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PROJECTOR OWNER'S MANUAL

Epson
EB-1430Wi

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User's Guide

Multimedia Projector

EB-1430Wi
EB-1420Wi

Notations Used in This Guide

- **Safety indications**

The documentation and the projector use graphical symbols to show how to use the projector safely.
The indications and their meaning are as follows. Make sure you understand them properly before reading the guide.

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 "Appendices". ☛ "Glossary" p.254
[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 9
- Interactive Features (Easy Interactive Function) . . . 9
- Easily Perform Operations from the Control Pad . . . 9
- Project Two Images Simultaneously (Split Screen) . . . 9
- Connecting to a Network and Projecting Images from the Computer's Screen . . . 10

Part Names and Functions 11
- Front/Side . . . 11
- Top/Side . . . 12
- Interface . . . 13
- Base . . . 15
  - Attaching the Feet (Only Models with Feet Supplied) . . . 15
- Control Panel . . . 16
- Remote Control . . . 17
  - Replacing the Remote Control Batteries . . . 20
  - Remote Control Operating Range . . . 21
- Interactive Pen . . . 21
  - Replacing the Battery for the Interactive Pen . . . 22
  - Replacing the Tip of the Interactive Pen . . . 23
- Pen Tray . . . 24
- Control Pad . . . 24
  - Replacing the Batteries for the Control Pad . . . 25
- Touch Unit (EB-1430Wi only) . . . 27
  - Front . . . 27
  - Rear . . . 27

Preparing the Projector

Installing the Projector 30
- Installation Methods . . . 30
  - When Using the Interactive Features . . . 31
  - Setting Up the Touch Unit (EB-1430Wi only) . . . 32

Connecting Equipment 33
- Connecting to the Projector . . . 35
  - Connecting a Computer . . . 35
  - Connecting a Smartphone or Tablet Device . . . 37
  - Connecting Image Sources . . . 38
  - Connecting USB Devices . . . 40
  - Connecting External Equipment . . . 42
  - Connecting a LAN Cable . . . 44
  - Installing the Wireless LAN Unit . . . 45
  - Connecting Multiple Projectors . . . 46
- Connecting to the Control Pad . . . 48
  - Connections when Projecting with USB Display and when Performing Mouse Operations Using the Interactive Feature . . . 48
  - Connecting Using PC Free . . . 50
  - Connecting a Printer . . . 51

Basic Projection Methods

Projecting Images 53
- From Installation to Projection . . . 53
- Automatically Detect Input Signals and Change the Projected Image (Source Search) . . . 54
- Projecting with USB Display . . . 55
  - Necessary Settings . . . 55
  - System Requirements . . . 55
  - Connecting for the First Time . . . 56
  - Uninstalling . . . 57

Adjusting Projected Images 59
- Correcting Keystone Distortion . . . 59
  - H/V-Keystone . . . 59
  - Quick Corner . . . 60
- Adjusting the Image Size . . . 61
- Adjusting the Position of the Image (Image Shift) . . . 62
- Adjusting the Vertical Position of the Image (Models Supplied with the Feet Only) . . . 63

Raising the Height of the Image 63
Lowering the Height of the Image 63
Adjusting the Horizontal Position of the Image (Models Supplied with the Feet Only) 63
Correcting the Focus 64
Adjusting the Volume 66
Adjusting the Image 66
Hue, Saturation, and Brightness Adjustment 66
Gamma Adjustment 66
Selecting the Projection Quality (Selecting Color Mode) 67
Setting Auto Iris 68
Changing the Aspect Ratio of the Projected Image 68
Changing Methods 69
Changing the Aspect Mode 69

Using the Interactive Features

Interactive Feature Modes 72

Preparing Before Using Interactive Features 74

Safety Instructions for Interactive Features 74
Using the Interactive Pens 74
Pen Calibration 76
Calibrating Automatically 76
Calibrating Manually 77
Using Interactive Touch Operations with Your Finger (EB-1430Wi) 79
Calibrating for Touch Operations with Your Finger 81
Safety Instructions for Interactive Touch Operations 83
Laser Warning Labels 84

Draw on a Whiteboard Screen (Whiteboard Mode) 85

Starting Whiteboard Mode 85
Safety Instructions for Whiteboard Mode 86
Whiteboard Mode Toolbar 86
Whiteboard Mode Bottom Toolbar 89
Projecting Scanned Images in Whiteboard Mode 91
Compatible File Types for Opening in Whiteboard Mode 92
Sharing Drawings Created in Whiteboard Mode 93
Saving Drawing Contents in Whiteboard Mode 93
Available File Format in Whiteboard Mode 94
Printing Drawing Contents in Whiteboard Mode 94
Available Printer Control Commands in Whiteboard Mode 95
Sending Emails in Whiteboard Mode 95
Share Drawing Contents with Other Devices 96
Sharing Whiteboard Screen with Other Devices 97
Browse the Shared Drawing Contents 98
Connecting to a Whiteboard Screen from Other Projectors 99
Available Features when Connecting to a Whiteboard Screen 100
Connecting to a Whiteboard Screen from a Tablet PC or Computer via a Web Browser 101
Connectable Web Browser Requirements for Whiteboard Screen 101
Toolbar for Whiteboard Screen Connecting via a Web Browser 102

Draw on the Projected Image (Annotation Mode) 105

Starting Annotation Mode 105
Annotation Mode Toolbar 106
Annotation Mode Bottom Toolbar 108
Using Drawing Contents of Annotation Mode 109
Saving Drawing Contents in Annotation Mode 109
Printing Drawing Contents in Annotation Mode 109

Control Computer Features from a Projected Screen (Computer Interactive Mode) 111

Using Computer Interactive Mode 111
Adjusting the Pen Operation Area 114
Easy Interactive Driver System Requirements (OS X only) 115
Installing Easy Interactive Driver on OS X 116

Switching the Interactive Mode 117

Control the Projector from Projected Screen 118

Selecting Network Device Display from the Projector Control Toolbar 118

Using the Interactive Features over a Network 120

Precautions when Connecting to a Projector on a Different Subnet 120

Windows Pen Input and Ink Tools 122
Enabling Windows Pen Input and Ink Features 122
Using Windows Pen Input and Ink Features 123

Use Interactive Features when Projecting Two Images Simultaneously 124
Switching Split Screen Projection 124
Using Computer Interactive Mode on a Split Screen 126

Useful Functions

Projection Functions 128
Projecting Two Images Simultaneously (Split Screen) 128
Input Sources for Split Screen Projection 129
Operating Procedures 130
Restrictions During Split Screen Projection 132
Projecting Images Stored on a USB Storage Device (PC Free) 132
Specifications for Files that can be Projected Using PC Free 133
PC Free Examples 134
PC Free Operating Methods 134
Projecting the Selected Images or Movies 137
Projecting PDF Files 137
Projecting Image Files in a Folder in Sequence (Slideshow) 139
Image File Display Settings and Slideshow Operation Settings 140
Hiding the Image and Sound Temporarily (A/V Mute) 141
Freezing the Image (Freeze) 141
Pointer Function (Pointer) 142
Enlarging Part of the Image (E-Zoom) 143
Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse) 144
Saving a User's Logo 145
Saving User Pattern 147

Security Functions 149
Managing Users (Password Protection) 149
Kinds of Password Protection 149
Setting Password Protection 149
Entering the Password 150
Restricting Operation (Control Panel Lock) 151
Anti-Theft Lock 152
Installing the Wire Lock 152

Monitoring and Controlling 153
About EasyMP Monitor 153
Message Broadcasting 153
Changing Settings Using a Web Browser (Web Control) 153
Projector Setup 153
Displaying the Web Control Screen 154
Displaying the Web Remote Screen 154
Setting Certificates 156
Creating an Address Book 157
Secure HTTP Notes 157
List of Supported Certificates 157
Using the Mail Notification Function to Report Problems 158
Reading Error Notification Mail 158
Management Using SNMP 159
ESC/VP21 Commands 159
Command List 159
Cable Layouts 160
About PJLink 160
About Crestron RoomView® 161
Operating a Projector from Your Computer 161
Setting Schedule 164
Setting the Time 164
Saving a Schedule 166
Checking Schedule 167
Editing a Schedule 168

Configuration Menu

Using the Configuration Menu 172

List of Functions 173
Configuration Menu Table 173
Network Menu 174

Image Menu 175
Signal Menu 176
Settings Menu 178
Extended Menu 179
Easy Interactive Function Setting Items 181
Whiteboard Settings Screen 183
Network Menu 187
Notes on Operating the Network Menu 188
Soft Keyboard Operations 188
Basic Menu 189
Wireless LAN Menu 190
Security Menu 192
Wired LAN Menu 194
Administrator Settings Menu 195
Reset Menu 198
ECO Menu 199
Info Menu (Display only) 200
Reset Menu 201

Performing Batch Setup for Multiple Projectors 202

Troubleshooting

Using the Help 204

Problem Solving 205

Reading the Indicators 205
When the Indicators Provide No Help 210
Problems Relating to Images 211
No Images Appear 211
Moving Images are Not Displayed (Only the Moving Image Portion Turns Black) 212
Projection Stops Automatically 212
The Message Not supported is Displayed 212
The Message No Signal is Displayed 213
Images are Fuzzy, Out of Focus, or Distorted 213
Interference or Distortion Appear in Images 214
The Mouse Cursor Flickers (Only when Projecting USB Display) 215
The Image is Truncated (Large) or Small, the Aspect is Not Suitable, or the Image has been Reversed 215
Image Colors are Not Right 216
Images Appear Dark 216
Problems when Projection Starts 217
The Projector Does Not Turn On 217
Problems with the Interactive Features 218
Cannot Draw on the Projected Screen 218
Cannot Operate a Computer from the Projected Screen After Connecting to the Computer 218
The Message An error occurred in the Easy Interactive Function. is Displayed 219
Computer's Mouse Does Not Work Correctly 219
The Interactive Pen Does Not Work 219
The Response Time for the Interactive Pen is Slow (Only when Projecting USB Display) 220
Cannot Perform Touch Operations Correctly (EB-1430Wi only) 220
The Dot Moves Automatically or Does Not Move to the Next Position During Manual Calibration 220
Cannot Connect to the Whiteboard of a Shared Projector 221
Cannot View the Shared Drawing Contents 221
Cannot Save the Screen for a Shared Whiteboard Screen in a Web Browser . . . 222
Cannot Perform Operations while Capturing, Printing, or Saving 222
Cannot Paste the Capture of the Projected Screen Correctly 222
Cannot Print Normally 222
Cannot Scan Normally 223
The Time is Out of Sync, Settings for the Internal Storage are Not Reflected Correctly 223
Cannot Change the Source 223
Other Problems 223
No Sound can be Heard or the Sound is Faint 223
There is Noise in the Audio (Only when Projecting USB Display) 224
The Remote Control Does Not Work 224
I Want to Change the Language for Messages and Menus 225
The Authentication Setting of Wireless LAN Fails 225
Mail is Not Received even if an Error Occurs with the Projector 225
The Message The battery that saves your clock settings is running low. is Displayed 226
Cannot Change Settings Using a Web Browser 226

About Event ID 227

Maintenance

Cleaning 230
Cleaning the Projector's Surface 230
Cleaning the Projection Window 230
Cleaning the Obstacle Sensor 230
Cleaning the Air Filter 231

Replacing Consumables 234
Replacing the Lamp 234
Lamp Replacement Period 234
How to Replace the Lamp 235
Resetting the Lamp Hours 237
Replacing the Air Filter 238
Air Filter Replacement Period 238
How to Replace the Air Filter 238

Appendix

Optional Accessories and Consumables 242
Optional Accessories 242
Consumables 242

Screen Size and Projection Distance 243

Supported Monitor Displays 245
Supported Resolutions 245
Computer Signals (Analog RGB) 245
Component Video 245
Composite Video 245
Input Signals from the HDMI Port 245
Input Signals from the MHL Port 246

Specifications 247
Projector General Specifications 247

Appearance 252

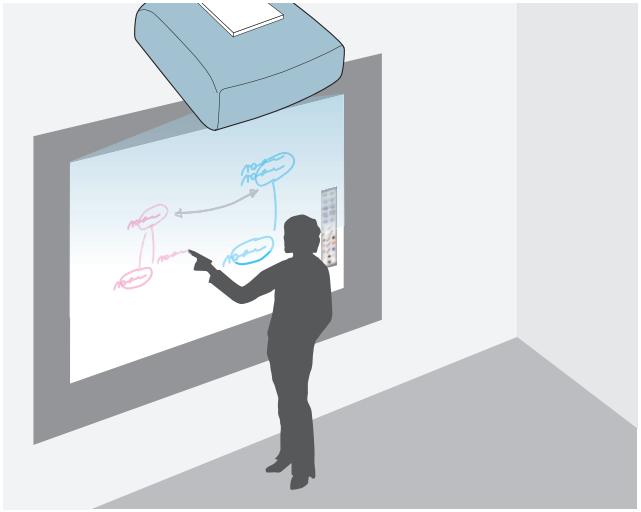
Glossary 254

General Notes 256
Wireless Telegraphy Act Regulations 256
About Notations 256
General Notice: 257

Introduction

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

Interactive Features (Easy Interactive Function)



You can perform the following operations with the interactive pen.

When the Touch Unit is installed, you can perform the same operation as the interactive pen with your finger (EB-1430Wi only).

- Whiteboard Mode
  - Draw on plain screens such as whiteboards
  - Share the whiteboard screen with other devices
  - View the whiteboard screen from other projectors
  - Read paper documents from a scanner
  - Save the projected screen
  - Print the projected screen
  - Attach the projected screen to an email and send
- Annotation Mode
  - Draw on documents being projected
  - Save the projected screen
  - Print the projected screen
- Perform computer mouse operations on the projected screen
- Perform projector remote control operations from the projected screen
- Select devices on the projected screen that have been connected to the network using the supplied EasyMP Multi PC Projection
- Operate a computer over a network using the supplied EasyMP Network Projection or the Quick Wireless

☛ "Using the Interactive Features" p.71

Easily Perform Operations from the Control Pad

By installing the Control Pad supplied, you can easily perform frequently used operations such as turning the projector on or off and changing the source. You can also connect a USB storage or USB cables for a printer and so on.

☛ "Control Pad" p.24

☛ "Connecting to the Control Pad" p.48

Project Two Images Simultaneously (Split Screen)

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)" p.128



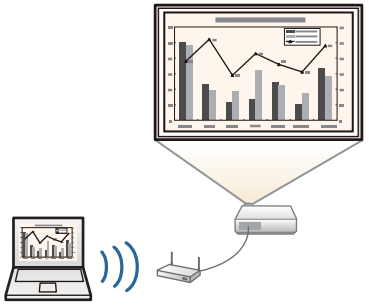
Connecting to a Network and Projecting Images from the Computer's Screen

You can perform the following operations using EasyMP Network Projection and EasyMP Multi PC Projection found on the supplied EPSON Projector Software CD-ROM.

- Sharing the projector over a network

By using EasyMP Network Projection, you can connect the projector to a network and share it with multiple computers. This allows you to project images and documents from any of the computers without changing cables. You can also project from one computer to multiple projectors.

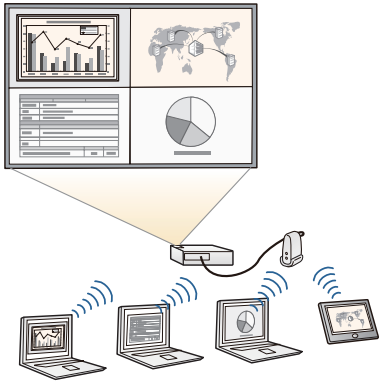
☛ *EasyMP Network Projection Operation Guide*



- Projecting multiple computer screens at the same time

By using EasyMP Multi PC Projection, you can project up to four screens at the same time from computers on the network, or from smartphones or tablet devices on which Epson iProjection is installed.

