PureGlare

EPSON
EXCEED YOUR VISION

User's Guide

Multimedia Projector

EB-1776W
EB-1771W
EB-1761W
EB-1751

http://www.pureglare.com.au

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". ☛ "Glossary" p.140
[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

List of Functions by Model 8
Quick and Easy Set up, Projection, and Storage 8
Connecting with a USB cable and projecting (USB Display) 8
Easy Image Correction 8
Adjusting the projected image to automatically fit into the screen frame - Screen Fit - (EB-1776W only) 8
Detecting projector movements and automatically correcting image distortion 9
Useful Functions for Expanding the Scope of Your Presentations 9
Project two images simultaneously (Split Screen) (EB-1776W/EB-1771W/EB-1761W only) 9
Increasing projection content in wide (WXGA) screen (EB-1776W/EB-1771W/EB-1761W only) 9
Connecting to a wireless LAN and projecting images from the computer's screen (EB-1776W/EB-1771W/EB-1761W only) 10
Connecting a projector and a computer wirelessly with Quick Wireless Connection (EB-1776W/EB-1771W/EB-1761W only) 10
Projecting images from portable devices over a network (EB-1776W/EB-1771W/EB-1761W only) 10
Connect a USB storage device and project PDFs, movies, and images (Slideshow) 10
Making the most of the remote control 10
Optimum color mode for projecting medical images 10

Part Names and Functions 11

Front/Top 11
Rear 12
Base 13
Control Panel 14
Remote Control 15
Replacing the remote control batteries 18
Remote control operating range 19

Preparing the Projector

Installing the Projector 21

Installation Methods 21
Installation methods 21
Screen Size and Approximate Projection Distance 22

Connecting Equipment 24

Connecting a Computer 24
Connecting Image Sources 25
Connecting USB Devices 26
Installing the Wireless LAN Unit 27

Basic Usage

Projecting Images 29

From Installation to Projection 29
Automatically Detect Input Signals and Change the Projected Image (Source Search) 30
Switching to the Target Image by Remote Control 31
Projecting with USB Display 31
System requirements 31
Connecting for the first time 32
Uninstalling 33

Adjusting Projected Images 35

Automatically Adjust to Fit into the Screen Frame - Screen Fit - (EB-1776W only) 35
Correcting Keystone Distortion 37
Correcting automatically - Auto H/V-Keystone - (EB-1776W only) 37
Correcting automatically - Auto V-Keystone - (EB-1771W/EB-1761W/EB-1751 only) 38
Correcting manually - manual H/V-Keystone - 38
Correcting manually - Quick Corner - 39
Adjusting the Image Size 41
Adjusting the Image Position 41
Adjusting the Horizontal Tilt 42

Correcting the Focus 42
Adjusting the Volume 42
Selecting the Projection Quality (Selecting Color Mode) 43
Setting Auto Iris 44
Changing the Aspect Ratio of the Projected Image 45
Changing methods 45
Changing the aspect ratio for images from video equipment or from the HDMI port 45
Changing the aspect ratio for computer images 46

Useful Functions

Projection Functions 49
Projecting Two Images Simultaneously (Split Screen) (EB-1776W/EB-1771W/EB-1761W Only) 49
Input sources for split screen projection 49
Operating procedures 49
Restrictions during split screen projection 51
Projecting Without a Computer (Slideshow) 52
Specifications for files that can be projected using Slideshow 52
Slideshow examples 53
Slideshow operating methods 53
Projecting images or movies 55
Projecting PDF files (EB-1776W/EB-1771W/EB-1761W only) 56
Projecting image files in a folder in sequence (Slideshow) 58
Playing a scenario 59
Operations while playing a scenario 59
Image file display settings and Slideshow operation settings 59
Hiding the Image and Sound Temporarily (A/V Mute) 60
Freezing the Image (Freeze) 61
Pointer Function (Pointer) 61
Enlarging Part of the Image (E-Zoom) 63
Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse) 64
Correcting the Color Difference when Projecting from Multiple Projectors 65
Summary of correction procedure 65
Setting an ID and using the remote control 65
Correcting 67
Saving a User's Logo 69

Security Functions 71
Managing Users (Password Protect) 71
Kinds of Password Protect 71
Setting Password Protect 71
Entering the Password 72
Restricting Operation (Control Panel Lock) 73
Anti-Theft Lock 74

Configuration Menu

Using the Configuration Menu 76

List of Functions 77
Configuration Menu Table 77
Network menu (EB-1776W/EB-1771W/EB-1761W only) 78
Image Menu 80
Signal Menu 81
Settings Menu 82
Extended Menu 84
Network Menu (EB-1776W/EB-1771W/EB-1761W Only) 86
Notes on operating the Network menu 86
Soft keyboard operations 87
Basic menu 88
Wireless LAN menu 89
Security menu 90
Mail menu 91
Others menu 92
Reset menu 93
Info Menu (Display Only) 94
Reset Menu 94

Troubleshooting

Using the Help 97

Problem Solving 98

Reading the Indicators 98
When the Indicators Provide No Help 101
Problems Relating to Images 102
No images appear 102
Moving images are not displayed 103
Projection stops automatically 103
The message Not supported is displayed 103
The message No Signal is displayed 103
Images are fuzzy, out of focus, or distorted 104
Interference or distortion appear in images 105
The image is truncated (large) or small, the aspect is not suitable, or the image has been reversed 106
Image colors are not right 106
Images appear dark 107
Problems when Projection Starts 108
The projector does not turn on 108
Other Problems 108
No sound can be heard or the sound is faint 108
The remote control does not work 109
I want to change the language for messages and menus 109
Email is not received even if a problem occurs in the projector (EB-1776W/EB-1771W/EB-1761W only) 110
Image file names are not displayed correctly in Slideshow 110
Cannot change settings using a Web browser 110

Maintenance

Cleaning 112

Cleaning the Projector's Surface 112
Cleaning the Lens 112
Cleaning the Air Filter 112

Replacing Consumables 114

Replacing the Lamp 114
Lamp replacement period 114
How to replace the lamp 115
Resetting the lamp hours 117
Replacing the Air Filter 117
Air filter replacement period 117
How to replace the air filter 117

Appendix

Useful Software 120

EasyMP Network Projection(EB-1776W/EB-1771W/EB-1761W only) 120
EasyMP Slide Converter 120
EasyMP Monitor(EB-1776W/EB-1771W/EB-1761W only) 120

Optional Accessories and Consumables 121

Optional Accessories 121
Consumables 122

Monitoring and Controlling (EB-1776W/EB-1771W/EB-1761W Only) 123

Changing Settings Using a Web Browser (Web Control) 123
Projector setup 123
Displaying the Web Control screen 123
Displaying the Web Remote screen 124
Using the Mail Notification Function to Report Problems 125
Reading Error Notification Mail 125
Management Using SNMP 126
ESC/VP21 Commands 126
Before starting 126
Command list 127
Communications protocol 127

About Event ID (EB-1776W/EB-1771W/EB-1761W Only) 128

About PJLink (EB-1776W/EB-1771W/EB-1761W Only) 129

Screen Size and Projection Distance 130

Projection Distance (For EB-1776W/EB-1771W/EB-1761W) 130

Projection Distance (For EB-1751) 131

Supported Monitor Displays 133

Supported Resolutions 133

Computer signals (analog RGB) 133

Component video 133

Composite video 133

Input signal from the HDMI port 134

Specifications 135

Projector General Specifications 135

Appearance 139

Glossary 140

General Notes 142

About Notations 142

Trademarks and Copyrights 143

Index 144

Introduction

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

List of Functions by Model

Available functions differ depending on the model being used. See the table below for a list of the functions available for each model.

Function	EB-1776W	EB-1771W	EB-1761W	EB-1751
USB Display	✓	✓	✓	✓
HDMI Connection	✓	✓	✓	✓
Screen Fit	✓	-	-	-
Auto H/V-Keystone	✓	-	-	-
Auto V-Keystone	-	✓	✓	✓
Split Screen	✓	✓	✓	-
Wireless LAN Connection	✓	✓*1	✓*3	-
WXGA Resolutions	✓	✓	✓	-
Quick Wireless Connection	✓	✓*2	✓*2	-
Network Menu	✓	✓	✓	-
Slideshow	✓	✓	✓	✓

*1 The Wireless LAN unit is available as an option.

*2 The Quick Wireless Connection USB Key is available as an option.

*3 The Wireless LAN unit is supplied or available as an option. See the Quick Start Guide for a list of supplied items.

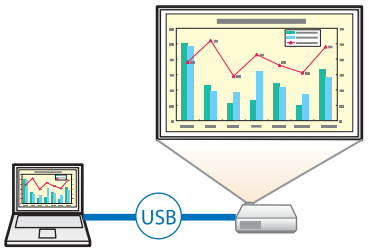
Quick and Easy Set up, Projection, and Storage

- The portable, lightweight design allows you to easily make presentations away from your office.
- 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 the supplied USB cable, you can project images from a computer's screen without a computer cable.

☛ "Projecting with USB Display" p.31

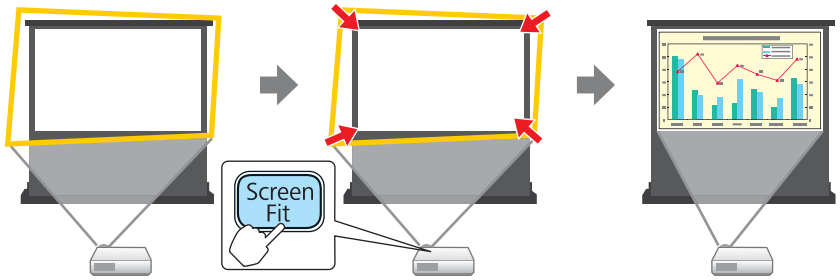


Easy Image Correction

Adjusting the projected image to automatically fit into the screen frame - Screen Fit - (EB-1776W only)

By pressing the [Screen Fit] button, you can automatically adjust the projected image to fit into the screen frame by correcting any image distortion.

☛ "Automatically Adjust to Fit into the Screen Frame - Screen Fit - (EB-1776W only)" p.35



Detecting projector movements and automatically correcting image distortion

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

For EB-1776W

Automatically corrects vertical and horizontal keystone distortion as well as the focus.

☛ "Correcting automatically - Auto H/V-Keystone - (EB-1776W only)" p.37

For EB-1771W/EB-1761W/EB-1751

Automatically corrects vertical keystone distortion.

☛ "Correcting automatically - Auto V-Keystone - (EB-1771W/EB-1761W/ EB-1751 only)" p.38

Useful Functions for Expanding the Scope of Your Presentations

Project two images simultaneously (Split Screen) (EB-1776W/ EB-1771W/EB-1761W only)

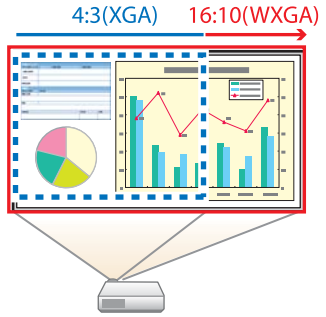
This function divides the projected screen in two and projects two types of image side-by-side. By simultaneously projecting images from two sources on one screen, you can raise the impact of your message or proposition during video conferences or presentations.

☛ "Projecting Two Images Simultaneously (Split Screen) (EB-1776W/EB-1771W/ EB-1761W Only)" p.49

Increasing projection content in wide (WXGA) screen (EB-1776W/ EB-1771W/EB-1761W 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.45



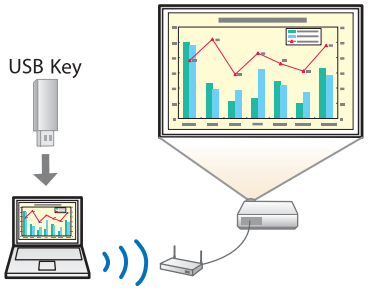
Connecting to a wireless LAN and projecting images from the computer's screen (EB-1776W/EB-1771W/EB-1761W only)

By using EasyMP Network Projection and the supplied or optional Wireless LAN unit, you can wirelessly project the computer's screen.

☛ *EasyMP Network Projection Operation Guide*

Connecting a projector and a computer wirelessly with Quick Wireless Connection (EB-1776W/EB-1771W/EB-1761W only)

By simply connecting the supplied or optional Quick Wireless Connection USB Key to a computer, you can connect the projector and the computer using the wireless communication and project images from the computer.



Projecting images from portable devices over a network (EB-1776W/EB-1771W/EB-1761W only)

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

Connect a USB storage device and project PDFs, movies, and images (Slideshow)

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 PDF, movie, and image files.

☛ "Projecting Without a Computer (Slideshow)" p.52

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.61

☛ "Enlarging Part of the Image (E-Zoom)" p.63

☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.64

Optimum color mode for projecting medical images

A color mode called DICOM SIM is provided to project medical images, such as X-ray photographs. This mode produces image quality that approaches the DICOM standard.

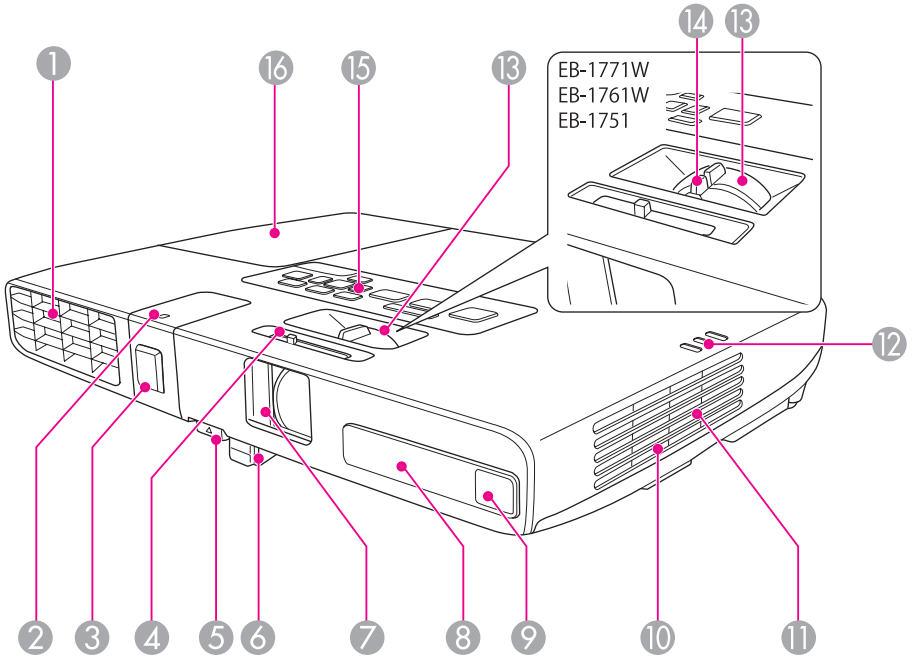
(The projector is not a medical device and cannot be used for medical diagnosis.)

☛ "Selecting the Projection Quality (Selecting Color Mode)" p.43

http://www.pureglare.com.au

All of the features in this guide are explained using illustrations of EB-1776W unless otherwise mentioned.

Front/Top

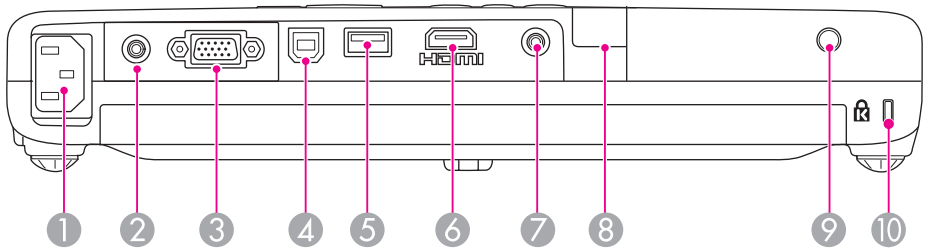


	Name	Function
①	**Air exhaust vent**	Exhaust vent for air used to cool the projector internally. **⚠ Caution** While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.

	Name	Function
②	**Wireless LAN indicator** (EB-1776W/EB-1771W/ EB-1761W only)	Indicates the access status of the supplied or optional Wireless LAN unit.
③	**Wireless LAN unit cover** (EB-1776W/EB-1771W/ EB-1761W only)	When making a wireless connection between the projector and computer, remove this cover to install the supplied or optional Wireless LAN unit.
④	**A/V mute slide knob**	Slide the knob to open and close the A/V mute slide.
⑤	**Foot adjust lever**	Press the foot adjust lever to extend and retract the front adjustable foot. ☛ "Adjusting the Image Position" p.41
⑥	**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.41
⑦	**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. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.60
⑧	**Remote receiver**	Receives signals from the remote control.
⑨	**Sensor** (EB-1776W only)	Takes measurements when the projector automatically corrects the projected image.
⑩	**Air intake vent (air filter)**	Takes in air to cool the projector internally. ☛ "Cleaning the Air Filter" p.112
⑪	**Speaker**	Outputs audio.
⑫	**Indicators**	Indicates the projector's status. ☛ "Reading the Indicators" p.98
⑬	**Zoom ring**	Adjusts the image size. ☛ "Adjusting the Image Size" p.41

Name		Function
⑭	**Focus ring** (EB-1771W/EB-1761W/ EB-1751 only)	Adjusts the image focus. ☛ "Correcting the Focus" p.42
⑮	**Control panel**	Operates the projector. ☛ "Control Panel" p.14
⑯	**Lamp cover**	Open when replacing the projector's lamp. ☛ "Replacing the Lamp" p.114

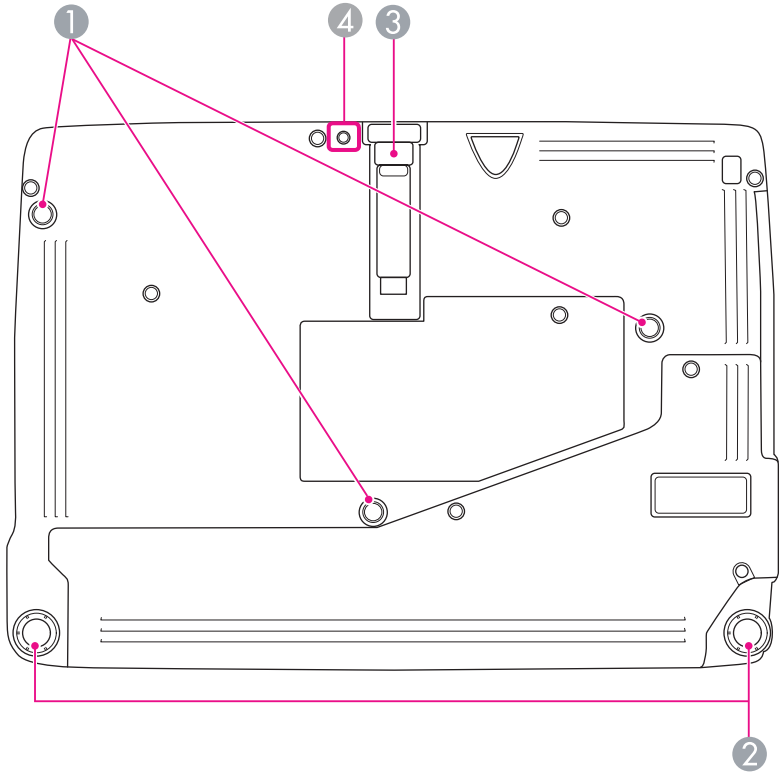
Rear



Name		Function
①	**Power inlet**	Connects the power cord to the projector. ☛ "From Installation to Projection" p.29
②	**Video port**	Inputs composite video signals from video sources.
③	**Computer port**	Inputs image signals from a computer and component video signals from other video sources.
④	**USB (TypeB) port**	• Connects the projector to a computer via the supplied USB cable, and the image on the computer is projected. ☛ "Projecting with USB Display" p.31 • Connects the projector to a computer via the supplied USB cable to use the Wireless Mouse function. ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.64
⑤	**USB (TypeA) port**	• Connects a USB memory device or a digital camera and projects PDFs, movies, or images using Slideshow. ☛ "Projecting Without a Computer (Slideshow)" p.52 • Connects the optional Document Camera.
⑥	**HDMI port**	Inputs video signals from HDMI compatible video equipment and computers. This projector is compatible with HDCP. ☛ "Connecting Equipment" p.24
⑦	**Audio port**	Inputs audio from equipment connected to the Computer port or the Video port.

Name		Function
⑧	**Remote receiver**	Receives signals from the remote control. ☛ "Remote control operating range" p.19
⑨	**Lamp Cover Fixing Screw**	Screw to fix the lamp cover in place.
⑩	**Security slot**	The security slot is compatible with the Microsaver Security System manufactured by Kensington. ☛ "Anti-Theft Lock" p.74

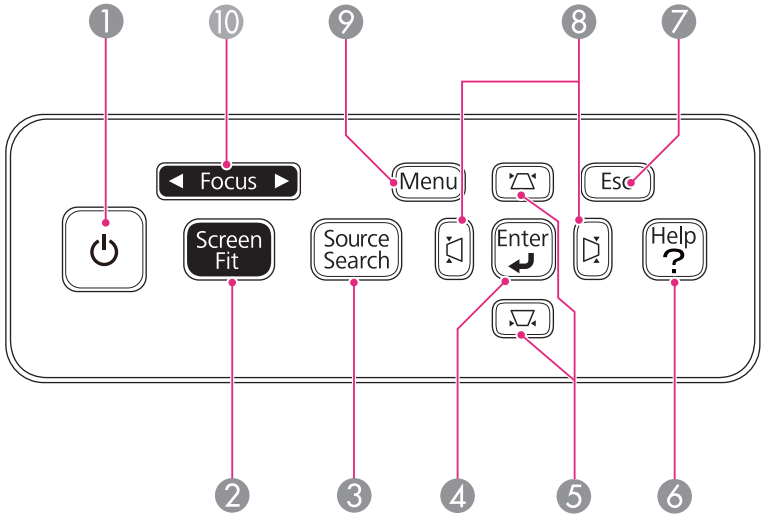
Base



Name		Function
①	**Ceiling mount fixing points (three points)**	Attach the optional attachment plate here when suspending the projector from a ceiling. ☛ "Installing the Projector" p.21 ☛ "Optional Accessories" p.121
②	**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.42

	Name	Function
③	**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.41
④	**Screw hole for the wireless LAN unit cover** (EB-1776W/EB-1771W/ EB-1761W only)	Screw hole to fix the wireless LAN unit cover. When installing the wireless LAN unit, make sure you secure the wireless LAN unit cover with the screw supplied.

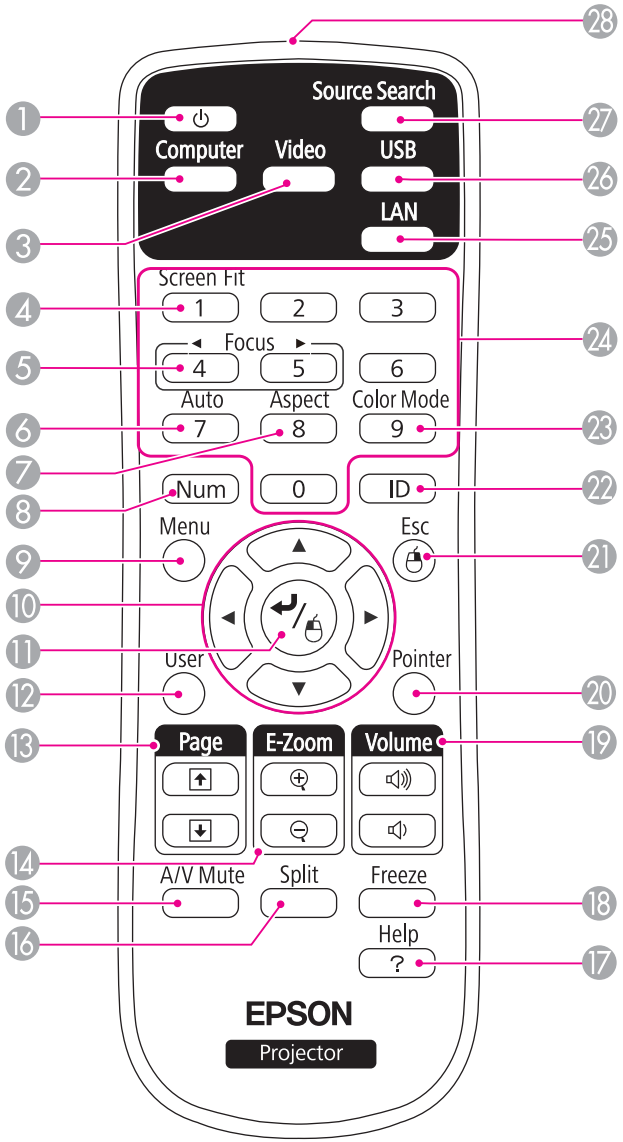
Control Panel



	Name	Function
①	**[⏻] button**	Turns the projector power on or off. ☛ "From Installation to Projection" p.29
②	**[Screen Fit] button** (EB-1776W only)	Adjusts the projected image so that it fits the screen frame. ☛ "Automatically Adjust to Fit into the Screen Frame - Screen Fit - (EB-1776W only)" p.35 This button is disabled when the projector is suspended from a ceiling.
③	**[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.30
④	**[↵] 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 during projection of computer signal images, it automatically adjusts the **Tracking**, **Sync.**, and **Position** to project the optimum image.

	Name	Function
⑤	[▽][△] buttons	• Performs vertical keystone correction. ☛ "Correcting keystone distortion in vertical directions" p.38 • 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.76 ☛ "Using the Help" p.97
⑥	[Help] button	Displays and closes the Help screen which shows you how to deal with problems if they occur. ☛ "Using the Help" p.97
⑦	[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.76
⑧	[◁][▷] buttons	• Performs horizontal keystone correction. ☛ "Correcting keystone distortion in horizontal directions" p.38 • 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.76 ☛ "Using the Help" p.97
⑨	[Menu] button	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.76
⑩	[Focus] button (EB-1776W only)	Adjusts the image focus. ☛ "Correcting the Focus" p.42

Remote Control



	Name	Function
❶	[⏻] button	Turns the projector power on or off. ☛ "From Installation to Projection" p.29
❷	[Computer] button	Changes to images from the Computer port.
❸	[Video] button	Each time the button is pressed, the image displayed changes between the Video input port and HDMI input port.
❹	[Screen Fit] button	Adjusts the projected image so that it fits the screen frame. (EB-1776W only) ☛ "Automatically Adjust to Fit into the Screen Frame - Screen Fit - (EB-1776W only)" p.35 When the projector is suspended from a ceiling or when using EB-1771W/EB-1761W/EB-1751, this does not function even if the button is pressed.
❺	[Focus] buttons [◄][►]	Adjusts the image focus. (EB-1776W only) When using EB-1771W/EB-1761W/EB-1751, this does not function even if the button is pressed. ☛ "Correcting the Focus" p.42
❻	[Auto] button	If pressed during projection of computer signal images, it automatically adjusts the **Tracking**, **Sync.**, and **Position** to project the optimum image.
❼	[Aspect] button	The aspect ratio changes each time the button is pressed. ☛ "Changing the Aspect Ratio of the Projected Image" p.45
❽	[Num] button	Hold down this button and press the numeric buttons to enter passwords and numbers. ☛ "Setting Password Protect" p.71
❾	[Menu] button	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.76

	Name	Function
❿	[▲][▼] [◄][►] 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.76 • 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.64
⓫	[↵] 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.76 • 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.64
⓬	[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. ☛ "Settings Menu" p.82 **Power Consumption** is assigned as the default setting.
⓭	[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.64 • When using USB Display ☛ "Projecting with USB Display" p.31 • During a network connection (EB-1776W/EB-1771W/EB-1761W only) When projecting images or scenarios using Slideshow, pressing these buttons displays the previous/next screen.

