can set the lamp brightness to one of two settings. Select ECO if the images being projected are too bright, such as when projecting images in a dark room or onto a small screen. When ECO is selected, power consumption during projection decreases, and fan rotation noise is reduced. When using at high altitude or in locations subject to high temperatures, you may not be able to change settings.		
Light Optimizer	(This item can only be set when Power Consumption is set to Normal .) When set to On , the lamp brightness is adjusted according to the image being projected. This helps to reduce the amount of electricity being used by lowering the lamp's brightness according to the scene being projected. The setting is stored for each Color Mode.		



Submenu	Function			
Sleep Mode	When set to On , this automatically stops projection when no image signal is being input and no operations are carried out for a specified length of time. Also, if no image signal is input for approximately five minutes, the lamp dims until the power turns off. When an image signal is input, the projector returns to normal operating status.			
Sleep Mode Tim- er	When Sleep Mode is set to On , you can set the time before the projector automatically turns off within a range of 1 to 30 minutes.			
Lens Cover Timer	When set to On , this turns off the power automatically 30 minutes after the lens cover is closed. Also, if the lens cover is closed for approximately five minutes, the lamp dims until the power turns off. When the lens cover is opened, the projector returns to normal operating status.			
A/V Mute Timer	When set to On , this turns off the power automatically 30 minutes after A/V mute is enabled. Also, if A/V mute is enabled, the lamp dims until the power turns off. When A/V mute is disabled, the projector returns to normal operating status.			
Standby Mode	 If you set Communication On, you can perform the following operations even if the projector is in standby mode. Monitoring and controlling the projector over a network. Outputting audio and images to external equipment. (Only when A/V Output is set to Always On.) 			
ECO Display	When set to On , when the lamp brightness changes from normal to low or low to normal, leaf icons are displayed at the bottom-left of the projected screen to indicate the power-saving status.			
Reset	You can reset all adjustment values for the ECO menu to their default settings. See the following to return all menu items to their default settings.			

Info Menu (Display Only)

Lets you check the status of the image signals being projected and the status of the projector. Items that can be displayed vary depending on the source currently being projected. Depending on the model used, some input sources are not supported.

Image			
Signal	Lamp Hours Normal	0 H	
Settings	ECO Source Input Signal	0 H Computer1	
Extended	Resolution Refresh Rate	 0.00 Hz	
Network	Sync Info Status	SGNN 00000	
ECO	Serial Number Version		
Info	Event ID		
Reset	Į		
[♦]:Select			[Menu]:Exit

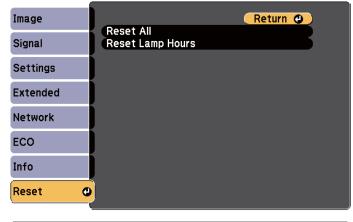
Submenu	Function				
Lamp Hours	You can display the cumulative lamp operating time*.				
	When the lamp replacement time is reached, the characters are displayed in yellow.				
Source	You can display the source name for the connected equipment currently being projected.				
Input Signal	You can display the content of Input Signal set in the Signal menu according to the source.				
Resolution	You can display the resolution.				
Refresh Rate	You can display the <u>refresh rate</u> \rightarrow .				

TOP	101
-----	-----

Submenu	Function				
Sync Info	You can display the image signal information. This information may be needed if service is required.				
Video Signal	You can display the settings for Video Signal in the Signal menu.				
Status	This is information about errors that have occurred on the projector. This information may be needed if service is required.				
Serial Number	Displays the projector's serial number.				
Version	Displays the projector's firmware version.				
Event ID	Displays the application error log. The "About Event ID" p.80				

* The cumulative use time is displayed as "0H" for the first 10 hours. 10 hours and above is displayed as "10H", "11H", and so on.

Reset Menu



[Esc] /[@] :Return [�] :Select

[Menu]:Exit

Submenu	Function			
Reset All	You can reset all items in the Configuration menu to their default settings. The following items are not reset to their defaults: Input Signal , User's Logo, Lamp Hours, Language, Password, Zoom (EB- S21/EB-S17 only), and all items on the Network menu.			
Reset Lamp Hours	Clears the cumulative lamp hours use time. Reset when you replace the lamp.			



Troubleshooting

This chapter explains how to identify problems and what to do if a problem is found.

Using the Help



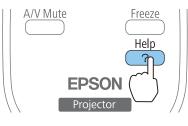
If a problem occurs with the projector, the Help screen is displayed to assist you by pressing the Help button. You can solve problems by answering the questions.



Press the [Help] button.

The Help screen is displayed.

Using the remote control

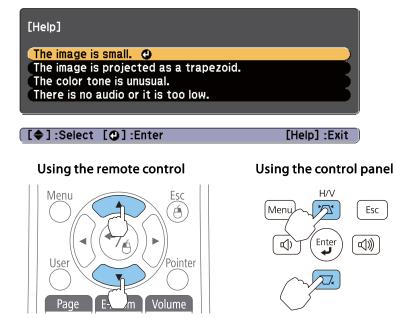




Using the control panel

2

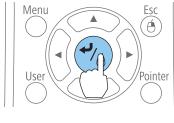
Select a menu item.



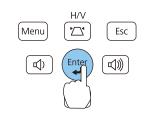
3

Confirm the selection.

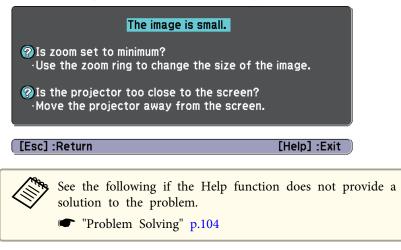
Using the remote control



Using the control panel



Questions and solutions are displayed as shown on the screen below. Press the [Help] button to exit the Help.



Problem Solving



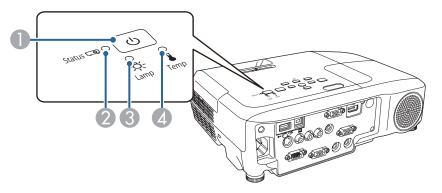
If you are having a problem with the projector, first check the projector's indicators and refer to "Reading the Indicators" below.

See the following if the indicators do not show clearly what the problem might be.

☞ "When the Indicators Provide No Help" p.108

Reading the Indicators

The projector is provided with the following four indicators that indicate the operating status of the projector.



- Power indicator
- 2 Status indicator
- Indicates the projector's status.

Indicates the projector's status.

- 3 Lamp indicator Indicates the projection lamp status.
- 4 Temp indicator
- Indicates the projection ramp status.