☛ *EasyMP Multi PC Projection Operation Guide*



- Wirelessly projecting your computer's screen

By installing the supplied wireless LAN unit, you can project a computer screen over a network.

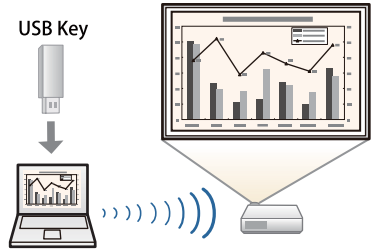
☛ "Installing the Wireless LAN Unit" p.45



You can perform the following operations using optional products and applications.

- Connecting to a computer with Quick Wireless easily

By simply connecting the optional Quick Wireless Connection USB Key to a computer, you can automatically perform network settings for a wireless LAN connection, and project the computer's screen.

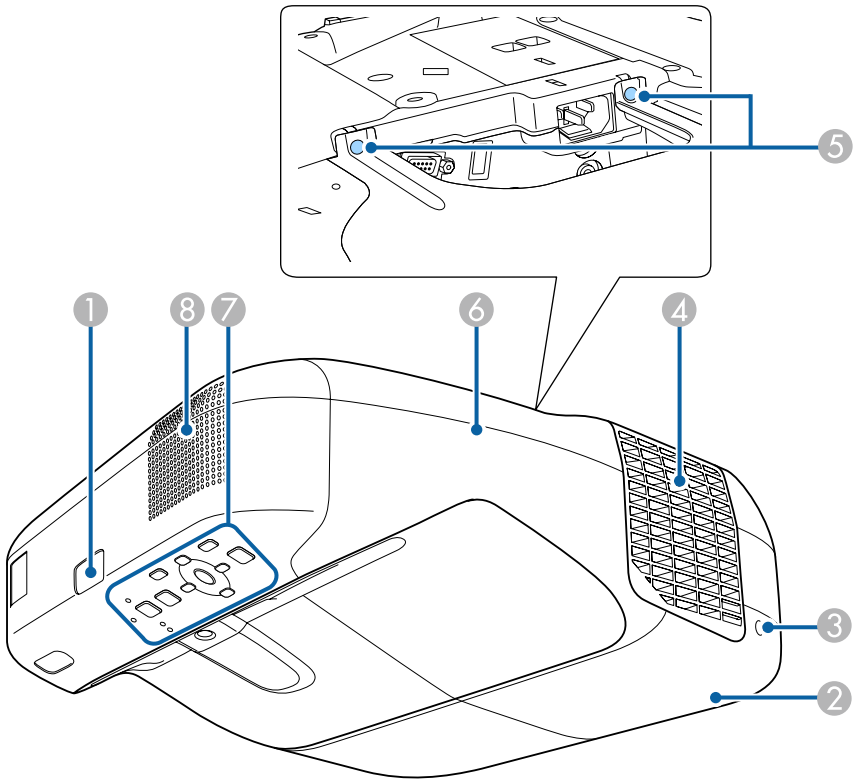


- Projecting images from portable devices over a network

If Epson iProjection is installed on your smartphone or tablet device, you can wirelessly project data from the device. You can download Epson iProjection for free from the App Store or from Google play. Any fees incurred when communicating with the App Store or Google play are the responsibility of the customer.



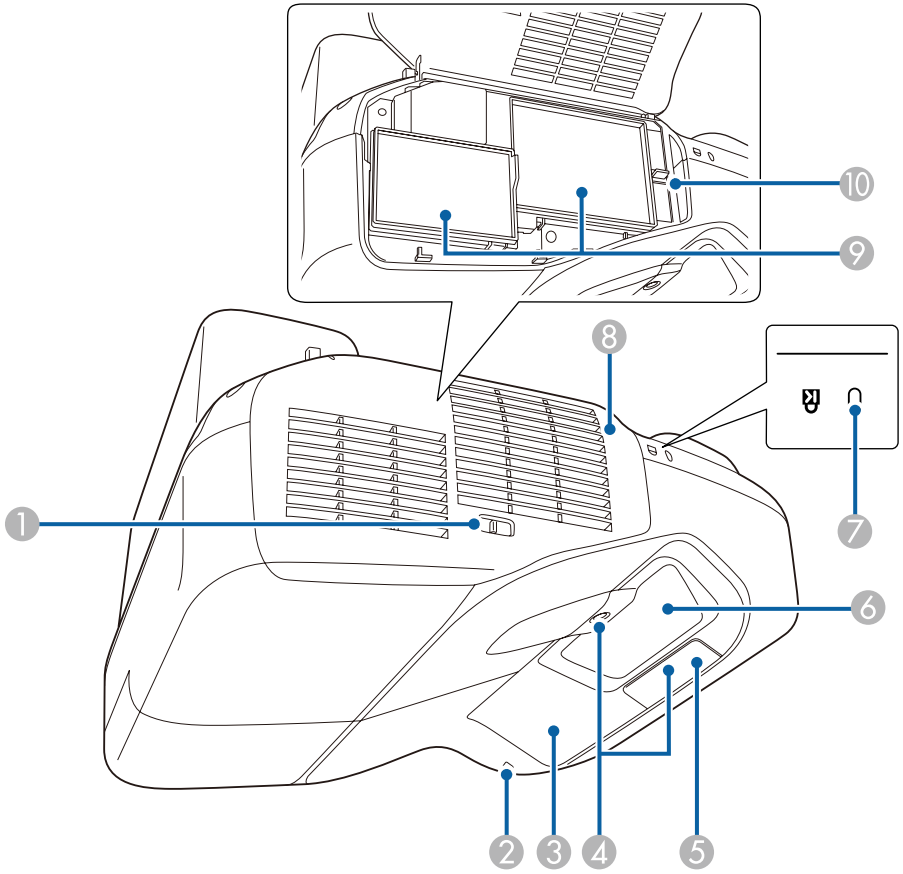
Front/Side



	Name	Function
1	**Remote receiver**	Receives signals from the remote control.
2	**Lamp cover**	Open when replacing the projector's lamp. ☛ "Replacing the Lamp" p.234
3	**Lamp cover fixing screw**	Screw to fix the lamp cover in place. ☛ "Replacing the Lamp" p.234

	Name	Function
4	**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.
5	**Cable cover fixing screws**	Screws to fix the cable cover in place.
6	**Cable cover**	Loosen the two screws and open the cover when connecting cables for external devices or installing the wireless LAN unit.
7	**Control panel**	Operates the projector. ☛ "Control Panel" p.16
8	**Speaker**	Outputs audio.

Top/Side

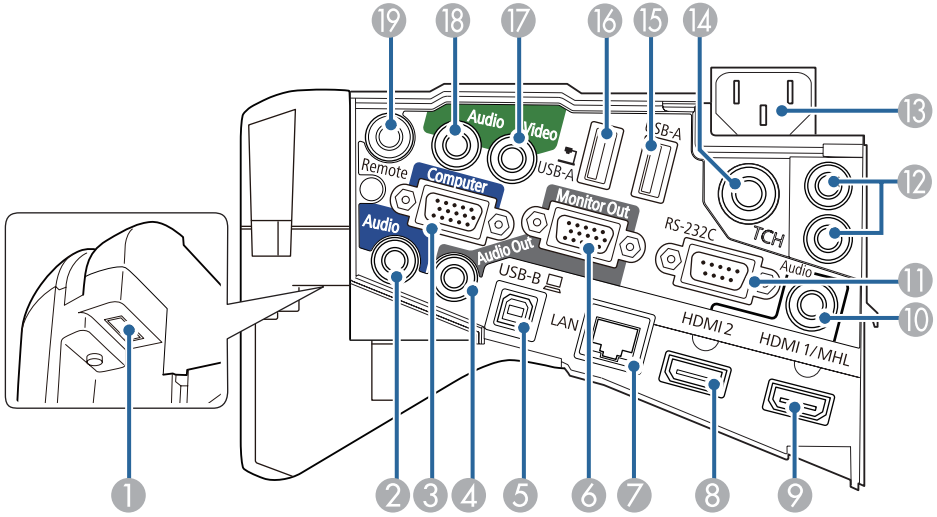


	Name	Function
1	**Air filter cover open/close lever**	Opens and closes the air filter cover.
2	**Wireless LAN indicator**	Indicates the access status to the supplied wireless LAN unit.
3	**Easy Interactive Function receiver**	Receives signals from the interactive pen. ☛ "Using the Interactive Features" p.71

	Name	Function
4	**Obstacle sensor**	Detects obstacles that are interfering with the projection area. ☛ "Cleaning the Obstacle Sensor" p.230
5	**Remote receiver**	Receives signals from the remote control.
6	**Projection window**	Projects images. **⚠ Warning** • Do not look into the projection window while projecting. • Do not place any objects or put your hand near the projection window. It could cause burns, fire, or the object to warp because this area reaches a high temperature due to the concentrated projection light.
7	**Security slot**	The security slot is compatible with the Microsaver Security System manufactured by Kensington. ☛ "Anti-Theft Lock" p.152
8	**Air filter cover**	Open when changing the air filter or operating the focus lever.
9	**Air intake vent (air filter)**	Takes in air to cool the projector internally. ☛ "Cleaning the Air Filter" p.231 ☛ "Replacing the Air Filter" p.238
10	**Focus lever**	Adjusts the image focus. Open the air filter cover to operate.

Interface

The following ports are available under the cable cover.



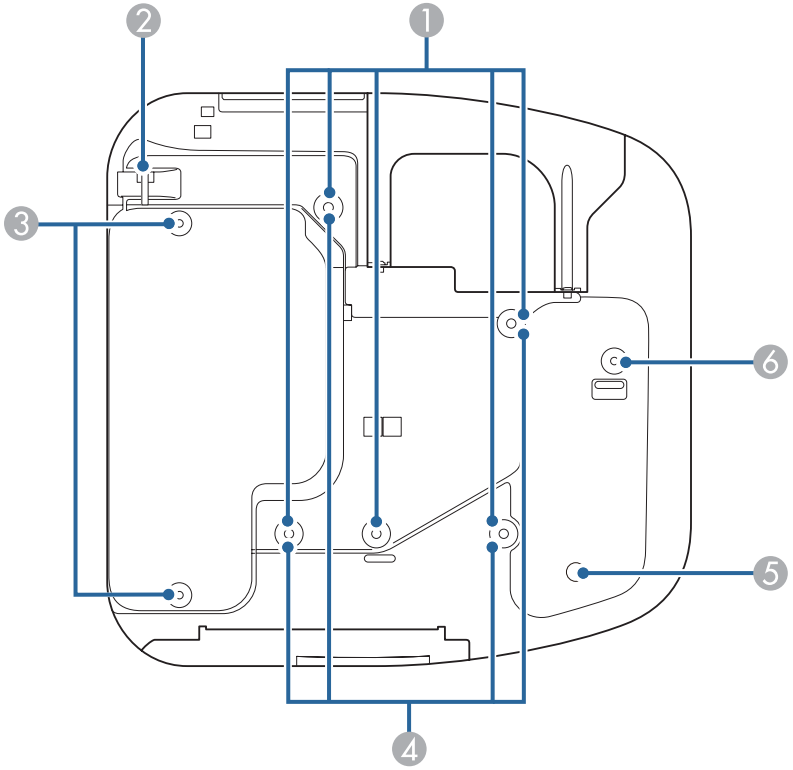
	Name	Function
1	**Wireless LAN unit installation section**	Install the supplied wireless LAN unit here. ☛ "Installing the Wireless LAN Unit" p.45
2	**Audio1 port**	• Inputs audio from equipment connected to the Computer port. • Inputs audio from other devices when projecting images from the device connected to the USB-A port.
3	**Computer port**	Inputs image signals from a computer and component video signals from other video sources.
4	**Audio Out port**	Outputs audio from the currently projected image to an external speaker.

	Name	Function
5	**USB-B port**	• Connects the projector to a computer via the supplied USB cable, and projects the images on the computer. ☛ "Projecting with USB Display" p.55 • 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.144 • Connects the projector to a computer using the supplied USB cable to use the interactive pen as a mouse. ☛ "Control Computer Features from a Projected Screen (Computer Interactive Mode)" p.111 • Connects the projector to the Control Pad via the supplied USB cable to use the Control Pad. ☛ "Connecting to the Control Pad" p.48
6	**Monitor Out port**	Outputs analog RGB signals input from the Computer port to an external monitor. You cannot output signals input from other ports or component video signals.
7	**LAN port**	Connects a LAN cable to connect to a network.
8	**HDMI2 port**	Inputs video signals from HDMI compatible video equipment and computers. This projector is compatible with HDCP. ☛ "Connecting Equipment" p.33
9	**HDMI1/MHL input port**	• Inputs video signals from HDMI compatible video equipment and computers. This projector is compatible with HDCP. • Inputs signals from smartphones and tablet devices that support MHL (Mobile High-definition Link).
10	**Audio3 port**	In **Extended** - **A/V Settings**, set **Audio Output**, **HDMI1 Audio Output**, or **HDMI2 Audio Output** as **Audio3** to input audio to this port. ☛ **Extended** - **A/V Settings** p.179

	Name	Function
⑪	**RS-232C port**	When controlling the projector from a computer, connect it to the computer with an RS-232C cable. This port is for control use and should not normally be used. ☛ "ESC/VP21 Commands" p.159
⑫	**SYNC IN/OUT port**	When using the interactive features in the same room as multiple versions of the same projector, you need to connect the optional remote control cable set (ELPKC28) to the projectors. When the cable set is connected, the interactive pen operates smoothly. ☛ "Connecting Multiple Projectors" p.46
⑬	**Power inlet**	Connects the power cord to the projector. ☛ "From Installation to Projection" p.53
⑭	**TCH port (EB-1430Wi only)**	Connects the supplied Touch Unit connection cable to the Touch Unit. ☛ *Installation Guide*
⑮	**USB-A port**	• Connects a USB memory device or a digital camera and projects PDFs, movies, or images using PC Free. ☛ "Projecting Images Stored on a USB Storage Device (PC Free)" p.132 • By connecting a USB memory, you can store and view content drawn using the interactive features. ☛ "Saving Drawing Contents in Whiteboard Mode" p.93 ☛ "Saving Drawing Contents in Annotation Mode" p.109 • You can connect USB printers. • Connects the projector to the Control Pad with the supplied USB cable when connecting a USB memory or printer to the Control Pad. ☛ "Connecting to the Control Pad" p.48
⑯	**USB-A port** 	Projects images from the optional Document Camera. You cannot project using other devices from this port.
⑰	**Video port**	Inputs composite video signals from video sources.