	Name	Function
⑭	**[E-Zoom] buttons** [⊕][⊖]	Enlarges or reduces the image without changing the projection size. ☛ "Enlarging Part of the Image (E-Zoom)" p.63
⑮	**[A/V Mute] button**	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.60
⑯	**[Split] button**	Each time the button is pressed, the image changes between projecting two images simultaneously by splitting the projected screen, or projecting one image as normal. ☛ "Projecting Two Images Simultaneously (Split Screen) (EB-1776W/EB-1771W/EB-1761W Only)" p.49
⑰	**[Help] button**	Displays and closes the Help screen which shows you how to deal with problems if they occur. ☛ "Using the Help" p.97
⑱	**[Freeze] button**	Images are paused or unpaused. ☛ "Freezing the Image (Freeze)" p.61
⑲	**[Volume] buttons** [🔉][🔊]	[🔉] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.42
⑳	**[Pointer] button**	Displays the on-screen pointer. ☛ "Pointer Function (Pointer)" p.61
㉑	**[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.76 • 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.64

	Name	Function
㉒	**[ID] button**	Hold down this button and press the numeric buttons to specify the ID using the remote control. ☛ "Correcting the Color Difference when Projecting from Multiple Projectors" p.65
㉓	**[Color Mode] button**	Each time the button is pressed, the Color Mode changes. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.43
㉔	**Numeric buttons**	• Use this button to enter passwords and set IDs. ☛ "Correcting the Color Difference when Projecting from Multiple Projectors" p.65 ☛ "Setting Password Protect" p.71 • Use this button to enter numbers in **Network** settings from the Configuration menu. (EB-1776W/EB-1771W/EB-1761W only)
㉕	**[LAN] button**	Switches to the image from the network connected device. (EB-1776W/EB-1771W/EB-1761W only)
㉖	**[USB] button**	Each time the button is pressed, the image displayed changes between the following sources. • USB Display • Images from the device connected to the USB (TypeA) port
㉗	**[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.30
㉘	**Remote control light-emitting area**	Outputs remote control signals.

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.

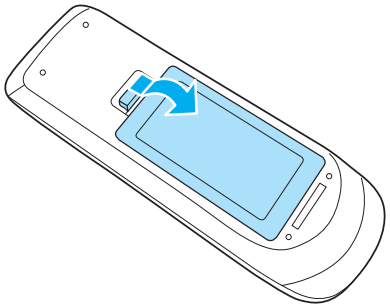
Attention

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

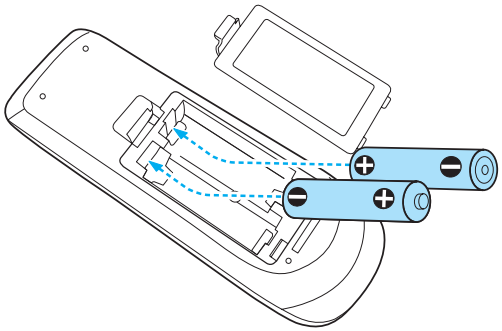
☛ *Safety Instructions*

1 Remove the battery cover.

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



2 Replace the old batteries with new batteries.



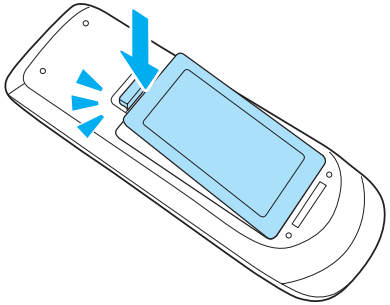
Caution

Check the positions of the (+) and (-) marks inside the battery holder to ensure the batteries are inserted the correct way.

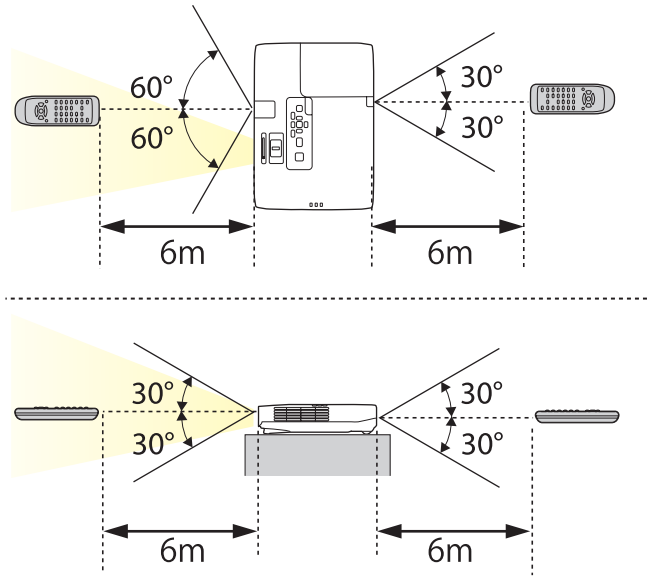
If the batteries are not used correctly, they could explode or leak causing a fire, injury, or damage to the product.

3 Replace the battery cover.

Press the battery compartment cover until it clicks into place.



Remote control operating range



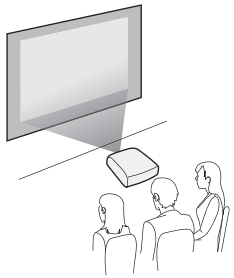
Preparing the Projector

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

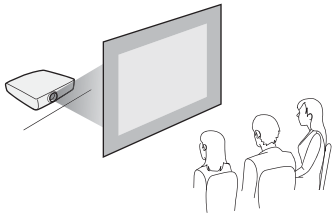
Installation Methods

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

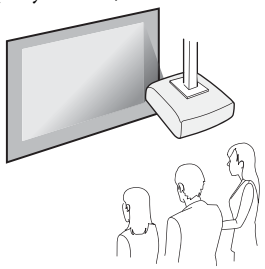
- Project images from in front of the screen. (Front projection)



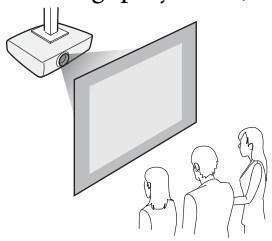
- Project images from behind a translucent screen. (Rear projection)



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

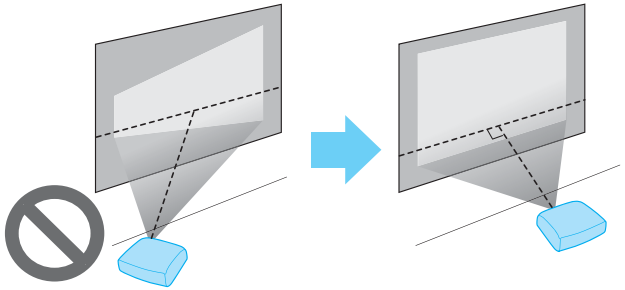
Do not use the projector on its side. This may cause malfunctions to occur.

- An optional ceiling mount and attachment plate are required when suspending the projector from a ceiling.
  ☛ "Optional Accessories" p.121
- The default Projection setting is **Front**. You can change from **Front** to **Rear** from the Configuration menu.
  ☛ **Extended** - **Projection** p.84
- 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

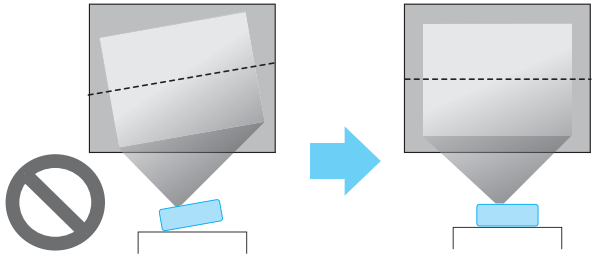
Installation methods

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.37
- See the following if you cannot install the projector on a level surface.
  ☛ "Adjusting the Horizontal Tilt" p.42
  ☛ "Correcting Keystone Distortion" p.37

Screen Size and Approximate Projection Distance

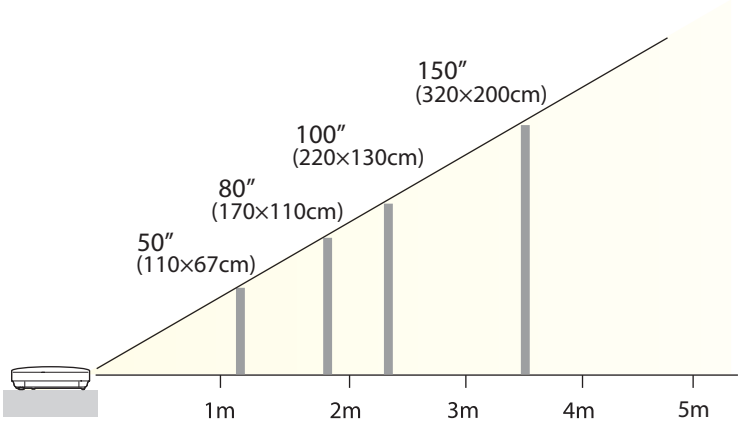
Projection size is determined by the distance from the projector to the screen. See the illustrations on the right to select the best position according to the screen size. The illustrations show the approximate shortest distance at maximum zoom. See the following for more information on the projection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

☛ "Screen Size and Projection Distance" p.130

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

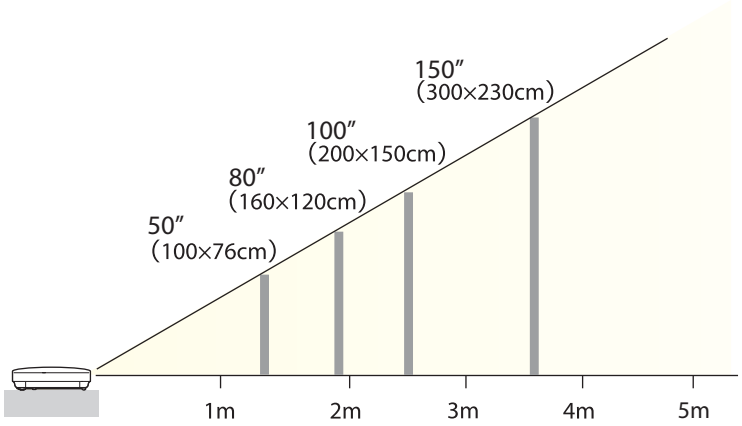
For EB-1776W/EB-1771W/EB-1761W

16:10 Screen Size



For EB-1751

4:3 Screen Size



This section gives examples of how to connect the projector and the projection source.

The port name, 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.

1. **When using the supplied computer cable**

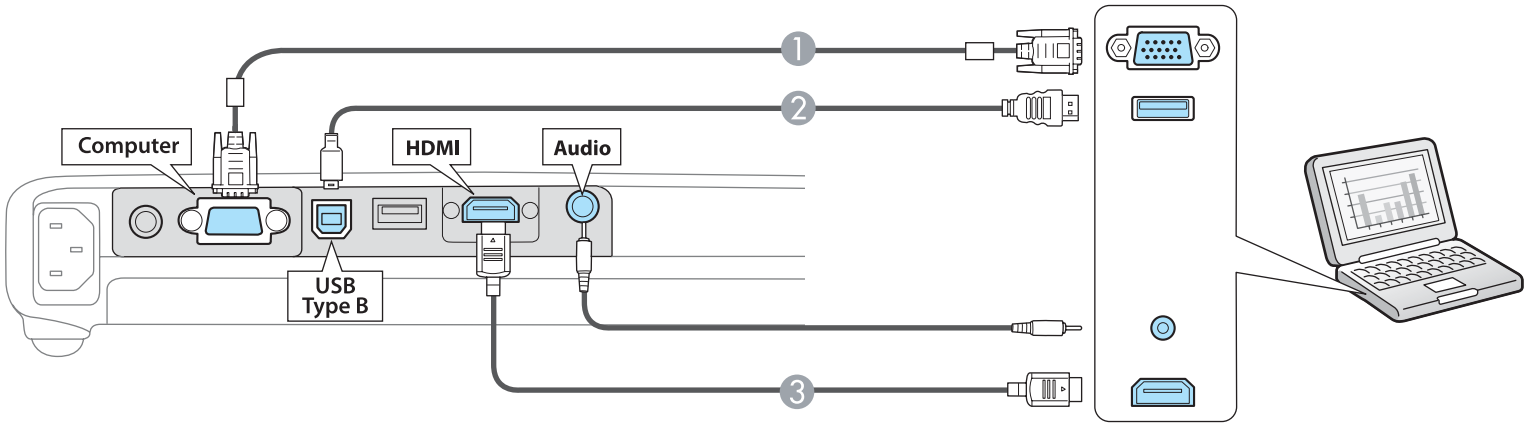
   Connect the computer's display output port to the projector's Computer port. You can output audio from the projector's speaker by connecting the audio output port on the computer to the projector's Audio port using a commercially available audio cable.

2. **When using the supplied USB cable**

   Connect the computer's USB port to the projector's USB (TypeB) port using the supplied USB cable. 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.



Simply by connecting the projector to a computer via a USB cable, you can project images from the computer. This function is called USB Display.

☛ "Projecting with USB Display" p.31

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 cable**

   Connect the video output port on the image source to the projector's Video port. You can output audio from the projector's speaker by connecting the audio output port on the video equipment to the projector's Audio port using a commercially available audio cable.

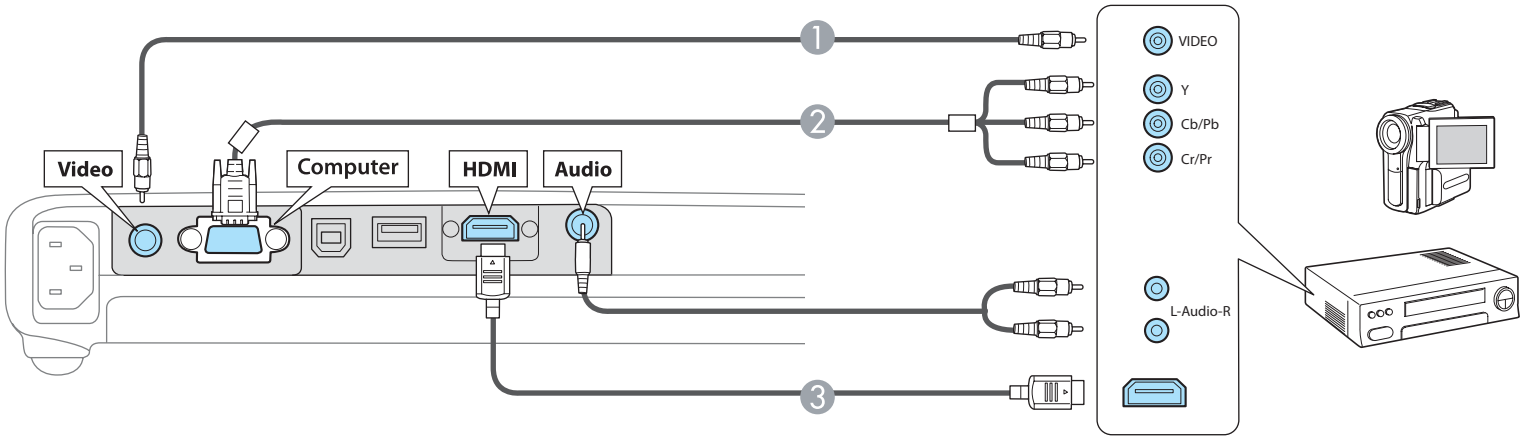
2. **When using the optional component video cable**

   ☛ "Optional Accessories" p.121

   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 video equipment to the projector's Audio 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

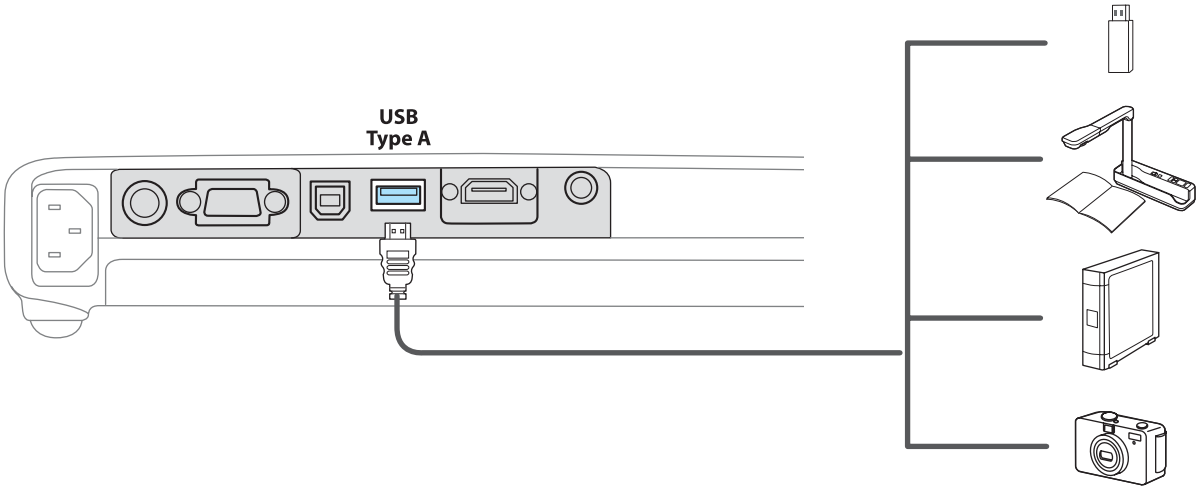
- If the input source is on when you connect it to the projector, it could cause a malfunction.
- If the orientation or shape of the plug differs, do not try to force it in. The device could be damaged or could malfunction.

- 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 projector.
- When using a commercially available 2RCA(L/R)/stereo mini-pin audio cable, make sure it is labeled "No resistance".

Connecting USB Devices

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 (TypeA) port on the projector.



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

☛ "Slideshow examples" p.53

Attention

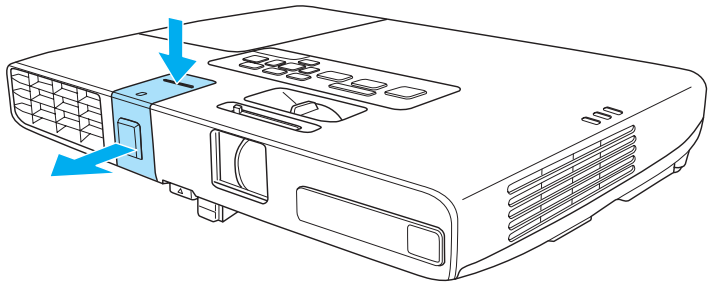
- If you use a USB hub, the connection may not operate correctly. Devices such as digital cameras and USB devices should be connected to the projector directly.
- When connecting and using a USB-compatible hard disk, make sure you connect the AC adaptor supplied with the hard disk.
- Connect a digital camera or hard disk to the projector using a USB cable supplied with or specified for use with the device.
- Use a USB cable less than 3 m in length. If the cable exceeds 3 m, Slideshow may not function correctly.

Removing USB devices

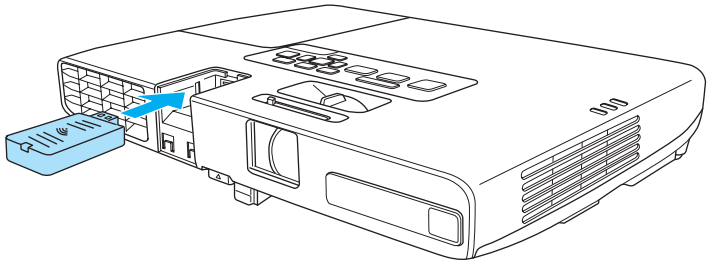
After finishing projecting, remove USB devices from the projector. For devices such as digital cameras or hard disks, turn off the device and then remove it from the projector.

Installing the Wireless LAN Unit

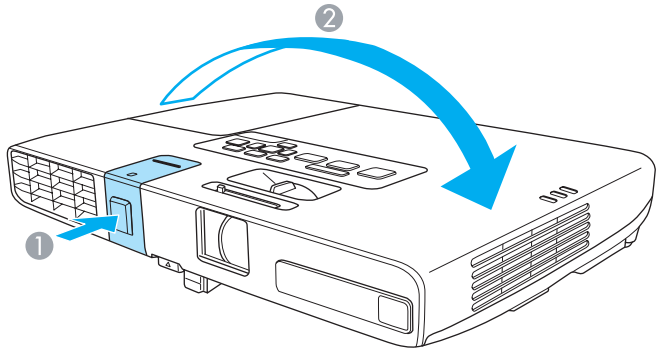
1 Remove the wireless LAN unit cover.



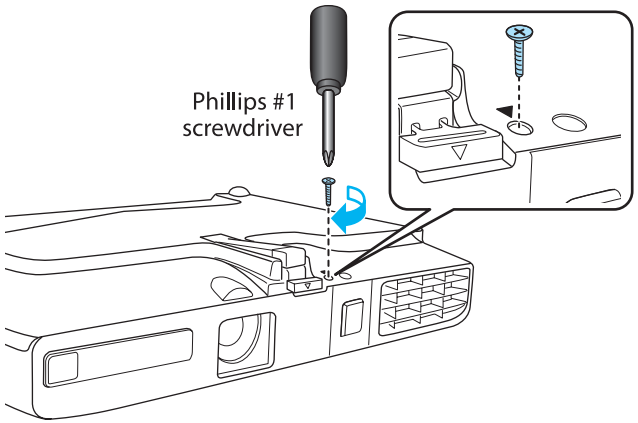
2 Install the wireless LAN unit.



3 Attach the wireless LAN unit cover, and then turn over the projector.



4 Secure the wireless LAN unit cover with the screw supplied.

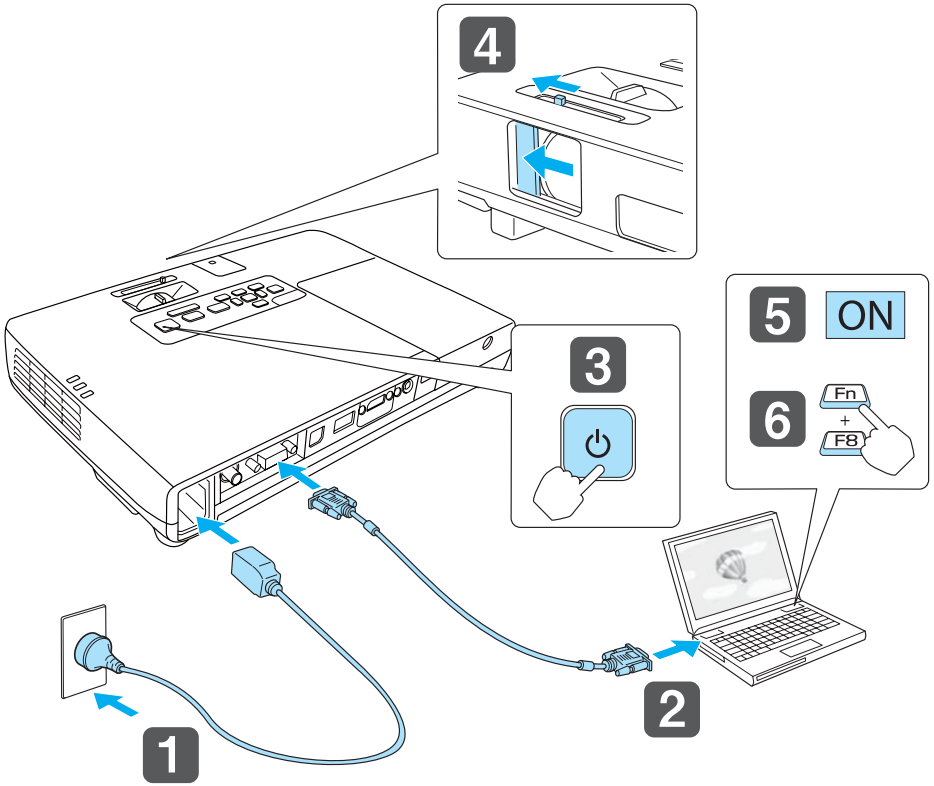


Basic Usage

This chapter explains how to project and adjust images.

From Installation to Projection

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



1. Connect the projector to an electrical outlet with the power cord.
2. Connect the projector to the computer with the computer cable.
3. Turn on the projector.
4. Open the A/V mute slide.
5. Turn on your computer.
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 🖵/🖵 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 [⏻] button twice.

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

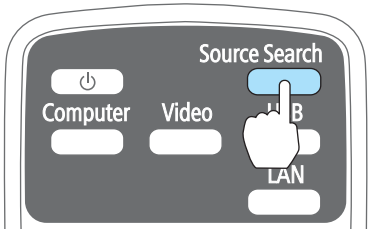
- Press the [Source Search] button on the control panel or the remote control.
  ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.30
- Press the button for the target port on the remote control.
  ☛ "Switching to the Target Image by Remote Control" p.31

> After projecting the image, adjust the image if necessary.
> ☛ "Automatically Adjust to Fit into the Screen Frame - Screen Fit - (EB-1776W only)" p.35
> ☛ "Correcting Keystone Distortion" p.37
> ☛ "Correcting the Focus" p.42

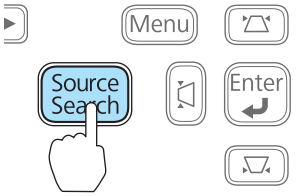
Automatically Detect Input Signals and Change the Projected Image (Source Search)

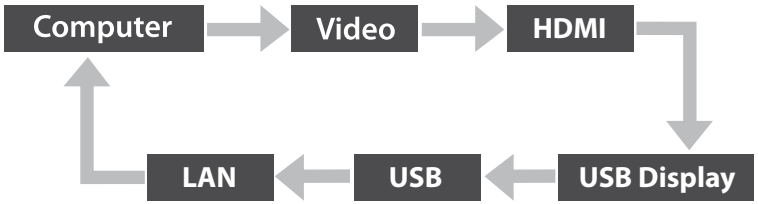
Press the [Source Search] button to project images from the port currently receiving an image.

Using the remote control



Using the control panel





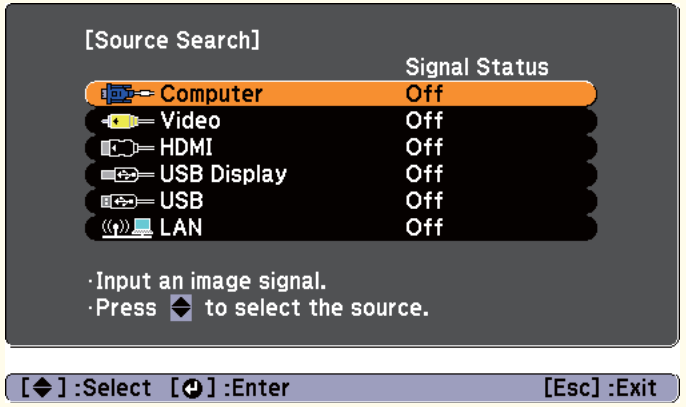
* LAN is only available for EB-1776W/EB-1771W/EB-1761W

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.

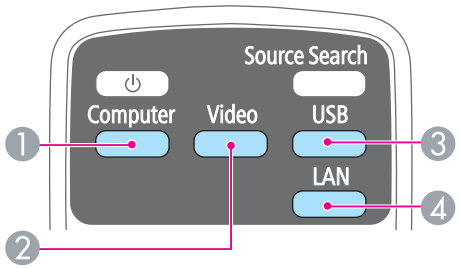
Example: EB-1776W/EB-1771W/EB-1761W



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



1. Changes to images from the Computer port.
2. Each time the button is pressed, it cycles through the images being input from the following sources.
   - Video port
   - HDMI port
3. Each time the button is pressed, it cycles through the following images:
   - USB Display
   - Images from the device connected to the USB (TypeA) port
4. Switches to the image from the network connected device. (EB-1776W/ EB-1771W/EB-1761W only)

Projecting with USB Display

You can use the supplied 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.

To start USB Display, set **USB Type B** to **USB Display** from the Configuration menu.

☛ **Extended** - **USB Type B** p.84

System requirements

For Windows

OS	Windows 2000*1	
	Windows XP	Professional 32 bit Home Edition 32 bit Tablet PC Edition 32 bit
	Windows Vista	Ultimate 32 bit Enterprise 32 bit Business 32 bit Home Premium 32 bit Home Basic 32 bit
	Windows 7	Ultimate 32/64 bit Enterprise 32/64 bit Professional 32/64 bit Home Premium 32/64 bit Home Basic 32 bit Starter 32 bit
CPU	Mobile Pentium III 1.2 GHz or faster Recommended: Pentium M 1.6 GHz or faster	

Amount of Memory	256 MB or more Recommended: 512 MB or more
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

For Mac OS X

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
CPU	Power PC G4 1GHz or faster Recommended: Core Duo 1.83GHz or faster
Amount of Memory	512 MB or more
Hard Disk Space	20 MB or more
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 X.

- 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.
- Use the supplied USB cable.
- 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

1. Connect the computer's USB port to the projector's **USB (TypeB)** 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

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

2. When the License Agreement screen is displayed, click **Agree**.
3. 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.
4. Disconnect the USB cable when you finish projection.

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

- If it is not installed automatically, double-click **My Computer** - **EPSON_PJ_UD** - **EMP_UDSE.EXE** on your computer.
- 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 X

1. Connect the computer's USB port to the projector's **USB (TypeB)** port using a USB cable.

   The Setup folder of USB Display is displayed in the Finder.
2. Double-click the **USB Display Installer** icon.
3. Follow the on-screen instructions to install.
4. 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.
5. 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.
6. When you have finished projecting, select **Disconnect** from the menu bar or from the **USB Display** icon on the Dock. You can then disconnect 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, start **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.