Indic	Indicators		Explanation	
Power supply	Status			
🔥 Blue - Lit	Off	Standby condition	Power is being supplied to the projector. When the $[U]$ power button is pressed in this condition, projection starts.	
		Network monitoring status	The projector is being monitored and controlled over a network (when Standby Mode is set to Communication On). If the power cord is disconnected and connected in this status, the power indicator flashes blue.	
🔥 Blue - Lit	📲 🚆 Blue - Flashing	Warm-up status	This is the status immediately after turning on the projector. Warm-up takes approximately 30 seconds after the lamp turns on. In this status you cannot turn off the projector, even if you press the $[\Phi]$ power button.	



Indicators		Status	Explanation	
Power supply Status				
		Cool down status	This is the status immediately after turning off the projector. In this status, all buttons are disabled.	
🔥 Blue - Lit	Blue - Lit	Normal status	The projector is projecting.	

Refer to the following table to see what the indicators mean and how to remedy problems that they indicate.

If all indicators are off, check that the power cord is connected correctly and that the power is being supplied normally.

Sometimes, when the power cord is unplugged, the [0] power indicator remains lit for a short period, but this is not a fault.

Indicators				Cause Remedy or Status	Remedy or Status
Power sup- ply	Status	Lamp	Tempera- ture		
ပ် Off	"∎	→ Orange - Flashing	Off	Internal Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. <i>Epson Projector Contact List</i>
ပ် Off	ing	□ Off	Orange - Flashing	Fan Error Sensor Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. <i>Epson Projector Contact List</i>
ტ Off	Blue - Flash- ing	Off	Orange - Lit	High Temp Error (Overheating)	 The lamp turns off automatically and projection stops. Wait for about five minutes. After about five minutes the projector switches to standby mode, so check the following two points. Check that the air filter and air exhaust vent are clear, and that the projector is not positioned against a wall. If the air filter is clogged, clean or replace it. Cleaning the Air Filter" p.119, "Replacing the Air Filter" p.124 If the error continues after checking the points above, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. Epson Projector Contact List
					When using at an altitude of 1500 m or more, set High Altitude Mode to On . The "Extended Menu" p.89



Indicators				Cause Remedy or Status	Remedy or Status
Power sup- ply	Status	Lamp	Tempera- ture		
ပ Off	unities and the second	Grange - Lit	Off	Lamp Error Lamp Failure	 Check the following two points. Take out the lamp and check if it is cracked. "Replacing the Lamp" p.121 Clean the air filter. "Cleaning the Air Filter" p.119
					If the lamp is not cracked: Reinstall the lamp and plug in the power cord. If the error continues: Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. Image: Epson Projector Contact List
					If the lamp is cracked: Contact your local dealer or the nearest address provided in the Epson Projector Contact List. (Images cannot be projected until the lamp is replaced.) Image: Epson Projector Contact List
					When using at an altitude of 1500 m or more, set High Altitude Mode to On . The "Extended Menu" p.89
				Lamp Cover Open	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. The placing the Lamp" p.121
ပံ Off	u Blue - Flash- ing	⊖ ∎⊊ Orange - Flashing	-}■ - Orange - Flashing	Auto Iris Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. <i>Epson Projector Contact List</i>
ပံ Off	uter - Flash- ing	Orange - Lit	Orange - Lit	Power Err.	
Blue - Flash- ing	State de- pendant in- dication	State de- pendant in- dication	Orange - Flashing	High Temp Warn- ing	 (This is not an abnormality. However, if the temperature rises too high again, projection stops automatically.) Check that the air filter and air exhaust vent are clear, and that the projector is not positioned against a wall. If the air filter is clogged, clean or replace it. Cleaning the Air Filter" p.119, "Replacing the Air Filter" p.124



Indicators				Cause	Remedy or Status
Power sup- ply	Status	Lamp	Tempera- ture		
Blue - Flash- ing	State de- pendant in- dication	⊖ ∎⊖ Orange - Flashing	State de- pendant in- dication	Replace Lamp	 Replace it with a new lamp. "Replacing the Lamp" p.121 If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may explode increases. Replace it with a new lamp as soon as possible.

• See the following if the projector is not operating properly, even though the indicators are all showing normal.

- ☞ "When the Indicators Provide No Help" p.108
- If the indicators are in a state not shown in this table, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List.
- Epson Projector Contact List

Problem Solving



When the Indicators Provide No Help

If any of the following problems occur and the indicators do not offer a solution, refer to the pages given for each problem.

Problems Relating to Images

• No images appear Projection does not start, the projection area is completely black, or the projection area is completely blue.	• p.109
• Moving images are not displayed Moving images being projected from a computer appear black and nothing is projected.	☞ p.110
Projection stops automatically	🖝 p.110
• The message "Not supported" is displayed	• p.110
• The message "No Signal" is displayed	🖝 p.111
• Images are fuzzy, out of focus, or distorted	🖝 p.111
• Interference or distortion appear in images	🖝 p.112
• The image is truncated (large) or small, the aspect ratio is not suitable, or the image has been reversed Only part of the image is displayed, the height and width ratios of the image are not correct, or the image may appear reversed from top to bottom or left to right.	• p.113
• Image colors are not right The whole image appears purplish or greenish, images are black & white, or colors appear dull.	• p.113
• Images appear dark	☞ p.114

Problems when projection starts

• p.115

Other Problems

• No sound can be heard or the sound is faint	
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• There is noise in the audio	🖝 p.116
The remote control does not work	🖝 p.116
• I want to change the language for messages and menus	• p.117
• Mail is not received even if a problem occurs in the projector	• p.117
Cannot change settings using a Web browser	• p.117



Problems Relating to Images

No images appear

Check	Remedy
Did you press the [也] power button?	Press the $[0]$ power button to turn the power on.
Are the indicators switched off?	The power cord is not connected correctly or power is not being supplied.
	Connect the projector's power cord correctly.
	"From Installation to Projection" p.34
	Check that your electrical outlet or power source is functioning correctly.
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mute.
	"Hiding the Image and Sound Temporarily (A/V Mute)" p.57
Is the A/V mute slide closed?	Open the A/V mute slide.
	"Front/Top" p.11
Are the Configuration menu settings correct?	Reset all of the settings.
	Reset - Reset All p.101
Is the image to be projected completely black?	Some input images, such as screen savers, may be completely black.
(Only when projecting computer images)	
Is the image signal format setting correct?	Change the setting according to the signal for the connected equipment.
(Only when projecting images from a video source)	Signal - Video Signal p.86
Is the USB cable connected correctly?	Check that the USB cable is connected correctly. Reconnect it if it is not connected or not connected properly.
(Only when projecting USB Display)	
Is Windows Media Center displayed in full screen?	When Windows Media Center is displayed at full screen, you cannot project using USB Display or network connection.
(Only when projecting using USB Display or network connection)	Reduce the screen size.
Is an application using the Windows DirectX function displayed?	Applications using the Windows DirectX function may not display images correctly.
(Only when projecting using USB Display or network connection)	