	Name	Function
⑱	**Audio2 port**	Inputs audio from equipment connected to the Video port.
⑲	**Remote port**	Connects to the Control Pad with the optional Remote control cable set. ☛ "Control Pad" p.24

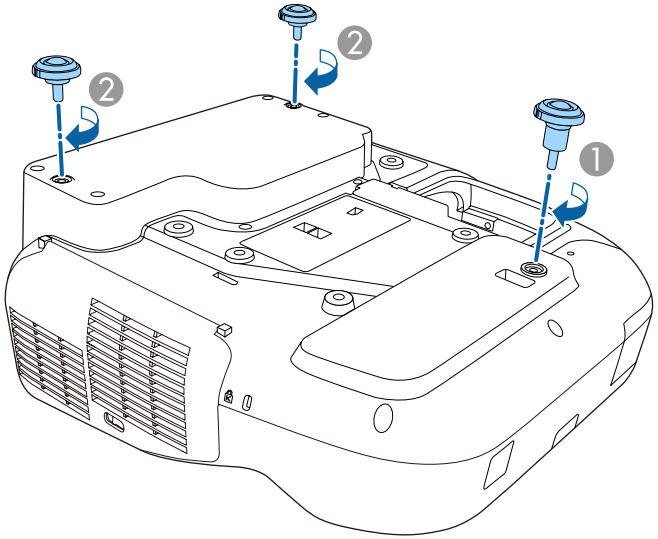
Base



	Name	Function
1	**Ceiling mount fixing points (five points)**	Attach the optional Ceiling mount here when suspending the projector from a ceiling. ☛ "Installing the Projector" p.30 ☛ "Optional Accessories" p.242
2	**Security cable installation point**	Pass a commercially available wire lock through here and lock it in place. Do not pass drop-prevention wires through here when mounting the projector on a wall or suspending it from a ceiling. ☛ "Installing the Wire Lock" p.152
3	**Rear foot fixing points (two points)**	Attach the feet when using the projector on a surface such as a desk. (Only models with feet supplied) ☛ "Attaching the Feet (Only Models with Feet Supplied)" p.15
4	**Wall mount fixing points (four points)**	Attach the supplied or optional setting plate when mounting on a wall. ☛ *Installation Guide* ☛ "Optional Accessories" p.242
5	**Illumination sensor**	Detects the brightness of the surroundings, and automatically adjusts the brightness of the screen. Set **Power Consumption** to **Auto** from the Configuration menu. ☛ **ECO** - **Power Consumption** p.199
6	**Front foot fixing point**	Attach the foot with a spacer when using the projector on a surface such as a desk. (Only models with feet supplied) ☛ "Attaching the Feet (Only Models with Feet Supplied)" p.15

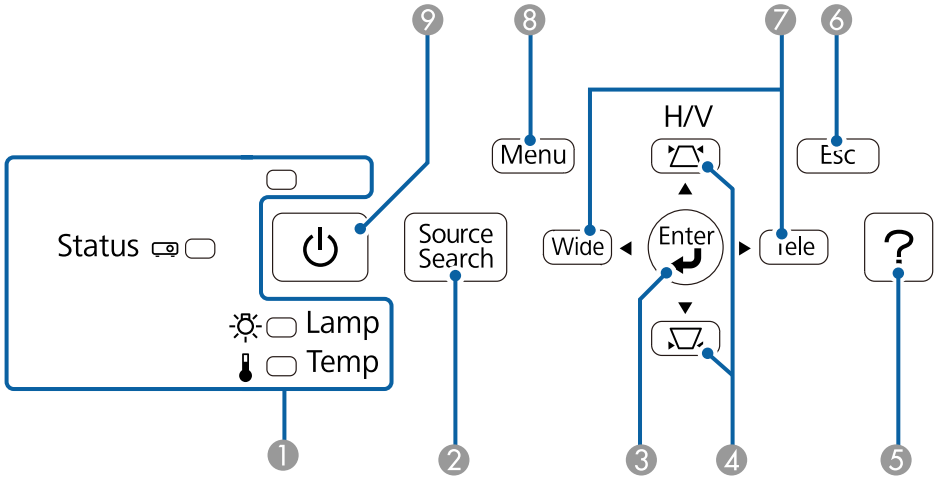
Attaching the Feet (Only Models with Feet Supplied)

Insert the feet into the foot fixing points.



1. Insert the foot with the spacer into the front foot fixing point.
2. Insert the rear feet (x2) into the foot fixing points.

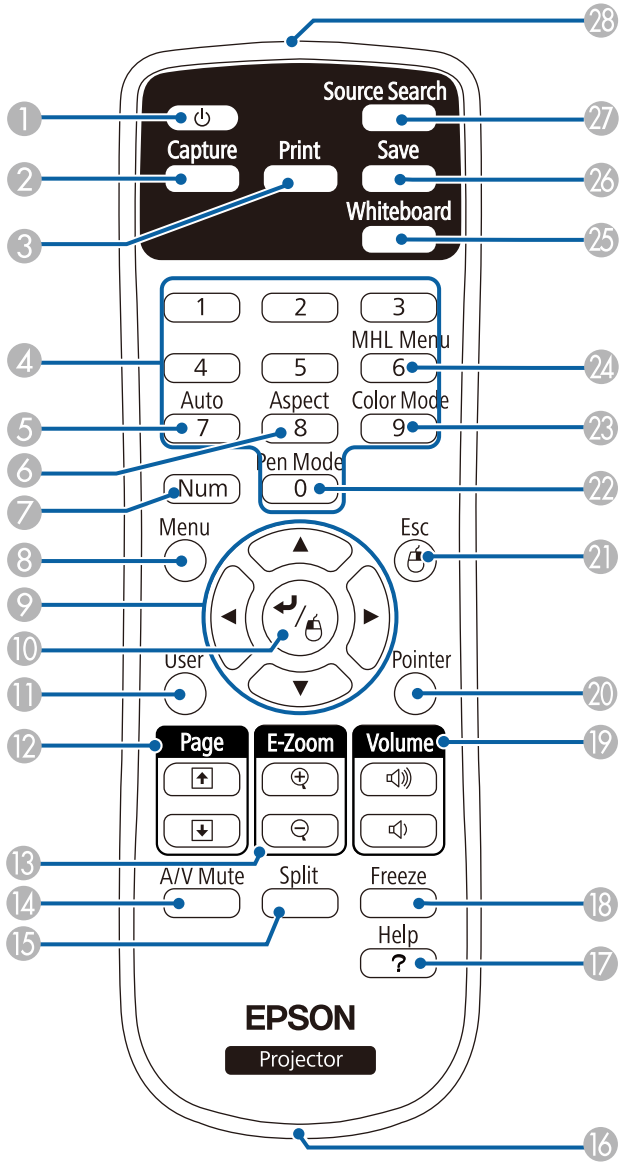
Control Panel



	Name	Function
1	**Indicators**	Indicates the projector's status using color, and by being lit or flashing. ☛ "Reading the Indicators" p.205
2	**[Source Search] button**	Switches to the image from the input port where video signals are being input. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54
3	**[Enter] button** [↵]	• When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. • If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.

	Name	Function
④	[⏢][⏢] button	• Performs keystone correction. ☛ "H/V-Keystone" p.59 • 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.172 ☛ "Using the Help" p.204
⑤	[Help] button	Displays and closes the help screen which shows you how to deal with problems if they occur. ☛ "Using the Help" p.204
⑥	[Esc] button	• Stops the current function. • If pressed when the Configuration menu is displayed, it moves to the previous menu level. ☛ "Using the Configuration Menu" p.172
⑦	[Tele]/[Wide] buttons	• Adjusts the size of the projection screen. Press the [Tele] button to reduce the size of the projection screen and press the [Wide] button to increase the size of the projection screen. • Corrects keystone distortion in the horizontal direction when the Keystone screen is displayed. ☛ "H/V-Keystone" p.59 • 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.172 ☛ "Using the Help" p.204
⑧	[Menu] button	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.172
⑨	[Power] button [⏻]	Turns the projector power on or off. ☛ "From Installation to Projection" p.53

Remote Control



	Name	Function
❶	**[Power] button** [⏻]	Turns the projector power on or off. ☛ "From Installation to Projection" p.53
❷	**[Capture] button**	Takes a snapshot of the projected screen. After taking the snapshot, the image is pasted onto a new page in Whiteboard Mode. (This button cannot be used in Whiteboard Mode.) ☛ "Whiteboard Mode Toolbar" p.86 ☛ "Annotation Mode Bottom Toolbar" p.108
❸	**[Print] button**	Prints the projected screen. ☛ "Printing Drawing Contents in Whiteboard Mode" p.94 ☛ "Printing Drawing Contents in Annotation Mode" p.109
❹	**Numeric buttons**	• Enter the Password. ☛ "Setting Password Protection" p.149 • Use this button to enter numbers in **Network** settings from the Configuration menu.
❺	**[Auto] button**	If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.
❻	**[Aspect] button**	Each time the button is pressed, the aspect mode changes. ☛ "Changing the Aspect Ratio of the Projected Image" p.68
❼	**[Num] button**	Hold down this button and press the numeric buttons to enter passwords and numbers. ☛ "Setting Password Protection" p.149
❽	**[Menu] button**	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.172

	Name	Function
❾	[▲][▼][◀][▶] **button**	• When the Configuration menu or Help screen is displayed, pressing these buttons selects menu items and setting values. ☛ "Using the Configuration Menu" p.172 • When projecting a PC Free, pressing these buttons displays the previous/next image, rotates the image, and so on. ☛ "Projecting Images Stored on a USB Storage Device (PC Free)" p.132 • 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.144
❿	**[Enter] button** [↵]	• When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. ☛ "Using the Configuration Menu" p.172 • 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.144
⓫	**[User] button**	Select any frequently used item from the seven 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.178 **Auto Calibration** is assigned as the default setting.

	Name	Function
⑫	**[Page] buttons [▲][▼]**	Changes pages in files such as PowerPoint files when using the following projection methods. (This button cannot be used in Whiteboard Mode.) • When using the Wireless Mouse function ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.144 • When using USB Display ☛ "Projecting with USB Display" p.55 • When connecting to a network When projecting images using PC Free, pressing these buttons displays the previous/next screen.
⑬	**[E-Zoom] buttons [⊕][⊖]**	Enlarges or reduces the image without changing the projection size. (This button cannot be used in Whiteboard Mode.) ☛ "Enlarging Part of the Image (E-Zoom)" p.143
⑭	**[A/V Mute] button**	• Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.141 • You can change the Projection mode as follows by pressing the button for about five seconds. **Front↔Front/Upside Down** **Rear↔Rear/Upside Down**
⑮	**[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)" p.128
⑯	**Strap attachment hole**	Allows you to attach a commercially available strap to the remote control.
⑰	**[Help] button**	Displays and closes the help screen which shows you how to deal with problems if they occur. ☛ "Using the Help" p.204

	Name	Function
⑱	**[Freeze] button**	Pauses or resumes image playback. ☛ "Freezing the Image (Freeze)" p.141
⑲	**[Volume] buttons [🔈][🔊]**	[🔈] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.66
⑳	**[Pointer] button**	Displays the on-screen pointer. ☛ "Pointer Function (Pointer)" p.142
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.172 • 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.144
㉒	**[Pen Mode] button**	Changes between operating the computer or drawing using the interactive pen. (This button cannot be used in Whiteboard Mode.) ☛ "Interactive Feature Modes" p.72
㉓	**[Color Mode] button**	Each time the button is pressed, the color mode changes. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.67
㉔	**[MHL Menu] button**	Displays the settings menu for the device linked to the projector's MHL port.
㉕	**[Whiteboard] button**	• Press this when the projector is off to turn on the projector and start the interactive features in Whiteboard Mode. • Press this when the projector is on to change to Whiteboard Mode. When pressed during Whiteboard Mode, it switches to the previous input source. ☛ "Starting Whiteboard Mode" p.85

	Name	Function
㉖	**[Save] button**	Saves the projected image to USB storage or a network folder. ☛ "Saving Drawing Contents in Whiteboard Mode" p.93 ☛ "Saving Drawing Contents in Annotation Mode" p.109
㉗	**[Source Search] button**	Switches to the image from the input port where video signals are being input. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54
㉘	**Remote control light-emitting area**	Outputs remote control signals.

Replacing the Remote Control Batteries

If the remote control becomes unresponsive or inoperable after it has been used for some time, the batteries may have reached the end of their service life. When this happens, replace them with new batteries. Obtain two AA size manganese or alkaline batteries. You cannot use other batteries except for the AA size manganese or alkaline.

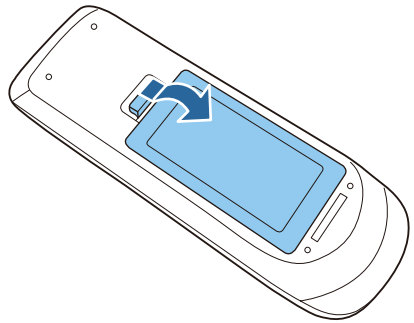
Attention

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

☛ *Safety Instructions*

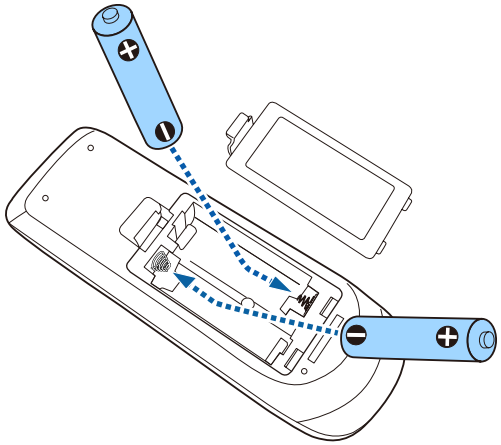
1 Remove the battery cover.

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



2 Replace the old battery with a new battery.

Slide the batteries in negative side first.



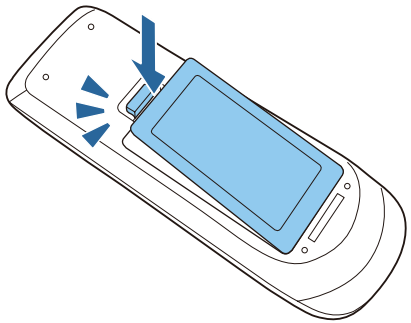
Caution

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

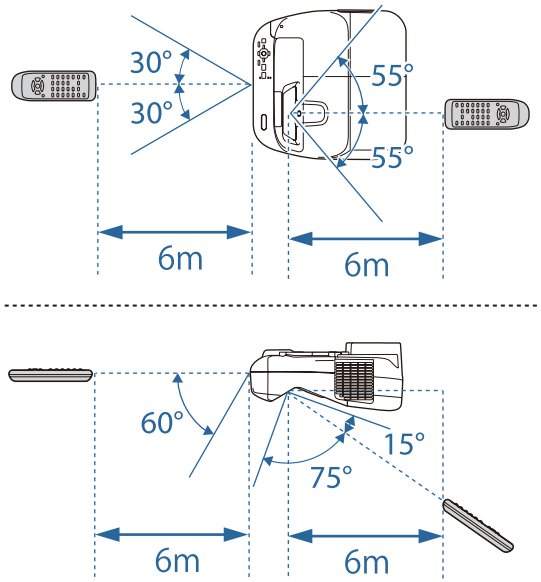
If the batteries are not used correctly, they could explode or leak causing a fire, injury, or damage to the product.

3 Reattach the battery cover.

Press the battery cover until it clicks into place.



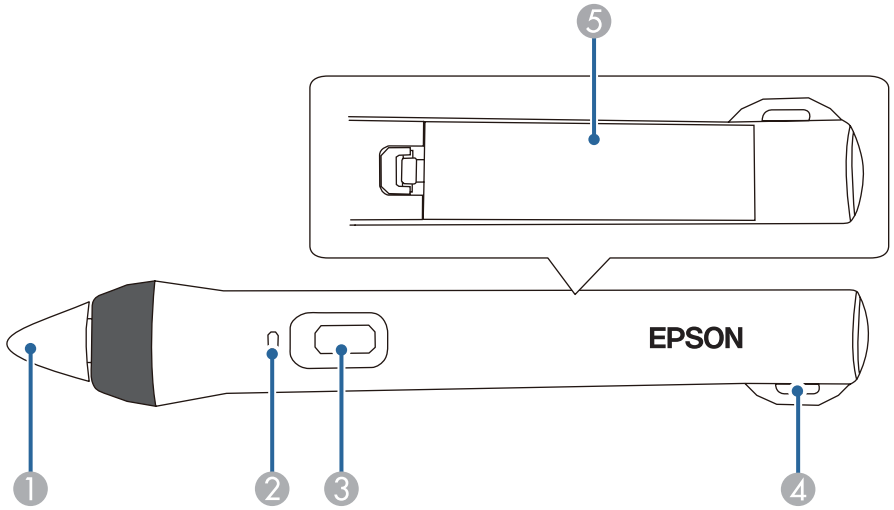
Remote Control Operating Range



Interactive Pen

There are two types of interactive pens with different colored bottom sections. You cannot use interactive pens with the same colored bottom sections at the same time.