Uninstalling

For Windows 2000

1. 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

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

http://www.pureglare.com.au

For Windows Vista/Windows 7

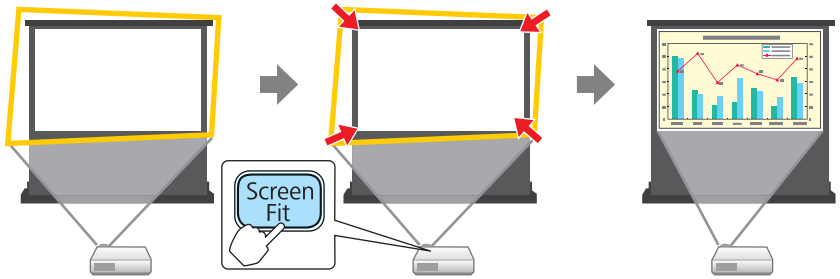
1. Click **Start**, and then click **Control Panel**.
2. Click **Uninstall a program** under **Programs**.
3. Select **Epson USB Display** and click **Uninstall**.

For Mac OS X

1. Open the **Applications** folder, double-click **USB Display**, and then double-click **Tool**.
2. Run **USB Display UnInstaller**.

Automatically Adjust to Fit into the Screen Frame - Screen Fit - (EB-1776W only)

Screen Fit is a function that corrects the projected image so that it fits to the frame (border) of the screen, whiteboard, and so on. When you press the [Screen Fit] button on the remote control or control panel, the projected image is adjusted to fit the frame of the screen while also performing keystone correction and focus adjustments.

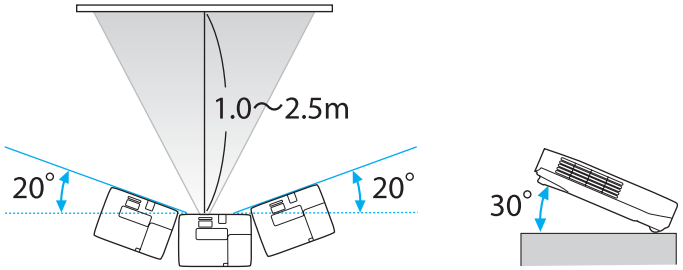


You can use Screen Fit to correct the projected image under the following conditions.

Screen size: less than or equal to 100"

Distance between projector and screen: approx. 1.0 to 2.5 m

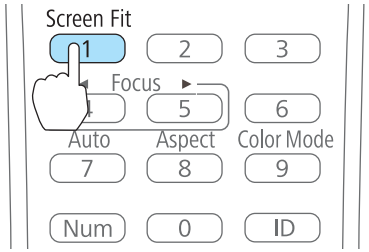
Correction angle: approx. 20˚ right and left/approx. 30˚ up and down



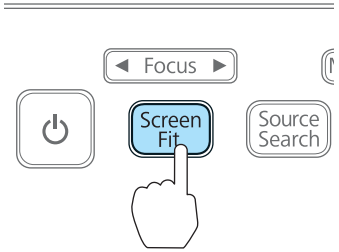
- The projected image cannot be adjusted correctly if this range is exceeded. Correct the projected image manually.
- Screen Fit is unavailable when the projector is suspended from a ceiling. Correct the projected image manually.

1 Press the [Screen Fit] button on the remote control or the control panel during projection.

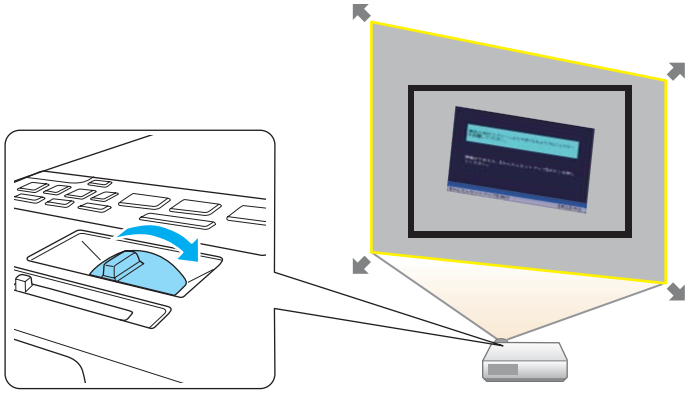
Using the remote control



Using the control panel



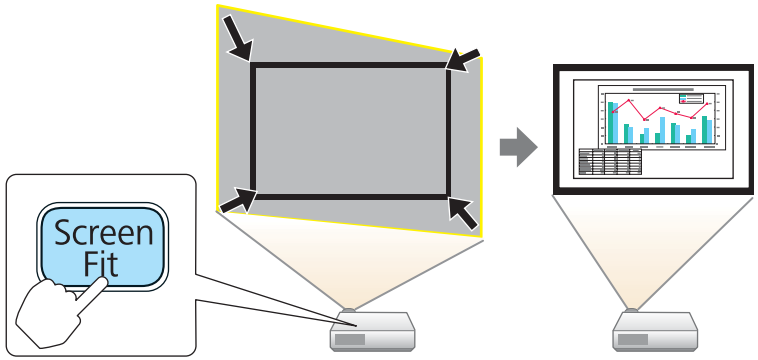
2 Adjust the zoom ring so that the yellow frame is bigger than the screen frame as shown below. Position the black message box in the center of the screen.



If the yellow frame is still within the screen frame even after adjusting the zoom ring to its maximum size, try moving the projector further away from the screen.

3 Press the [Screen Fit] button or the [↵] button.

After the adjustment screen appears, the projected image is corrected according to the aspect ratio of the image being input.



Once the adjustment screen appears, do not move the projector or block the image. The projected image will not be corrected properly.

4 After the correction is performed, the following message appears. To exit the correction menu, press the [Esc] button on the remote control or the control panel to clear the message.

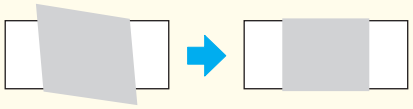
To make fine adjustments after the initial adjustment, press the [▽][△][◁][▷] buttons on the control panel.

If no operation is performed, the message closes after about seven seconds.

After performing Screen Fit, **Keystone** on the Configuration menu is set to **Quick Corner**. After this, any correction of the projected image using the [▽][△][◁][▷] buttons on the control panel is performed using the Quick Corner function.

☛ "Correcting manually - Quick Corner -" p.39

- When Screen Fit detects more than two sides of a frame inside the projection area, it adjusts to fit the detected frame. For example, when projecting onto a wide screen in a small room, you can make corrections by fitting the top and bottom sides of the screen into the projected area.



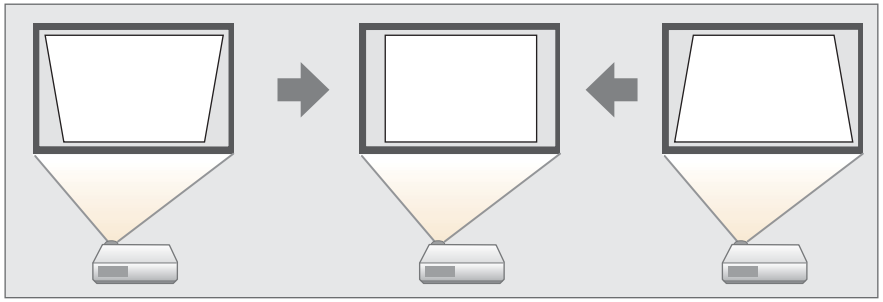
- Screen Fit may not function correctly in dark rooms such as rooms with the lights turned off. In this situation, try performing Screen Fit again after turning on the lights.
- Because Screen Fit relies on a sensor, it may not function correctly depending on the status of the projection screen (if it is curved or patterned and so on) or if the room is open to daylight. In this case, make the adjustments manually.

☛ "Correcting manually - manual H/V-Keystone -" p.38

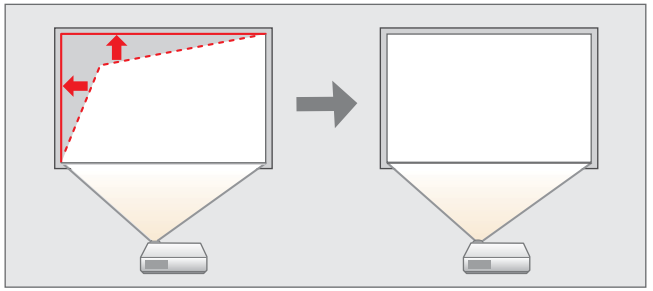
Correcting Keystone Distortion

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

- Correcting automatically
  -Auto H/V-Keystone (EB-1776W only)
  -Auto V-Keystone (EB-1771W/EB-1761W/EB-1751 only)
- Correcting manually (manual 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 H/V-Keystone - (EB-1776W only)

When the projector detects any movement, for example when it is moved or tilted, it automatically corrects vertical and horizontal keystone distortion as well as the focus. This function is called Auto H/V-Keystone.

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

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

- Correction angle: approx. 20˚ right and left/approx. 30˚ up and down

- Auto H/V-Keystone only works when **Projection** is set to **Front** from the Configuration menu.
  ☛ **Extended** - **Projection** p.84
- If you do not want to use the Auto H/V-Keystone function, set **Auto H/V-Keystone** to **Off**.
  ☛ **Settings** - **Keystone** - **H/V-Keystone** - **Auto H/V-Keystone** p.82

Correcting automatically - Auto V-Keystone - (EB-1771W/ EB-1761W/EB-1751 only)

When using EB-1771W/EB-1761W/EB-1751, only the vertical direction is corrected automatically. If you need to correct the horizontal direction, use manual H/V-Keystone.

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

- Correction angle: approx. 30˚ up and down

Correcting manually - manual H/V-Keystone -

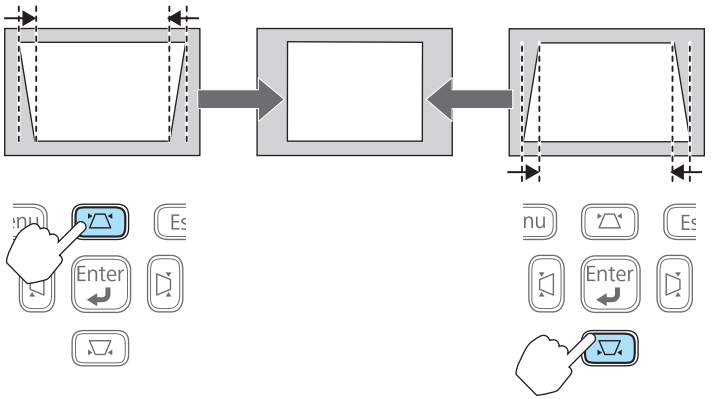
Manually correct distortion in the horizontal and vertical directions independently. H/V-Keystone correction is ideal for fine-tuning keystone distortion.

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

- Correction angle: approx 30˚ right and left/approx. 45˚ up and down

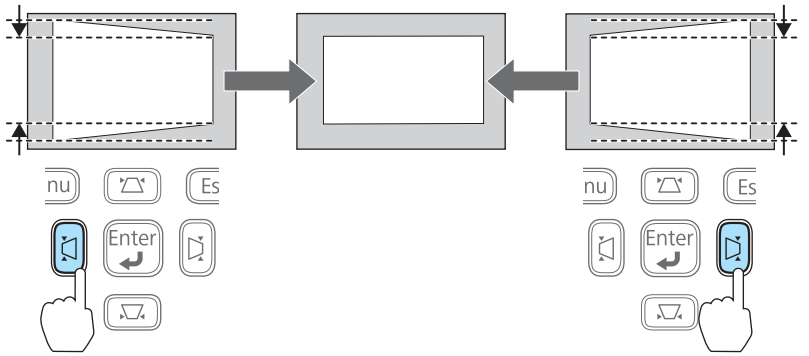
Correcting keystone distortion in vertical directions

Press the [ ][ ] buttons on the control panel.



Correcting keystone distortion in horizontal directions

Press the [ ][ ] buttons on the control panel.



You can set manual H/V-Keystone from the Configuration menu.

☛ **Settings** - **Keystone** - **H/V-Keystone** p.82

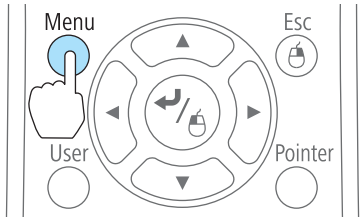
Correcting manually - Quick Corner -

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

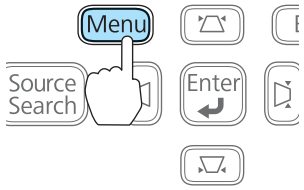
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.76

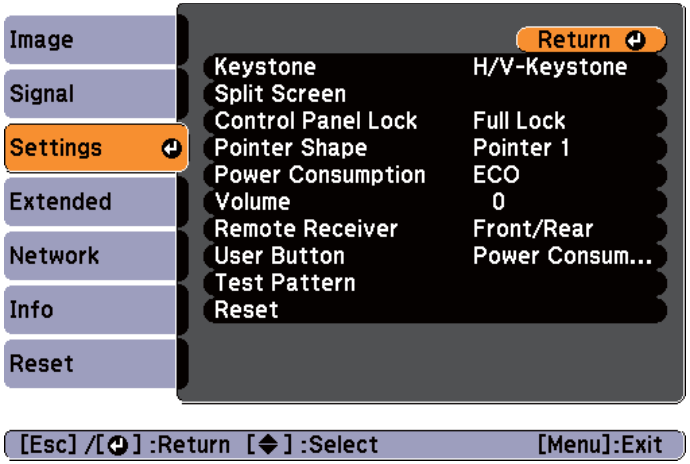
Using the remote control



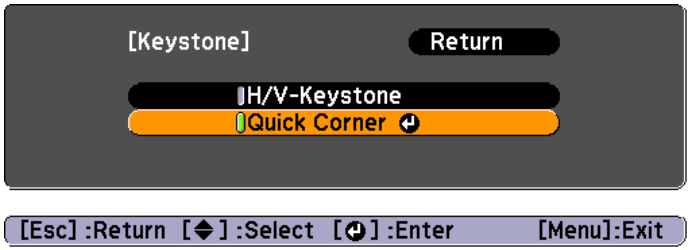
Using the control panel



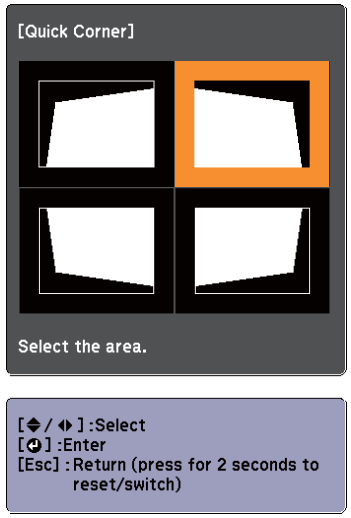
2 Select **Keystone** from **Settings**.



3 Select **Quick Corner**, and then press the [↵] button.

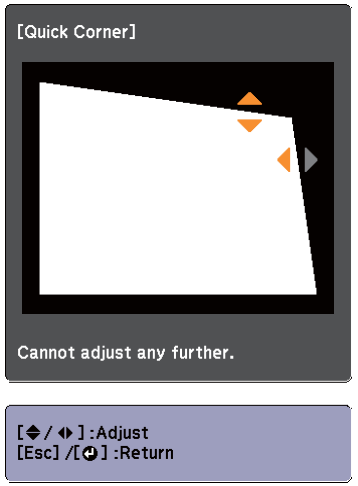


4 Using the [▲], [▼], [◄], and [►] buttons on the remote control, or the [ ], [ ], [ ], and [ ] buttons on the control panel, select the corner to correct, and then press the [↵] button.



5 Using the [ ], [ ], [ ], and [ ] buttons on the remote control, or the [ ], [ ], [ ], and [ ] buttons on the control panel, correct the position of the corner.

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.



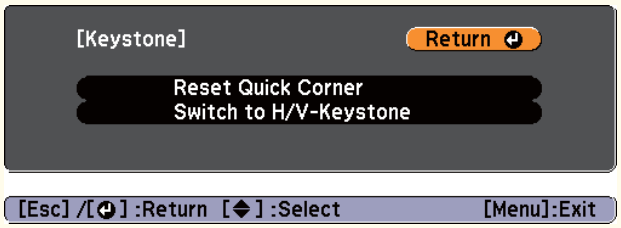
6 Repeat procedures 4 and 5 as needed to adjust any remaining corners.

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

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

☛ **Settings** - **Keystone** - **H/V-Keystone** p.82

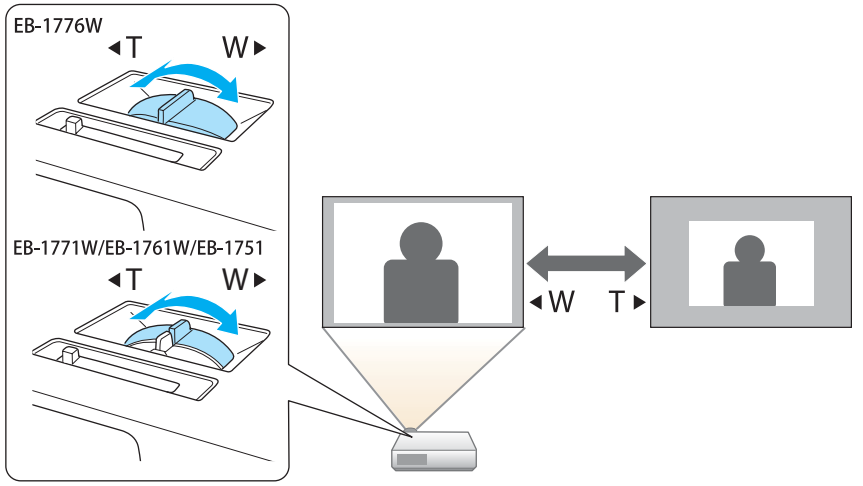
- When **Auto H/V-Keystone** is set to **On**, the message "Do you want to perform Auto H/V-Keystone correction?" is displayed when the projector is moved. (EB-1776W only)
  After you perform this function, the **Keystone** setting changes from **Quick Corner** to **H/V-Keystone**, after which pressing the [ ], [ ], [ ], or [ ] button on the control panel performs H/V-Keystone.
  ☛ **Settings** - **Keystone** - **H/V-Keystone** p.82
- If the [Esc] button is held down for about two seconds while the corner selection screen from step 4 is displayed, the following screen is displayed.



Reset Quick Corner: Resets the result of Quick Corner corrections.
Switch to H/V-Keystone: Switches the correction method to **H/V-Keystone**.
☛ "Settings Menu" p.82

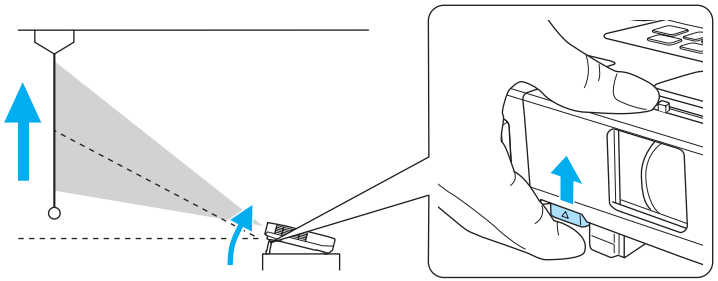
Adjusting the Image Size

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



Adjusting the Image Position

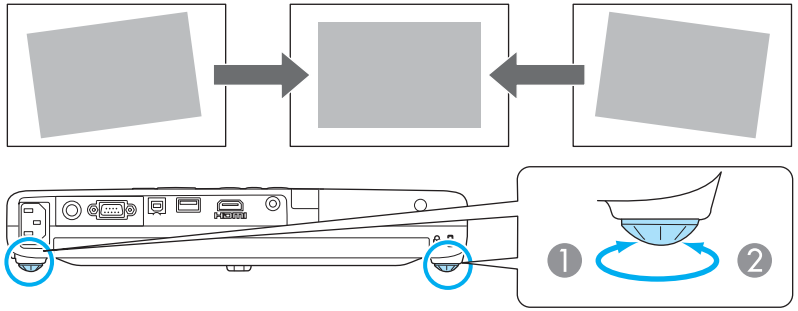
Press the foot adjust lever to extend and retract the front adjustable foot. You can adjust the position of the image by tilting the projector up to 14 degrees.



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

Adjusting the Horizontal Tilt

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

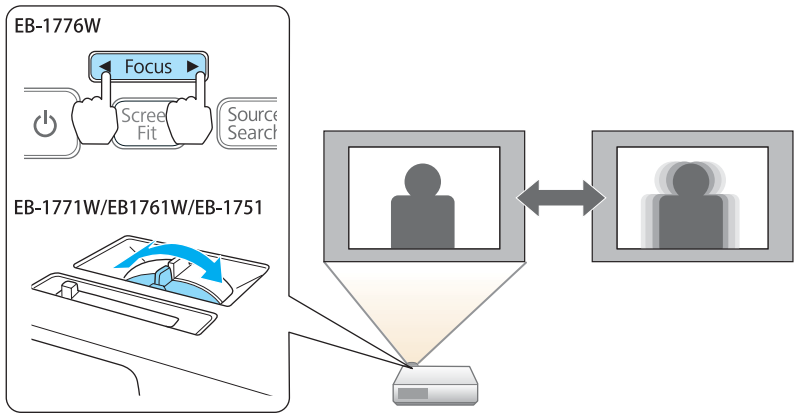


1. Extend the rear foot.
2. Retract the rear foot.

Correcting the Focus

You can correct the focus using one of the following methods.

- Press the [Focus] button on the control panel or the remote control to adjust the focus. (EB-1776W only)
- Turn the focus ring to adjust the focus. (EB-1771W/EB-1761W/EB-1751 only)

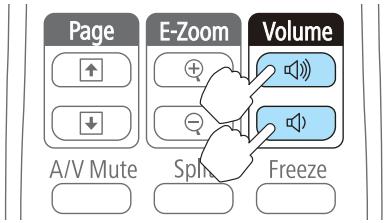


Adjusting the Volume

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

- Press the [Volume] buttons on the remote control to adjust the volume.

Remote control



[🔉] Decreases the volume.
[🔊] Increases the volume.

- Adjust the volume from the Configuration menu.
  ☛ **Settings** - **Volume** p.82

> **⚠ 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 sRGB 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.
Customized	Select **Customized** if you want to adjust the **R**, **G**, **B**, **C**, **M**, and **Y** settings in the **Color Adjustment** submenu of the Configuration menu.
DICOM SIM*1*3	Ideal for projecting X-ray photographs and other medical images. This produces images with clear shadows. The projector is not a medical device and cannot be used for medical diagnosis.

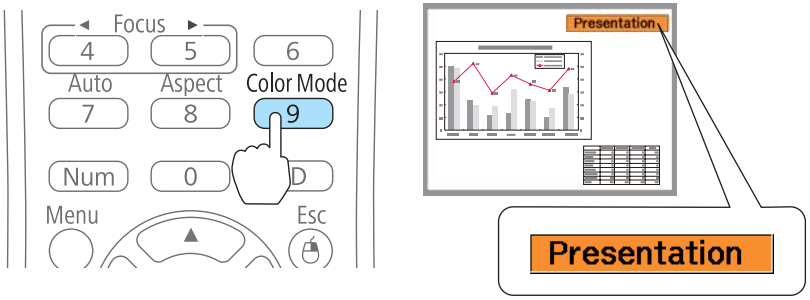
*1 This selection is only available when the input signal is RGB or when the source is USB Display, USB, or LAN. (Depending on the model used, some sources are not supported.)

*2 This selection is only available when the input signal is component video, or when the source is Video.

*3 The effects may not be reproduced correctly according to your settings and screen specifications.

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

Remote control



You can set Color Mode from the Configuration menu.

☛ **Image** - **Color Mode** p.80

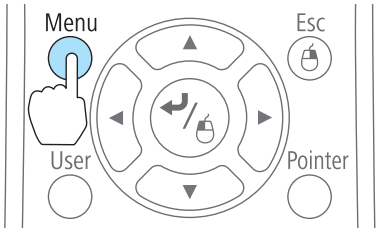
Setting Auto Iris

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

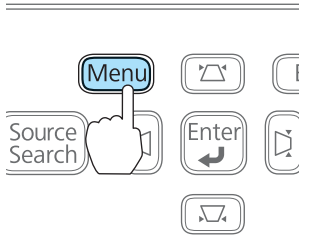
1 Press the [Menu] button.

☛ "Using the Configuration Menu" p.76

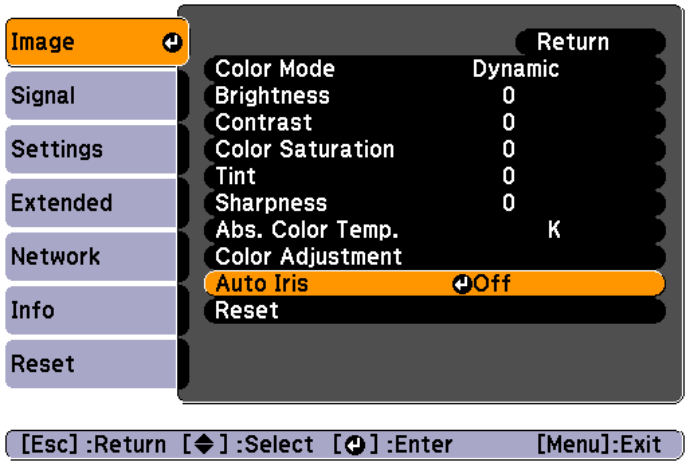
Using the remote control



Using the control panel



2 Select **Auto Iris** from **Image**.



3 Select **On**.

The setting is stored for each Color Mode.

4 Press the [Menu] button to finish making settings.

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

Changing the Aspect Ratio of the Projected Image

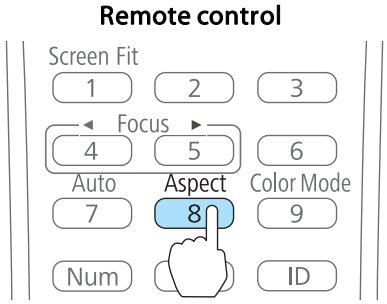
Change the aspect ratio when video equipment is connected so that images that have been recorded in digital video or onto DVDs can be viewed in 16:9 wide-screen format. Change the aspect ratio when projecting computer images at full size.

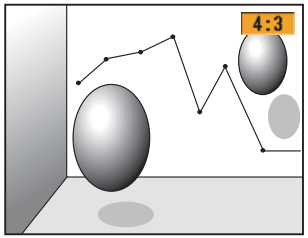
Available Aspect Modes vary depending on the image signal currently being projected.

The changing methods and the types of Aspect Modes are as follows.

Changing methods

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





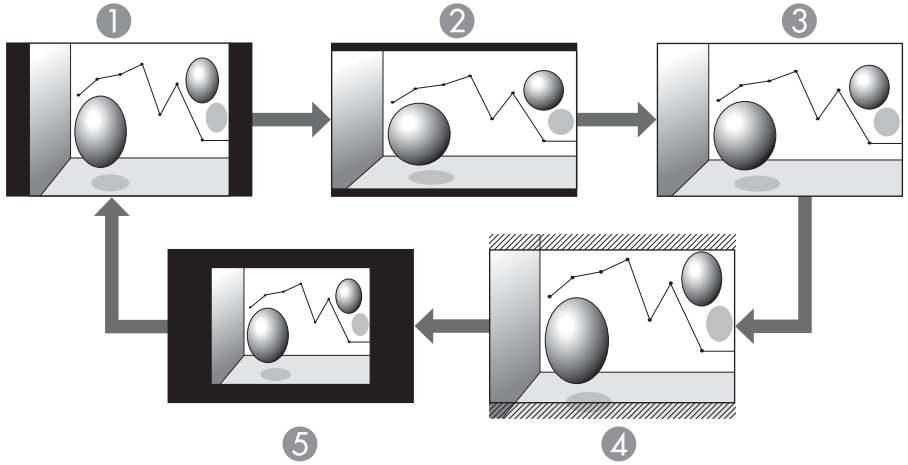
You can set the aspect ratio from the Configuration menu.

☛ **Signal** - **Aspect** p.81

Changing the aspect ratio for images from video equipment or from the HDMI port

For EB-1776W/EB-1771W/EB-1761W

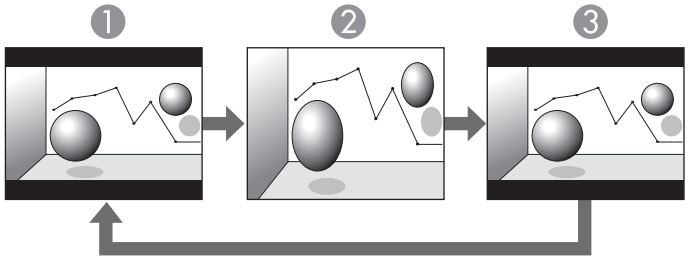
Each time the button is pressed, the aspect ratio changes in the order of **Normal** or **Auto**, **16:9**, **Full**, **Zoom**, and **Native**.