Moving images are not displayed

Check	Remedy
Is the computer's image signal being output to the LCD and the monitor? (Only when projecting images from a laptop computer or a computer with a built-in LCD screen)	Change the image signal from the computer to external output only. Check your computer's documentation, or contact the computer's manufacturer.
Are the contents of the moving image you are trying to project copyright protected?	The projector may not be able to project copyright protected moving images that are being played back on a computer. For more details, see the user's guide supplied with the player and so on.

Projection stops automatically

Check	Remedy
Are Sleep Mode, Lens Cover Timer, or A/V Mute Timer set to	If any of these are set to On , the power turns off automatically in the following situations.
On?	 When Sleep Mode is set to On: If no operations are performed for a specified length of time while no image signal is being input. When Lens Cover Timer is set to On: If approximately 30 minutes has passed since the lens cover was closed. When A/V Mute Timer is set to On: If approximately 30 minutes has passed since the A/V mute was enabled. To prevent the projector from switching off automatically, make sure each setting is set to Off. "ECO Menu" p.99
Is the computer in power-saving mode?	If the computer is in power-saving mode and no operations are performed for a specified period of time, the image may disappear. Perform an operation on the computer to display the image again.

The message "Not supported" is displayed

Check	Remedy
Is the image signal format setting correct?	Change the setting according to the signal for the connected equipment.
(Only when projecting images from a video source)	Signal - Video Signal p.86
Do the image signal resolution and the refresh rate correspond to the	Refer to the computer's documentation for how to change the image signal resolution and the refresh rate output from
mode?	the computer.
(Only when projecting computer images)	"Supported Monitor Displays" p.133



The message "No Signal" is displayed

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.
	"From Installation to Projection" p.34
Is the correct port selected?	Change the image by pressing the [Source Search] button on the remote control or the control panel.
	TAutomatically Detect Input Signals and Change the Projected Image (Source Search)" p.35
Is the power for the computer or video source turned on?	Turn the power on for the equipment.
Are the image signals being output to the projector? (Only when projecting images from a laptop computer or a computer with a built-in LCD screen)	If the image signals are only being output to the computer's LCD monitor or to the accessory monitor, you need to change the output to an external destination as well as the computer's own monitor. For some computer models, when the image signals are output externally, they no longer appear on the LCD monitor or accessory monitor.
	If the connection is made while the power of the projector or computer is already turned on, the Fn key (Function key) that changes the computer's image signal to external output may not work. Turn the power for the computer and the projector off and then back on again.
	"From Installation to Projection" p.34
	Computer's documentation
Is the computer in power-saving mode?	If the computer is in power-saving mode and no operations are performed for a specified period of time, the image may disappear. Perform an operation on the computer to display the image again.

Images are fuzzy, out of focus, or distorted

Check	Remedy
Is Auto V-Keystone set to Off?	Setting it to On enables Auto V-Keystone.
	Settings - Keystone - H/V-Keystone - Auto V-Keystone p.88
	If you are using the projector with this setting off, manually adjust the projected image.
	"Correcting manually" p.41
Is the focus adjusted correctly?	Turn the focus ring to adjust the focus.
	"Correcting the Focus" p.45
Is the projector at the correct distance?	Is it projecting outside of the recommended projection distance range?
	Setup within the recommended range.
	"Screen Size and Projection Distance" p.128



Check	Remedy
Is the keystone adjustment value too large?	Lower the projection angle to reduce the amount of keystone correction. "Adjusting the Image Position" p.45
Has condensation formed on the lens?	If the projector is suddenly taken from a cold environment to a warm environment, or if sudden ambient temperature changes occur, condensation may form on the surface of the lens, and this may cause the images to appear fuzzy. Set the projector up in the room about one hour before it is used. If condensation forms on the lens, turn the projector off and wait for the condensation to disappear.

Interference or distortion appear in images

Check	Remedy
Is the image signal format setting correct?	Change the setting according to the signal for the connected equipment.
(Only when projecting images from a video source)	🖝 Signal - Video Signal p.86
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.
	"Connecting Equipment" p.25
Is an extension cable being used?	If an extension cable is used, electrical interference may affect the signals. Use the cables supplied with the projector to check if the cables you are using may be causing the problem.
Is the correct resolution selected?	Set the computer so that the signals being output are compatible with the projector.
(Only when projecting computer images)	"Supported Monitor Displays" p.133
	Computer's documentation
Are the <u>Sync.</u> and <u>Tracking</u> settings adjusted correctly?	Press the [Auto] button on the remote control or the [←] button on the control panel to perform automatic adjustment.
(Only when projecting computer images)	If the images are not adjusted correctly even after performing automatic adjustment, you can also make adjustments
	from the Configuration menu.
	Signal - Tracking, Sync. p.86
Is Transfer layered window selected?	Click All Programs - EPSON Projector - Epson USB Display - Epson USB Display Vx.xx Settings, and then clear the
(Only when projecting USB Display)	Transfer layered window check box.
The mouse cursor flickers (only when projecting USB Display)	Is Make the movement of the mouse pointer smooth. selected?
	Click All Programs - EPSON Projector - Epson USB Display - Epson USB Display Vx.xx Settings, and then select Make the movement of the mouse pointer smooth. (This is not available for Windows 2000.)
	For Windows Vista/7, Windows Aero is disabled when this is selected.