☛ "Using the Interactive Pens" p.74



	Name	Function
1	**Pen tip**	• Press the pen tip to turn on the interactive pen. When turned on, it takes approximately one second before the interactive pen is operational. • Hold the pen close to the projected screen, and press to use. ☛ "Using the Interactive Features" p.71 ☛ "Optional Accessories" p.242
2	**Battery light**	Press the button on the side of the pen to indicate the remaining battery power. • When the battery is charged, the light is lit green until you release the button. • When the battery is running low, the light flashes green until you release the button. • Does not light when the battery is exhausted. Change the battery. ☛ "Replacing the Battery for the Interactive Pen" p.22
3	**Button**	• Press the button on the side of the pen to turn on the interactive pen. When turned on, it takes approximately one second before the interactive pen is operational. • Press the button to switch the tip function between pen and eraser while drawing. You can change the button operation settings in **Pen Button Function** from the Configuration menu. ☛ **Extended** - **Easy Interactive Function** - **Advanced** - **Pen Button Function** p.179 • Press the button to perform a right-click operation while using the pen as a mouse.
4	**Attachment for optional strap or cord**	Allows you to attach a commercially available strap.
5	**Battery cover**	Open this cover when replacing the battery. ☛ "Replacing the Battery for the Interactive Pen" p.22

The interactive pen turns off automatically after 20 minutes of inactivity.

To use the pen again, tap the pen tip or press the button on the side to turn on the power.

Replacing the Battery for the Interactive Pen

When you press the button, the battery light on the interactive pen lights or flashes. Does not light or flash when the battery is exhausted. When the light no longer lights or flashes, replace the battery. Use one of the following types of battery. Other chargeable batteries cannot be used.

- AA size manganese battery
- AA size alkaline manganese battery
- eneloop®*(HR-3UTG/HR-3UTGA/HR-3UTGB/BK-3MCC)

* eneloop® is a registered trademark of the Panasonic Group.

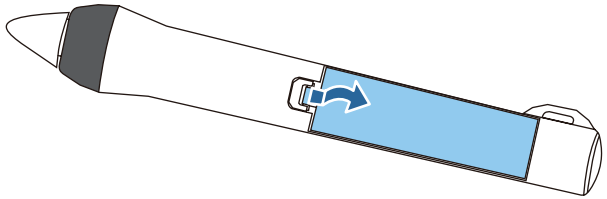
Attention

Make sure you read the following manual before handling batteries.

☛ *Safety Instructions*

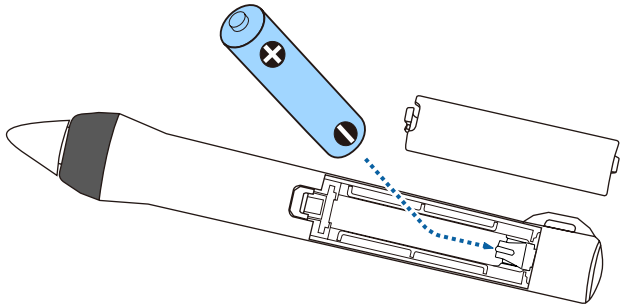
1 Remove the battery cover.

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



2 Replace the old battery with a new battery.

Slide the batteries in negative side first.



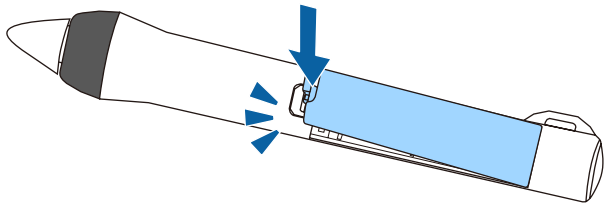
Caution

Check the positions of the (+) and (-) marks inside the battery holder to ensure the battery is 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 cover until it clicks into place.

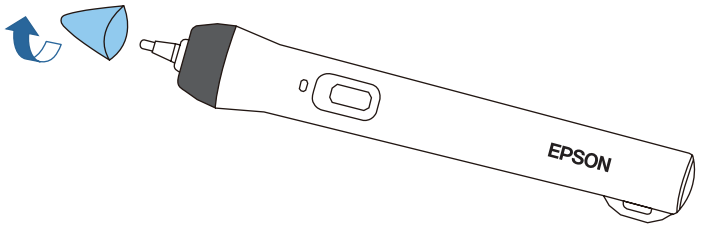


Replacing the Tip of the Interactive Pen

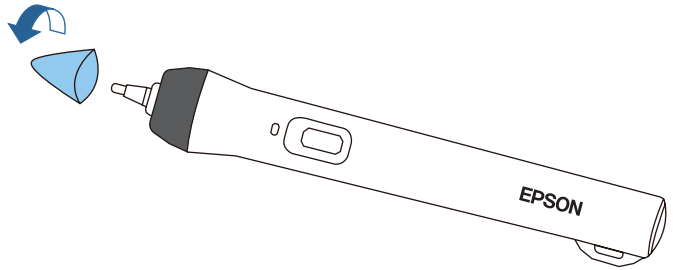
Replace the tip of the interactive pen when it is worn.

☛ "Optional Accessories" p.242

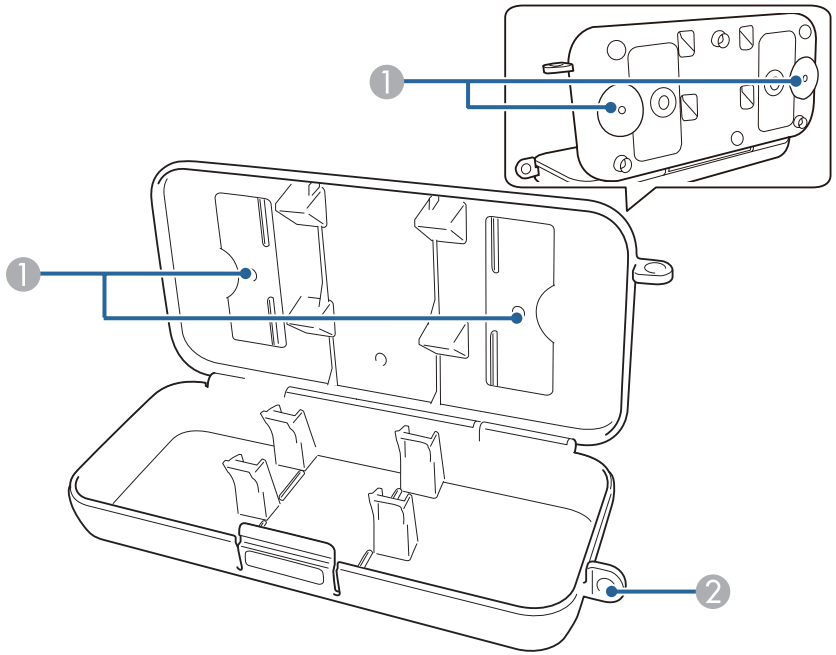
1 Turn the tip of the pen to remove it.



2 Turn the new tip to attach it.



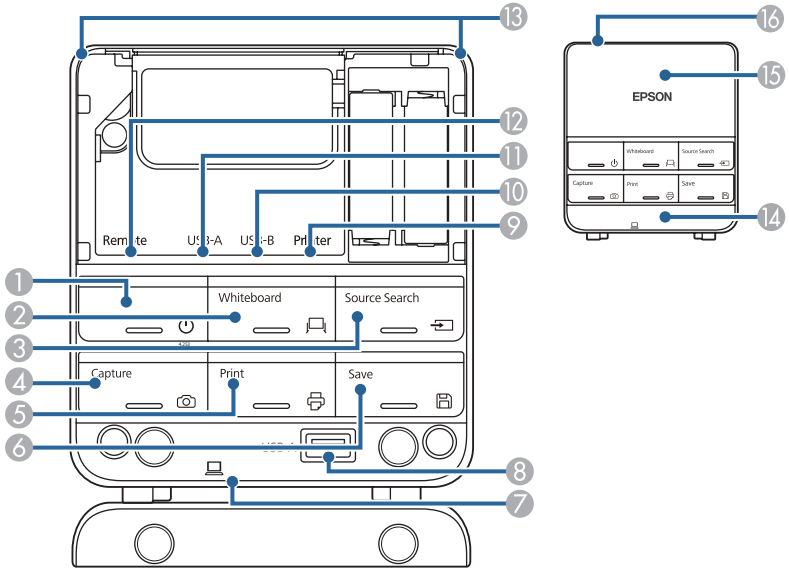
Pen Tray



Name		Function
1	**Fixing points**	Attach the pen tray to a whiteboard or wall.
2	**Security hole**	Pass a commercially available lock through here.

It is recommended that the pen tray be tightened with two commercially available M5 bolts.

Control Pad



Name		Function
1	**[Power] button [⏻]**	Turns the projector power on or off. ☛ "From Installation to Projection" p.53
2	**[Whiteboard] button**	• Press this when the projector is off to turn on the projector and start the interactive features in Whiteboard Mode. • Press this when the projector is on to change to Whiteboard Mode. When pressed during Whiteboard Mode, it switches to the previous input source. ☛ "Starting Whiteboard Mode" p.85
3	**[Source Search] button**	Switches to the image from the input port where video signals are being input. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54

	Name	Function
④	[Capture] button	Takes a snapshot of the projected screen. After taking the snapshot, the image is pasted onto a new page in Whiteboard Mode. (This button cannot be used in Whiteboard Mode.) ☛ "Using the Interactive Features" p.71
⑤	[Print] button	Prints the projected screen. ☛ "Printing Drawing Contents in Whiteboard Mode" p.94 ☛ "Printing Drawing Contents in Annotation Mode" p.109
⑥	[Save] button	Saves the projected image to USB storage or a network folder. ☛ "Saving Drawing Contents in Whiteboard Mode" p.93 ☛ "Saving Drawing Contents in Annotation Mode" p.109
⑦	USB-B port (for connecting a computer)	Connects to a computer via a USB cable to use the interactive features or USB Display. ☛ "Connecting to the Control Pad" p.48
⑧	USB-A port (for connecting USB storage)	Connects a USB storage device. ☛ "Connecting to the Control Pad" p.48
⑨	USB-A port (for connecting a printer)	Connects to a printer via a USB cable. ☛ "Connecting to the Control Pad" p.48
⑩	USB-B port (for connecting a projector)	Connects to the projector via a USB cable when a USB storage device or printer is connected to the Control Pad. ☛ "Connecting to the Control Pad" p.48
⑪	USB-A port (for connecting a projector)	Connects to a projector via a USB cable to use the interactive features or USB Display. ☛ "Connecting to the Control Pad" p.48

	Name	Function
⑫	Remote port	When the Control Pad is connected to the projector using the optional remote control cable set, power is supplied from the projector. When not connected using the remote control cable set, power is supplied by the batteries. Projector operations are performed using infrared signals.
⑬	Remote control light-emitting area	Outputs remote control signals.
⑭	Bottom cover	Open to connect a USB storage device.
⑮	Top cover	Open to connect cables and replace the batteries.
⑯	Cable cover	Open this cover when cables are wired along a wall.

Replacing the Batteries for the Control Pad

If the Control Pad becomes unresponsive or inoperable after it has been used for some time, the batteries may have reached the end of their service life. When this happens, replace them with new batteries. Obtain two AA size manganese or alkaline batteries. We recommend using alkaline batteries to power the Control Pad. You cannot use other batteries except for the AA size manganese or alkaline.

Attention

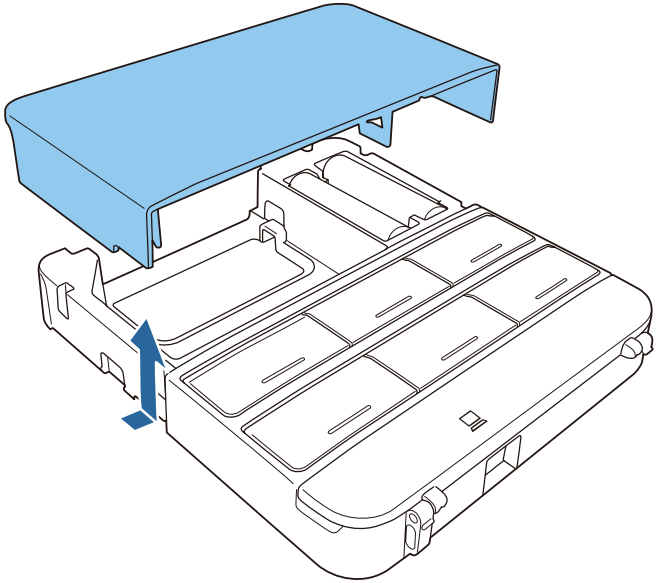
Make sure you read the following manual before handling the batteries.

☛ *Safety Instructions*

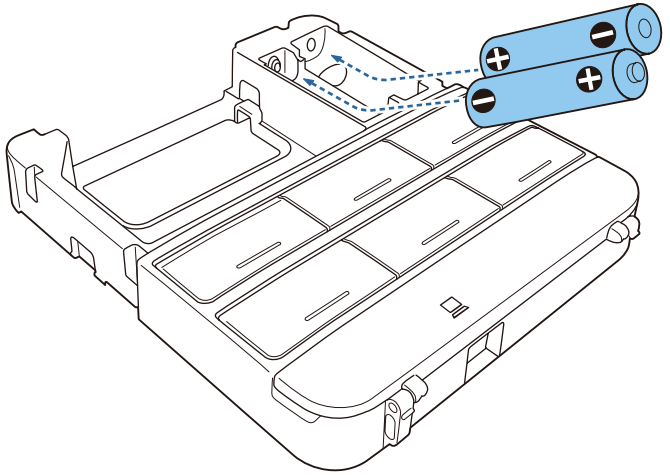
Because power is supplied to the Control Pad when it is connected to the projector with the remote control cable set, you do not need batteries.

1 Remove the top cover.

Place your finger into the groove on the top cover, and then lift it up and out.



2 Replace the old batteries with new batteries.

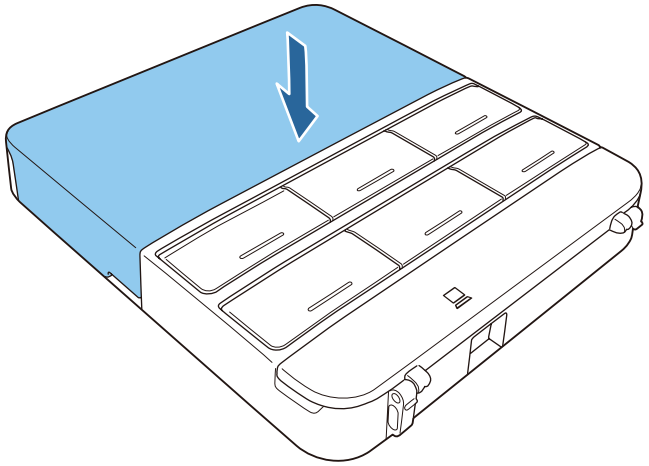


Caution

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

3 Replace the top cover.

Press the battery cover until it clicks into place.

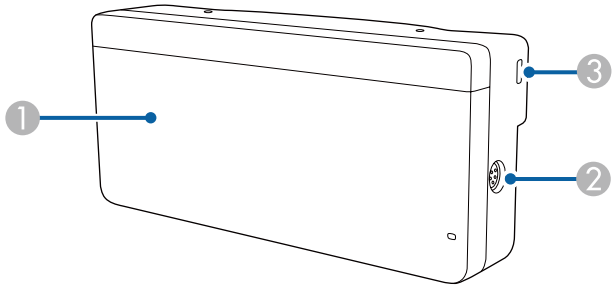


See the following for the operating range for the Control Pad.