1. Normal or Auto
2. 16:9
3. Full
4. Zoom
5. Native

For EB-1751

Each time the button is pressed, the aspect ratio changes in the order **Auto** (only when the input source is HDMI), **4:3**, and **16:9**.



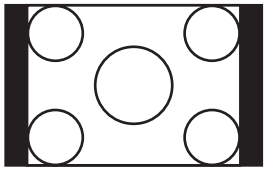
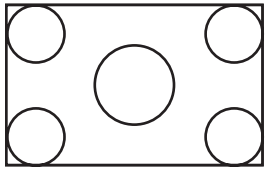
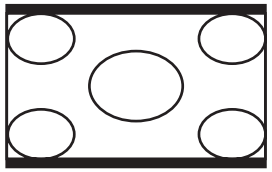
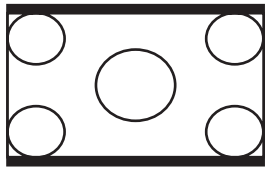
1. Auto (only when the input source is HDMI)
2. 4:3*
3. 16:9

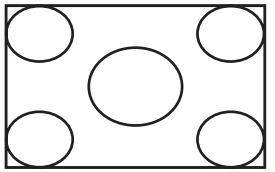
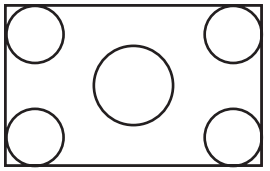
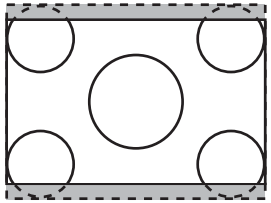
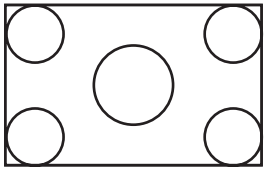
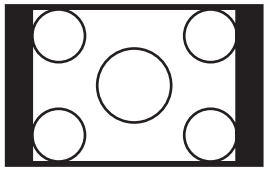
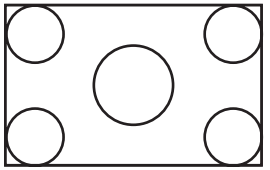
* When a 720p/1080i/1080p signal is input, the display is in a zoomed 4:3 format (the image is cut off on the right and left sides).

Changing the aspect ratio for computer images

For EB-1776W/EB-1771W/EB-1761W

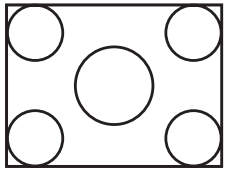
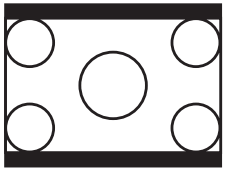
Each time the button is pressed, the aspect ratio changes in the order of **Normal**, **16:9**, **Full**, **Zoom**, and **Native**.

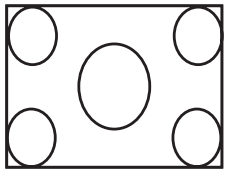
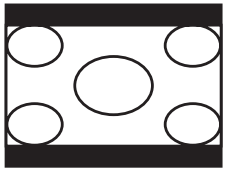
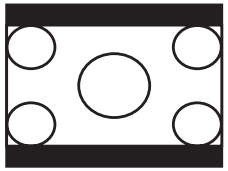
Aspect mode	Input Signal	
	XGA 1024X768(4:3)	WXGA 1280X800(16:10)
Normal		
16:9		

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

For EB-1751

Each time the button is pressed, the aspect ratio changes in the order **Normal**, **4:3**, and **16:9**.

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

Aspect mode	Input Signal	
	XGA 1024X768(4:3)	WXGA 1280X800(16:10)
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.

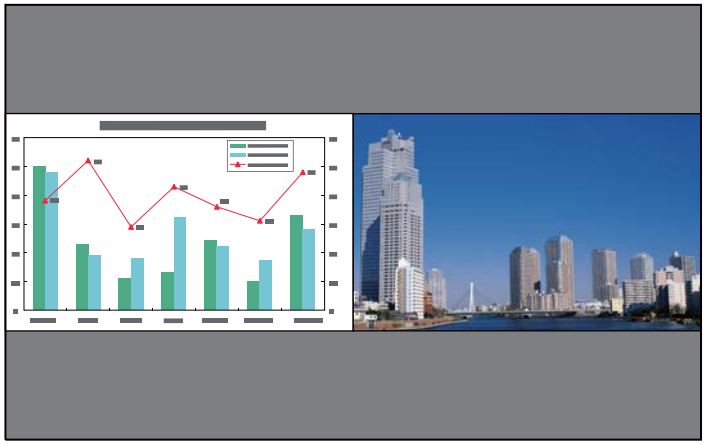
☛ **Signal** - **Resolution** p.81

Useful Functions

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

Projecting Two Images Simultaneously (Split Screen) (EB-1776W/EB-1771W/EB-1761W Only)

You can simultaneously project images from two sources on the right and left of the screen.



Input sources for split screen projection

The combinations of input sources that can be projected on a split screen are listed below.

Left Screen	Right Screen					
	Computer	Video	HDMI	USB Display	USB	LAN
Computer	-	✓	✓	✓	✓	✓
Video	✓	-	✓	✓	✓	✓
HDMI	✓	✓	-	✓	✓	✓
USB Display	✓	✓	✓	-	-	-
USB	✓	✓	✓	-	-	-
LAN	✓	✓	✓	-	-	-

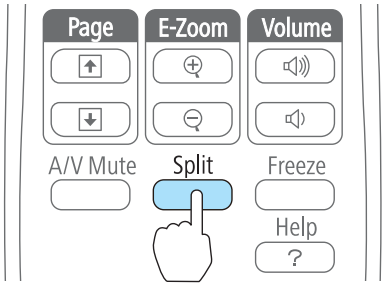
Operating procedures

Projecting on a split screen

1 Press the [Split] button while projecting.

The currently selected input source is projected on the left of the screen.

Remote control

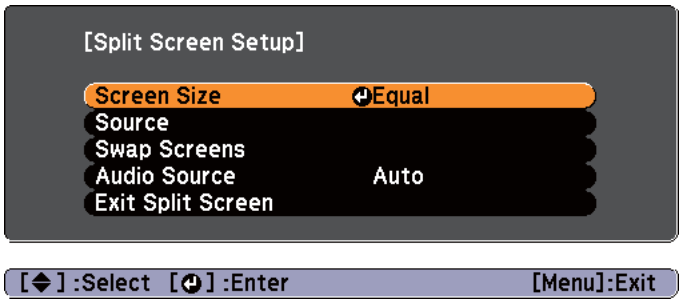


You can perform the same operations from the configuration menu.

☛ **Settings** - **Split Screen** p.82

2 Press the [Menu] button.

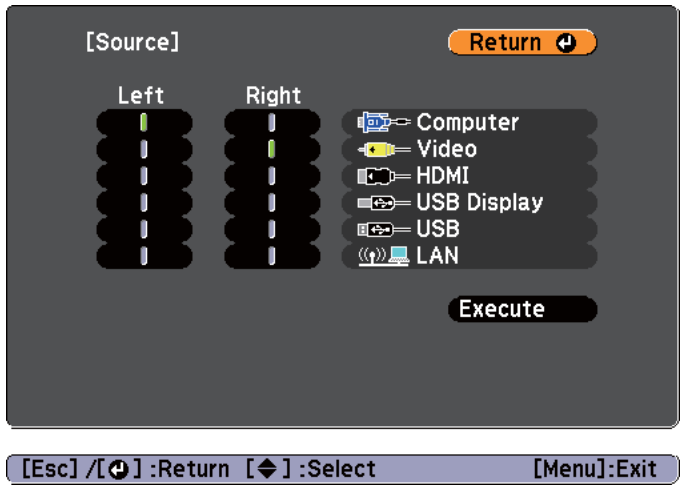
The Split Screen Setup screen is displayed.



3 Select the **Source**, and then press the [↵] button.

The Source screen is displayed.

4 Select each input source for **Left** and **Right**.



Only input sources that can be combined can be selected.

☛ "Input sources for split screen projection" p.49

The Source screen is also displayed when the following buttons are pressed during split screen projection.

- Source Search button
- Computer button
- Video button
- USB button
- LAN button

5 Select **Execute**, and then press the [↵] button.

To switch the source during split screen projection, start the procedure from step 2.

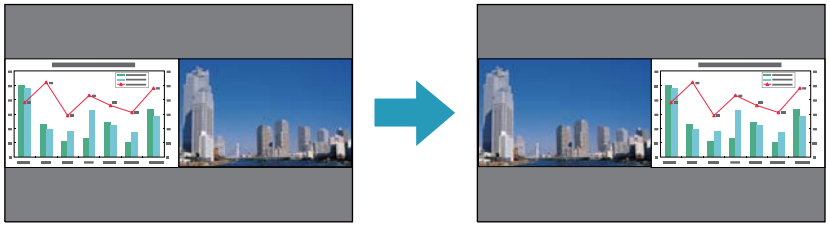
Switching the left and right screens

Use the following procedure to switch the projected images displayed on the left and right screens.

1 Press the [Menu] button during split screen projection.

2 Select **Swap Screens**, and then press the [↵] button.

The projected images on the left and right are swapped.

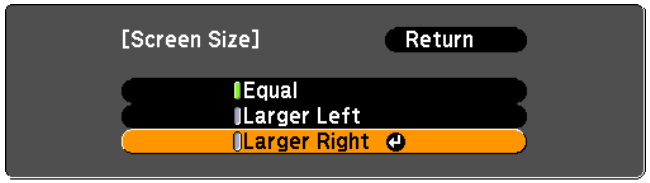


Switching the left and right image sizes

1 Press the [Menu] button during split screen projection.

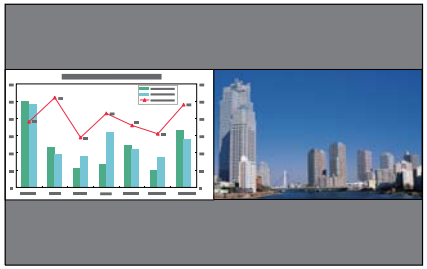
2 Select **Screen Size**, and then press the [↵] button.

3 Select the screen size you want to display, and then press the [↵] button.

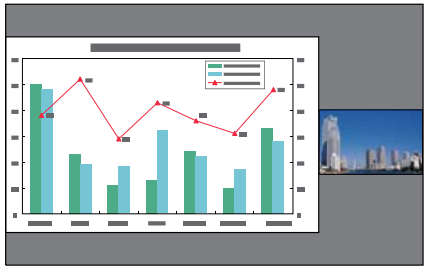


The projected images will appear as shown below after setting the screen size.

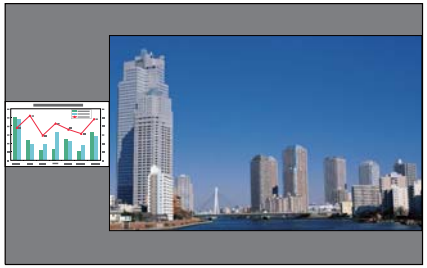
Equal



Larger Left



Larger Right



- You cannot enlarge both the left screen and right screen images at the same time.
- When one image is enlarged, the other image is reduced.
- Depending on the video signals that are input, the images on the left and right may not appear to be the same size even if **Equal** is set.

Ending the split screen

To end split screen, press the [Esc] button.

The following steps can also be used to end the split screen.

- Press the [Split] button on the remote control.
- Select **Exit Split Screen** from the configuration menu.
  ☛ **Settings - Split Screen Setup** p.82

Restrictions during split screen projection

Operating restrictions

The following operations cannot be performed during split screen projection.

- Setting the configuration menu
- E-Zoom
- Switching the aspect mode (The aspect mode will be set to **Normal**.)
- Operations using the [User] button on the remote control
- Auto Iris

Help can be displayed only when image signals are not input or when an error or warning notification is displayed.

Restriction relating to images

- The default values for the **Image** menu are applied to the image on the right screen. However, the settings for the image projected on the left screen are applied to the image on the right screen for **Color Mode**, **Abs. Color Temp.**, and **Color Adjustment**.
- The setting value **Off** for **Progressive** and **Noise Reduction** is applied to the image on the right screen.
  ☛ "Signal Menu" p.81
- When there is no image signal input, the display screen will be the color that is set in Display Background. When **Logo** is selected, the display is **Blue**.
- When A/V Mute is performed, the display is **Black**.

Projecting Without a Computer (Slideshow)

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 Slideshow.

You can make presentations with just a USB storage device and the projector by converting PowerPoint files to scenarios using the supplied EasyMP Slide Converter, and then saving them to the USB storage device.

- You may not be able to use USB storage devices that incorporate security functions.
- You cannot correct keystone distortion while projecting a Slideshow, even if you press the [ ], [ ], [ ], or [ ] button on the control panel.

Specifications for files that can be projected using Slideshow

Type	File Type (Extension)	Notes
Image	.jpg	The following cannot be projected. - CMYK color mode formats - Progressive formats - Images with a resolution greater than 8192x8192 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 1280x800.
	.gif	• Cannot project images with a resolution greater than 1280x800. • Cannot project animated GIFs.
	.png	Cannot project images with a resolution greater than 1280x800.
Movie	.avi	• Cannot project images with a resolution greater than 1280 x 720. • The audio format can only playback linear PCM and ADPCM.
Scenario file	.fse	PowerPoint files are converted to this format in EasyMP Slide Converter.
PDF contents	.pdf (EB-1776W/ EB-1771W/ EB-1761W only)	• You can project PDF files version 1.7 or earlier. • Cannot project encrypted PDFs.

- 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.

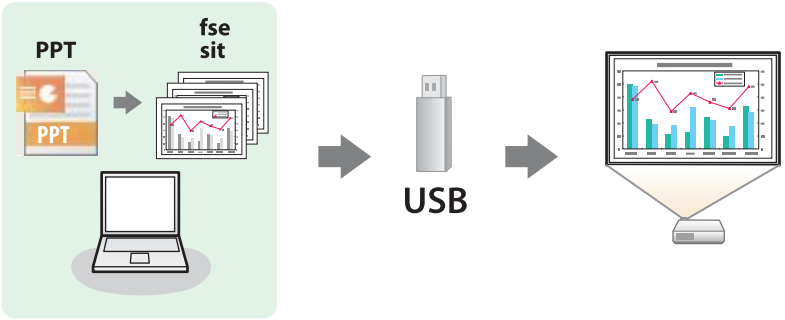
Slideshow examples

Projecting images stored on USB storage

☛ "Projecting images or movies" p.55

☛ "Projecting image files in a folder in sequence (Slideshow)" p.58

Projecting PowerPoint files converted in EasyMP Slide Converter



See the following manual for more information on converting PowerPoint files to scenarios using EasyMP Slide Converter.

☛ *EasyMP Slide Converter Operation Guide*

Slideshow operating methods

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

Starting Slideshow

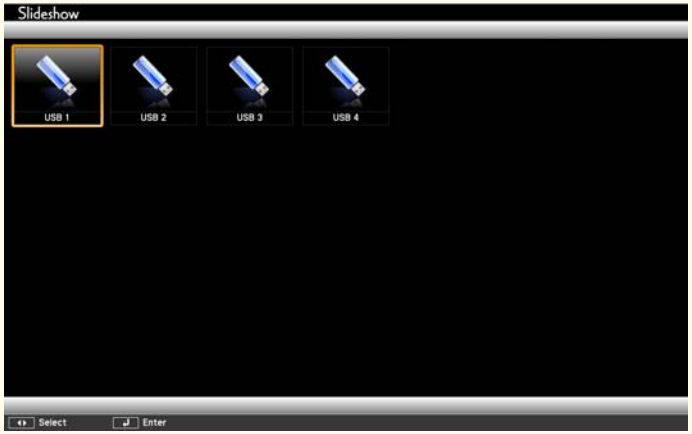
1. Change the projected image to USB.
   ☛ "Switching to the Target Image by Remote Control" p.31
2. Connect the USB storage device to the projector.
   ☛ "Connecting USB Devices" p.26
   Slideshow starts and the file list screen is displayed.

- The following files are displayed as thumbnails (file contents are displayed as small images).
  - JPEG files
  - FSE files (an image of the first slide)
  - PDF files (an image of the first page of the PDF)
  - AVI files (an image 15 seconds from the start of the movie)
- Other files or folders are displayed as icons as shown in the following table.

Icon	File	Icon	File
	FSE files*		BMP files
	JPEG files*		GIF files
	AVI (Motion JPEG) files*		PNG files
	PDF files*		

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

- When AutoRun is set for a scenario, it is automatically played back with the highest priority over other input sources. To stop playback, press the [Esc] button on the remote control.
- 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 [▲], [▼], [◄], or [►] button to select the drive you want to use, and then press the [↵] button.



- 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.

Projecting images

1. Press the [▲], [▼], [◄], or [►] button 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 [⏬] button on the remote control, or position the cursor on **Next Page** at the bottom of the screen and press the [↵] button.

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

2 Press the [↵] button.

The selected image is displayed.

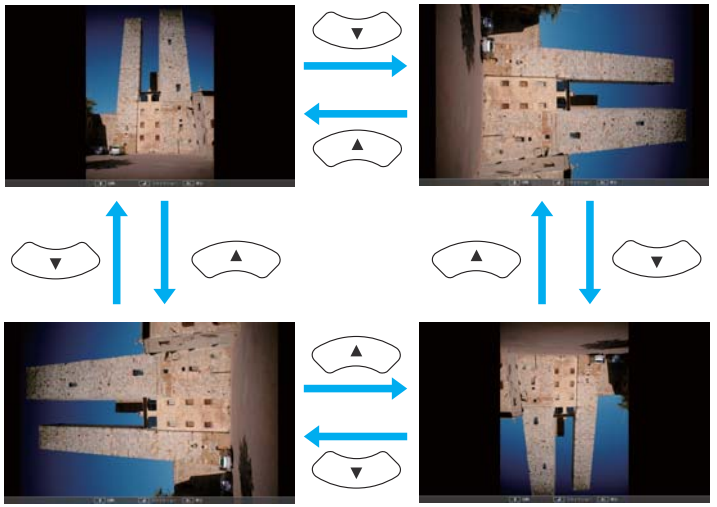
When a folder is selected, the files in the selected folder are displayed. To return to the previous screen, position the cursor on **Back to Top** and press the [↵] button.

Rotating images

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

1 Display images or run Slideshow.

2 While projecting, press the [▲] or [▼] button.



Stopping Slideshow

To close Slideshow, 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 images or movies

Attention

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

1 Start Slideshow.

The file list screen is displayed.

☛ "Starting Slideshow" p.53

2 Press the [▲], [▼], [◄], or [►] button to select the image file you want to project.

3 Press the [↵] button.

The image is displayed or the movie is played back.

Press the [◄][►] buttons to move to the next or previous image file.

4 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.

Projecting PDF files (EB-1776W/EB-1771W/EB-1761W only)

You can project PDF files using slideshow. In PDF files, you can move pages up or down, enlarge, or rotate.

1 Start Slideshow.

The file list screen is displayed.

☛ "Starting Slideshow" p.53

2 Press the [▲], [▼], [◄], or [►] button to select the PDF file you want to project.

If the file extension is not .pdf, the file is not displayed in the file list.

3 Press the [↵] button.

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

You can perform the following operations while a PDF file is displayed.

- Page Up/Down

  While a page is displayed at full screen size, press the [▲] or [▼] button to go to the previous or next page.

- Selecting a page

  Press the [Esc] button to display the select page menu.

  Select the page you want to project using the [◄] or [►] button, and then press the [↵] button to display the selected page.

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

- Expanding a page

  While a page is displayed at full screen size, press the [↵] button to expand the image.

  Portrait pages are expanded horizontally to fit the width of the screen, and landscape pages are expanded vertically to fit the height of the screen.

  While a page is displayed at expanded size, press the [↵] button to return to standard full screen size display.

- Scrolling a page

  While a page is displayed at expanded size, press the [▲], [▼], [◄], or [►] button to scroll the page.

- Rotating a page

  While a page is displayed at full screen size, press the [◄] or [►] button to rotate all pages in the PDF by 90 degrees.

Closing PDF file display

1. Press the [Esc] button while a PDF file is being displayed.
   The select page menu is displayed.
2. Press the [▲] or [▼] button to select **Exit**.
3. Press the [↵] button.
   The PDF file being displayed closes and the file select screen is displayed.

The following operations cannot be performed while viewing a PDF in Slideshow.

- Releasing a password
- Displaying e-signatures
- Displaying JPEG2000 images
- Displaying transparent effects
- Playing multi media contents
- Displaying 3D artwork
- Displaying comments

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.

1. Start Slideshow.
   The file list screen is displayed.
   ☛ "Starting Slideshow" p.53
2. Press the [▲], [▼], [◄], or [►] button 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.59
   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 [▶] button, the [↵] button, or the [⏎] button to display the next file.

Playing a scenario

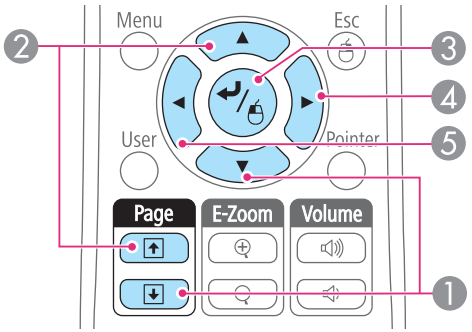
1. Start Slideshow.
   The file list screen is displayed.
   ☛ "Starting Slideshow" p.53

2. Press the [▲], [▼], [◀], or [▶] button to select the scenario you want to playback.

3. Press the [↵] button.
   Playback starts.

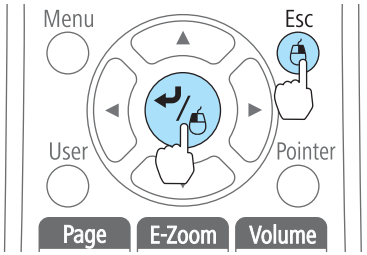
Operations while playing a scenario

To switch screens



1. Next slide
2. Previous slide
3. Next slide or animation
4. Next slide or animation (animation effects are not played.)
5. Previous slide or animation (animation effects are not played.)

To stop playback



When you press the [Esc] button, the message "Do you want to quit playing the scenario?" is displayed. Close by selecting **Exit** and pressing the [↵] button.

Continue playback by selecting **Return** and pressing the [↵] button.

The following functions can be used when projecting a scenario or image file with Slideshow.

- Freeze
  ☛ "Freezing the Image (Freeze)" p.61
- A/V Mute
  ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.60
- E-Zoom
  ☛ "Enlarging Part of the Image (E-Zoom)" p.63
- Pointer
  ☛ "Pointer Function (Pointer)" p.61

Image file display settings and Slideshow operation settings

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

1. Press the [▲][▼][◀][▶] button to position the cursor over the folder where you want to set display conditions and press

the [Esc] button. Select **Option** from the submenu displayed, 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 [↵] button to enable settings.

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.
Screen Switching Time	You can set the time before a file switches to the next file in Slideshow. You can set a time between **No** (0) to 60 Seconds. When you set **No**, auto play is disabled.
Effect	You can set the screen effects when changing slides.

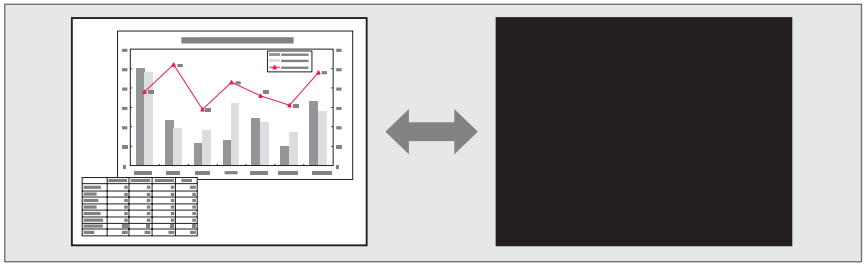
3 When you have finished making settings, press the [▲], [▼], [◄], or [►] button to position the cursor over **OK**, and then press the [↵] button.

The settings are applied.

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

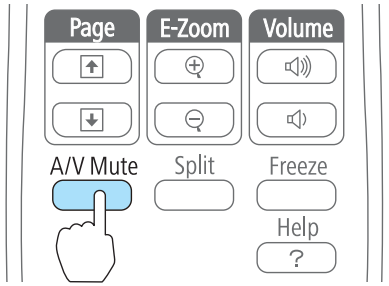
Hiding the Image and Sound Temporarily (A/V Mute)

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.

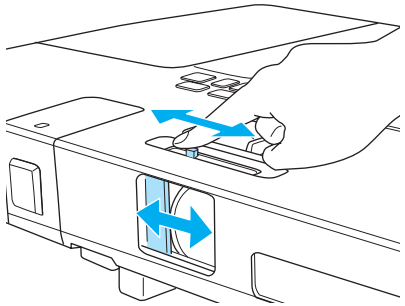


Each time you press the [A/V Mute] button or open/close the lens cover, A/V Mute turns on or off.

Remote control



Projector



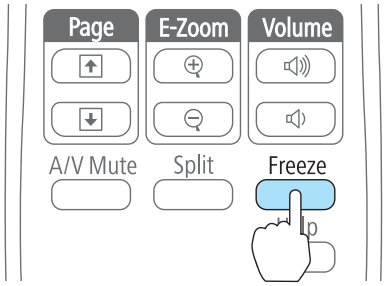
- When projecting moving images, the images and sound continue to be played back while A/V Mute is on. It is not possible to resume projection from the point where A/V Mute was activated.
- You can select the screen displayed when the [A/V Mute] button is pressed from the Configuration menu.
  ☛ **Extended** - **Display** - **A/V Mute** p.84
- 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**.
  ☛ **Extended** - **Operation** - **Lens Cover Timer** p.84
- 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.

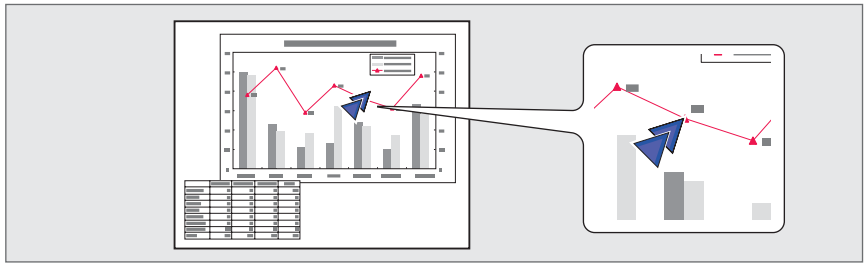
Remote control



- 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)

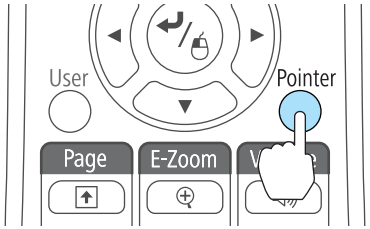
This allows you to move a Pointer icon on the projected image, and helps you draw attention to the area you are talking about.



1 Display the Pointer.

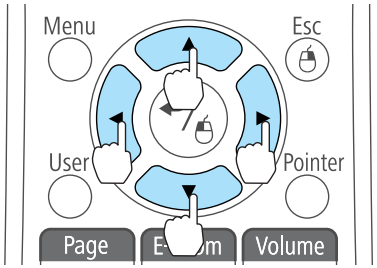
Each time you press the [Pointer] button, the pointer appears or disappears.

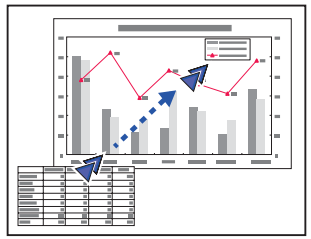
Remote control



2 Move the Pointer icon ( ).

Remote control





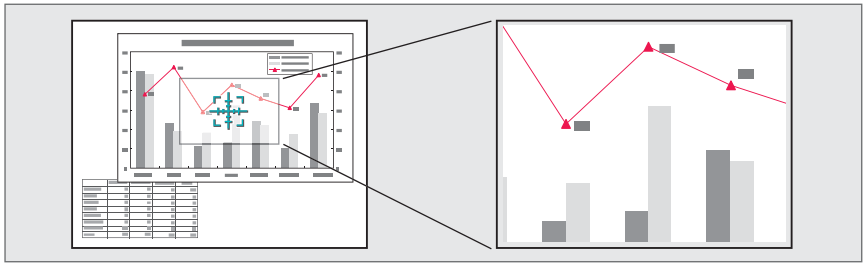
When any pair of adjacent [ ], [ ], [ ], or [ ] buttons are pressed at the same time, the pointer can be moved diagonally.