The image is truncated (large) or small, the aspect is not suitable, or the image has been reversed

Check	Remedy
Is a wide panel computer image being projected?	Change the setting according to the signal for the connected equipment.
(Only when projecting computer images)	Signal - Resolution p.86
Is the image still being enlarged by E-Zoom?	Press the [Esc] button on the remote control to cancel E-Zoom.
	"Enlarging Part of the Image (E-Zoom)" p.59
Is the image position adjusted correctly?	Press the [Auto] button on the remote control or the [Enter] button on the control panel to perform automatic adjustment of the computer image being projected. If the images are not adjusted correctly even after performing automatic adjustment, you can also make adjustments from the Configuration menu.
	Apart from computer image signals, you can adjust other signals while projecting from the Configuration menu. Signal - Position p.86
Is the computer set for dual display? (Only when projecting computer images)	If dual display is activated in the Display Properties of the computer's Control Panel, only about half of the image on the computer screen is projected. To display the entire image on the computer screen, turn off the dual display setting.
Is the correct resolution selected?	Set the computer so that the signals being output are compatible with the projector.
(Only when projecting computer images)	"Supported Monitor Displays" p.133
	Computer's documentation
Is the projection mode correct?	Depending on how the projector is installed, set the projection mode from one of the following: Front, Front/Ceiling, Rear, Rear/Ceiling.
	Extended - Projection p.89
	"Installation Methods" p.22

Image colors are not right

Check	Remedy
Do the input signal settings match the signals from the connected device?	 Change the following settings according to the signal for the connected equipment. When the image is from a device connected to the Computer port. Signal - Input Signal p.86 When the image is from a device connected to the Video or S-Video port.
	 When the image is from a device connected to the video or 5-video port. Signal - Video Signal p.86



Check	Remedy
Is the image brightness adjusted correctly?	Adjust the Brightness setting from the Configuration menu.
	Image - Brightness p.85
Are the cables connected correctly?	Check that all the cables required for projection are securely connected.
	Check that no cables are disconnected and that there are no poor contacts in the cables.
	"Connecting Equipment" p.25
Is the <u>contrast</u> adjusted correctly?	Adjust the Contrast setting from the Configuration menu.
	Image - Contrast p.85
Is the color adjustment set correctly?	Adjust the Color Adjustment setting from the Configuration menu.
	Image - Color Adjustment p.85
Are the color saturation and tint adjusted correctly?	Adjust the Color Saturation and Tint settings from the Configuration menu.
(Only when projecting images from a video source)	Image - Color Saturation, Tint p.85

Images appear dark

Check	Remedy
Is the image brightness set correctly?	Adjust the Brightness and Power Consumption settings from the Configuration menu.
	Image - Brightness p.85
	ECO - Power Consumption p.99
Is the <u>contrast</u> adjusted correctly?	Adjust the Contrast setting from the Configuration menu.
	Timage - Contrast p.85
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images become darker and the color quality becomes poorer. When this happens, replace the lamp with a new lamp.
	"Replacing the Lamp" p.121
Are you using the projector at a high altitude or in a location subject to high temperatures?	The screen may become dark when using at high altitude or in a location subject to high temperatures. Although you cannot make Power Consumption settings at this time, you can continue to use the projector.
Is it projecting outside of the recommended projection distance range?	The image becomes darker if the projection distance is too large. Setup within the recommended range. The image becomes darker if the projection distance is too large. Setup within the recommended range.



Problems when Projection Starts

The projector does not turn on

Check	Remedy
Did you press the $[U]$ power button?	Press the $[U]$ power button to turn the power on.
Are the indicators switched off?	The power cord is not connected correctly or power is not being fully supplied. Disconnect and then reconnect the power cord.
	"From Installation to Projection" p.34
	Check that your electrical outlet or power source is functioning correctly.
Do the indicators turn on and off when the power cord is touched?	There is probably a poor contact in the power cord, or the power cord may be defective. Reinsert the power cord. If this does not solve the problem, stop using the projector, disconnect the power cord from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List.
Is the Control Panel Lock set to Full Lock?	Press the $[0]$ power button on the remote control. If you do not want to use Control Panel Lock , change the setting to Off .
	Settings - Control Panel Lock p.88
Is remote control operation restricted?	Check the Remote Receiver from the Configuration menu.
	Settings - Remote Receiver p.88

Other Problems

No sound can be heard or the sound is faint

Check	Remedy
Check that the audio/video cable is securely attached to both the projector and audio source.	Disconnect the cable from the Audio port, and then reconnect the cable.
Is the volume for the projector or the connected equipment set to the	Adjust the volume so that sound can be heard.
minimum?	✓ Settings - Volume p.88
	"Adjusting the Volume" p.46



Check	Remedy
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mute.
	"Hiding the Image and Sound Temporarily (A/V Mute)" p.57
Is the audio cable's specification "No resistance"?	When using a commercially available audio cable, make sure it is labeled "No resistance".
Is it connected with an HDMI cable?	If no audio is output when connecting via an HDMI cable, set the connected equipment to PCM output.
Is Output audio from the projector selected? (Only when projecting in USB Display, when projecting one screen	Click All Programs - EPSON Projector - Epson USB Display - Epson USB Display Vx.xx Settings, and then select Output audio from the projector.
in EasyMP Network Projection, or one screen in EasyMP Multi PC Projection.)	

There is noise in the audio (when projecting EasyMP Network Projection, EasyMP MultiPC Projection, USB Display, or Quick Wireless Connection)

Check	Remedy	
1	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.	

The remote control does not work

Check	Remedy
Is the remote control light-emitting area pointing towards the	Point the remote control towards the remote receiver.
remote receiver on the projector during operation?	"Remote control operating range" p.20
Is the remote control too far from the projector?	The operating range for the remote control is about six meters.
	"Remote control operating range" p.20
Is direct sunlight or strong light from fluorescent lamps shining onto	Set the projector up in a location where strong light does not shine onto the remote receiver.
the remote receiver?	Settings - Remote Receiver p.88
Is the correct setting for the Remote Receiver selected?	Check the Remote Receiver from the Configuration menu.
	Settings - Remote Receiver p.88
Are the batteries dead or have the batteries been inserted correctly?	Make sure the batteries are inserted correctly or replace the batteries with new ones if necessary.
	"Replacing the remote control batteries" p.19



I want to change the language for messages and menus

Check	Remedy
Change the Language setting.	Adjust the Language setting from the Configuration menu.
	Extended - Language p.89

Mail is not received even if a problem occurs in the projector

Check	Remedy	
Is Standby Mode set to Communication On?	To use the Mail Notification function when the projector is in standby, set Communication On in Standby Mode from the Configuration menu.	
	ECO - Standby Mode p.99	
Did a fatal abnormality occur and the projector come to a sudden stop?	len If the abnormal state continues, contact your local dealer or the nearest address provided in the Epson Projector Con List.	
	Epson Projector Contact List	
Is power being supplied to the projector?	Check that your electrical outlet or power source is functioning correctly.	
Is Mail Notification function set correctly in the Configuration menu?	An error notification email is sent according to the Mail settings in the Configuration menu. Check if it is set correctly.	