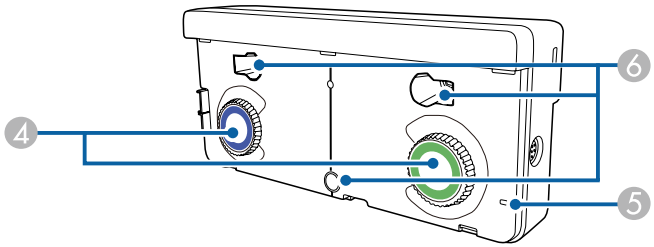
☛ *Installation Guide*

Touch Unit (EB-1430Wi only)

Front

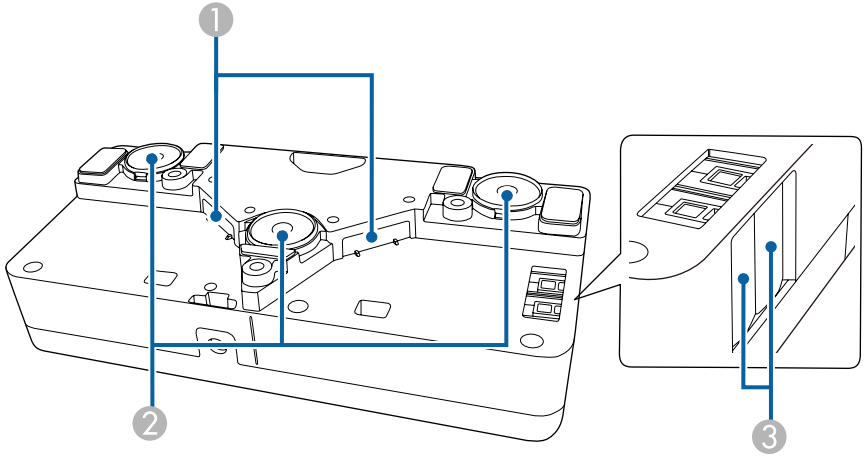


When the dial cover is not attached



	Name	Function
1	**Dial cover**	Remove to use the adjustment dials.
2	**TCH port**	Connects the projector to the Touch Unit with the Touch Unit connection cable.
3	**Security slot**	The security slot is compatible with the Microsaver Security System manufactured by Kensington.
4	**Adjustment dials**	Performs angle adjustments.
5	**Indicator**	Lit when the Touch Unit is turned on.
6	**Screw holes (for installation)**	The screw holes for securing the Touch Unit with M4 screws (only when installing on a non-magnetic surface).

Rear



	Name	Function
1	**Laser diffusion port**	Diffuses laser light to detect the position of fingers.
2	**Installation magnet**	Magnet used for installation.
3	**Marker**	Place the markers on the screen when performing angle adjustment.

Warning

- Follow the steps in the *Installation Guide* to install the Touch Unit. If this is not installed correctly, it could cause damage to your eyes due to the powerful light emitted.
- Do not use the Touch Unit near medical equipment such as pace makers. Furthermore, when using the Touch Unit, make sure there is no medical equipment such as pace makers, in the surrounding area. Electromagnetic interference may cause medical equipment to malfunction.

Caution

- Do not use the Touch Unit near magnetic storage media such as magnetic cards, or precision electronic devices such as computers, digital watches, or cell phones. Data could be corrupted or a malfunction could occur.
- When installing the Touch Unit on a magnetic surface, be careful not to trap your fingers or any other part of your body between the magnet and the installation surface.

Attention

- Do not connect the Touch Unit to any devices except for EB-1430Wi. The device could malfunction, or laser light could leak beyond the limit.
- Make sure you use the supplied Touch Unit connection cable. Operations are not possible with a commercially available cable.
- When disposing of the Touch Unit, do not disassemble it. Dispose according to your local or national laws and regulations.

See the *Installation Guide* for the Touch Unit installation methods and angle adjustment methods.

☛ *Installation Guide*

Preparing the Projector

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

Installation Methods

The projector supports the following six different installation methods. Install the projector according to the installation location.

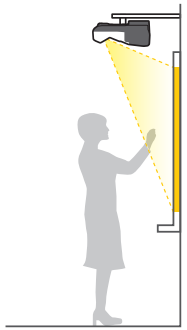
Turn the projector off when installing the projector or changing the installation method. Turn the power back on after completing installation.

Warning

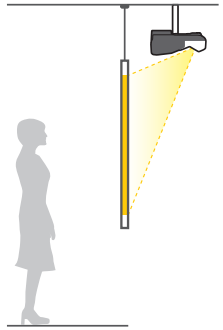
- A special method of installation is required when suspending the projector from a wall or ceiling. If it is not installed correctly, it could fall causing an accident and injury.
- If you use adhesives on the wall mount plate fixing points or the ceiling mount fixing points to prevent the screws from 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 mount. This could cause serious injury to anyone under the mount and could damage the projector.
  When installing or adjusting the mount, do not use adhesives to prevent the screws from loosening and do not use lubricant or oil 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.
- Do not use the projector in a location subject to combustible or explosive gas. The projector may catch fire because of the high temperature of the lamp inside the projector.

- We recommend using a smooth, board type screen without any unevenness. If the projection screen is uneven, there may be distortions in the projected image.
- Distortions may occur in the projected image depending on the material of the screen and the installation method.
- When mounting the projector on a wall or ceiling, or placing the projector vertically, make sure you use the correct tools for the installation method.
  ☛ "Optional Accessories" p.242
- The default Projection setting is **Front/Upside Down**. You can change to other Projection settings from the Configuration menu.
  ☛ **Extended** - **Projection** p.179
- You can change the Projection setting as follows by pressing down the [A/V Mute] button on the remote control for about five seconds.
  Front↔Front/Upside Down
  Rear↔Rear/Upside Down

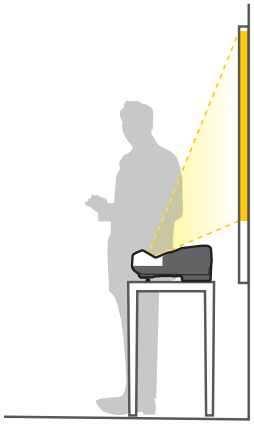
- Mount the projector on a wall or ceiling and project images from in front of a screen. (Front/Upside Down projection)



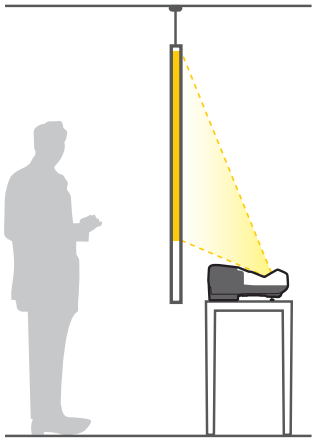
- Mount the projector on a wall or ceiling and project images from behind a translucent screen. (Rear/Upside Down projection)



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



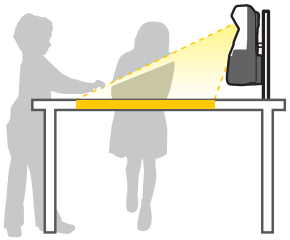
- Project images from behind a translucent screen. (Rear projection)



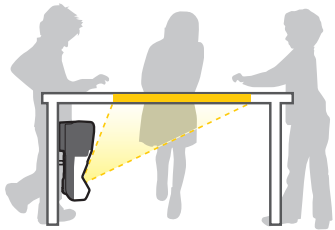
Attach the feet when using the projector on a surface such as a desk.

☛ "Attaching the Feet (Only Models with Feet Supplied)" p.15

- Place the projector vertically and project images from in front of the screen. (Front/Upside Down projection)



- Place the projector vertically and project images from behind the screen (Rear/Upside Down projection)



When Using the Interactive Features

Project from in front of the screen when using the interactive features. Set the projection mode to **Front/Upside Down** or **Front**.

Attention

The interactive features operates by infrared communication. Note the following points when installing the projector.

- Make sure there is no strong light or sunlight shining on the Easy Interactive Function receiver, the projection screen, the projector itself, or the rear of the projector.
- Do not install the projector in direct sunlight through a window. This could cause the interactive features to malfunction.
- Install the projector so that the Easy Interactive Function receiver is not too close to fluorescent lights. If the surrounding area is too bright, the interactive features may not operate correctly.
- If there is any dust stuck to the Easy Interactive Function receiver, it could interfere with infrared communication and you may not be able to use the features normally. Clean the receiver if it is dirty.

  ☛ "Cleaning" p.230
- Do not put paint or any stickers on the cover of the Easy Interactive Function receiver.
- When using the interactive features, do not use an infrared remote control or microphone in the same room. The interactive pen could malfunction.
- Do not use devices that generate powerful noise, such as rotary devices or transformers, near the projector. You may not be able to operate the interactive features.

- When using the interactive features, install so that the projected screen is a rectangle without any distortion.
- When using the interactive features in the same room as multiple projectors, interactive pen operations may become unstable. In this situation, connect the optional remote control cable set (ELPKC28) to the projectors, and change **Sync of Projectors** to **Wired** from the Configuration menu.

☛ **Extended - Easy Interactive Function - Advanced - Sync of Projectors** p.179

Setting Up the Touch Unit (EB-1430Wi only)

When using the Touch Unit, install the projector using one of the following methods. The Touch Unit cannot be used if another installation method is used.

- Mount the projector on a wall or suspend it from a ceiling and project images from in front of the screen
- Install vertically on a desk and project from the front of the desk (the optional interactive table mount (ELPMB29) is required)

☛ "Optional Accessories" p.242

This chapter explains how to connect the projector to peripheral devices.

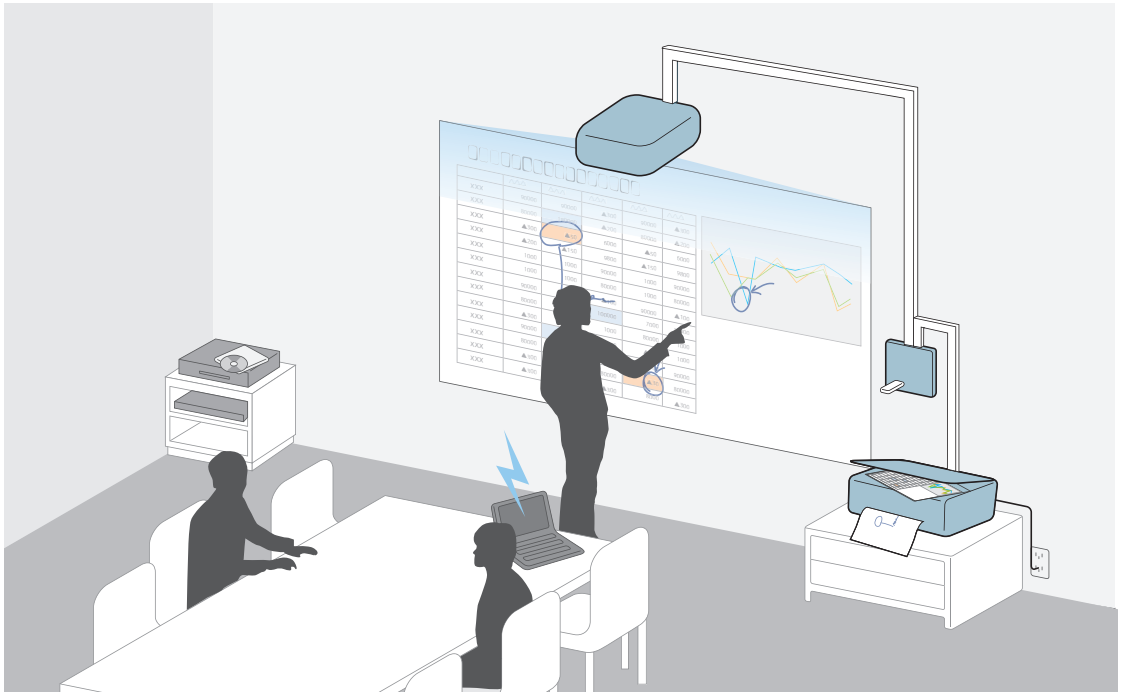
You can connect peripheral devices directly to the projector or through the Control Pad.

When connecting a USB cable or USB storage, you can connect using the Control Pad.

☛ "Connecting to the Control Pad" p.48

When connecting devices except for USB cables or USB storage devices, connect directly to the projector.

☛ "Connecting to the Projector" p.35



Attention

If you use a USB hub, operation may not be performed correctly. Connect directly to the projector or the Control Pad.

- You can connect to the network by wired or wireless communication.
  To connect to the network using a cable, connect a LAN cable to the projector.
  ☛ "Connecting a LAN Cable" p.44
  To connect to the network wirelessly, install the wireless LAN unit on the projector.
  ☛ "Installing the Wireless LAN Unit" p.45
- The port name, location, and connector orientation differ depending on the source being connected.

Connecting to the Projector

This section explains how to connect peripheral devices directly to the projector.

Connecting a Computer

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

❶ **When using the optional 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 Audio1 port using a commercially available audio cable.

❷ **When using the supplied USB cable**

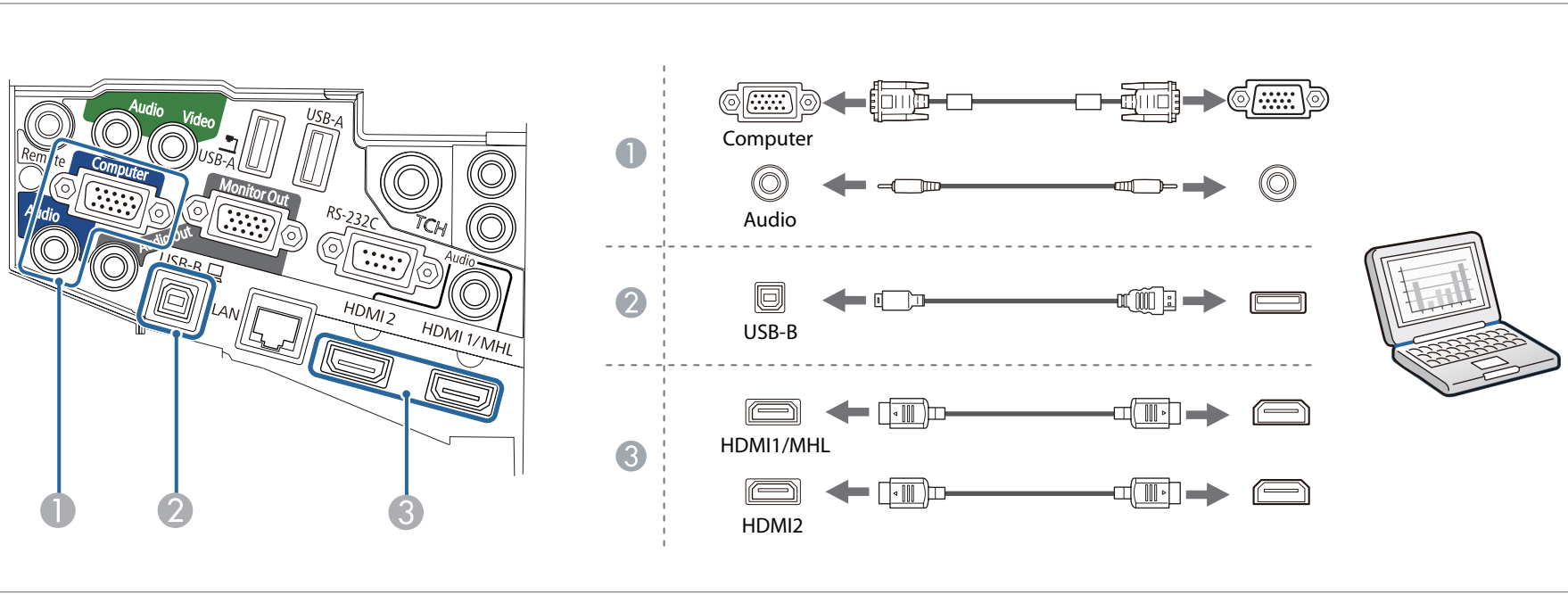
Connect the computer's USB port to the projector's USB-B port.