You can use **Pointer Shape** to set the shape of the pointer icon.

☛ **Settings** - **Pointer Shape** p.82

Enlarging Part of the Image (E-Zoom)

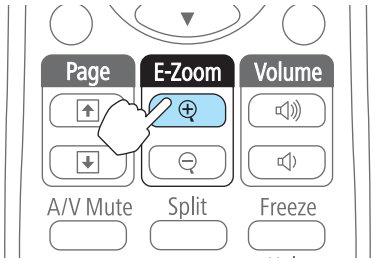
This is useful when you want to expand images to see them in greater detail, such as graphs and tables.



1 Start E-Zoom.

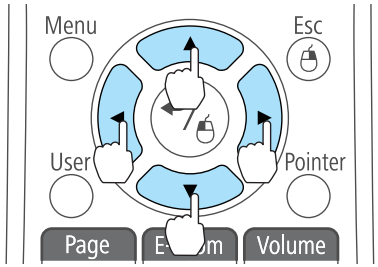
Press the [⊕] button to display the Cross (✛).

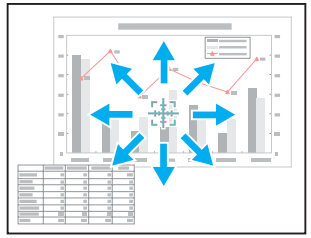
Remote control



2 Move the Cross (✛) to the area of the image that you want to enlarge.

Remote control

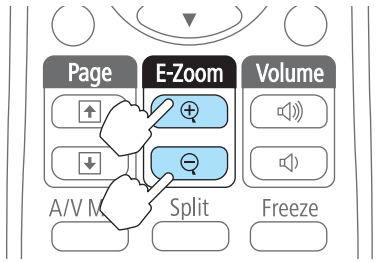




When any pair of adjacent [▲], [▼], [◀], or [▶] buttons are pressed at the same time, the pointer can be moved diagonally.

3 Enlarge.

Remote control



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

[⊖] 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 [►] button to scroll the image.
- If E-Zoom is selected, **Progressive** and **Noise Reduction** are cancelled.

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

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

Once the connection has been made, the mouse pointer can be operated as follows.

Use the following procedure to enable the Wireless Mouse function.

1 Connect the projector to the computer with a commercially available USB cable.

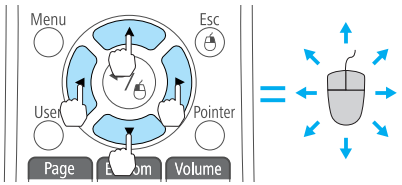
☛ "Connecting a Computer" p.24

2 Change the source to one of the following.

- USB Display
- Computer
- HDMI

☛ "Switching to the Target Image by Remote Control" p.31

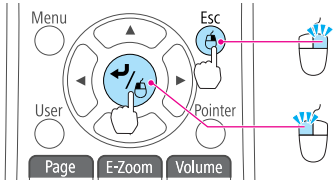
Moving the mouse pointer



[▲][▼][◄][►] buttons:

Moves the mouse pointer.

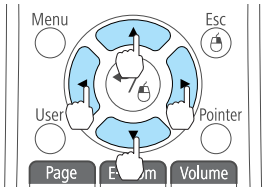
Mouse clicks



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

[Esc] button: Right click.

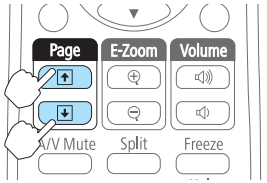
Drag and drop



While holding down the [↵] button, press the [▲], [▼], [◄], or [►] button.

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

Page Up/Down



[▲] button: Moves to the previous page.
[▼] button: Moves to the next page.

- 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.

Correcting the Color Difference when Projecting from Multiple Projectors

When multiple projectors are lined up and projecting images, you can correct the brightness and color tone of each projector's image with multi-screen color adjustment so that the colors of images from each projector match closely.

In some cases the brightness and color tone may not match completely even after correction.

Summary of correction procedure

When multiple projectors are set up and you need to make corrections, use the following procedure to correct one projector at a time.

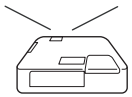
1. **Set the projector ID.**
   Set a unique projector ID for the target projector so that you can limit which projector is being corrected.
2. **Correct the color difference.**
   You can carry out color correction when projecting from multiple projectors. You can adjust from black to white in five stages called levels 1 to 5, and in each of these 5 levels you can adjust the following two points.
   - Correcting brightness
     You can correct the image brightness to make them all equal.
   - Correcting color
     You can correct the image color so that they match closely.

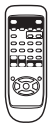
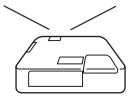
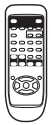
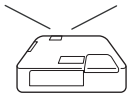
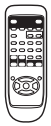
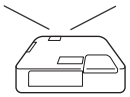
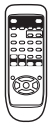
Setting an ID and using the remote control

By setting an ID for each projector, you can limit which projector is operated from the remote control.

You can set an ID for the projector within a range of "1" to "9". The default value is Off.

On the remote control, select the Projector ID from 0 to 9 for the projector you want to operate. The following examples show the combination of IDs for the Projector ID and the ID selected with the remote control.

Opera-tion	Combinations		Descriptions
Possible		Projector ID: 1	When the Projector ID and the ID selected with the remote control match, you can operate the projector from the remote control.

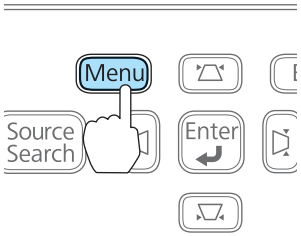
Opera-tion	Combinations		Descriptions
		ID selected with remote control: 1	
Possible		Projector ID: Off	When the Projector ID is set to Off, you can operate the projector regardless of the ID selected with the remote control.
		ID selected with remote control: 1	
Possible		Projector ID: 1	When 0 is selected with the remote control, you can operate the projector from the remote control regardless of the Projector ID.
		ID selected with remote control: 0	
Not possi-ble		Projector ID: 1	When the Projector ID and the ID selected with the remote control do not match, you cannot operate the projector from the remote control.
		ID selected with remote control: 3	

Setting the Projector ID

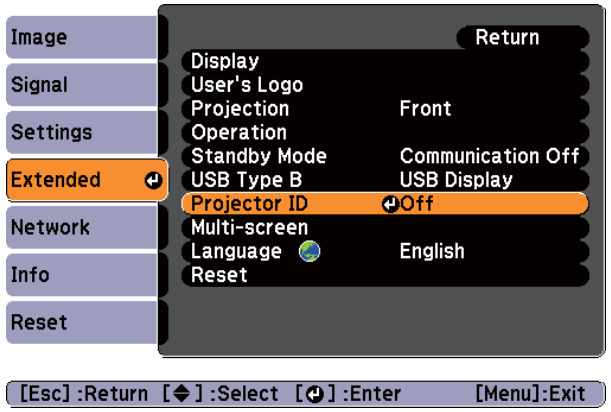
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.76

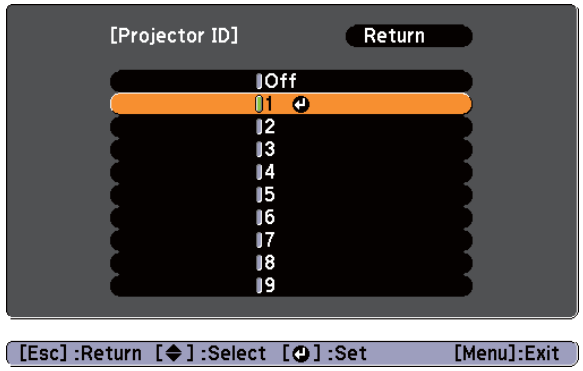
Control panel



2 Select **Projector ID** from **Extended**.



3 Choose the ID you want to set and press the [↵] button.



4 Press the [Menu] button to finish making settings.

Perform steps 1 to 4 for all projectors and set a unique ID for each one.

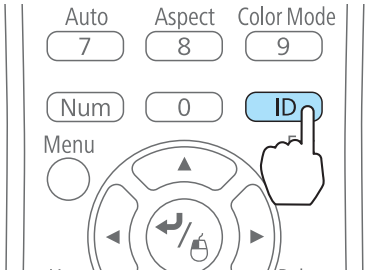
Selecting the ID for the projector you want to operate using the remote control

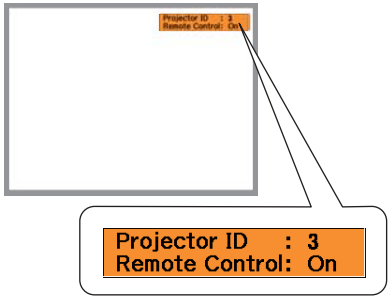
Select the ID each time you turn on the projector. When the projector is turned on, the ID set for the remote control is 0.

1 Point the remote control at the remote receiver of the target projector and press the [ID] button on the remote control.

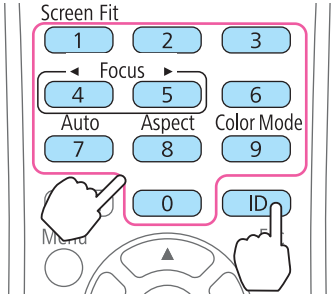
When you press the [ID] button, the current Projector ID is displayed on the projection screen. It disappears in about three seconds.

Remote control





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



Correcting

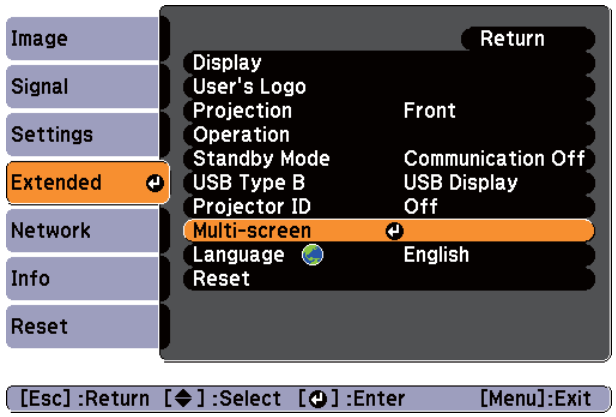
After setting up the projectors, correct the brightness and tone for each projector to reduce the differences.

Correcting color differences

Operate using the remote control with the ID set according to the projector being used.

1. Press the [Menu] button.
☛ "Using the Configuration Menu" p.76

2. Select **Multi-screen** from **Extended**.



3. Select the level to be corrected in **Adjustment Level**.

- Each time a level is selected, the pattern of the level selected is displayed.
- You can start correcting from any level, usually you can make it darker or lighter by correcting 1 to 5 or 5 to 1.

4. Correct the brightness with **Brightness Correct**.

- When you select **Level 5**, adjust the brightness to match the darkest image.
- When you select **Level 1**, adjust the brightness to match the brightest image.
- When you select **Level 2** to **Level 4**, adjust the brightness to the mid-range brightness image.
- Each time the [↵] button is pressed, the image displayed changes between the pattern display and the actual image, and you can check the correction results and make corrections in the actual image.

5. Adjusting **Color Correct. (G/R)** and **Color Correct. (B/Y)**.

6. Repeat procedures 3 to 5 until corrections are finished.

7. When all corrections are finished, press the [Menu] button to finish making settings.

After matching the ID for the remote control to the projector, perform steps 1 to 7 for all projectors that need to be corrected.

Saving a User's Logo

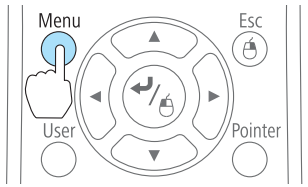
You can save the image that is currently being projected as a User's Logo.

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

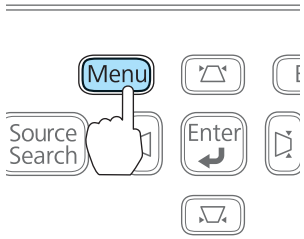
1 Project the image you want to save as the User's Logo, and then press the [Menu] button.

☛ "Using the Configuration Menu" p.76

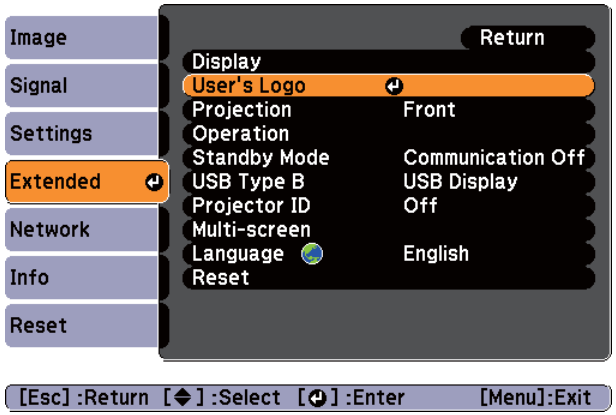
Using the remote control



Using the control panel



2 Select **User's Logo** from **Extended**.



- 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.71

- If **User's Logo** is selected when Keystone, E-Zoom, Aspect, Progressive, or Zoom are being performed, the function currently being performed is cancelled.

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

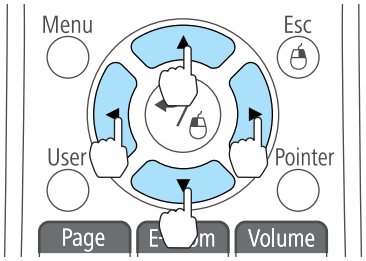
When you press the [↵] button on the remote control or the control panel, the screen size may change depending on the signal to match the actual resolution of the image signal.

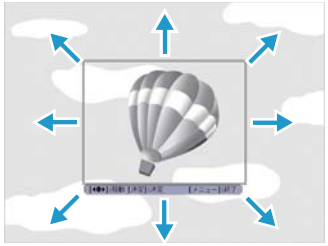
4 Move the box to select the part of the image to use as the User's Logo.

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

http://www.pureglare.com.au

Remote control

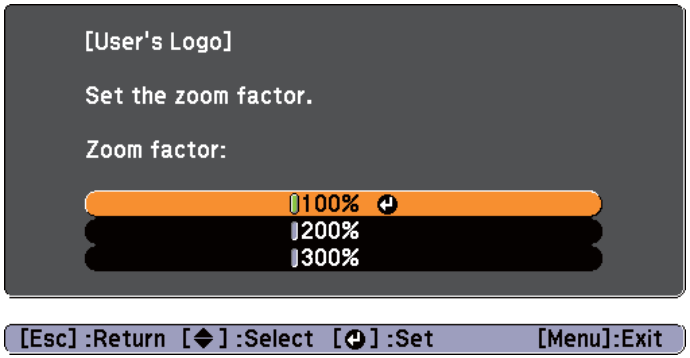




You can save at 400x300 dots in size.

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.



7 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.
- Saving the User's Logo may take approximately 15 seconds. Do not operate the projector or any connected equipment while it is saving, otherwise malfunctions may occur.

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.73
- Anti-Theft Lock
  The projector is equipped with the following anti-theft security device.
  ☛ "Anti-Theft Lock" p.74

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

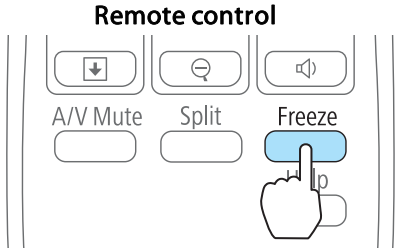
- **Power On Protect**
  When **Power On Protect** is **On**, you need to enter a preset password after the projector is plugged in and turned on (this also applies to Direct Power On). If the correct password is not entered, projection does not start.
- **User's Logo Protect**
  Even if someone tries 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.84
- **Network Protect** (EB-1776W/EB-1771W/EB-1761W only)
  When **Network Protect** is set to **On**, changing the settings for **Network** is prohibited.
  ☛ "Network Menu (EB-1776W/EB-1771W/EB-1761W Only)" p.86

Setting Password Protect

Use the following procedure to set Password Protect.

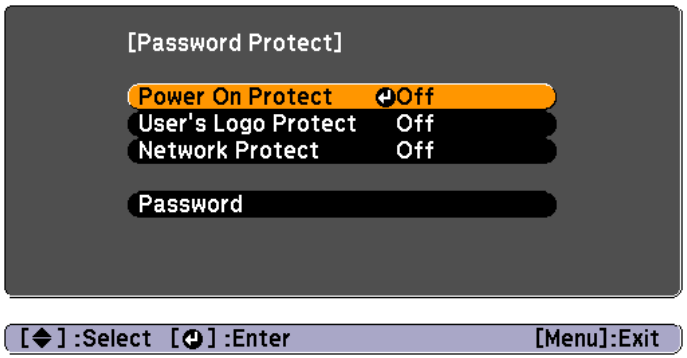
1. During projection, hold down the [Freeze] button for about five seconds.

   The Password Protect setting menu is displayed.



- 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.72
- When the password is set, stick the supplied password protect sticker in a visible position on the projector as a further theft deterrent.

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



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

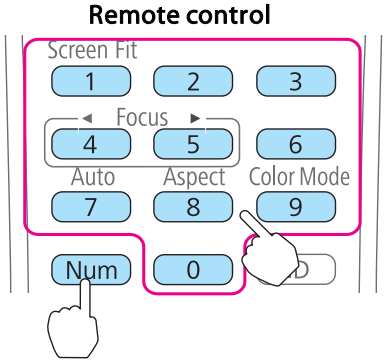
Press the [Esc] button, the screen displayed in step 2 is displayed again.

4 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.

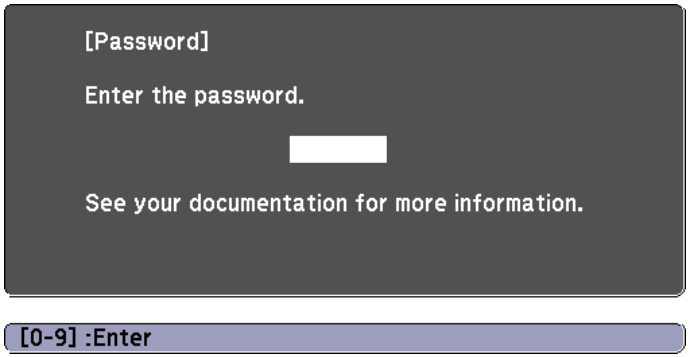


(4) Re-enter the password.
The message "Password accepted." is displayed.
If you enter the password incorrectly, a message is displayed prompting you to re-enter the password.

Entering the Password

When the password entry screen is displayed, enter the password using the [Num] buttons on 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 input 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.

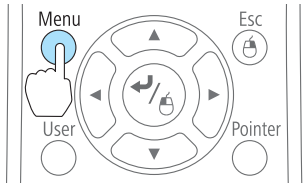
- Full Lock
  All of the buttons on the control panel are locked. You cannot perform any operations from the control panel, including turning the power on or off.
- Partial Lock
  All of the buttons on the control panel, except for the [⏻] button, are locked.

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.

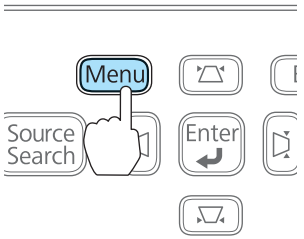
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.76

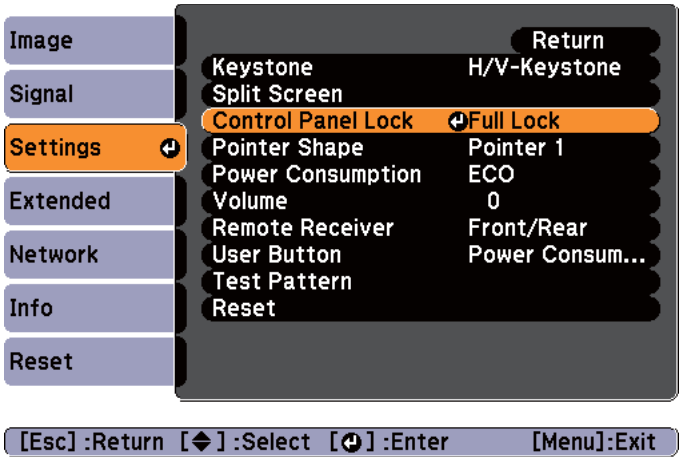
Using the remote control



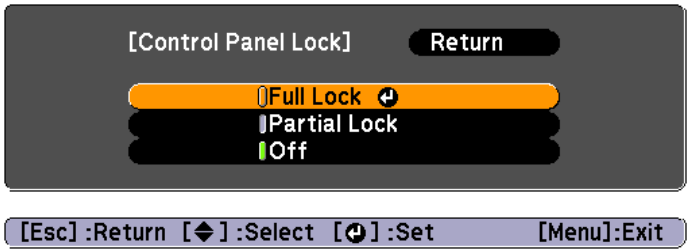
Using the control panel



2 Select **Control Panel Lock** from **Settings**.



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



4 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.82
- Press and hold down the [↵] button on the control panel for about seven seconds, a message is displayed and the lock is released.

Anti-Theft Lock

As an anti-theft measure, the projector is equipped with a security slot compatible with the Microsaver Security System manufactured by Kensington.

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

☛ http://www.kensington.com/

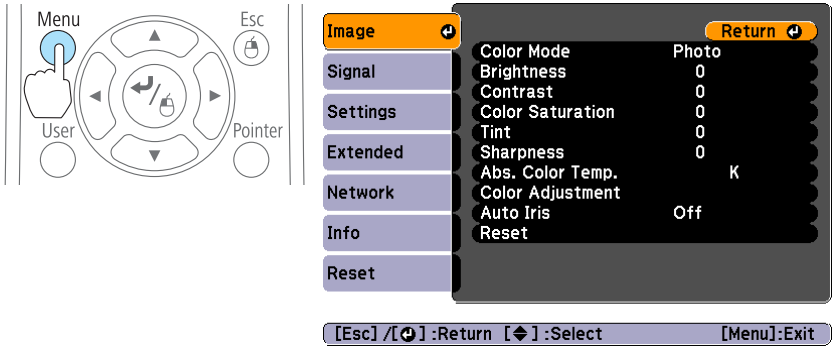
Configuration Menu

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

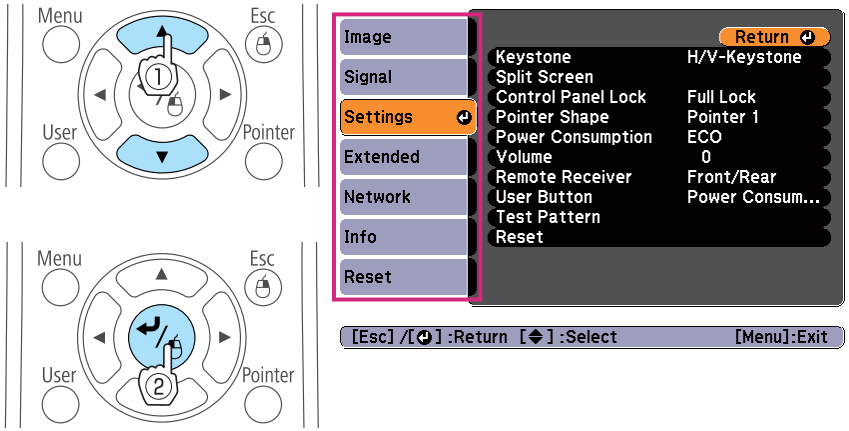
This section explains how to use the Configuration menu.

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.

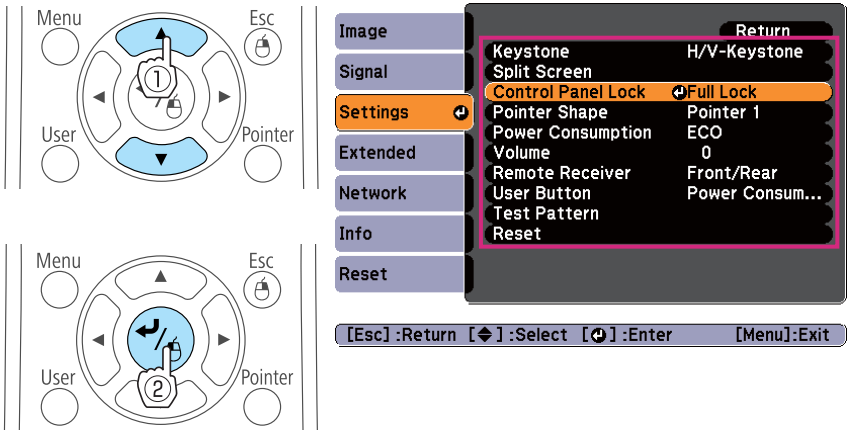
1 Display the Configuration menu screen.



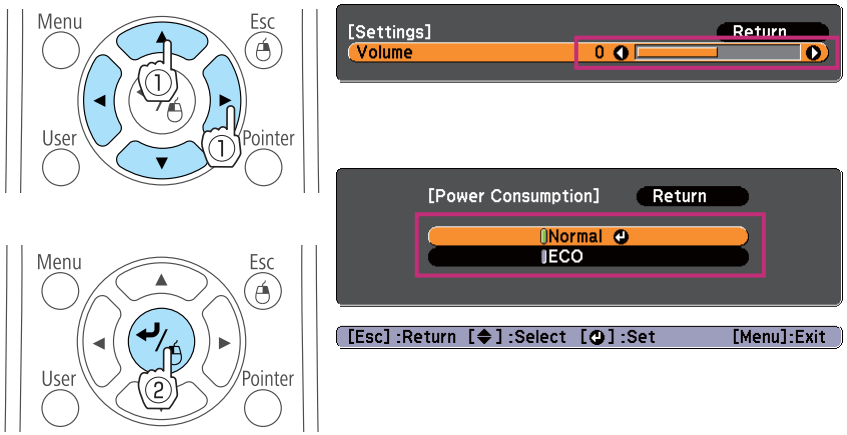
2 Select a top menu item.



3 Select a submenu item.



4 Change settings.



5 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.80	Color Mode	Dynamic, Presentation, Theatre, Photo, sRGB, Blackboard, Whiteboard, Customized, and DICOM SIM
	Brightness	-24 to 24
	Contrast	-24 to 24
	Color Saturation	-32 to 32
	Tint	-32 to 32
	Sharpness	-5 to 5
	Abs. Color Temp.	5000K to 10000K
	Color Adjustment	R: -16 to 16 G: -16 to 16 B: -16 to 16
	Auto Iris	On and Off
Signal menu ☛ p.81	Auto Setup	On and Off
	Resolution	Auto, Wide, and Normal
	Tracking	-
	Sync.	-
	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
	Video Signal	Auto, NTSC, NTSC4.43, PAL, M-PAL, N-PAL, PAL60, and SECAM
	Aspect	Normal, 4:3, 16:9, Full, Zoom, and Native
	Overscan	Auto, Off, 4%, and 8%
	Image processing	Fast, Fine
Settings menu ☛ p.82	Keystone	H/V-Keystone and Quick Corner
	Split Screen	-
	Control Panel Lock	Full Lock, Partial Lock, and Off
	Pointer Shape	Pointer 1, 2, and 3
	Power Consumption	Normal and ECO
	Volume	0 to 20
	Remote Receiver	Front/Rear, Front, Rear, and Off
	User Button	Power Consumption, Info, Progressive, Test Pattern, Multi-screen, and Resolution
	Test Pattern	-
Extended menu ☛ p.84	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, Sleep Mode, Sleep Mode Timer, Lens Cover Timer, and High Altitude Mode
	Standby Mode	Communication On and Communication Off
	USB Type B	USB Display and Link 21L

Top Menu Name	Submenu Name	Items or Setting Values
	Projector ID	Off, or 1 to 9
	Multi-screen	Adjustment Level, Brightness Correct., Color Correct. (G/R), and Color Correct. (B/Y)
	Language	15 or 35 languages*1
Info menu ☛ p.94	Lamp Hours	-
	Source	-
	Input Signal	-
	Resolution	-
	Video Signal	-
	Refresh Rate	-
	Sync Info	-
	Status	-
	Serial Number	-
	Event ID	-
Reset menu ☛ p.94	Reset All	-
	Reset Lamp Hours	-

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

Network menu (EB-1776W/EB-1771W/EB-1761W only)

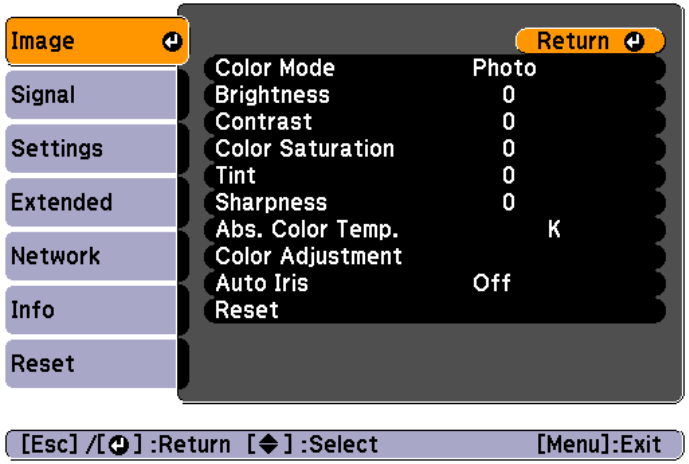
Top Menu Name	Submenu Name	Setting Values
Basic menu ☛ p.88	Projector Name	-
	PJLink Password	-
	Web Control Password	-
	Projector Keyword	On and Off
Wireless LAN menu	Wireless LAN Power	On and Off
☛ p.89	Connection Mode	Quick and Advanced
	Channel	1ch, 6ch, and 11ch
	Wireless LAN system	802.11b/g and 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 ☛ p.90	Security	No, WEP, WPA-PSK, and WPA2-PSK
	WEP Encryption	128Bit and 64Bit
	Format	ASCII and HEX
	Key ID	1, 2, 3, 4
	Encryption Key 1, Encryption Key 2, Encryption Key 3, and Encryption Key 4	-
	Authentication Type	Open and Shared
	Passphrase	-
Mail menu ☛ p.91	Mail Notification	On and Off
	SMTP Server	-
	Port Number	-
	Address 1 Setting, Address 2 Setting, and Address 3 Setting	-
Others menu ☛ p.92	SNMP	On and Off
	Trap IP Address 1 and Trap IP Address 2	-

Top Menu Name	Submenu Name	Setting Values
	AMX Device Discovery	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.