Cannot change settings using a Web browser

Check Remedy	
Are the user ID and password correct?	Enter "EPSONWEB" as the user ID. This cannot be changed. Enter the user ID even if the password setting is disabled. Enter the characters set for the Web Control Password as the password. The initial password is "admin".



Maintenance

This chapter provides information on maintenance procedures to ensure the best level of performance from the projector for a long time to come.



You should clean the projector if it becomes dirty or if the quality of projected images starts to deteriorate.

🕂 Caution

Turn off the projector's power before cleaning. Otherwise, it could cause an electric shock.

Cleaning the Projector's Surface

Clean the projector's surface by wiping it gently with a soft cloth.

If the projector is particularly dirty, moisten the cloth with water containing a small amount of neutral detergent, and then firmly wring the cloth dry before using it to wipe the projector's surface.

Attention

Do not use volatile substances such as wax, alcohol, or thinner to clean the projector's surface. The quality of the case may change or become discolored.

Cleaning the Lens

Use a commercially available cloth for cleaning glasses to gently wipe the lens.

🕂 Warning

Do not use sprays that contain flammable gas to remove dust and lint from the lens. The projector may catch fire due to the high internal temperature of the lamp.

Attention

Do not rub the lens with harsh materials or subject the lens to shocks as it can easily become damaged.

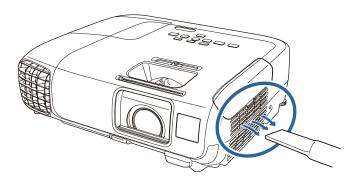
Cleaning the Air Filter

Clean the air filter and the air intake vent when the following message is displayed.

"The projector is overheating. Make sure nothing is blocking the air vent, and clean or replace the air filter."

Attention

- If dust collects on the air filter, it can cause the internal temperature of the projector to rise, and this can lead to problems with operation and shorten the optical engine's service life. Clean the air filter immediately when the message is displayed.
- Do not rinse the air filter in water. Do not use detergents or solvents.



Cleaning





• If a message is frequently displayed, even after cleaning, it is time to replace the air filter. Replace it with a new air filter.

- ☞ "Replacing the Air Filter" p.124
- It is recommended that you clean these parts at least once every three months. Clean them more often than this if using the projector in a particularly dusty environment.



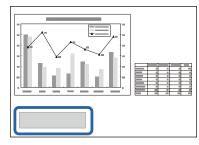
This section explains how to replace the lamp and the air filter.

Replacing the Lamp

Lamp replacement period

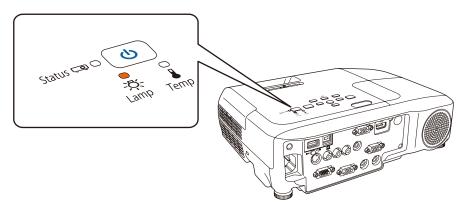
- It is time to replace the lamp when:
- The following message is displayed.

"Time to replace the lamp. Please contact your Epson projector reseller or visit www.epson.com to purchase."



The message is displayed for 30 seconds.

• The power indicator is flashing blue, and the lamp indicator is flashing orange.



• The projected image gets darker or starts to deteriorate.

Attention

• The lamp replacement message is set to appear after the following time periods in order to maintain the initial brightness and quality of the projected images.

When Power Consumption is set to Normal: About 4,900 hours

When Power Consumption is set to ECO: About 5,900 hours

- ECO Power Consumption p.99
- 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 immediately 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 option lamps. The use of nongenuine 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.

How to replace the lamp

The lamp can be replaced even when the projector is suspended from a ceiling.



🚹 Warning

- When replacing the lamp because it has stopped illuminating, 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 your local physician immediately.
- Never disassemble or remodel the lamp. If a modified or disassembled lamp is installed in the projector and used, it could cause a fire, electric shock, or an accident.

🕂 Caution

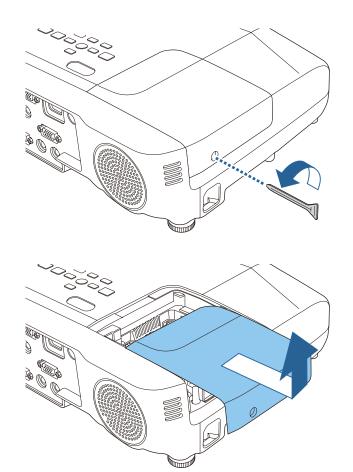
Wait until the lamp has cooled down sufficiently before removing the lamp cover. If the lamp is still hot, burns or other injuries may result. It takes about one hour after the power has been turned off for the lamp to be cool enough.



After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cord.

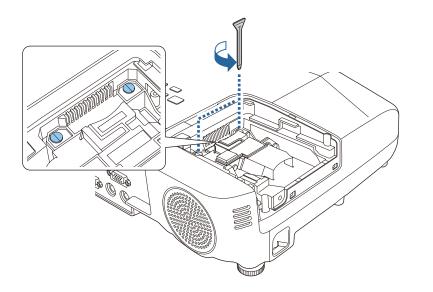
2 Wait until the lamp has sufficiently cooled down, and then remove the lamp cover at the top of the projector.

Loosen the Lamp cover fixing screw with the screwdriver supplied with the new lamp unit or a cross-head screwdriver. Then slide the lamp cover straight forward and lift it to remove.





Loosen the two lamp fixing screws.

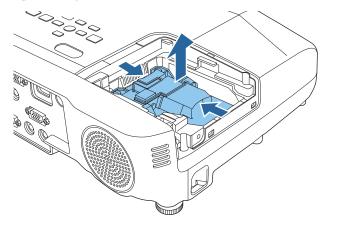




Grip the raised section of the old lamp and remove it.

If the Lamp is cracked, replace it with a new lamp, or contact your local dealer for further advice.

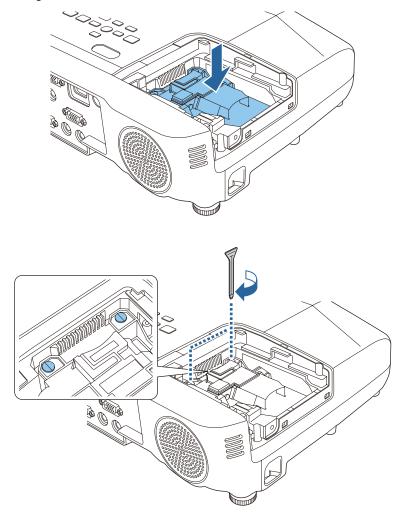
Epson Projector Contact List





Install the new lamp.