Audio from the computer is output from the projector with the projected image.

❸ **When using a commercially available HDMI cable**

Connect the computer's HDMI port to the projector's HDMI1/MHL or HDMI2 port.

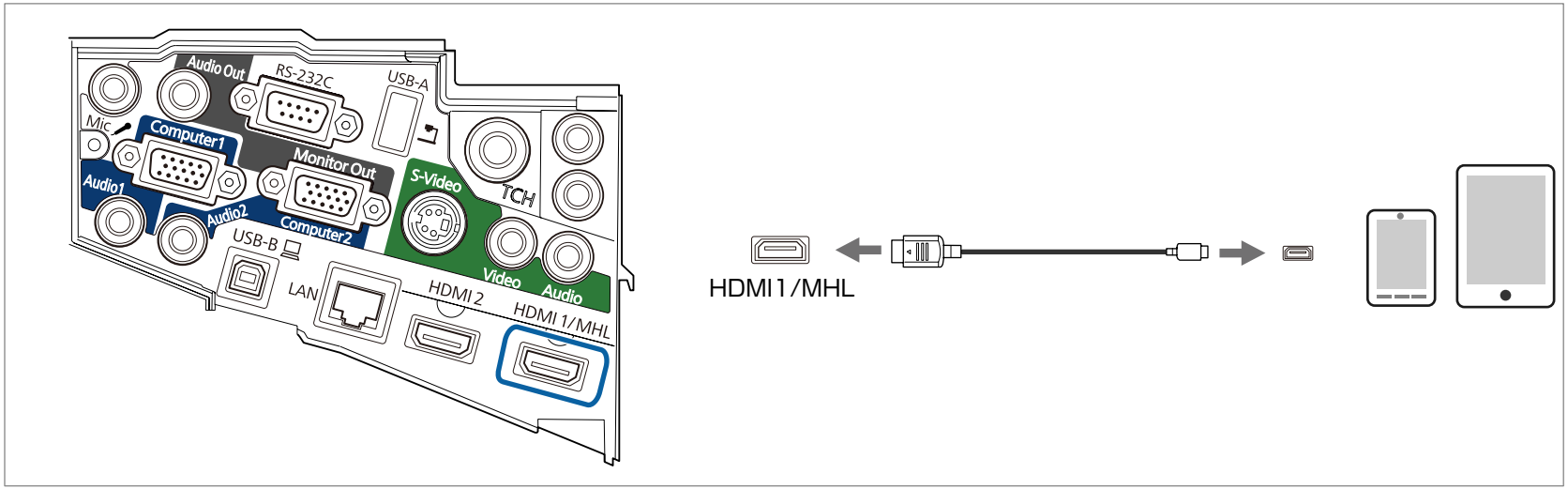
Audio from the computer is output from the projector with the projected image.



- When connecting to the Audio1, Audio Out, and Computer port, we recommend connecting cables to the ports in the following order: Audio1, Audio Out and then Computer port.
- You can also set the port used for audio input from the Configuration menu.
  ☛ **Extended** - **A/V Settings** - **Audio Output** p.179
- If audio is not output when an HDMI cable is connected, connect a commercially available audio cable to the Audio Input port. After connecting the cable, select the input port you connected to from **HDMI1 Audio Output** or **HDMI2 Audio Output** from the Configuration menu.
  ☛ **Extended** - **A/V Settings** - **HDMI1 Audio Output/HDMI2 Audio Output** p.179
- You can use a USB cable to connect the projector to a computer to project images from the computer. This function is called USB Display.
  ☛ "Projecting with USB Display" p.55

Connecting a Smartphone or Tablet Device

You can connect smartphones and tablet devices. By using a commercially available MHL cable, you can connect the MHL port on your device to the HDMI1/MHL port on the projector. You can send the audio with the projected image.



When you connect a smartphone or tablet device to the projector, the device starts charging when images are projected.

Attention

- You may not be able to connect an MHL cable to all devices.
- Make sure the connection cable supports the MHL standards. If you connect a cable that does not support the MHL standards, the smartphone or tablet device may become hot, leak, or explode.
- If you connect using a commercially available MHL-HDMI conversion adapter, charging the smartphone or tablet device may not work or you may not be able to perform operations from the projector's remote control.

- If images are not projected correctly, disconnect and then reconnect the MHL cable.
- You may not be able to project correctly depending on the model and settings of the smartphone or tablet device.

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 using a commercially available video cable.

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

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

   ☛ "Optional Accessories and Consumables" p.242

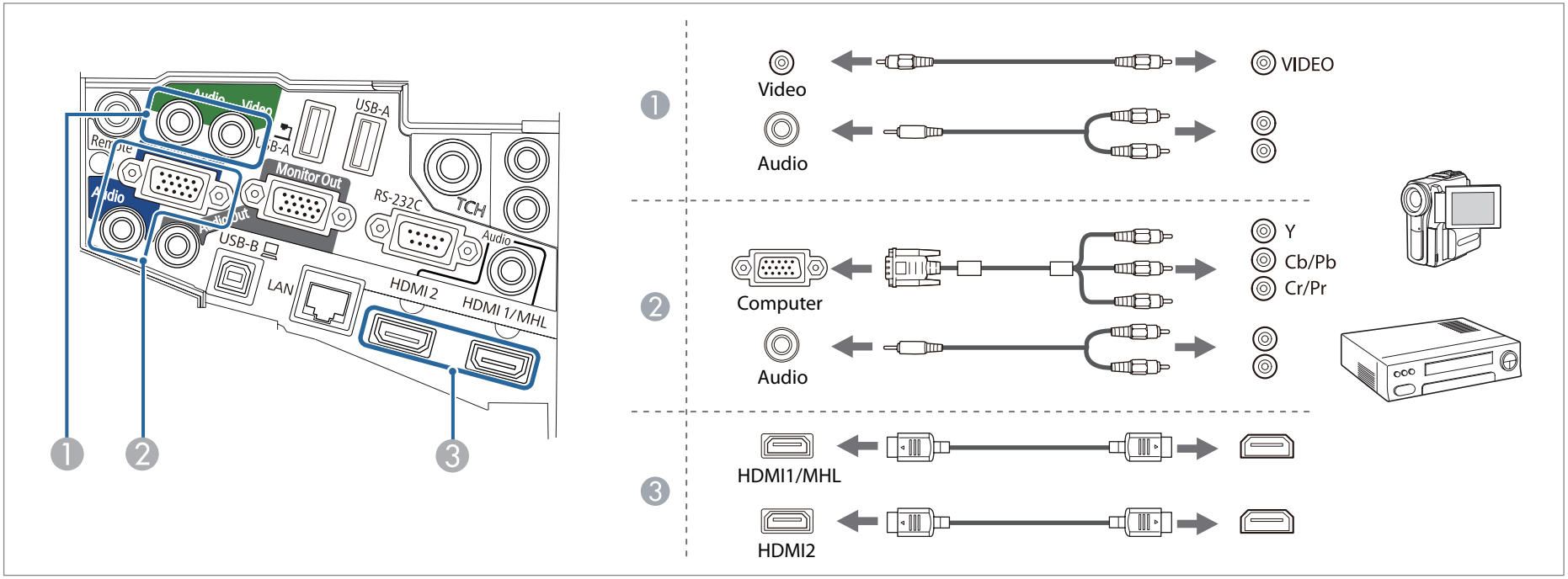
   Connect the component output port on the image source to the projector's Computer port.

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

3. **When using a commercially available HDMI cable**

   Connect the image source's HDMI port to the projector's HDMI1/MHL or HDMI2 port.

   Audio from the image source is output from the projector with the projected image.



Attention

- Turn off the equipment you want to connect before connecting. 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.

- You can also set the port used for audio input from the Configuration menu.
  ☛ **Extended** - **A/V Settings** - **Audio Output** p.179
- If audio is not output when an HDMI cable is connected, connect a commercially available audio cable to the Audio Input port. After connecting the cable, select the input port you connected to from **HDMI1 Audio Output** or **HDMI2 Audio Output** from the Configuration menu.
  ☛ **Extended** - **A/V Settings** - **HDMI1 Audio Output/HDMI2 Audio Output** p.179
- 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.

1. **When using the optional Document Camera**

   Connect the Document Camera to the projector's port with the USB cable supplied with the Document Camera.

2. **When using a USB device such as a USB memory or digital camera**

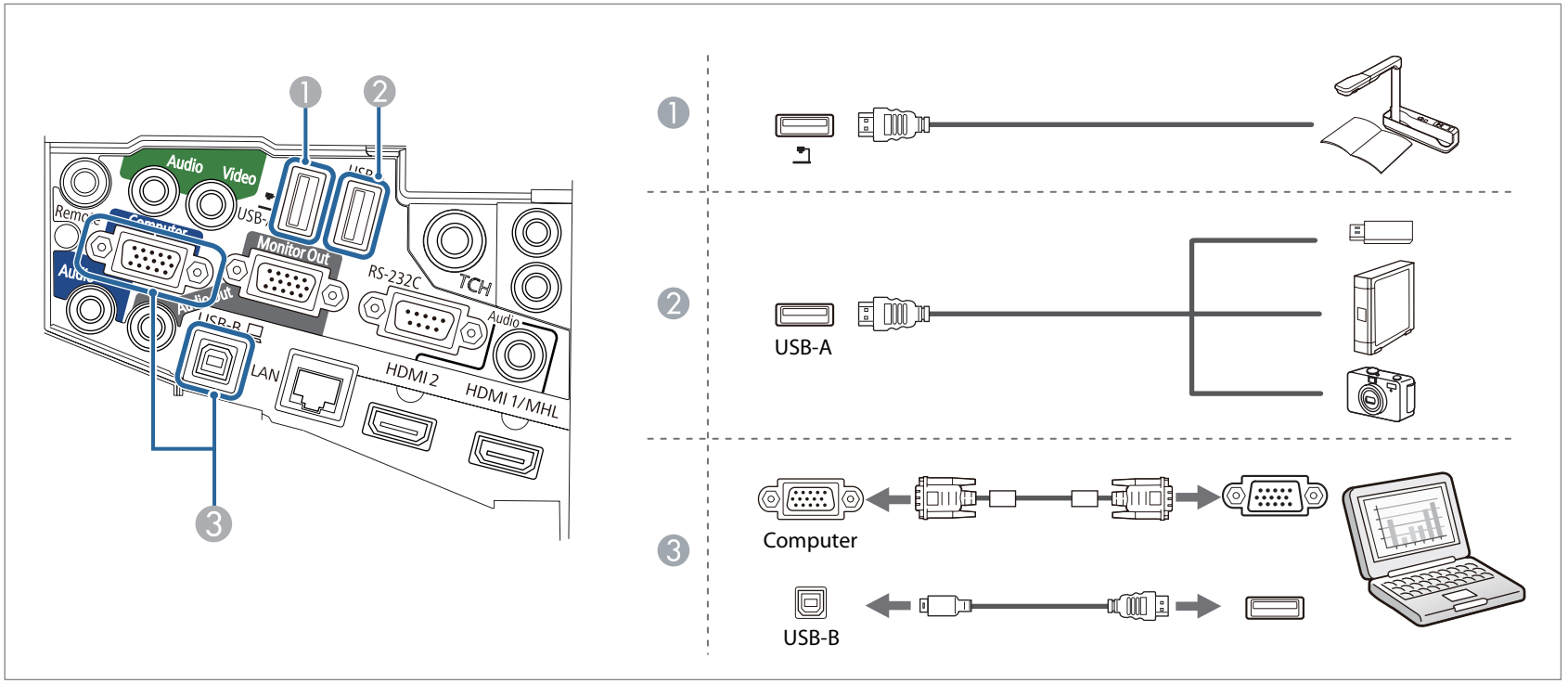
   Connect the USB device to the projector's USB-A port.

3. **When using PC interactive for the interactive features**

   ☛ "Using the Interactive Features" p.71

   Connect the computer's display output port to the projector's Computer port using the computer cable.

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



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

☛ "Projecting Images Stored on a USB Storage Device (PC Free)" p.132

If the Document Camera is connected while projecting images from another input port, press the [Source Search] button on the remote control, control panel, or the Control Pad, to switch to images from the Document Camera.

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54



While projecting images from a Document Camera, if you want to connect an audio output device, connect it to the Audio1 port.

Attention

- If you are using a USB hub, operations may not be performed 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, PC Free may not function correctly.

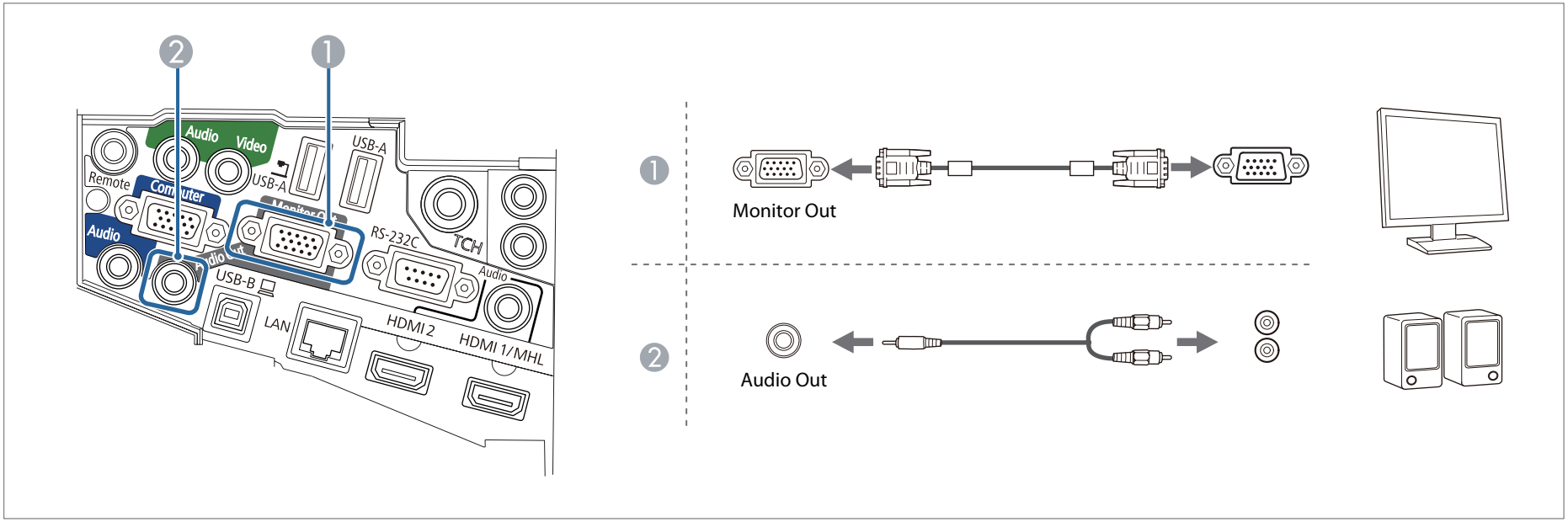
Removing USB devices

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

Connecting External Equipment

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

1. **When outputting images to an external monitor**
   Connect the external monitor to the projector's Monitor Out port using the cable supplied with the external monitor.
2. **When outputting audio to an external speaker**
   Connect the external speaker to the projector's Audio Out port using a commercially available audio cable.