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.30



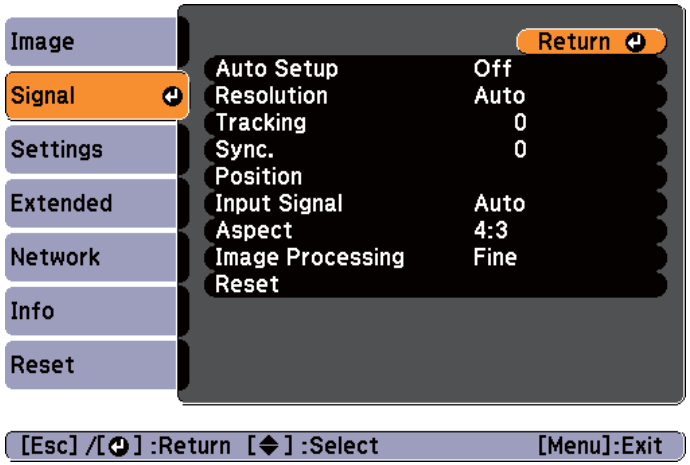
Submenu	Function
Color Mode	You can select the quality of the image to suit your surroundings. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.43
Brightness	You can adjust the image brightness.
Contrast	You can adjust the difference between light and dark in the images.
Color Saturation	You can adjust the color saturation for the images.
Tint	(Adjustment is only possible when NTSC signals are being input if you use composite video signals.) 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 sRGB.) You can adjust the overall tint of the image. You can adjust tints in 10 stages from 5000 K to 10000 K. The image is tinted blue when a high value is selected and tinted red when a low value is selected.
Color Adjustment	(This item cannot be selected if **Color Mode** is set to sRGB.) • When **Color Mode** is set to anything other than **Customized**: You can adjust the color strength for **Red, Green**, and **Blue** individually. • When **Color Mode** is set to **Customized**: You can adjust the **Hue**, **Saturation**, and **Brightness** for **R** (red), **G** (green), **B** (blue), **C** (cyan), **M** (magenta), and **Y** (yellow) individually.
Auto Iris	(This item can be set only if **Color Mode** is set to **Dynamic**, **Theatre**, or **Customized**.) Set to **On** to adjust the iris to obtain the optimum light for images being projected. The setting is stored for each Color Mode. ☛ "Setting Auto Iris" p.44
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. ☛ "Reset Menu" p.94

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.

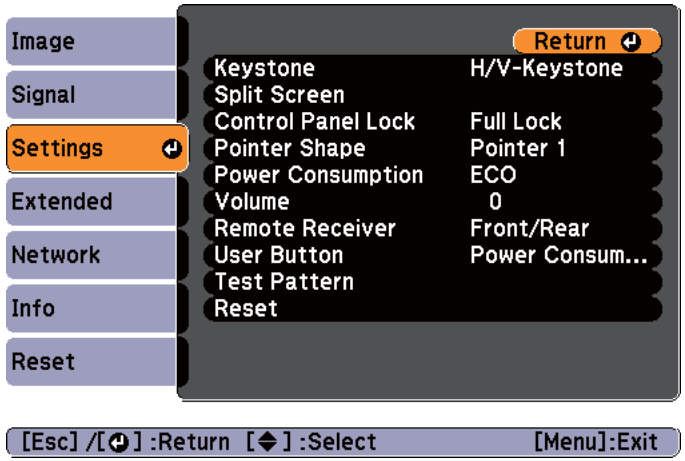
☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.30



Submenu	Function
Auto Setup	Set to **On** to automatically adjust the image 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.
Progressive	(This setting can only be adjusted when a component video or RGB video with an interlaced signal (480i/576i/1080i) is input. This cannot be set when a digital RGB signal is input.) Interlace (i) signal is converted to Progressive (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, when projecting an interlaced signal while **Progressive** is set to **Off**, or when a 480p, 576p, or 1080p signal is input while **Image Processing** is set to **Fast**.) 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.

Submenu	Function
Aspect	You can set the aspect ratio for projected images. ☛ "Changing the Aspect Ratio of the Projected Image" p.45
Overscan	(This cannot be set when a digital RGB signal is input.) 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 Processing	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**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.94

Settings Menu



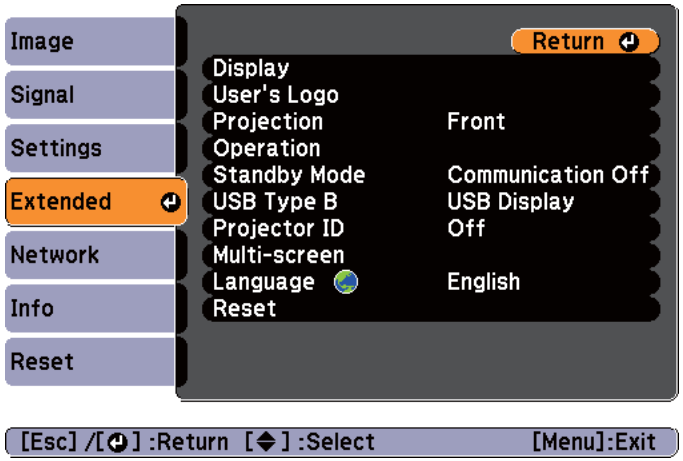
Submenu	Function

Keystone	You can correct keystone distortion.
	• When **H/V-Keystone** is selected:
	  • Correcting manually
	  Adjust **V-Keystone** and **H-Keystone** to correct horizontal and vertical keystone distortion.
	  • Correcting automatically
	  Set **Auto H/V-Keystone*** to **On**.
	  ☛ "Correcting automatically - Auto H/V-Keystone - (EB-1776W only)" p.37
	  * When using EB-1771W/EB-1761W/EB-1751 **Auto V-Keystone** is set to **On**.
	• When **Quick Corner** is selected:
	Select and correct the four corners of the projected image.
	☛ "Correcting manually - Quick Corner -" p.39

Submenu	Function
Split Screen (EB-1776W/ EB-1771W/ EB-1761W only)	You can split the screen into two screens. You can change the **Screen Size**, and select the **Source**, **Swap Screens**, **Audio Source**, and **Exit Split Screen**. ☛ "Projecting Two Images Simultaneously (Split Screen) (EB-1776W/EB-1771W/EB-1761W Only)" p.49
Control Panel Lock	You can use this to restrict operation of the projector's control panel. ☛ "Restricting Operation (Control Panel Lock)" p.73
Pointer Shape	You can select the shape of the pointer. Pointer 1: Pointer 2: Pointer 3: ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.64
Power Consumption	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, the power consumption is changed as follows, and fan rotation noise during projection is reduced. Electrical consumption: about 27% decrease
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 or the control panel for at least 15 seconds to reset the setting to its default value.

Submenu	Function
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**, **Test Pattern**, **Multi-screen**, and **Resolution**
Test Pattern	You can display a test pattern to adjust the projection without connecting other equipment when you set up the projector. While the test pattern is displayed, keystone correction, zoom, and focus adjustments can be performed. To cancel the test pattern, press the [Esc] button on the remote control or the control panel. **Attention** If a test 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 **User Button**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.94

Extended Menu



Submenu	Function
Display	You can make settings related to the projector's display. **Messages**: When set to **Off**, the following items will not be 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.69

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.21
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. **Sleep Mode**: When set to **On**, this automatically stops projection when no image signal is being input and no operations are carried out. **Sleep Mode Timer**: 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 A/V mute slide is closed. The default value is **On**. **High Altitude Mode**: Set to **Mode1** or **Mode2** when using the projector above an altitude of 1500 m. If a high temperature warning occurs when **Mode1** is selected, select **Mode2**. However, the brightness may decrease a little if **Power Consumption** is set to **Normal** in **Mode2**.

Submenu	Function
Standby Mode	You can use network monitoring and control functions while the projector is in standby mode when this is set to **Communication On**. (EB-1776W/EB-1771W/EB-1761W only) You can monitor and control the status of the projector over the network by using SNMP, or by using the EasyMP Monitor software. ☛ "Useful Software" p.120
USB Type B	Set to **USB Display** when the projector and a computer are connected by a USB cable and computer images and audio are projected. ☛ "Projecting with USB Display" p.31 When set to **Link21L**, **ESC/VP21** commands are enabled. ☛ "ESC/VP21 Commands" p.126
Projector ID	Set the ID to a number between 1 and 9. **Off** indicates that no ID is set. ☛ "Setting the Projector ID" p.66
Multi-screen	You can adjust the hue and brightness of each projected image when multiple projectors are lined up and projecting. **Adjustment Level**: You can adjust from black to white in five stages called Level 1 to 5, and in each of these 5 levels, you can adjust Brightness Correct. and Color Correct. **Brightness Correct.**: You can correct the difference in the brightness of each projector. **Color Correct. (G/R)** / **Color Correct. (B/Y)**: You can correct the difference in the color of each projector. ☛ "Correcting the Color Difference when Projecting from Multiple Projectors" p.65
Language	You can set the language for messages and menus.

Submenu	Function
Reset	You can reset the adjustment values for **Display***1 and **Operation***2 from the **Extended** menu to their default settings. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.94

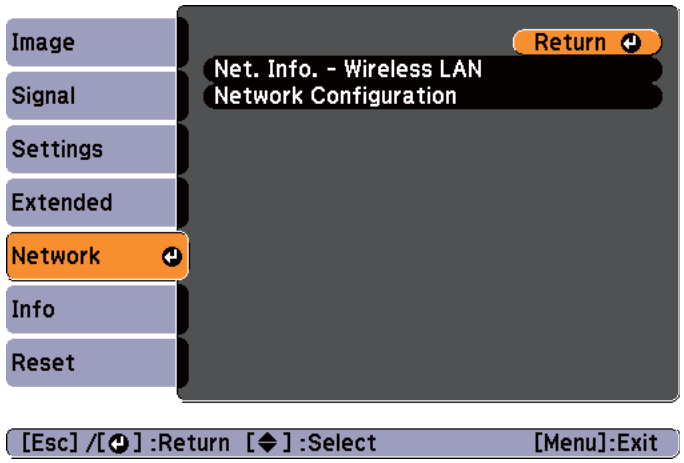
*1 When **User's Logo Protect** is set to **On** in **Password Protect**, settings related to user's logo cannot be changed. You can make changes after setting **User's Logo Protect** to **Off**.
☛ "Managing Users (Password Protect)" p.71

*2 Except for High Altitude Mode.

Network Menu (EB-1776W/EB-1771W/EB-1761W Only)

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.71



Submenu	Function
Net. Info. - Wireless LAN	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*
Network Configuration	The following menus are available for setting Network items. **Basic**, **Wireless LAN**, **Security**, **Mail**, **Others**, **Reset**, and **Setup 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*

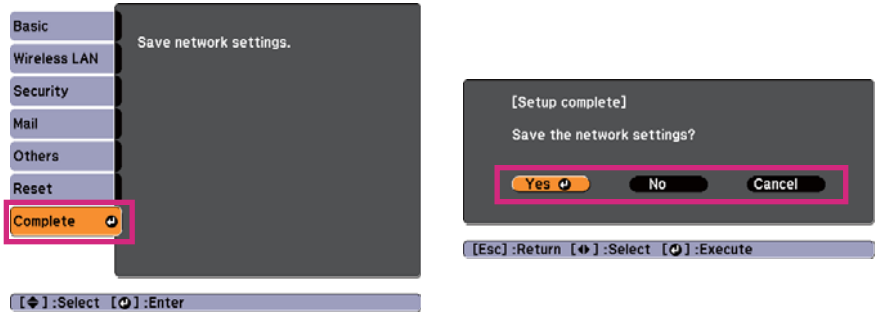
- By using a Web browser of a computer connected to the projector on a network, you can set functions and control the projector. This function is called Web Control. You can easily enter text using a keyboard to make settings for Web Control such as Security settings.
  ☛ "Changing Settings Using a Web Browser (Web Control)" p.123
- 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.

http://www.pureglare.com.au



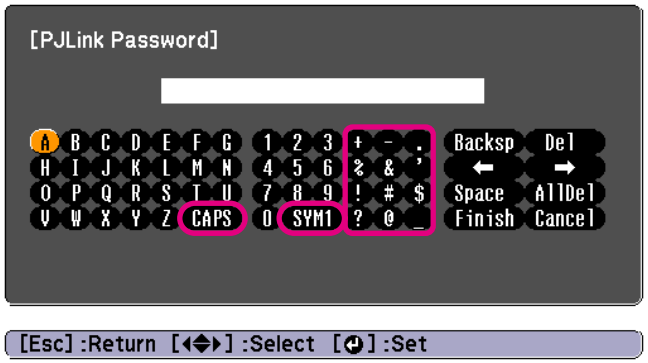
Yes: Saves the settings and exits the Network menu.

No: Does not save the settings and exits the Network menu.

Cancel: Continues displaying the Network menu.

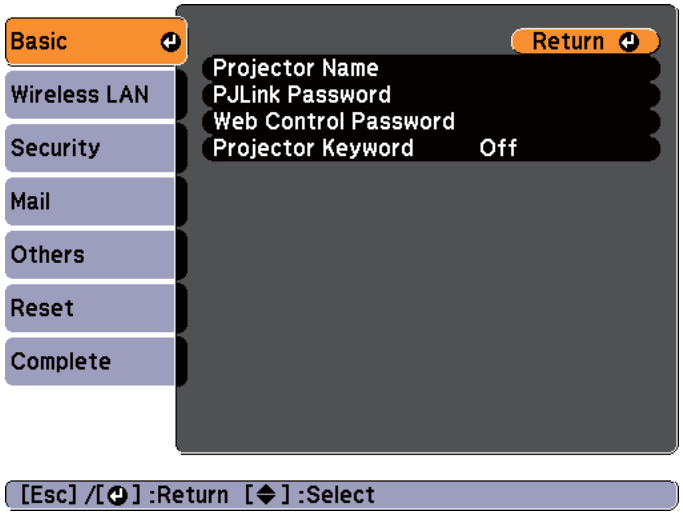
Soft keyboard operations

The Network menu contains items that require input of alphanumerics during setup. In this case, the following software keyboard is displayed. Use the [▲], [▼], [◀], and [▶] buttons on the remote control or the [▽], [△], [◁], and [▷] buttons on the control panel to move the cursor to the desired key, and then press the [↵] button to enter the alphanumeric character. Enter figures by holding down the [Num] button on the remote control, and pressing the numeric buttons. After inputting, press **Finish** on the keyboard to confirm your input. Press **Cancel** on the keyboard to cancel your input.



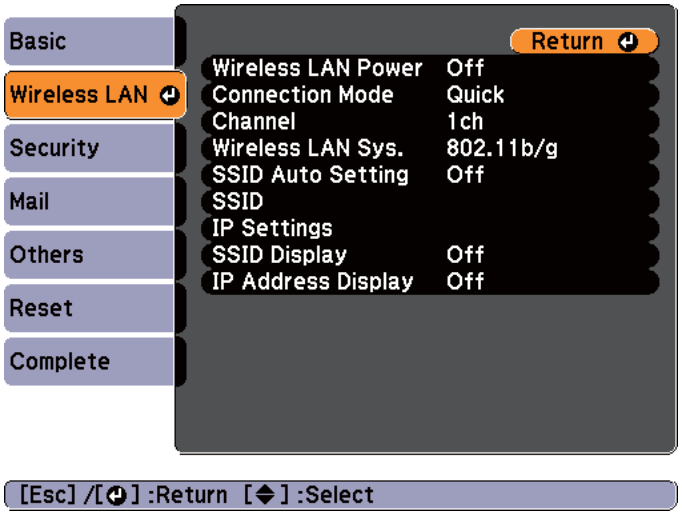
- Each time the **CAPS** key is selected and the [↵] button is pressed, it sets and changes between upper case and lower case letters.
- Each time the **SYM1/2** key is selected and the [↵] button is pressed, it sets and changes the symbol keys for the section enclosed by the frame.

Basic menu



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	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. ☛ "Changing Settings Using a Web Browser (Web Control)" p.123
Projector Keyword	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**. ☛ *EasyMP Network Projection Operation Guide*

Wireless LAN menu

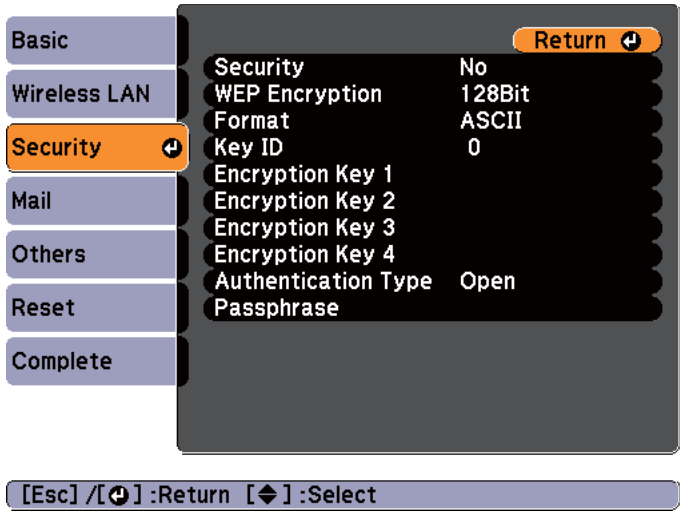


Submenu	Function
Wireless LAN Power	Turn **On** when connecting the projector to the computer over wireless LAN. If you do not want to connect via wireless LAN, turn it **Off** to prevent unauthorized access by others. The default value is **On**.
Connection Mode	Set the connection mode to use when connecting the projector and a computer via a wireless LAN. 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 Ad hoc mode. If you select **Advanced**, the connection is established in infrastructure mode through the access point installed.
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**.
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 Setting	If **Connection Mode** is set to **Quick**, when you set this to **On**, you can search for the projector more quickly from among multiple projectors. SSID is set automatically. When connecting to multiple projectors from 1 computer in Quick mode, set this to **Off**, and set the same SSID in all the projectors that will connect.
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.

Submenu	Function
IP Settings	(This item can only be set if **Connection Mode** is set to **Advanced**.) 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 IP address 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. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) **Subnet Mask**: You can input the subnet mask 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 **Gateway Address**: You can input the IP address for the gateway for the projector. You can enter 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)
SSID Display	To prevent the SSID from being displayed on the LAN Standby screen, set this to **Off**.
IP Address Display	To prevent the IP address from being displayed on the LAN Standby screen, set this to **Off**.

Security menu

Only available when the supplied or optional Wireless LAN unit is installed.



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 Type	Set the WEP authentication type. **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 the passphrase is entered and the [↵] button is pressed, the value is set and displayed as an asterisk (*). 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. It is recommended to change the passphrase periodically for the purpose of security. If the network settings are initialized, it returns to the initial passphrase. ☛ "Reset menu" p.93 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.123 In Quick mode, the initial passphrase is set.

Type of security

When the supplied or optional wireless LAN unit is installed and being used in Advanced connection mode, it is strongly recommended that you set security. Select one of the following security methods.

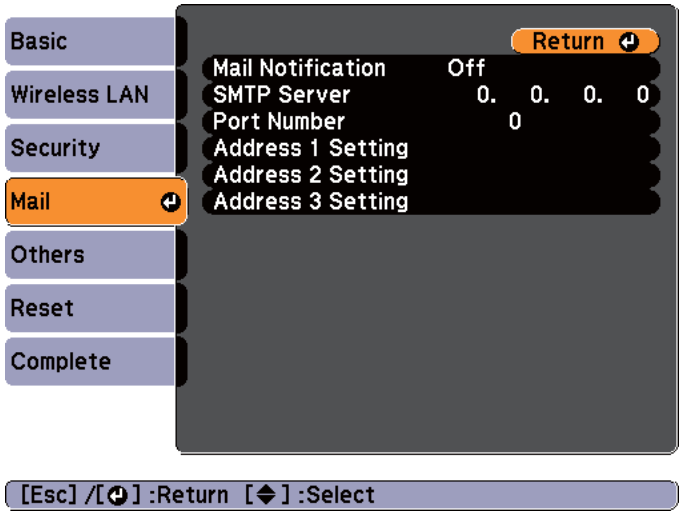
- **WEP**
  Data is encrypted with a code key (WEP key). This mechanism prevents communication unless the encrypted keys for the access point and the projector match.
- **WPA**
  This is an encryption standard that improves security which is a weak point of WEP. Although there are multiple kinds of WPA 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.

Mail menu

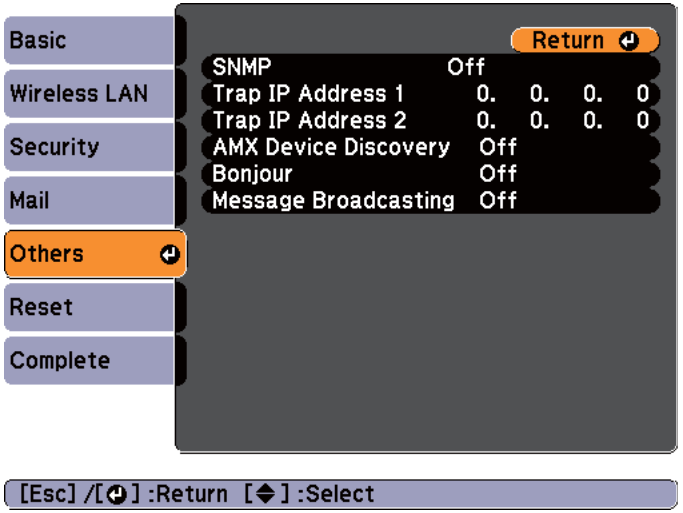
When this is set, you receive an email notification if a problem or warning occurs in the projector.

☛ "Using the Mail Notification Function to Report Problems" p.125



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 IP address 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)
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 Setting/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

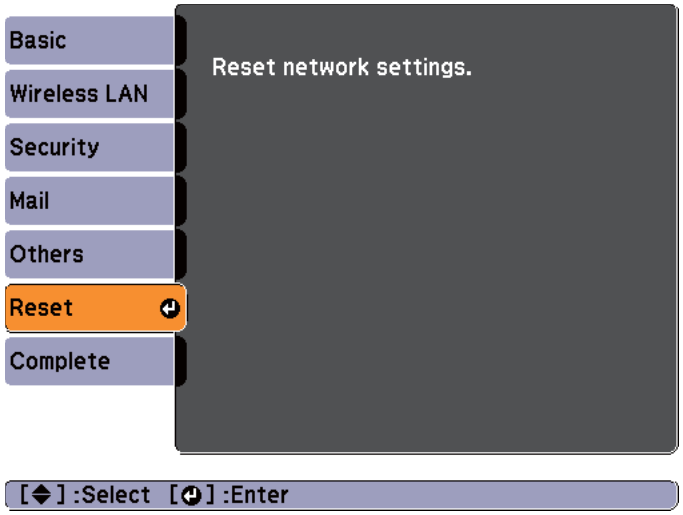


Submenu	Function
SNMP	Set to **On** to monitor the projector using SNMP. To monitor the projector, you need to install the SNMP manager program on your computer. SNMP should be managed by a network administrator. The default value is **Off**.

Submenu	Function
Trap IP Address 1/Trap IP Address 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 Discovery	When the projector is connected to a network, set this to **On** to allow the projector to be detected by AMX Device Discovery. Set this to **Off** if you are not connected to an environment controlled by a controller from AMX or AMX Device Discovery.
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 Broadcasting	You can switch the EPSON Message Broadcasting function to enable or disable.

Reset menu

Resets all of the network settings.

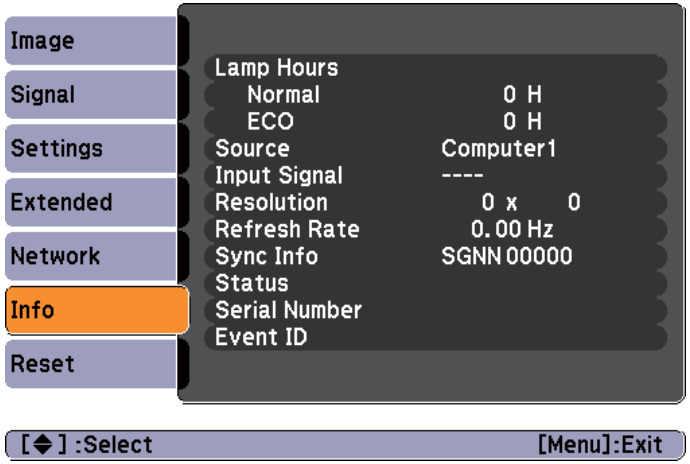


Submenu	Function
Reset network settings.	To reset all of the Network settings, select **Yes**.

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.

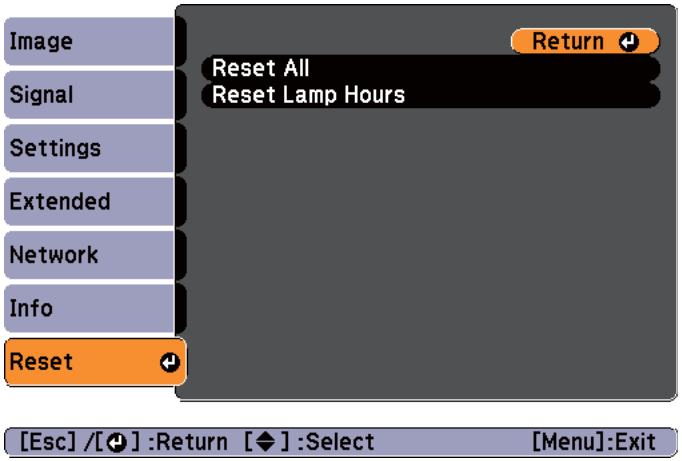
☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.30



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.
Video Signal	You can display the settings for **Video Signal** in the **Signal** menu.
Refresh Rate	You can display the refresh rate.
Sync Info	You can display the image signal information. This information may be needed if service is required.
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.
Event ID (EB-1776W/ EB-1771W/ EB-1761W only)	Displays the application error log. ☛ "About Event ID (EB-1776W/EB-1771W/EB-1761W Only)" p.128

* 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



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**, all items for **Network** menus*, **Lamp Hours**, **Language**, **Password**, **User Button**, and **Multi-screen**.
Reset Lamp Hours	Clears the cumulative lamp hours use time. Reset when you replace the lamp.

* (EB-1776W/EB-1771W/EB-1761W only)

Troubleshooting

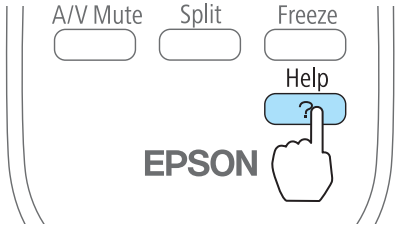
This chapter explains how to identify problems and what to do if a problem is found.

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.

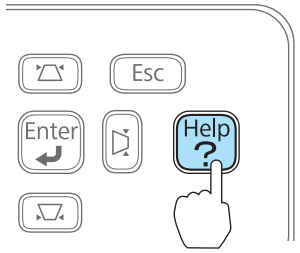
1 Press the [Help] button.

The Help screen is displayed.