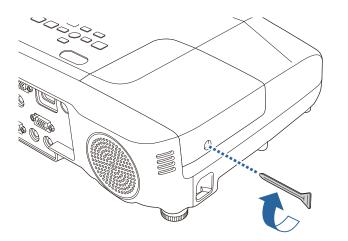
Insert the new Lamp along the guide rail in the correct direction so that it fits in place, push in firmly, and once it is fully inserted tighten the two screws.





Replace the lamp cover.

TOP



Attention

- Make sure you install the lamp securely. If the lamp cover is removed, the lamps turn off automatically as a safety precaution. If the lamp or the lamp cover is not installed correctly, the lamp will not turn on.
- This product includes a lamp component that contains mercury (Hg). Please consult your local regulations regarding disposal or recycling. Do not dispose of it with normal waste.

Resetting the lamp hours

The projector records how long the lamp is turned on and a message and indicator notify you when it is time to replace the lamp. After replacing the lamp, make sure you reset the Lamp Hours from the Reset menu.

Reset - Reset Lamp Hours p.101

Only reset the Lamp Hours after the lamp has been replaced. Otherwise the lamp replacement period is not indicated correctly.



Replacing the Air Filter

Air filter replacement period

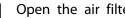
If the message is displayed frequently even though the air filter has been cleaned, replace the air filter.

How to replace the air filter

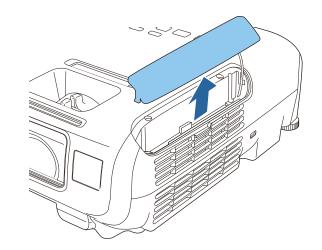
The air filter can be replaced even when the projector is suspended from a ceiling.



After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cord.



Open the air filter cover.

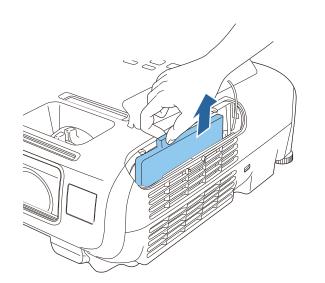




Remove the air filter.

Grip the air filter cover tab and pull it straight out.





5

Close the air filter cover.

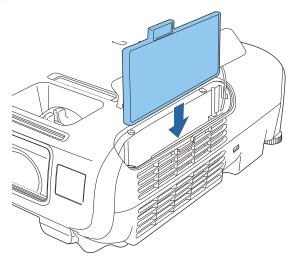


Dispose of used air filters properly in accordance with your local regulations. Filter frame: ABS Filter: Polyurethane foam



Install the new air filter.

Slide the air filter from the outside and press in until it firmly clicks into place.





Appendix

The following optional accessories and consumables are available. Please purchase these products as and when needed. The following list of optional accessories and consumables is current as of: May 2013. Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

Optional Accessories

Interactive Unit ELPIU01

Use when operating the computer screen on the projection surface.

Wireless LAN unit ELPAP07

Use this to project images from a computer via a wireless communication.

Quick Wireless Connection USB Key ELPAP09

Use when you want to quickly establish one-to-one connection between the projector and a computer with Windows installed.

Document Camera ELPDC06/ELPDC11/ELPDC12/ELPDC20 Use when projecting images such as books, OHP documents, or slides.

Soft carrying case ELPKS67

A soft case to carry the projector.

50" portable screen ELPSC32 A compact screen that can be carried easily. (<u>Aspect Ratio</u>) 4:3)

60" portable screen ELPSC27

80" portable screen ELPSC28

100" 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)

53" portab	ole screen	ELPSC30		
64" portat	ole screen	ELPSC31		
Portable mag	gnetic screens.	(aspect ratio 4	3)	
Multi-aspe	ct screen El	_PSC26		
This is a po	ortable multi-a	spect screen.		
Computer	cable ELPK	C02		
(1.8 m - fo	or mini D-S	ub15-pin/mini	D-Sub 15pin)	
Computer	cable ELPK	C09		
(3 m - for	mini D-Sub	o15-pin/mini [)-Sub 15pin)	
Computer	cable ELPK	C10		
(20 m - fo	r mini D-Su	ıb15-pin/mini	D-Sub 15pin)	
Componen	nt video cab	le ELPKC19		
(3 m - for	mini D-Sub	0 15-pin/RCA	male×3)	
Use to conn	lect a <u>compor</u>	<u>ient video</u> >> sou	rce.	
Ceiling pip	oe (450 mm)* ELPFP13		
Ceiling pip	be (700 mm)* ELPFP14		
Use when it	netalling the r	rojector on a h	ah ceiling	

Use when installing the projector on a high ceiling.

Ceiling mount* ELPMB23 Use when installing the projector on a ceiling.

* Special expertise is required to suspend the projector from a ceiling. Contact your local dealer or the nearest address provided in the Epson Projector Contact List.

🖝 Epson Projector Contact List

Consumables

Lamp unit ELPLP78

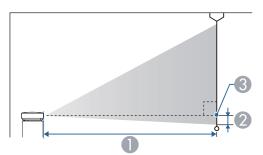
Use as a replacement for used lamps.

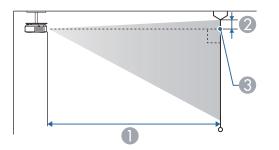
Air filter ELPAF32

Use as a replacement for used air filters.



Projection Distance (For EB-X25)





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

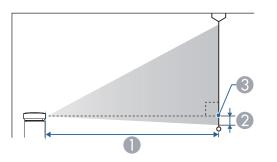
			Unit: cm	
		0		
4:3 Screen Size		Minimum (Wide) to Maximum (Tele)	2	
30"	61x46	84 - 101	-5	
40"	81x61	113 - 136	-6	
50"	100x76	142 - 171	-8	

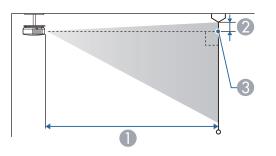
4.5.6	<i>c</i> .	0	
4:3 Screen Size		Minimum (Wide) to Maximum (Tele)	0
60"	120x91	171 - 206	-10
80"	160x120	229 - 275	-13
100"	200x150	287 - 345	-16
150"	300x230	432 - 519	-24
200"	410x300	577 - 693	-32
250"	510x380	722 - 867	-40
300"	610x460	867 - 1041	-48