- When **Standby Mode** is set to **Communication On**, you can perform the following operations even when the projector is off (only when **A/V Output** is set to **Always On**).
  - Output images to an external monitor
  - Output audio from an external speaker (audio being input from the USB-B and LAN ports cannot be output)

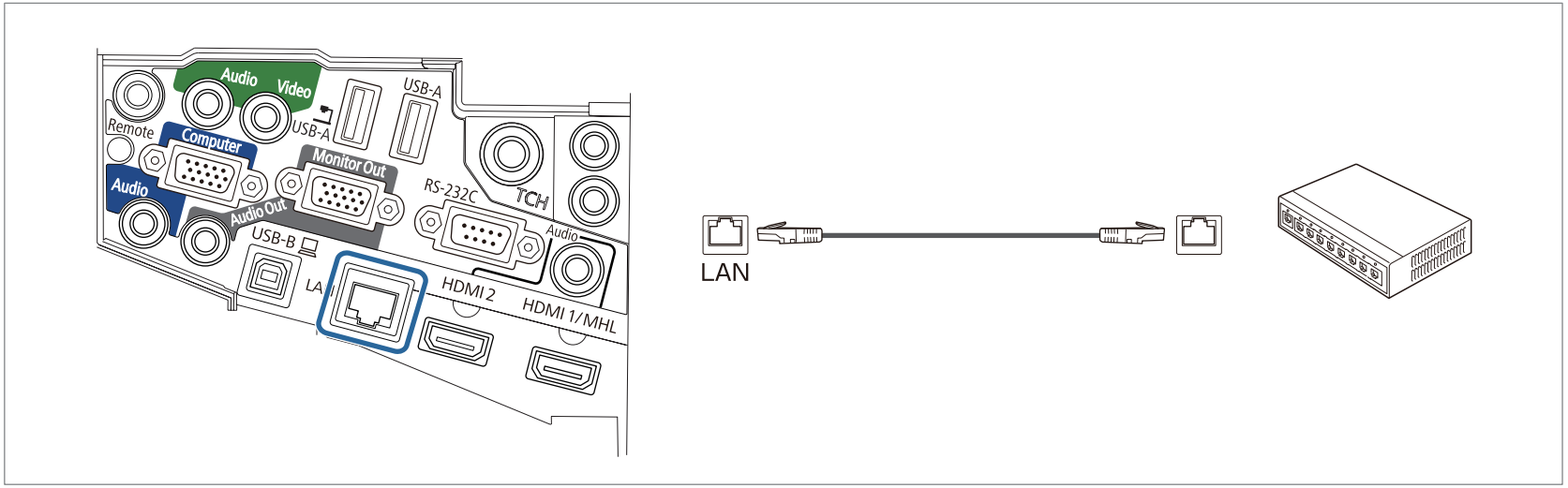
  ☛ **ECO** - **Standby Mode** p.199

  ☛ **Extended** - **A/V Settings** - **A/V Output** p.179
- Only analog RGB signals from the Computer port can be output to an external monitor. You cannot output signals input from other ports or component video signals.
- Content drawn using the interactive features is not displayed on an external monitor. Content drawn using the supplied Easy Interactive Tools can be displayed on an external monitor.
- Setting gauges for functions such as Keystone, Configuration menu, or Help screens are not output to the external monitor.
- When the audio cable jack is inserted into the Audio Out port, audio stops being output from the projector's built-in speaker and switches to external output.

Connecting a LAN Cable

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

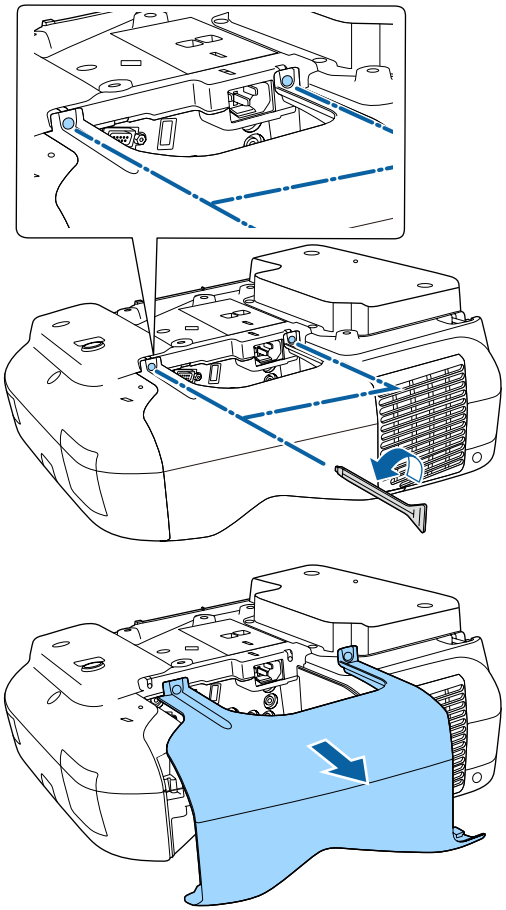
By connecting a computer to the projector over a network, you can project images and check the status of the projector.



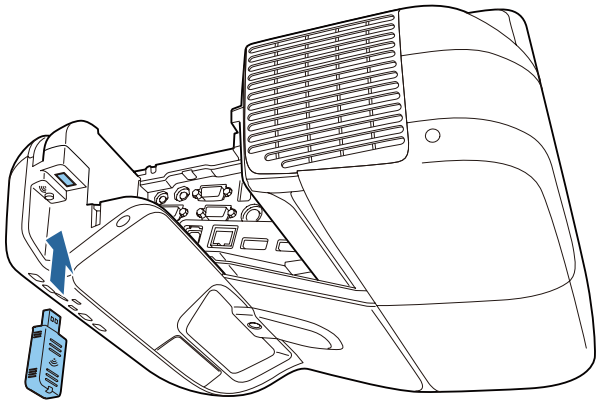
To prevent malfunctions, use a category 5 shielded LAN cable.

Installing the Wireless LAN Unit

1 Remove both of the cable cover fixing screws to open the cable cover.

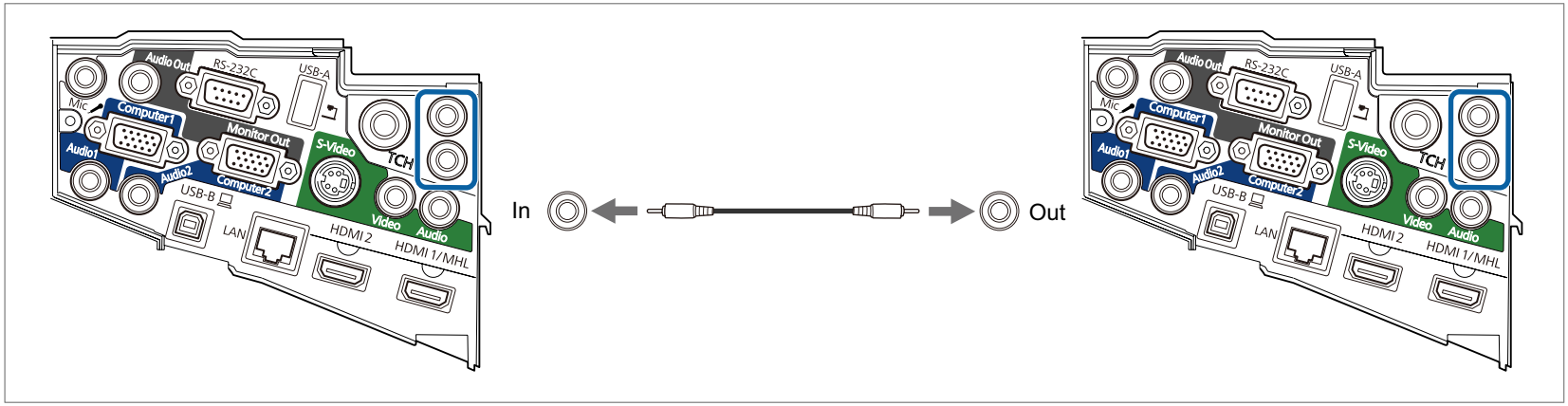


2 Connect the Wireless LAN unit to the wireless LAN unit installation section.



Connecting Multiple Projectors

When using the interactive features in the same room as multiple versions of the same projector, you need to connect the optional remote control cable set (ELPKC28) to the SYNC port on each projector. Interactive pen operations are stabilized by linking the projectors using cables.

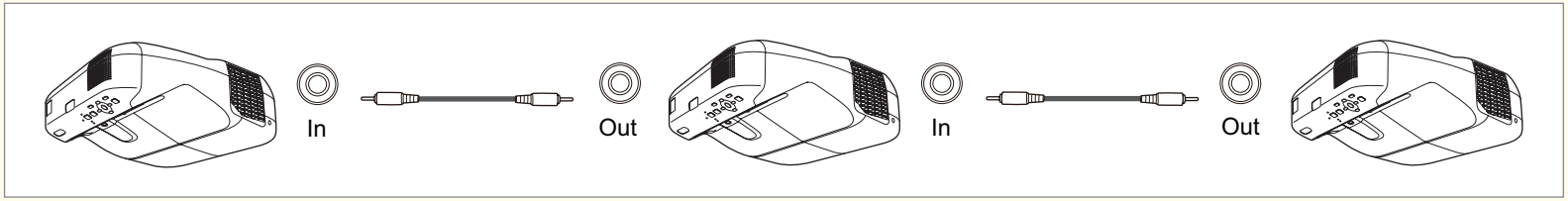


The SYNC port has an IN and OUT socket. When you connect one end of the remote control cable set to an IN socket, connect the other end to an OUT socket.

After connecting the cables, set **Sync of Projectors** to **Wired** from the Configuration menu.

☛ **Extended** - **Easy Interactive Function** - **Advanced** - **Sync of Projectors** p.179

- When connecting three or more projectors, you do not need to connect the first projector to the last projector.



- When using the projector in the same room as another projector that does not support cable connection, set **Wired Sync Mode** to **Mode 2** from the Configuration menu.

☛ **Extended** - **Easy Interactive Function** - **Advanced** - **Wired Sync Mode** p.179

- If you do not have the optional remote control cable set, change the **Distance of Projectors** setting from the Configuration menu.

☛ **Extended** - **Easy Interactive Function** - **Advanced** - **Distance of Projectors** p.179

Connecting to the Control Pad

This section explains how to connect peripheral devices to the projector using the Control Pad.

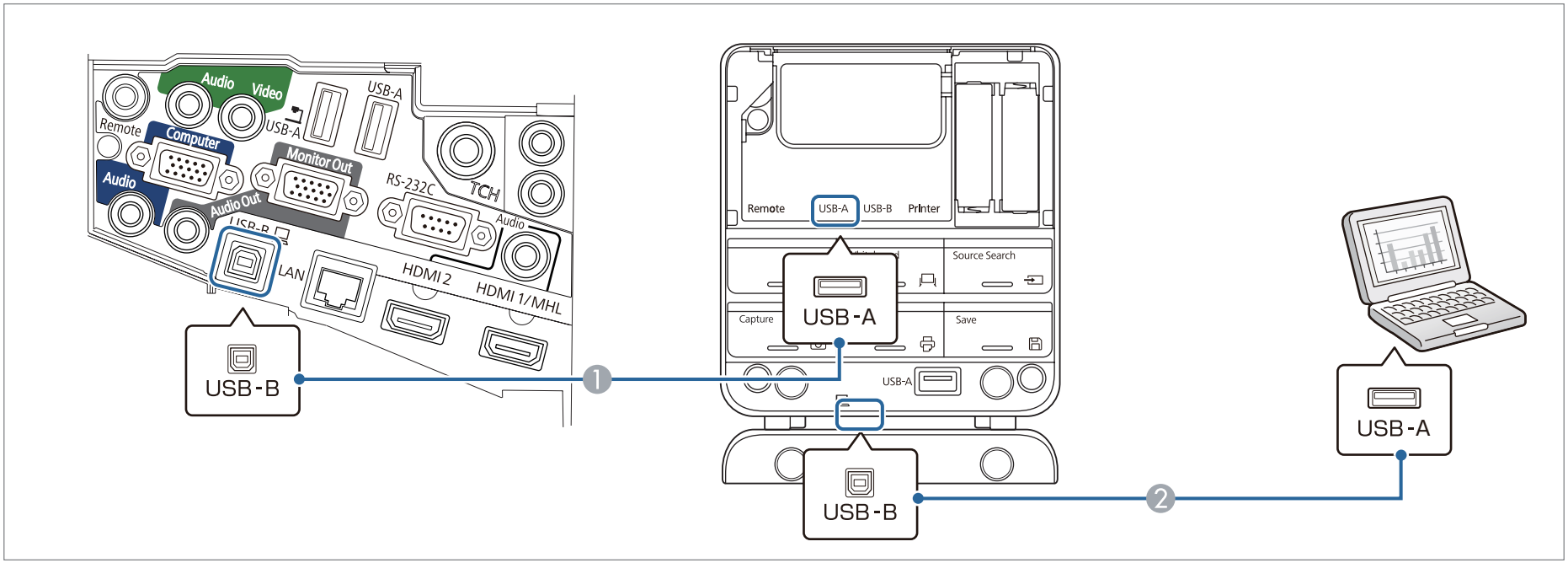
Connections when Projecting with USB Display and when Performing Mouse Operations Using the Interactive Feature

The **USB Type B** settings in the Configuration menu differ depending on the functions you want to use. See the following for more information on each setting.

☛ "Projecting with USB Display" p.55

☛ "Control Computer Features from a Projected Screen (Computer Interactive Mode)" p.111

1. Connect the projector's USB-B port to the Control Pad's USB-A port using a USB cable.
2. Connect the Control Pad's USB-B port to the computer's USB-A port using a USB cable.



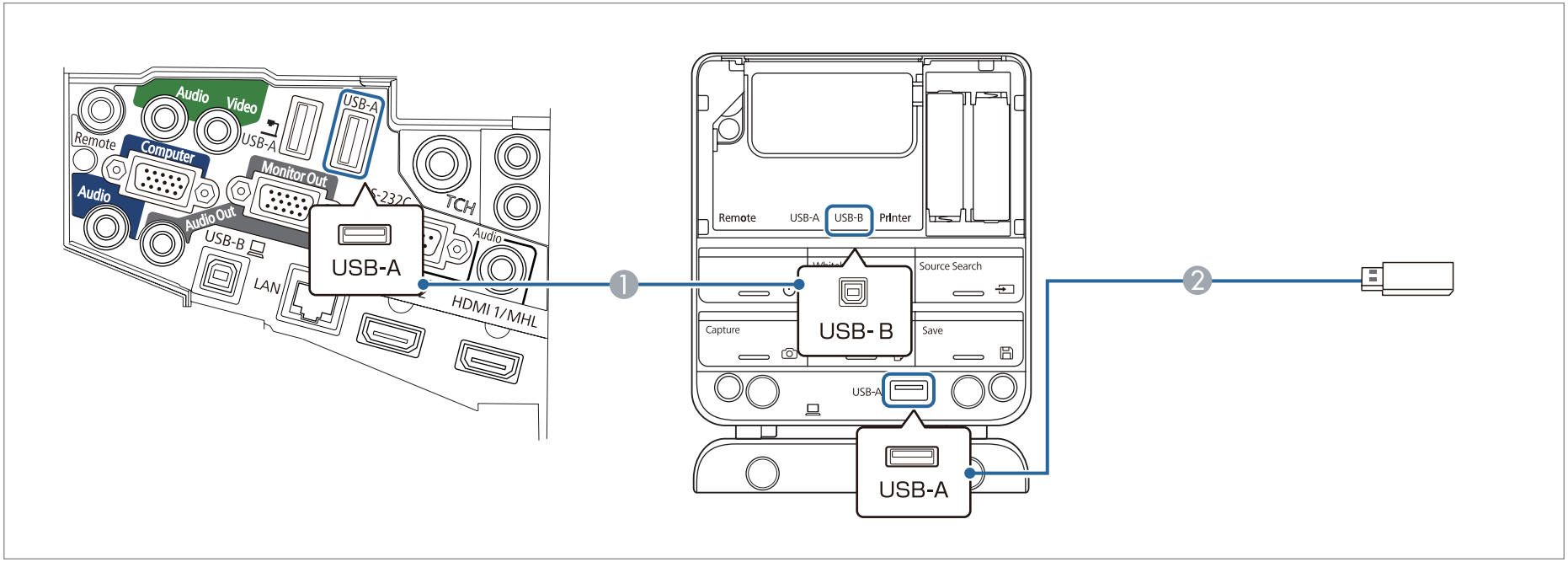
When performing mouse operations using the interactive feature and projecting using a computer cable, connect the projector to the computer with the optional computer cable.