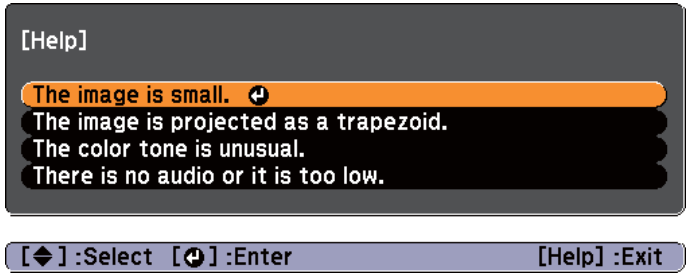
Using the remote control



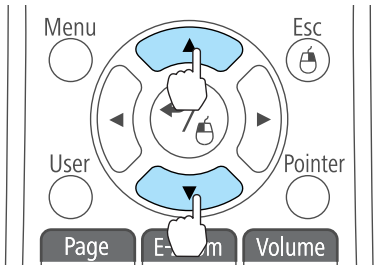
Using the control panel



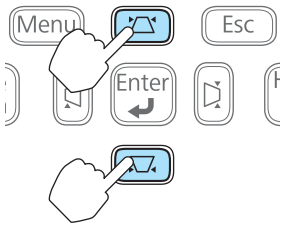
2 Select a menu item.



Using the remote control

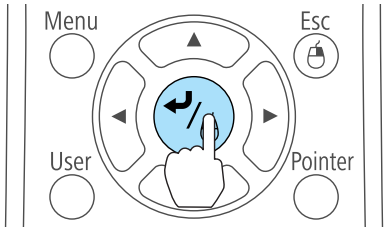


Using the control panel

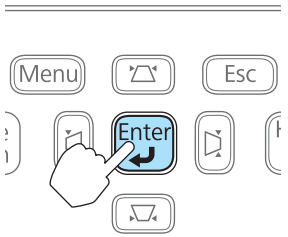


3 Confirm the selection.

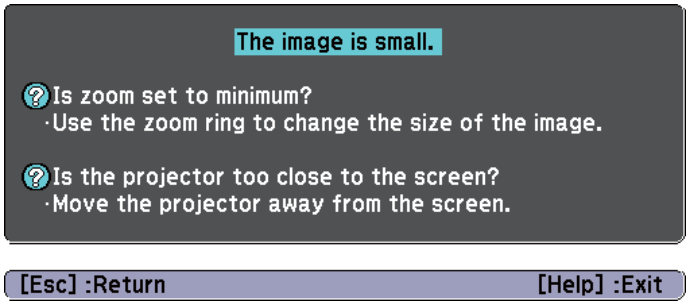
Using the remote control



Using the control panel



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



See the following if the Help function does not provide a solution to the problem.

☛ "Problem Solving" p.98

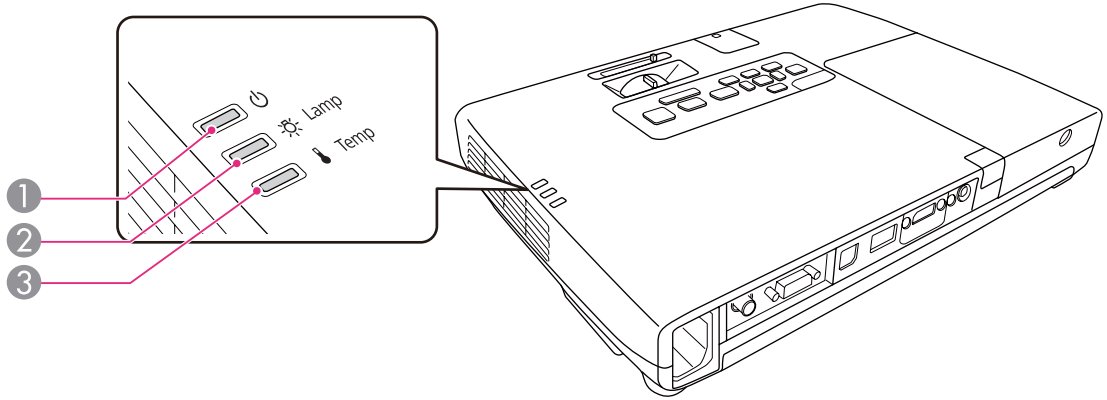
If you are having a problem with the projector, first check the projector's indicators and refer to "Reading the Indicators" below.

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

☛ "When the Indicators Provide No Help" p.101

Reading the Indicators

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



❶ Power indicator — Indicates the operating status.

- Standby condition
  When the [⏻] button is pressed in this condition, projection starts.
- Preparing for network monitoring or cool down in progress
  All buttons are disabled while the indicator is flashing.
- Warming up
  Warm-up time is about 30 seconds. After warm-up is complete, the indicator stops flashing.
  The [⏻] button is disabled during warm-up.
- Projecting

❷ Lamp indicator — Indicates the projection lamp status.

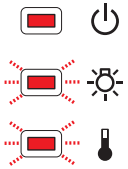
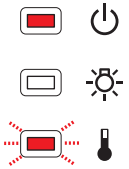
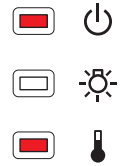
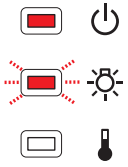
❸ Temp indicator — Indicates the internal temperature status.

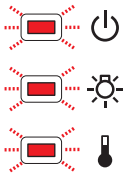
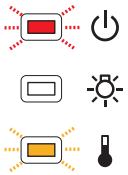
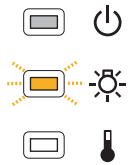
Refer to the following table to see what the indicators mean and how to remedy problems that they indicate.

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 ⏻ indicator remains lit for a short period, but this is not a fault.

■ : Lit ■ : Flashing □ : Off ■ : Varies according to the projector status

Status	Cause	Remedy or Status
	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. ☛ *Epson Projector Contact List*
	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. ☛ *Epson Projector Contact List*
	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.112, "Replacing the Air Filter" p.117 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 **Mode1** or **Mode2**. ☛ "Extended Menu" p.84
	Lamp Error Lamp Failure	Check the following two points. • Take out the lamp and check if it is cracked. ☛ "Replacing the Lamp" p.114 • Clean the air filter. ☛ "Cleaning the Air Filter" p.112

Status	Cause	Remedy or Status
		If the lamp is not cracked: Reinstall the lamp and turn on the power. **If the error continues**: Replace the lamp with a new one and then turn on the power. **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. ☛ *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.) ☛ *Epson Projector Contact List*
		When using at an altitude of 1500 m or more, set **High Altitude Mode** to **Mode1** or **Mode2**. ☛ "Extended Menu" p.84
	Auto Iris Error Power Err. (Ballast)	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*
	High Temp Warning	(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.112, "Replacing the Air Filter" p.117
	Replace Lamp	Replace it with a new lamp. ☛ "Replacing the Lamp" p.114 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.101
- 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*

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.102
• **Moving images are not displayed** Moving images being projected from a computer appear black and nothing is projected.	☛p.103
• **Projection stops automatically**	☛p.103
• **The message "Not supported" is displayed**	☛p.103
• **The message "No Signal" is displayed**	☛p.103
• **Interference or distortion appear in images**	☛p.105
• **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.106
• **Image colors are not right** The whole image appears purplish or greenish, images are black & white, or colors appear dull.	☛p.106
• **Images appear dark**	☛p.107

Problems when projection starts

• **The projector does not turn on**	☛p.108

Other Problems

• **No sound can be heard or the sound is faint**	☛p.108
• **The remote control does not work**	☛p.109
• **I want to change the language for messages and menus**	☛p.109
• **Email is not received even if a problem occurs in the projector (EB-1776W/EB-1771W/EB-1761W only)**	☛p.110

http://www.pureglare.com.au

Problems Relating to Images

No images appear

Check	Remedy
Did you press the [⏻] button?	Press the [⏻] 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.29 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.60
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.94 When using USB Display, set **USB Type B** to **USB Display**. ☛ **Extended** - **USB Type B** p.84
Is the image to be projected completely black? (Only when projecting computer images)	Some input images, such as screen savers, may be completely black.
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.81
Is the USB cable connected correctly? (Only when projecting USB Display)	Check that the USB cable is connected correctly. Reconnect it if it is not connected or not connected properly.
Is Windows Media Center displayed in full screen? (Only when projecting using USB Display or network connection)	When Windows Media Center is displayed at full screen, you cannot project using USB Display or network connection. Reduce the screen size.
Is an application using the Windows DirectX function displayed? (Only when projecting using USB Display or network connection)	Applications using the Windows DirectX function may not display images correctly.
When projecting in split screen mode, is one side or both sides blue? (Only when projecting on a split screen)	Check if a signal is being input, or if the input source combination is correct. Reconnect the cable if it is not connected or not connected properly. If the input source combination is not correct, change to a supported combination. ☛ "Input sources for split screen projection" p.49

http://www.pureglare.com.au

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.

Projection stops automatically

Check	Remedy
Is **Sleep Mode** set to **On**?	Press the [⏻] button to turn the power on. If you do not want to use Sleep Mode, change the setting to **Off**. ☛ **Extended** - **Operation** - **Sleep Mode** p.84

The message "Not supported" is displayed

Check	Remedy
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.81
Do the image signal resolution and the refresh rate correspond to the mode? (Only when projecting computer images)	Refer to the computer's documentation for how to change the image signal resolution and the refresh rate output from the computer. ☛ "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.29

http://www.pureglare.com.au

Check	Remedy
Is the correct port selected?	Change the image by pressing the [Source Search] button on the remote control or the control panel. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.30
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.29 ☛ Computer's documentation

Images are fuzzy, out of focus, or distorted

Check	Remedy
Is the distance between the projector and the screen over 2.5 m? (For EB-1776W)	For the projected image to be automatically adjusted by Auto H/V-Keystone or Screen Fit, the projector should be approximately 1.0 to 2.5 m away from the screen. If the projector must be placed further away than this, manually adjust the projected image.
Is **Auto H/V-Keystone** set to **Off**? (EB-1776W only)	Setting it to **On** enables Auto H/V-Keystone. ☛ **Settings** - **Keystone** - **Auto H/V-Keystone** p.82 If you are using the projector with this setting off, manually adjust the projected image. ☛ "Correcting manually - manual H/V-Keystone -" p.38
Is the focus adjusted correctly?	Adjust the focus using the [Focus] buttons (EB-1776W only) or Focus ring (EB-1771W/EB-1761W/EB-1751 only). ☛ "Correcting the Focus" p.42
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.130
Is the keystone adjustment value too large?	Lower the projection angle to reduce the amount of keystone correction. ☛ "Adjusting the Image Position" p.41

http://www.pureglare.com.au

Check	Remedy
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? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.81
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "Connecting Equipment" p.24
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? (Only when projecting computer images)	Set the computer so that the signals being output are compatible with the projector. ☛ "Supported Monitor Displays" p.133 ☛ Computer's documentation
Are the Sync. and Tracking settings adjusted correctly? (Only when projecting computer images)	Press the [Auto] button on the remote control or the [↵] button on the control panel to perform automatic adjustment. 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.81
Is **Transfer layered window** selected? (Only when projecting USB Display)	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson USB Display Vx.xx Settings**, and then clear the **Transfer layered window** checkbox.
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 the **Make the movement of the mouse pointer smooth.** checkbox. (This is not available for Windows 2000.) For Windows Vista/7, Windows Aero is disabled when this is selected.

http://www.pureglare.com.au

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? (Only when projecting computer images)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Resolution** p.81
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.63
Is the image position adjusted correctly?	Press the [Auto] button on the remote control or the [↵] 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.81
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. ☛ Computer video driver documentation
Is the correct resolution selected? (Only when projecting computer images)	Set the computer so that the signals being output are compatible with the projector. ☛ "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**, or **Rear/Ceiling**. ☛ **Extended** - **Projection** p.84 ☛ "Installation Methods" p.21

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.81 • When the image is from a device connected to the Video port ☛ **Signal** - **Video Signal** p.81

http://www.pureglare.com.au

Check	Remedy
Is the image brightness adjusted correctly?	Adjust the **Brightness** setting from the Configuration menu. ☛ **Image** - **Brightness** p.80
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.24
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.80
Is the color adjustment set correctly?	Adjust the **Color Adjustment** setting from the Configuration menu. ☛ **Image** - **Color Adjustment** p.80
Are the color saturation and tint adjusted correctly? (Only when projecting images from a video source)	Adjust the **Color Saturation** and **Tint** settings from the Configuration menu. ☛ **Image** - **Color Saturation**, **Tint** p.80

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.80 ☛ **Settings** - **Power Consumption** p.82
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.80
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.114

Problems when Projection Starts

The projector does not turn on

Check	Remedy
Did you press the [⏻] button?	Press the [⏻] button to turn the power on.
Are the indicators switched off?	The power cord is not connected correctly or power is not being supplied. Disconnect and then reconnect the power cord. ☛ "From Installation to Projection" p.29 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. ☛ *Epson Projector Contact List*
Is the **Control Panel Lock** set to **Full Lock**?	Press the [⏻] 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.82
Is the correct setting for the remote receiver selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.82

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 minimum?	Adjust the volume so that sound can be heard. ☛ **Settings** - **Volume** p.82 ☛ "Adjusting the Volume" p.42

http://www.pureglare.com.au

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.60
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 USB Display)	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson USB Display Vx.xx Settings**, and then select **Output audio from the projector**.

The remote control does not work

Check	Remedy
Is the remote control light-emitting area pointing towards the remote receiver on the projector during operation?	Point the remote control towards the remote receiver. ☛ "Remote control operating range" p.19
Is the remote control too far from the projector?	The operating range for the remote control is about 6 m. ☛ "Remote control operating range" p.19
Is direct sunlight or strong light from fluorescent lamps shining onto the remote receiver?	Set the projector up in a location where strong light does not shine onto the remote receiver. Or set the remote receiver to **Off** from **Remote Receiver** in the Configuration menu. ☛ **Settings** - **Remote Receiver** p.82
Is the correct setting for the **Remote Receiver** selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.82
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.18
Has the Projector ID for the projector you want to operate been set? (When using multi-screen adjustment)	While holding the [ID] button, press the number button that matches the ID of the projector you want to operate. ☛ "Setting the Projector ID" p.66

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.84

http://www.pureglare.com.au

Email is not received even if a problem occurs in the projector (EB-1776W/EB-1771W/EB-1761W only)

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. ☛ **Extended** - **Standby Mode** p.84
Did a fatal abnormality occur and the projector come to a sudden stop?	If the abnormal state continues, contact your local dealer or the nearest address provided in the Epson Projector Contact 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. ☛"Mail menu" p.91

Image file names are not displayed correctly in Slideshow

Check	Remedy
Is the file name too long?	The file name can be up to 8 characters long. For file names longer than this, the middle of the name is omitted to shorten the name to 8 characters.
Are there any 2-byte characters in the file name?	Only alphanumeric characters and symbols can be used in file names. Any other characters are replaced with a question mark (?).

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 default password is "admin".

http://www.pureglare.com.au

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.

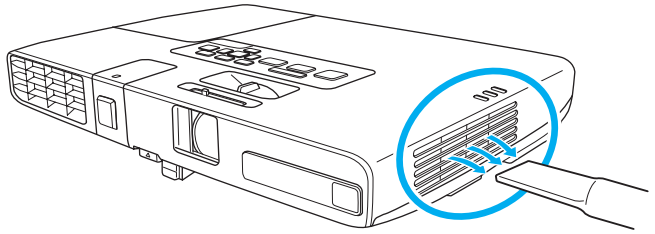
Cleaning the Air Filter

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.



- 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.117
- 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.

http://www.pureglare.com.au

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

Replacing the Lamp

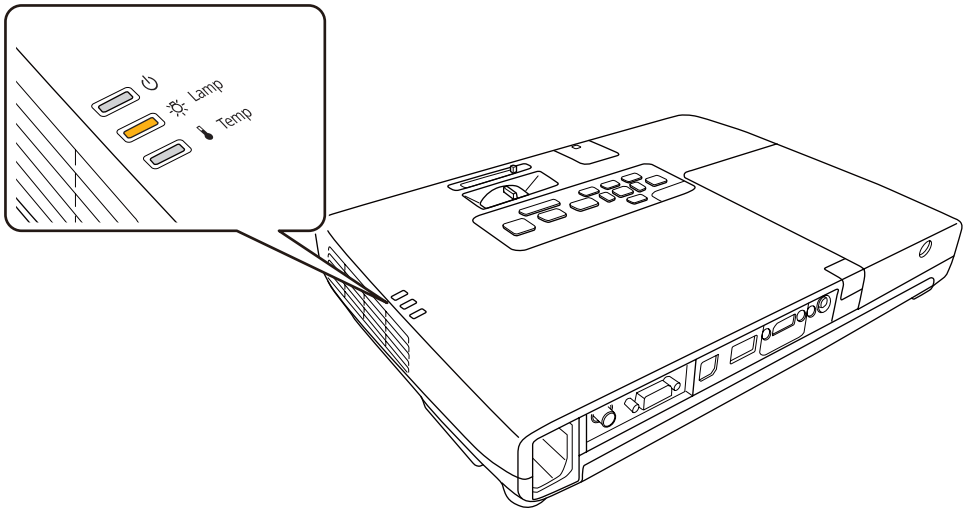
Lamp replacement period

It is time to replace the lamp when:

- The following message is displayed.
  "It is time to replace your lamp. Please contact your Epson projector reseller or visit www.epson.com to purchase."

The message is displayed for 30 seconds.

- The lamp indicator flashes 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.
  Lamp operating life: about 3900 hours
- 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.

http://www.pureglare.com.au

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.

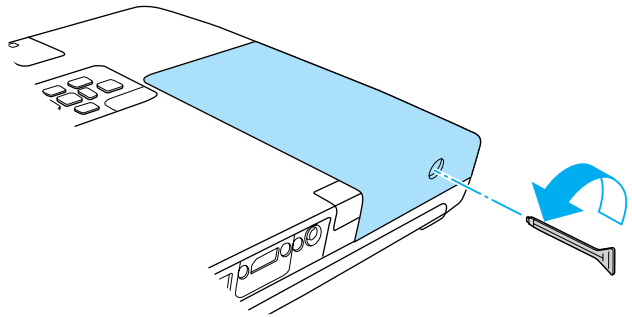
Caution

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.

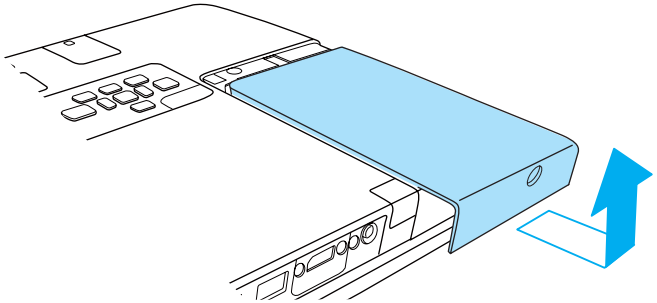
1 After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cord.

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

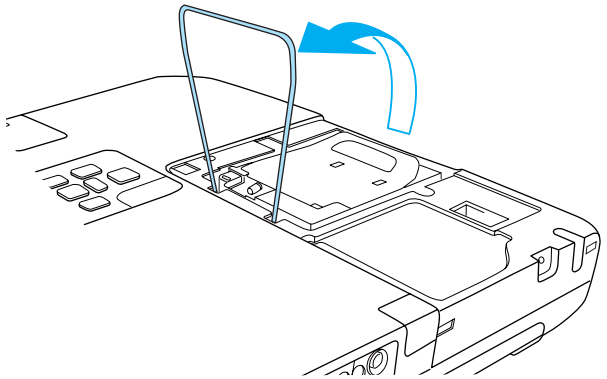
Loosen the lamp cover fixing screw with the screwdriver supplied with the new lamp unit or a cross-head screwdriver.



Then slide the lamp cover straight forward and lift it to remove.



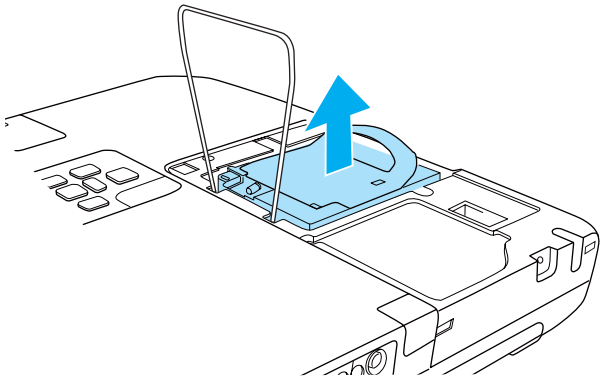
3 Raise the lamp fixing spring.



4 Raise the handle and take out the old lamp.

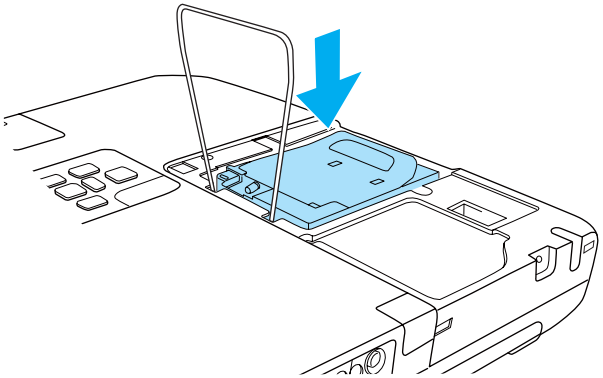
If the lamp is cracked, contact your local dealer or the nearest address provided in the Epson Projector Contact List.

☛ *Epson Projector Contact List*

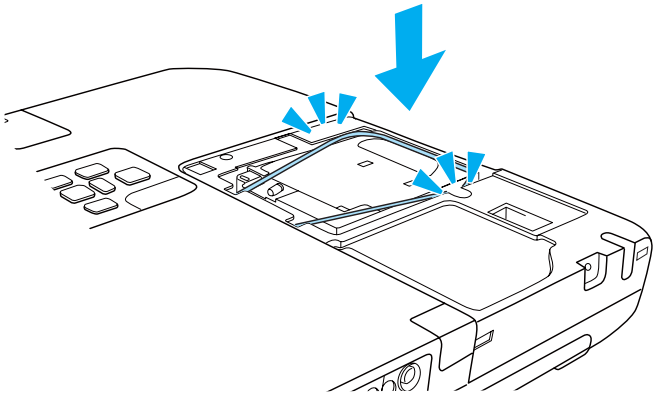


5 Install the new lamp.

Insert the new lamp along the guide rails in the correct direction so that it fits, and push it firmly into place. Press down on the part marked PUSH to fix the lamp in place.

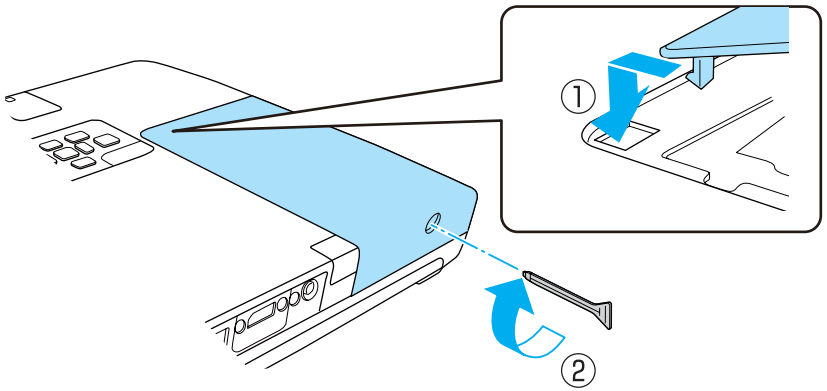


6 Lower the lamp fixing spring, and press down on the left and right until it clicks into place.



7 Replace the lamp cover.

Insert the hook as shown in the illustration below, and attach the cover. Tighten the lamp cover fixing screw.



Attention

- Make sure you install the lamp securely. If the lamp cover is removed, the power turns off automatically as a safety precaution. If the lamp or the lamp cover is not installed correctly, the power does 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 Configuration menu.

☛ "Reset Menu" p.94

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.

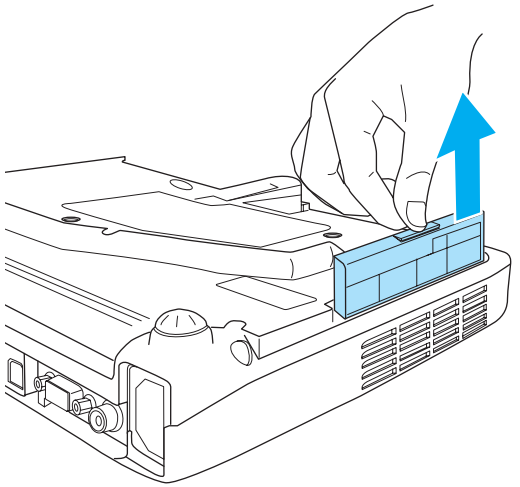
How to replace the air filter

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

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

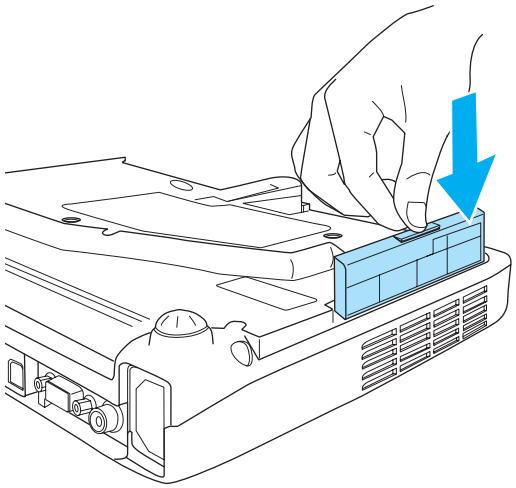
2 Remove the air filter.

Grip the tab in the center of the air filter, and pull it straight out.



3 Install the new air filter.

Push in the air filter until it clicks into place.



Dispose of used air filters properly in accordance with your local regulations.
Material of the frame part: Polyphenylene ether and polystyrene resin
Material of the filter part: Polyurethane foam

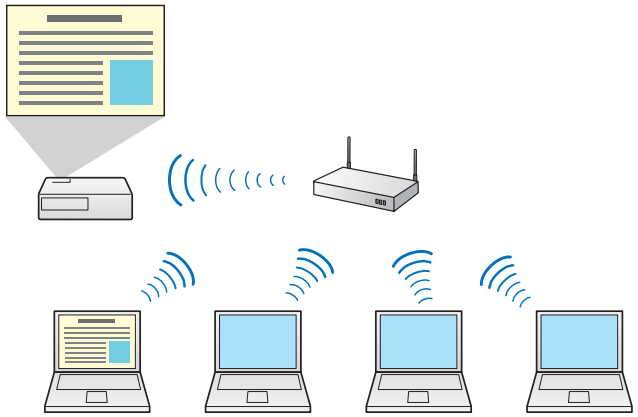
http://www.pureglare.com.au

Appendix

EasyMP Network Projection (EB-1776W/EB-1771W/EB-1761W only)

By using the supplied EasyMP Network Projection, you can project your computer screen from the projector via a network. 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 via a network. You can also output the computer's audio from the projector.

This projector only supports network projection using a wireless LAN connection.



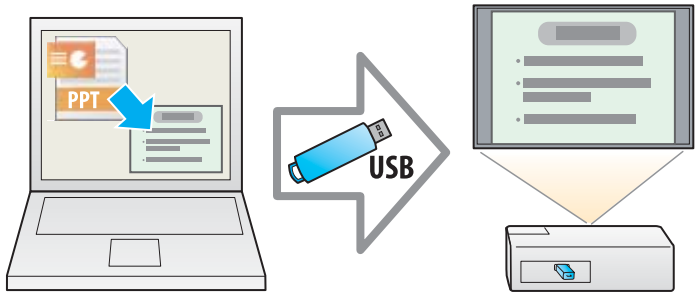
See the following for more details.

☛ *EasyMP Network Projection Operation Guide*

EasyMP Slide Converter

By using the supplied EasyMP Slide Converter, you can convert PowerPoint files to scenarios that can be played directly from the projector.

Save the converted scenario to a USB storage device. When the USB storage device is connected to the projector, Slideshow starts.



See the following for more details.

☛ *EasyMP Slide Converter Operation Guide*

☛ "Slideshow operating methods" p.53

EasyMP Monitor (EB-1776W/EB-1771W/EB-1761W only)

By using EasyMP Monitor, you can check the status of multiple Epson projectors on the network, and you can control them from your computer.

You can download EasyMP Monitor from the following Web site.

http://www.epson.com

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: February 2012. Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

Optional Accessories

50" portable screen ELPSC32
A compact screen that can be carried easily. (aspect ratio 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" portable screen ELPSC30
64" portable screen ELPSC31
Portable magnetic screens. (aspect ratio 4:3)

Multi-aspect screen ELPSC26
A portable multi-aspect screen.