		0		
16:9 Sc	reen Size	Minimum (Wide) to Maximum (Tele)	2	
30"	66x37	91 - 110	1	
40"	89x50	123 - 148	1	
50"	110x62	155 - 186	2	
60"	130x75	186 - 224	2	
80"	180x100	249 - 300	3	
100"	220x120	313 - 376	3	
150"	330x190	471 - 566	5	
200"	440x250	629 - 755	7	
250"	550x310	787 - 945	9	
275"	610x340	866 - 1040	10	



Projection Distance (For EB-X22/EB-X21/EB-X20/ EB-X17)





Projection dista	ance
------------------	------

- ② Distance from the center of the receiver's lens to the base of the screen (or to the top of the screen, if suspended from a ceiling)
- 3 Center of lens

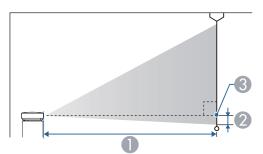
			Unit: cm
		0	
4:3 Screen Size		Minimum (Wide) to Maximum (Tele)	0
30"	61x46	89 - 107	-5
40"	81x61	119 - 143	-7

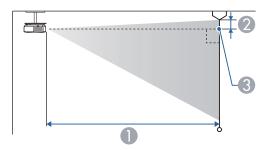
		0	
4:3 Sc	reen Size	Minimum (Wide) to Maximum (Tele)	2
50"	100x76	150 - 180	-8
60"	120x91	180 - 217	-10
80"	160x120	241 - 290	-14
100"	200x150	302 - 363	-17
150"	300x230	454 - 546	-25
200"	410x300	607 - 729	-34
250"	510x380	759 - 912	-42
300"	610x460	912 - 1095	-51

		0	
16:9 So	creen Size	Minimum (Wide) to Maximum (Tele)	2
30"	66x37	97 - 117	1
40"	89x50	130 - 156	1
50"	110x62	163 - 196	1
60"	130x75	196 - 236	1
80"	180x100	263 - 316	2
100"	220x120	329 - 396	2
150"	330x190	495 - 595	3
200"	440x250	661 - 794	5
250"	550x310	827 - 994	6
275"	610x340	910 - 1093	6



Projection Distance (For EB-W22)





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

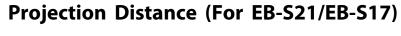
			Unit: cm
		0	
4:3 Sc	reen Size	Minimum (Wide) to Maximum (Tele)	2
30"	61x46	94 - 113	-4
40"	81x61	126 - 152	-5
50"	100x76	158 - 190	-7

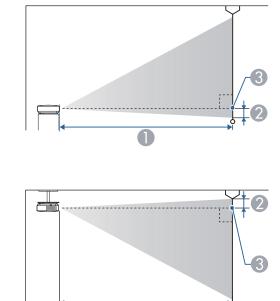
		0		
4	:3 Screen Size	Minimum (Wide) to Maximum (Tele)	2	
60"	120x91	190 - 229	-8	
70"	142x107	222 - 267	-10	
80"	160x120	255 - 306	-11	
100	" 200x150	319 - 383	-14	
150	" 300x230	480 - 577	-20	
200	" 410x300	641 - 770	-27	
280	" 570x430	898 - 1079	-38	

		0	
16:9 So	reen Size	Minimum (Wide) to Maximum (Tele)	2
32"	71x40	91 - 109	-2
35"	78x44	99 - 120	-2
40"	89x50	114 - 137	-2
50"	110x62	143 - 172	-3
60"	130x75	172 - 208	-3
70"	155x87	202 - 243	-4
80"	180x100	231 - 278	-4
100"	220x120	289 - 348	-5
150"	330x190	435 - 523	-8
200"	440x250	582 - 699	-11
310"	690x390	903 - 1084	-17

			Unit: cm
		0	
16:10 S	creen Size	Minimum (Wide) to Maximum (Tele)	2
33"	71x44	91 - 110	-4
35"	76x47	97 - 117	-4
40"	86x54	111 - 134	-5
50"	110x67	139 - 168	-6
60"	130x81	168 - 202	-7
80"	170x110	225 - 270	-10
100"	220x130	281 - 338	-12
150"	320x200	424 - 509	-18
200"	430x270	566 - 680	-24
320"	690x430	907 - 1089	-39

Unit: cm





0

- Projection distance
- ② Distance from the center of the receiver's lens to the base of the screen (or to the top of the screen, if suspended from a ceiling)
- Center of lens

Unit: c	m
---------	---

		0	2
4:3 Sc	reen Size	Minimum (Wide) to Maximum (Tele)	Wide
30"	61x46	88 - 119	-5
50"	100x76	147 - 200	-8
60"	120x91	177 - 240	-10

131

TOP



		0	2
4:3 Sc	reen Size	Minimum (Wide) to Maximum (Tele)	Wide
70"	142x107	207 - 280	-12
80"	160x120	237 - 321	-13
100"	200x150	297 - 401	-17
150"	300x230	446 - 603	-25
200"	410x300	595 - 805	-33

		0	2
16:9 S	creen Size	Minimum (Wide) to Maximum (Tele)	Wide
28"	62x35	89 - 121	1
30"	66x37	96 - 130	1
50"	110x62	161 - 218	1
60"	130x75	193 - 262	2
70"	155x87	226 - 306	2
80"	180x100	258 - 349	2
100"	220x120	323 - 437	3
150"	330x190	486 - 657	4
200"	440x250	649 - 877	5

Supported Resolutions

Computer signals (analog RGB)

For EB-X25/EB-W22/EB-X22/EB-X21/EB-X20/EB-X17

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60/72/75/85	640x480
SVGA	56/60/72/75/85	800x600
XGA	60/70/75/85	1024x768
WXGA	60	1280x768
	60	1366x768
	60/75/85	1280x800
WXGA+	60/75/85	1440x900
WXGA++	60	1600x900
SXGA	70/75/85	1152x864
_	60/75/85	1280x1024
	60/75/85	1280x960
SXGA+	60/75	1400x1050
WSXGA+*1,2	60	1680x1050
UXGA	60	1600x1200
MAC13"	67	640x480
MAC16"	75	832x624
MAC19"	75	1024x768
	59	1024x768
MAC21"	75	1152x870

*1 EB-W22 only

*2 Only compatible when **Wide** is selected as the **Resolution** from the Configuration menu.