Computer cable ELPKC02
(1.8 m - for mini D-Sub15-pin/mini D-Sub 15pin)
This is the same as the computer cable supplied with the projector.

Computer cable ELPKC09
(3 m - for mini D-Sub15-pin/mini D-Sub 15pin)
Computer cable ELPKC10
(20 m - for mini D-Sub15-pin/mini D-Sub 15pin)
Use one of these longer cables if the computer cable supplied with the projector is too short.

Component video cable ELPKC19
(3 m - for mini D-Sub 15-pin/RCA male×3)
Use to connect a component video source.

Interactive unit ELPIU01
Use when operating the computer screen on the projection surface.

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

Wireless LAN unit ELPAP07 (EB-1771W/EB-1761W only)
Use when connecting the projector to a computer wirelessly and projecting.

Quick Wireless Connection USB Key ELPAP09 (EB-1776W/ EB-1771W/EB-1761W only)
Use when you want to quickly establish one-to-one connection between the projector and a computer with Windows installed.

Ceiling pipe (450 mm)* ELPFP13
Ceiling pipe (700 mm)* ELPFP14
Use when installing the projector on a high ceiling.

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

Attachment plate* ELPPT01
Use when attaching the ceiling mount to the projector.

* 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*

http://www.pureglare.com.au

Consumables

Lamp unit ELPLP65 Use as a replacement for used lamps.
Air filter ELPAF31 Use as a replacement for used air filters.

Changing Settings Using a Web Browser (Web Control)

By using the 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 6.0 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).

☛ **Extended** - **Standby Mode** p.84

Projector setup

In the 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 - Test Pattern
- Settings Menu - User Button
- Extended Menu - User's Logo
- Extended Menu - Language
- Extended Menu - Operation - High Altitude Mode
- Extended Menu - Operation - Lens Cover Timer
- 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.75

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 the 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 default password is "**admin**".

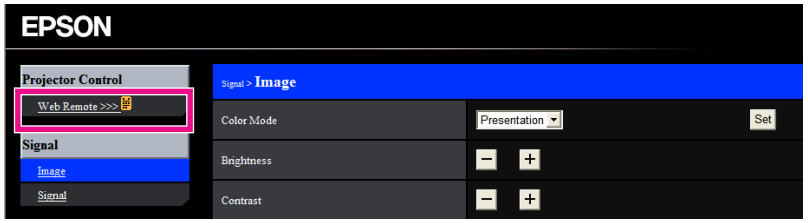
http://www.pureglare.com.au

- Enter the user ID even if the password setting is disabled. You cannot change the user ID.
- You can change the password in Network menu from the Configuration menu.
  ☛ **Network - Basic - Web Control Password** p.88

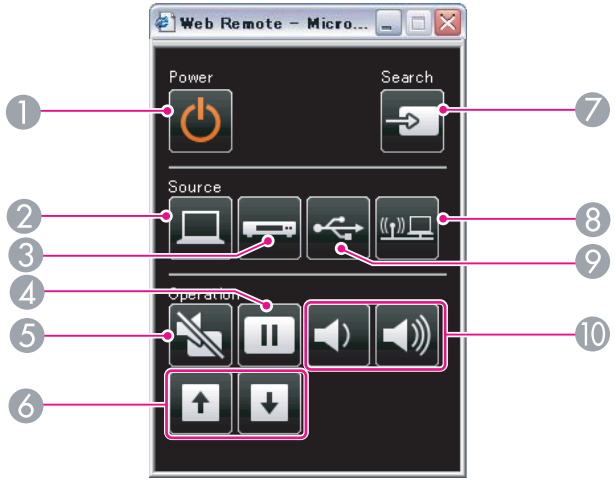
Displaying the Web Remote screen

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

1. Display the Web Control screen.
2. Click **Web Remote**.



3. The Web Remote screen is displayed.



	Name	Function
1	**[⏻] button**	Turns the projector power on or off. ☛ "From Installation to Projection" p.29
2	**[Computer] button**	Changes to images from the Computer port.
3	**[Video] button**	Each time the button is pressed, the image displayed changes between the Video input port and HDMI input port.
4	**[Freeze] button**	Images are paused or unpaused. ☛ "Freezing the Image (Freeze)" p.61
5	**[A/V Mute] button**	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.60

	Name	Function
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.64 • When using USB Display ☛ "Projecting with USB Display" p.31 • During a network connection (EB-1776W/EB-1771W/EB-1761W only) When projecting images or scenarios using Slideshow, pressing these buttons displays the previous/next screen.
⑦	**[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.30
⑧	**[LAN] button**	Changes to the image projected with EasyMP Network Projection. When projecting using the supplied or optional Quick Wireless Connection USB Key, this button switches to that image. (EB-1776W/EB-1771W/EB-1761W only) ☛ "Switching to the Target Image by Remote Control" p.31
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.31
⑩	**[Volume] buttons** [🔉][🔊]	[🔉] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.42

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.91

- 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).
  ☛ **Extended** - **Standby Mode** p.84

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

http://www.pureglare.com.au

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

- Internal error
- Fan related error
- Sensor error
- 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.98

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.92

- 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 managing function using SNMP cannot be used via wireless LAN in Quick connection mode.
- Up to two destination IP addresses can be saved.

ESC/VP21 Commands

You can monitor and control the projector from a computer via USB. Connect the device and the projector with a USB cable, and then enter the communication commands (ESC/VP21 commands).

Before starting

To control and monitor the projector using ESC/VP21 commands, the following preparations must be carried out.

1. Install the USB communication driver (EPSON USB-COM Driver) to your computer. For information about the EPSON USB-COM Driver, contact your local dealer or the nearest address provided in the Epson Projector Contact List.

   ☛ Epson Projector Contact List

2. Set **USB Type B** to **Link 21L** from the projector's Configuration menu.

   ☛ **Extended** - **USB Type B** p.84

3. Connect the computer's USB port to the projector's USB (TypeB) port with a USB cable.

   Start from step 2 from the second time.

http://www.pureglare.com.au

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.

Item			Command
Power ON/OFF	On		PWR ON
	Off		PWR OFF
Signal selection	Computer	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	HDMI		SOURCE 30
	Video		SOURCE 41
	USB Display		SOURCE 51
	USB		SOURCE 52
	LAN (EB-1776W/EB-1771W/EB-1761W only)		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.

Communications protocol

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

http://www.pureglare.com.au

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 0435	Failed to startup EasyMP Network Projection.	Restart the projector.
0434 0481 0482 0485	Network communication is unstable.	Check the network communication status, and reconnect after waiting for a while.
0433	Cannot play transferred images.	Restart EasyMP Network Projection.
0484	Communication was disconnected from the computer.	
0483 04FE	EasyMP Network Projection ended unexpectedly.	Check the network communication status, and then restart the projector.
0479 04FF	A system error occurred in the projector.	Restart the projector.
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. ☛ **Security** p.90
0893	The WEP/TKIP/AES encryption type does not match.	
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.89
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. ☛ *Epson Projector Contact List*

http://www.pureglare.com.au

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.

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

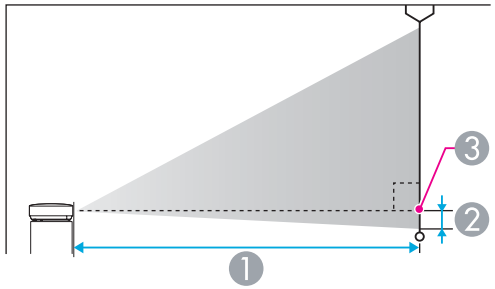
- **Input names defined by PJLink and corresponding projector sources**

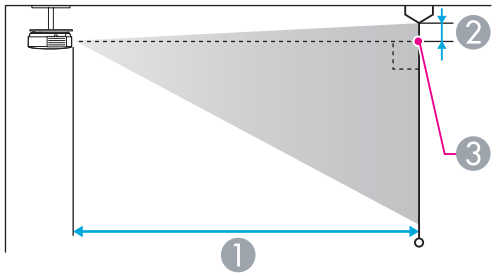
Source	PJLink Command
Computer	INPT 11
Video	INPT 21
HDMI	INPT 32
USB	INPT 41
LAN	INPT 52
USB Display	INPT 53

- Manufacturer name displayed for "Manufacture name information query"
  EPSON
- Model name displayed for "Product name information query"
  EB-1776W/EB-C301MS/PowerLite 1776W
  EB-1771W/EB-C301MN/EB-C3011WN/PowerLite 1771W
  EB-1761W/EB-C261MN/EB-C3005WN/PowerLite 1761W

http://www.pureglare.com.au

Projection Distance (For EB-1776W/EB-1771W/ EB-1761W)





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

Unit: cm

4:3 Screen Size		① Minimum (Wide) to Maximum (Tele)	②
28"	57x43	71 - 85	-4
30"	61x46	76 - 91	-4
40"	81x61	102 - 122	-6
50"	100x76	127 - 153	-7
60"	120x91	153 - 184	-8
80"	160x120	205 - 246	-11
100"	200x150	256 - 308	-14
150"	300x230	385 - 462	-21
200"	410x300	514 - 617	-28
250"	500x380	643 - 771	-35
260"	520x400	668 - 802	-36

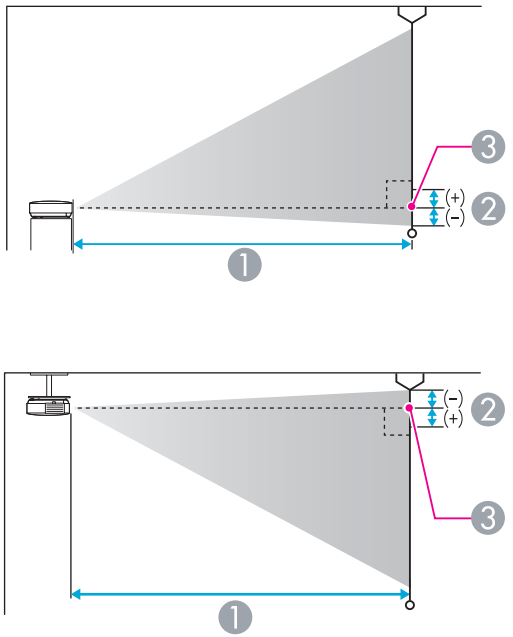
Unit: cm

16:9 Screen Size		① Minimum (Wide) to Maximum (Tele)	②
30"	66x37	69 - 83	-2
40"	89x50	92 - 111	-2
50"	110x62	115 - 139	-3
60"	130x75	139 - 167	-3
70"	160x87	162 - 195	-4
80"	180x100	186 - 223	-5
100"	220x120	232 - 279	-6
150"	330x190	349 - 419	-8
200"	440x250	466 - 560	-11
250"	550x310	583 - 700	-14
280"	620x350	653 - 784	-16

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	64x40	67 - 80	-4
40"	86x54	89 - 108	-5
50"	110x67	112 - 135	-6
60"	130x81	135 - 162	-7
80"	170x110	181 - 217	-10
100"	220x130	226 - 271	-12
150"	320x200	340 - 408	-18
200"	430x270	454 - 545	-24
250"	540x340	567 - 681	-31
300"	640x400	681 - 818	-37

Projection Distance (For EB-1751)



❶ Projection distance
❷ Distance from the center of the lens to the base of the screen (or to the top of the screen, if suspended from a ceiling)
❸ Center of lens

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	61x46	72 - 86	-5
40"	81x61	96 - 116	-7
50"	100x76	120 - 145	-9

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
60"	120x91	145 - 174	-10
80"	160x120	194 - 233	-14
100"	200x150	242 - 291	-17
150"	300x230	364 - 438	-26
200"	410x300	486 - 584	-34
250"	510x380	608 - 730	-43
300"	610x460	730 - 877	-51

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	66x37	78 - 94	+1
40"	89x50	105 - 126	+1
50"	110x62	131 - 158	+1
60"	130x75	158 - 190	+1
70"	160x87	185 - 222	+1
80"	180x100	211 - 254	+2
100"	220x120	264 - 317	+2
150"	330x190	397 - 477	+3
200"	440x250	530 - 636	+4
250"	550x310	663 - 796	+5
275"	610x340	729 - 875	+6

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
29"	62x39	73 - 88	-1
30"	64x40	76 - 92	-1
40"	86x54	102 - 123	-2
50"	110x67	128 - 154	-2
60"	130x81	154 - 185	-3
80"	170x110	205 - 247	-4
100"	220x130	257 - 309	-5
150"	320x200	386 - 464	-7
200"	430x270	516 - 619	-9
250"	540x340	645 - 774	-12
280"	603x377	723 - 867	-13

Supported Resolutions

Computer signals (analog RGB)

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-1776W/EB-1771W/EB-1761W only)

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

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

Component video

Signal	Refresh Rate (Hz)	Resolution (dots)
SDTV (480i)	60	720x480
SDTV (576i)	50	720x576
SDTV (480p)	60	720x480
SDTV (576p)	50	720x576
HDTV (720p)	50/60	1280x720
HDTV (1080i)	50/60	1920x1080
HDTV (1080p)	24/30/50/60	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
WXGA++	60	1600x900
SXGA	60	1280x960
	60	1280x1024
SXGA+	60	1400x1050
UXGA	60	1600x1200
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

Projector General Specifications

Product name		EB-1776W	EB-1771W	EB-1761W	EB-1751
Dimensions		292 (W) x 44 (H) x 210 (D) mm (not including raised section)			
LCD panel size		0.59" Wide			0.55"
Display method		Polysilicon TFT active matrix			
Resolution		1,024,000 pixels WXGA (1280 (W)x 800 (H) dots)x 3			786,432 pixels XGA (1024 (W) x 768 (H) dots)x 3
Focus adjustment		Electric/Auto	Manual		
Zoom adjustment		Manual (1 to 1.2)			
Lamp		UHE lamp, 230 W Model No.: ELPLP65		UHE lamp, 205 W Model No.: ELPLP65	UHE lamp, 230 W Model No.: ELPLP65
Max. audio output		1 W monaural			
Speaker		1			
Power supply		100 to 240 V AC ±10%, 50/60 Hz 3.3 to 1.5 A		100 to 240 V AC ±10%, 50/60 Hz 3.0 to 1.4 A	100 to 240 V AC ±10%, 50/60 Hz 3.3 to 1.5 A
Power consumption	100 to 120 V area	Operating: 322 W Standby power consumption (Communication On): 7.4 W Standby power consumption (Communication Off): 0.38 W		Operating: 293 W Standby power consumption (Communication On): 7.4 W Standby power consumption (Communication Off): 0.38 W	Operating: 322 W Standby power consumption (Communication On): 7.4 W Standby power consumption (Communication Off): 0.38 W
	220 to 240 V area	Operating: 304 W Standby power consumption (Communication On): 7.7 W Standby power consumption (Communication Off): 0.44 W		Operating: 278 W Standby power consumption (Communication On): 7.7 W Standby power consumption (Communication Off): 0.44 W	Operating: 304 W Standby power consumption (Communication On): 7.7 W Standby power consumption (Communication Off): 0.44 W
Operating altitude		Altitude 0 to 2,286 m			
Operating temperature		5 to +35°C (No condensation)			
Storage temperature		-10 to +60°C (No condensation)			

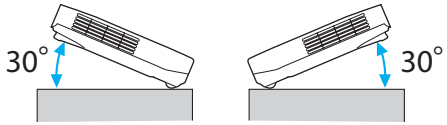
Mass	Approx. 1.7 kg

Product name			EB-1776W	EB-1771W	EB-1761W	EB-1751
Connectors	Computer port	1	Mini D-Sub15-pin (female)			
	Video port	1	RCA pin jack			
	Audio port	1	Stereo mini jack (3.5Φ)			
	HDMI port	1	HDMI (Audio is only supported by PCM)			
	USB (TypeA) port*	1	USB connector (Type A)			
	USB (TypeB) port*	1	USB connector (Type B)			
	USB port (dedicated Wireless LAN unit)	1	USB connector (Type A)			-

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

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:	562-290-5254

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:	H476C/H477C/H478C/H479C

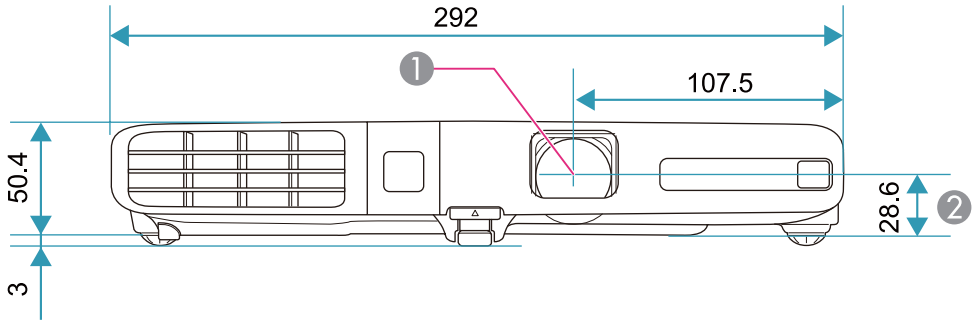
FCC Compliance Statement
For United States Users

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.

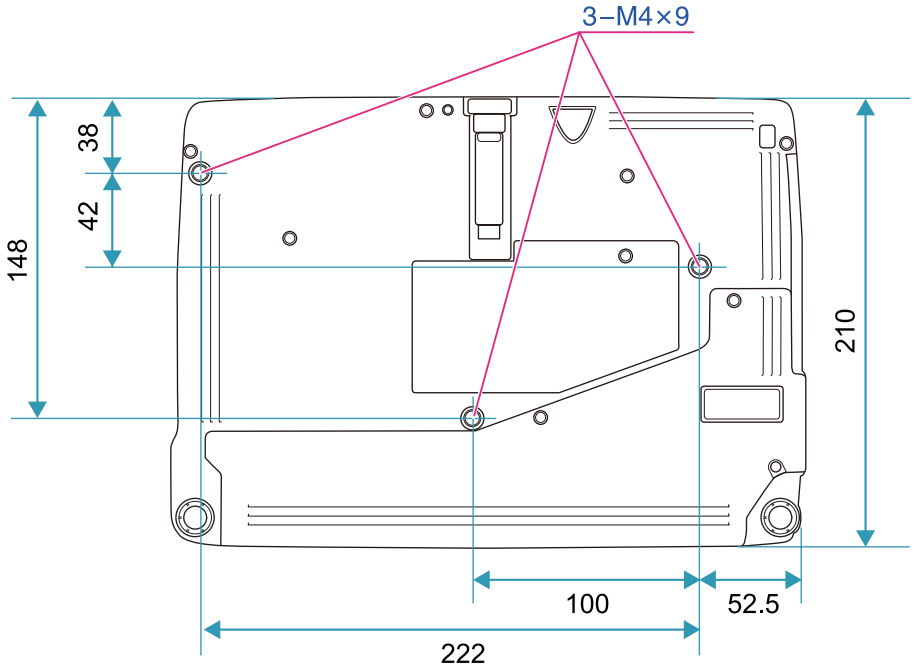
WARNING

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

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

Ad hoc mode	A method of wireless LAN connection that communicates with wireless LAN clients without using an access point.
AMX Device Discovery	AMX Device Discovery is a technology developed by AMX to facilitate AMX control systems for easy operation of the target equipment. Epson have implemented this protocol technology, and have provided a setting to enable the protocol function (ON). See the AMX Web site for more details. URL http://www.amx.com/
Aspect Ratio	The ratio between an image's length and its height. Screens with a horizontal:vertical ratio of 16:9, such as HDTV screens, are known as wide screens. SDTV and general computer displays have an aspect ratio of 4:3.
Component Video	A method that separates the video signal into a luminance component (Y), and a blue minus luminance (Cb or Pb) and a red minus luminance (Cr or Pr).
Composite video	A method that combines the video signal into a luminance component and a color component for transmission down a single cable.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to make text and graphics stand out more clearly, or to make them appear softer. Adjusting this particular property of an image is called contrast adjustment.
DHCP	An abbreviation of Dynamic Host Configuration Protocol, this protocol automatically assigns an IP address to equipment connected to a network.
DICOM	An acronym for Digital Imaging and Communications in Medicine. An international standard that defines image standards and a communications protocol for medical images.
Gateway Address	This is a server (router) for communicating across a network (subnet) divided according to subnet mask.
HDCP	HDCP is an abbreviation for High-bandwidth Digital Content Protection. It is used to prevent illegal copying and protect copyrights by encrypting digital signals sent over DVI and HDMI ports. Because the HDMI port on this projector supports HDCP, it can project digital images protected by HDCP technology. However, the projector may not be able to project images protected with updated or revised versions of HDCP encryption.
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satisfy the following conditions. • Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace) • Screen aspect ratio of 16:9
Infrastructure mode	A method for wireless LAN connection in which devices communicate through access points.
Interlace	Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom. Images are more likely to flicker because one frame is displayed every other line.
IP Address	A number to identify a computer connected to a network.
Progressive	Projects information to create one screen at a time, displaying the image for one frame. Even though the number of scan lines is the same, the amount of flicker in images decreases because the volume of information has doubled compared with an interlace system.

SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.
SNMP	An abbreviation for Simple Network Management Protocol, which is the protocol for monitoring and controlling devices such as routers and computers connected to a TCP/IP network.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set both the projector and the connected signal source to sRGB.
SSID	SSID is identification data for connecting to another device on a wireless LAN. Wireless communication is possible between devices that correspond to SSID.
Subnet Mask	This is a numerical value that defines the number of bits used for the network address on a divided network (subnet) from the IP address.
SVGA	A screen size standard with a resolution of 800 (horizontal) x 600 (vertical) dots.
S-Video	A method that separates the video signal into a luminance component (Y) and a color component (C).
SXGA	A screen size standard with a resolution of 1,280 (horizontal) x 1,024 (vertical) dots.
Sync.	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the phases of these signals (the relative position of the crests and the troughs in the signal) is called Synchronization. If the signals are not synchronized, flickering, blurriness, and horizontal interference occur.
Tracking	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the frequency of these signals (the number of crests in the signal) is called Tracking. If Tracking is not carried out correctly, wide vertical stripes appear in the signal.
Trap IP Address	This is the IP address for the destination computer used for error notification in SNMP.
VGA	A screen size standard with a resolution of 640 (horizontal) x 480 (vertical) dots.
XGA	A screen size standard with a resolution of 1,024 (horizontal) x 768 (vertical) dots.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Seiko Epson Corporation. No patent liability is assumed with respect to the use of the information contained herein. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Neither Seiko Epson Corporation nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by the purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with Seiko Epson Corporation's operating and maintenance instructions.

Seiko Epson Corporation shall not be liable against any damages or problems arising from the use of any options or any consumable products other than those designated as Original Epson Products or Epson Approved Products by Seiko Epson Corporation.

The contents of this guide may be changed or updated without further notice.

Illustrations in this guide and the actual projector may differ.

Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc; or functional/precision devices etc, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care etc, please make your own judgment on this product's suitability after a full evaluation.

About Notations

Microsoft® Windows® 2000 operating system
Microsoft® Windows® XP operating system
Microsoft® Windows Vista® operating system
Microsoft® Windows® 7 operating system

In this guide, the operating systems above are referred to as "Windows 2000", "Windows XP", "Windows Vista", and "Windows 7". Furthermore, the collective term Windows may be used to refer to Windows 2000, Windows XP, Windows Vista, and Windows 7, and multiple versions of Windows may be referred to as, for example, Windows 2000/XP/Vista/7, with the Windows notation omitted.

Mac OS X 10.3.x
Mac OS X 10.4.x
Mac OS X 10.5.x
Mac OS X 10.6.x
Mac OS X 10.7.x

In this guide, the operating systems above are referred to as "Mac OS X 10.3.x", "Mac OS X 10.4.x", "Mac OS X 10.5.x", "Mac OS X 10.6.x", and "Mac OS X 10.7.x". Furthermore, the collective term "Mac OS X" is used to refer to them.

http://www.pureglare.com.au

Trademarks and Copyrights

IBM, DOS/V, and XGA are trademarks or registered trademarks of International Business Machines Corporation.

Mac and Mac OS are trademarks of Apple Inc.

App Store is a service mark of Apple Inc.

Microsoft, Windows, Windows Vista, Windows 7, PowerPoint, and Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WPA™ and WPA2™ are registered trademarks of Wi-Fi Alliance.

HDMI and High-Definition Multimedia Interface are the trademarks or registered trademarks of HDMI Licensing LLC.

PJLink trademark is a trademark applied for registration or is already registered in Japan, the United States of America and other countries and areas.

Foxit PDF SDK Copyright ©2011, Foxit Software Company www.foxitsoftware.com, All rights reserved.

Other product names used herein are also for identification purposes only and may be trademarks of their respective owners. Epson disclaims any and all rights in those marks.

©SEIKO EPSON CORPORATION 2012. All rights reserved.

http://www.pureglare.com.au

A

A/V Mute 60
Abs. Color Temp. 80
Air exhaust vent 11
Air filter replacement period 117
Aspect 45, 82
Auto H/V-Keystone 82
Auto Iris 44, 80
Auto Setup 81

B

Basic menu 88
Blackboard 43
Brightness 80

C

Ceiling 21, 84
Ceiling mount fixing points 13
Cleaning 112
Cleaning the air filter and air intake vent 112
Cleaning the Projector's Surface 112
Color Adjustment 80
Color correction 65
Color Mode 43, 80
Color Saturation 80
Computer port 12
Configuration menu 76
Connection mode 89
Consumables 122
Continuous 60
Contrast 80
Control panel 14
Control Panel Lock 73, 83
Cross 63
Customized 43

D

DICOM SIM 43
Direct Power On 84
Display 84
Display Background 84
Display order 60
Display Settings 59
Distance 130
Document camera 121
Dynamic 43

E

Email Address 92
ESC/VP21 126
Extended menu 84
E-Zoom 63

F

Focus button 15
Focus ring 12
Foot adjust lever 11
Freeze 61
Front 21, 84
Front adjustable foot 11
Full Lock 73

G

Gateway Address 90

H

HDMI port 12
HDMI Video Range 81
Help function 97
High Altitude Mode 84
How to replace the air filter 117
How to replace the lamp 115

I

ID (projector) 65
ID (remote control) 67
Image menu 80
Indicators 98
Info menu 94
Input Signal 81, 94
IP Address 92

K

Keystone 82

L

Lamp cover 12
Lamp hours 94
Lamp indicator 98
Lamp replacement period 114
Language 85
Lens Cover Timer 84
Link21L 85

M

Mail menu 91
Mail Notification 92, 125
Messages 84
Monitor Displays 133
Mouse pointer 64
Multi-screen 65, 85

N

Network Configuration 86
Network information 86
Network menu 86
Noise Reduction 81

O

Operating temperature 135
Operation 84
Optional accessories 121
Overheating 99

P

Part Names and Functions 11
Password protect 71
Password protect sticker 72
Photo 43
PJLink 129
PJLink Password 88
Pointer 61
Pointer Shape 83
Port Number 92
Position 81
Power Consumption 83
Power indicator 98
Power inlet 12
Power On Protect 71
Presentation 43, 52
Problem Solving 98
Progressive 81
Projection 84
Projector ID 66, 85
Projector keyword 88
Projector Name 88
Projector Setup 123

Q

Quick Corner 82

R

Reading Mail 125
Rear 21, 84
Rear feet 13
Rear screen 21
Refresh Rate 94
Remote control 15
Remote receiver 11, 13
Replacing batteries 18
Reset All 95
Reset menu 93, 94
Resetting the lamp operating time 95, 117
Resolution 94
Rotating images 55

S

Screen fit 35
Screen Size 51
Screen size 130
Screen switching time 60
Security menu 90
Security slot 13
Select Drive 54
Settings menu 82
Sharpness 80
Signal menu 81
Sleep Mode 84
Slideshow 52, 53, 58
SMTP Server 92
SNMP 126
Soft keyboard 87
Source 50, 94
Source Search 14, 30
Specifications 135
Split screen 49
Split Screen Setup 50
Sports 43
sRGB 43
SSID 89
Standby Mode 85
Startup Screen 84
Storage temperature 135
Subnet Mask 90
Supported Monitor Displays 133
Swap Screens 50
Sync Info 94
Sync. 81

T

Temp indicator 98

http://www.pureglare.com.au

Test Pattern 83
Theatre 43
Tint 80
Tracking 81

U

USB (TypeA) port 12
USB (TypeB) port 12
USB Type B 85
User Button 83
User's Logo 69
User's Logo Protect 71

V

Video Port 12
Video Signal 81, 94
Volume 83

W

Web Browser 123
Web Control 123
Web Control Password 88
Web Remote 124
Whiteboard 43
Wide-screen projection 45
Wireless LAN indicator 11
Wireless LAN menu 89
Wireless LAN Power 89
Wireless LAN system 89
Wireless LAN unit cover 11
Wireless mouse function 64

Z

Zoom ring 11