For EB-S21/EB-S17

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	VGA 60/72/75/85	
SVGA	56/60/72/75/85	800x600
XGA	60/70/75/85	1024x768
WXGA	60	1280x768
	60	1366x768
	60/75	1280x800
WXGA+	60	1440x900
SXGA	70/75	1152x864
-	60	1280x1024
-	60	1280x960
SXGA+	60	1400x1050
MAC13"	67	640x480
MAC16"	75	832x624
MAC19"	75	1024x768
	59	1024x768
MAC21"	75	1152x870

Even when signals other than those mentioned above are input, it is likely that the image can be projected. However, not all functions may be supported.

Component video

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480i)	60	720x480
SDTV (576i)	50	720x576



Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480p)	60	720x480
SDTV (576p)	50	720x576
HDTV (720p)	50/60	1280x720
HDTV (1080i)	50/60	1920x1080

Composite video

Signal	Refresh Rate (Hz)	Resolution (dots)
TV (NTSC)	60	720x480
TV (SECAM)	50	720x576
TV (PAL)	50/60	720x576

Input signal from the HDMI port

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60	640x480
SVGA	60	800x600
XGA	60	1024x768
WXGA	60	1280x800
	60	1366x768
WXGA+	60	1440x900
WXGA++*1	60	1600x900
SXGA	60	1280x960
SAGA	60	1280x1024
SXGA+	60	1400x1050
UXGA*1	60	1600x1200
WSXGA+*2	60	1680x1050

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480i/480p)	60	720x480
SDTV (576i/576p)	50	720x576
HDTV (720p)	50/60	1280x720
HDTV (1080i)	50/60	1920x1080
HDTV (1080p)	24/30/50/60	1920x1080

*1 EB-X25/EB-W22/EB-X22/EB-X21/EB-X20/EB-X17 only

*2 EB-W22 only



Projector General Specifications

Product na	ame	EB-S21/EB-S17	EB-X22/EB-X21/EB-X20/EB- X17	EB-W22	EB-X25
Dimensio	ns	297 (W) x 89 (H) x 244 (D) mm			
LCD panel	l size	0.55" 0.55" 0.59" Wide 0.63'			0.63"
Display m	ethod		Polysilicon TF	T active matrix	
Resolution	n	480,000 786,432 1,024,000 SVGA (800 (W) x 600 (H) dots) x XGA (1024 (W) x 768 (H) dots) x WXGA (1280 (W) x 800 (H) dots) XGA (1024 (W) x 768 (H) dots) x 3 3 x 3 x 3 XGA (1024 (W) x 768 (H) dots) x XGA (1024 (W) x 768 (H) dots) x		786,432 XGA (1024 (W) x 768 (H) dots)x 3	
Focus adju	ustment		Ма	nual	
Zoom adju	ustment	Digital (1-1.35)		Manually (1-1.2)	
Lamp		UHE lamp, 200 W Model No.: ELPLP78			
Max. audi	o output	5 W			
Speaker		1			
Power sup	oply	100-240 V AC±10%, 50/60 Hz 2.9-1.3 A			
Power con- sumption	100 to 120 V area	Operating: 284 W Standby power consumption (Communication On): 3.0 W Standby power consumption (Communication Off): 0.24 W Operating: 273 W Standby power consumption (Communication On): 3.1 W Standby power consumption (Communication Off): 0.29 W			
	220 to 240 V area				
Operating	altitude	Altitude 0 to 3,000 m			
Operating	g temperature	+5 to +35°C (No condensation) (Altitude 0 to 2,286 m) +5 to +30°C (No condensation) (Altitude above 2,286 m)			
Storage te	emperature	-10 to +60°C (No condensation)			
Mass		Approx. 2.5 kg Approx. 2.6 kg			

Connectors	Computer1 port	1	Mini D-Sub15-pin (female)
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Computer2 port	1	
Video port	1	RCA pin jack
S-Video port	1	Mini DIN 4-pin
Audio1 port	1	
Audio2 port	1	Stereo mini jack
Audio-L/R port	1	RCA pin jack x 2 (L-R)
Audio Out port	1	Stereo mini jack
Monitor Out port	1	Mini D-Sub15-pin (female)
HDMI port	1	HDMI (Audio is only supported by PCM)
USB-A port ^{*1, 2}	1	USB connector (Type A)
USB-B port ^{*2}	1	USB connector (Type B)
LAN Port ^{*3}	1	RJ-45
RS-232C port	1	Mini D-Sub 9-pin (male)

*1 EB-X21/EB-S21/EB-X17/EB-S17 only

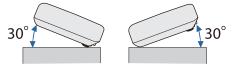
*2 Supports USB 2.0. However, USB ports are not guaranteed to operate all devices that support USB.

*3 EB-X25/EB-W22/EB-X22/EB-X20 only



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

Angle of tilt



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

DECLARATION of CONFORMITY According to 47CFR, Part 2 and 15

Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers

We:	Epson America, Inc.	
Located at:	3840 Kilroy Airport Way	
	MS: 3-13	
	Long Beach, CA 90806	
Tel:	562-981-3840	
	MS: 3-13 Long Beach, CA 90806	

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 2.909. 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:	H567C/H568C/H569C/H570C/H571C/H572C/ H573C/H574C/H575C/H576C/H577C/H578C/ H579C/H580C/H581C/H582C/H583C



FCC Compliance Statement For United States Users

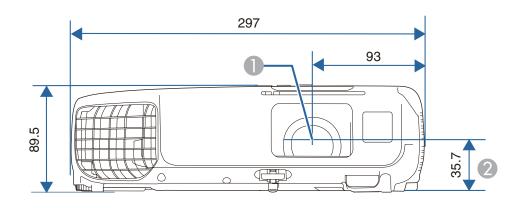
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

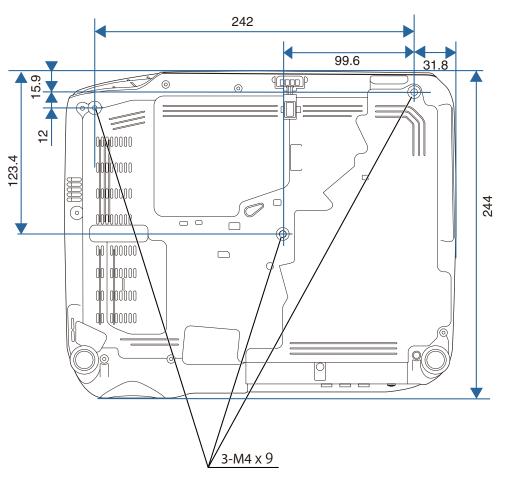
WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.





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



Units: mm