☛ "Connecting a Computer" p.35

Connecting Using PC Free

☛ "Projecting Images Stored on a USB Storage Device (PC Free)" p.132

1. Connect the projector's USB-A port to the Control Pad's USB-B port using a USB cable.
2. Connect the USB storage device to the Control Pad's USB-A port (for USB storage).

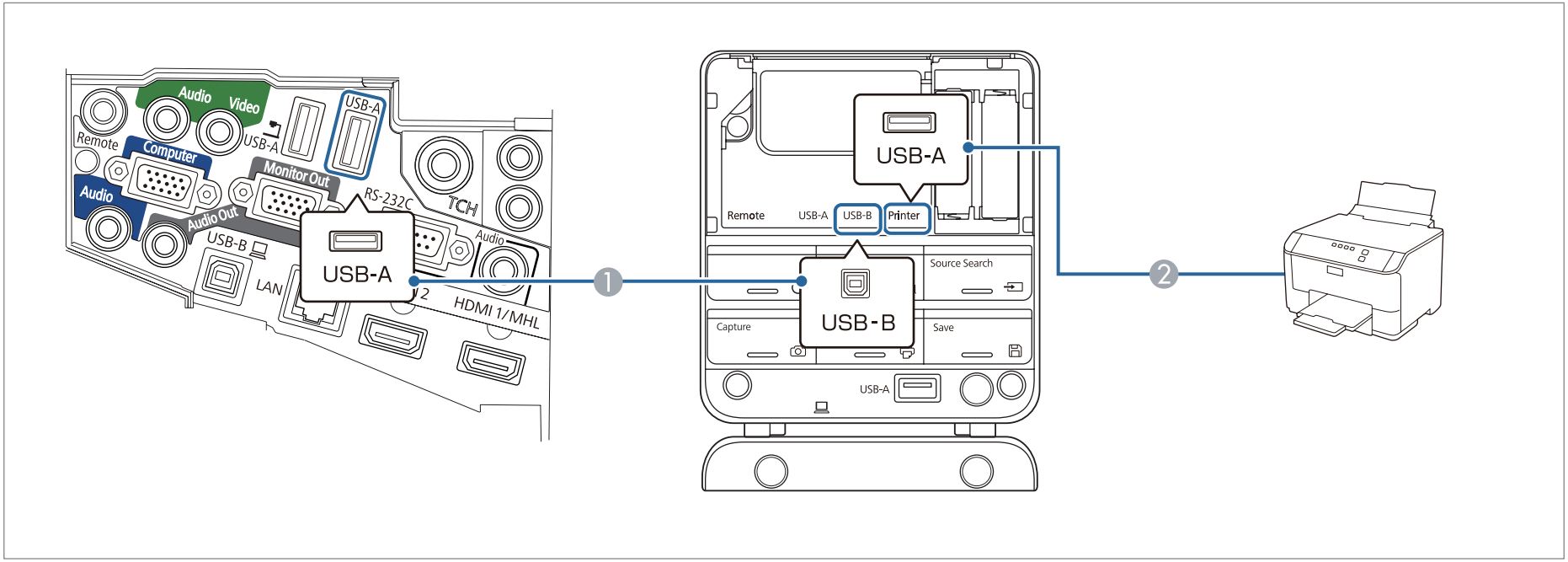


Connecting a Printer

☛ "Printing Drawing Contents in Whiteboard Mode" p.94

☛ "Printing Drawing Contents in Annotation Mode" p.109

1. Connect the projector's USB-A port to the Control Pad's USB-B port using a USB cable.
2. Connect the printer to the Control Pad's USB-A port (for printers) using a USB cable.



- You cannot connect a document camera to the Control Pad.
- Stick the supplied port protection stickers on the Control Pad's ports that are not being used.

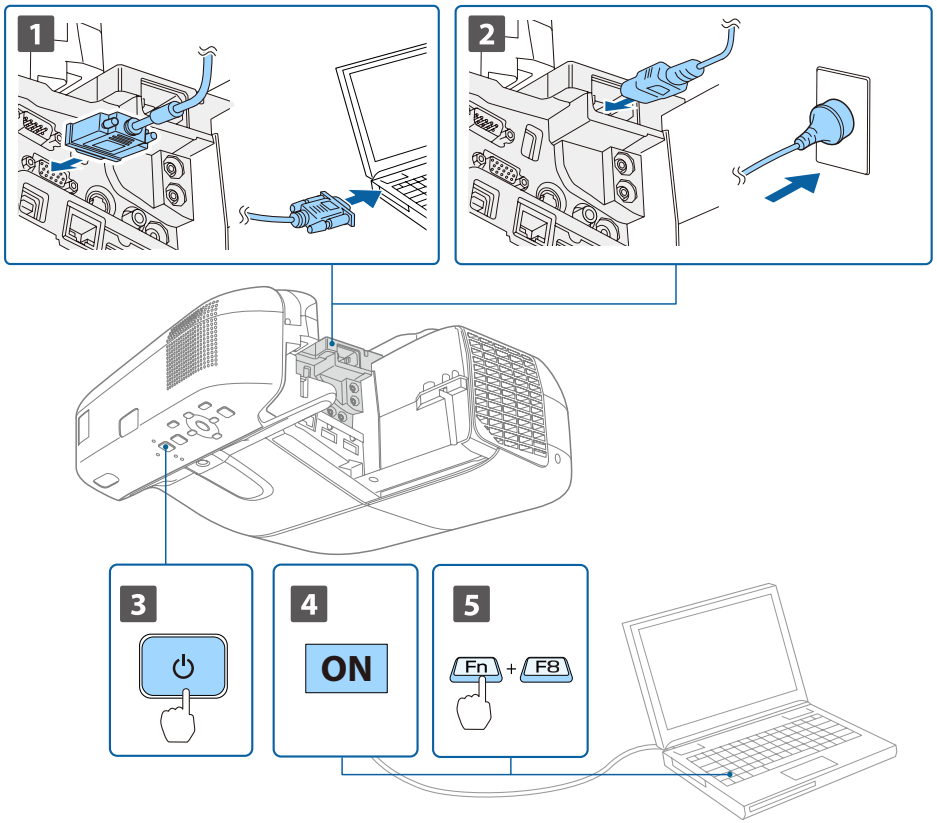
Basic Projection Methods

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 via a computer cable and projecting images.

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



1. Connect the projector to the computer with the computer cable.
2. Connect the projector to an electrical outlet with the power cord.
3. Turn on the projector.

> **Warning**
>
> When turning on the projector, do not look into the projection lens. This could cause damage to eyesight due to the powerful light emitted. When turning on the projector at a distance using the remote control, make sure there is no one looking into the lens.
>
> Take particular care when there are children present.

4. Turn on the computer.
5. 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.
> - Press the [⏻] button twice to turn the projector off.

If no image is projected, press the [Source Search] button on the remote control, control panel, or the Control Pad. When there is no image signal input, Whiteboard Mode is displayed.

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54

After projecting the image, adjust the image if necessary.

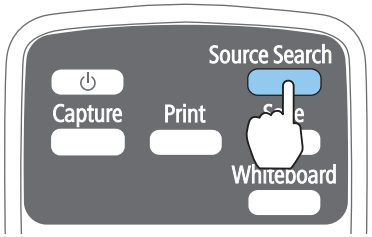
☛ "Correcting Keystone Distortion" p.59

☛ "Correcting the Focus" p.64

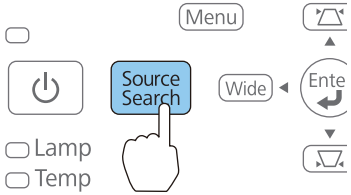
Automatically Detect Input Signals and Change the Projected Image (Source Search)

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

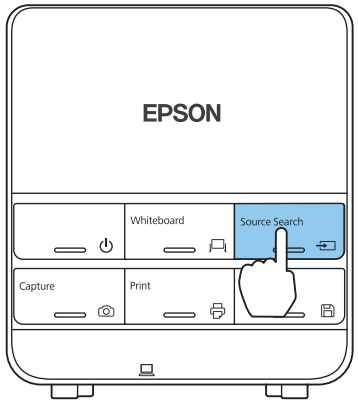
Using Remote Control



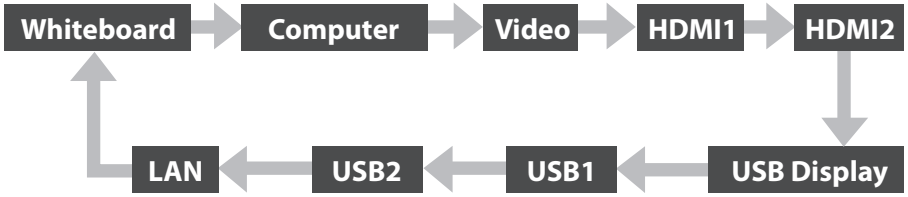
Using the Control Panel



Using the Control Pad



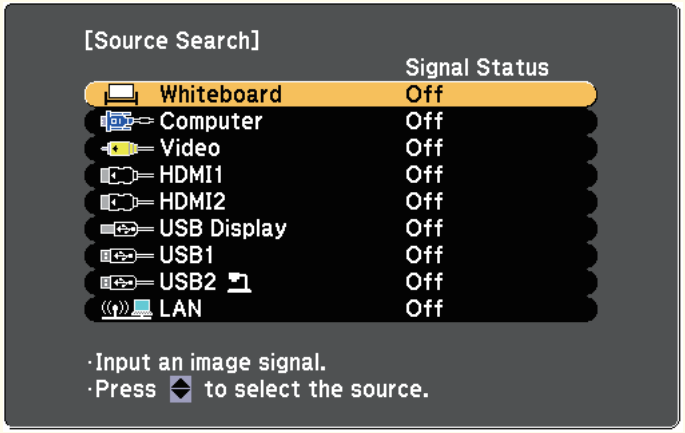
The input source changes in the following order.



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.

- You can make settings so that images are projected from the same input port the next time the projector is turned on.
  ☛ **Extended** - **Operation** - **Startup Source Search** p.179
- The following screen is displayed while no image signals are input. Change to Whiteboard when no image signal is being input.



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 send the computer's audio with the projected image.

Necessary Settings

Set **USB Type B** to **USB Display/Easy Interactive Function** or **Wireless Mouse/USB Display** to use USB Display.

☛ **Extended** - **USB Type B** p.179

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

	Windows 8	Windows 8 32/64 bit Windows 8 Pro 32/64 bit Windows 8 Enterprise 32/64 bit
	Windows 8.1	Windows 8.1 32/64 bit Windows 8.1 Pro 32/64 bit Windows 8.1 Enterprise 32/64 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 of 16-bit color or greater	

*1 Service Pack 4 only

For OS X

OS	Mac OS X 10.5.x 32 bit Mac OS X 10.6.x 32/64 bit OS X 10.7.x 32/64 bit OS X 10.8.x OS X 10.9.x
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 of 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 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.
- If you are using a USB hub, operations may not be performed correctly. Connect directly to the projector or the Control Pad.
- You cannot change option settings while using USB Display.

For Windows

1. Connect the computer's USB port to the projector's or the Control Pad's USB-B port using the supplied USB cable.

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

   For Windows 2000

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

   For Windows XP

   Driver installation starts automatically.

   For Windows Vista/Windows 7/Windows 8/Windows 8.1

   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 for computer images to be projected. Until the computer images are projected, leave the equipment as is and do not disconnect the USB cable or turn off the power of the projector.

4 Disconnect the USB cable when you are finished.

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 OS X

1 Connect the computer's USB port to the projector's or the Control Pad's USB-B port using the supplied 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 for computer images to be projected. Until the computer images are projected, leave the equipment as is and do not disconnect the USB cable or turn off the power of the projector.

6 When you have finished, 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, double-click **USB Display** from the Applications folder.
- If you select **Exit** from the **USB Display** icon menu on the Dock, USB Display does not start automatically when you connect the USB cable.

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**.

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 Windows 8/Windows 8.1

1. Open Charms, and then select **Search**. Right-click (hold down) **Epson USB Display Ver.x.xx**.
2. Select **Uninstall** from the app bar.
3. Select **Epson USB Display** and click **Uninstall**.
4. Follow the on-screen instructions to uninstall.

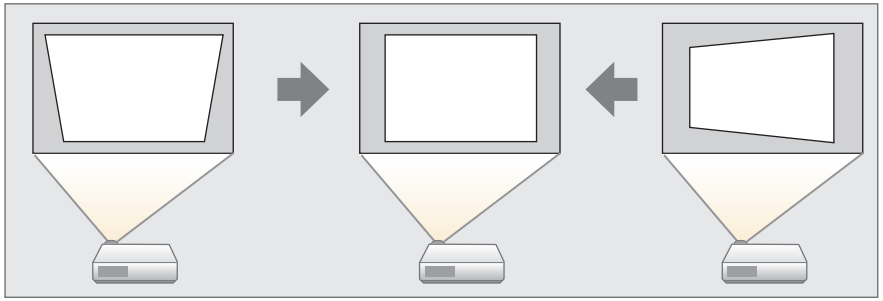
For OS X

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

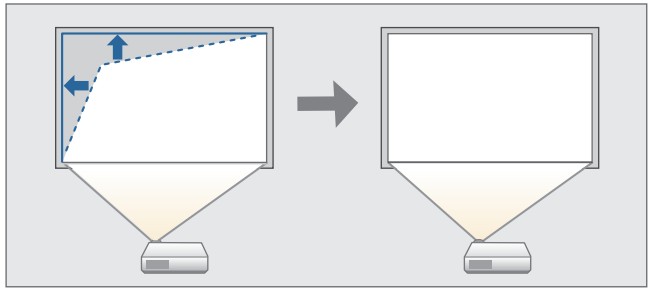
Correcting Keystone Distortion

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

- H/V-Keystone
  Manually correct distortion in the horizontal and vertical directions independently.



- Quick Corner
  Manually correct the four corners independently.



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

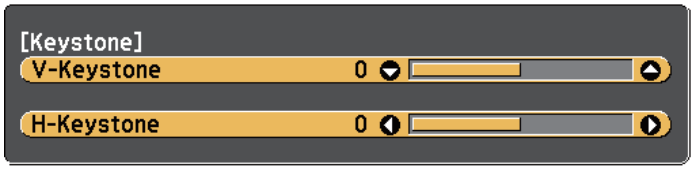
H/V-Keystone

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

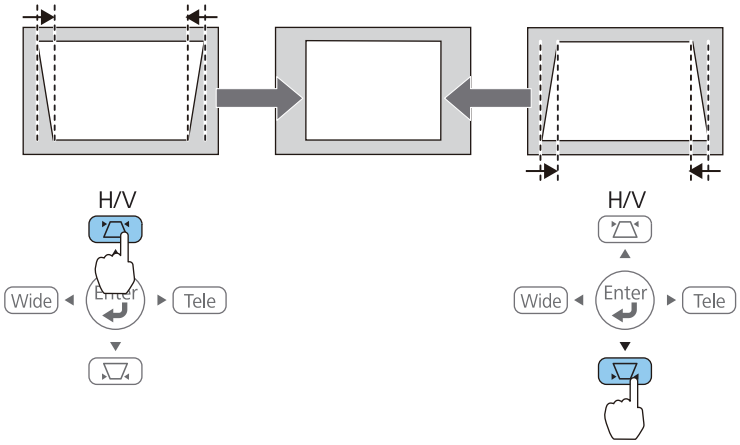
You can use H/V-Keystone to correct the projected image under the following conditions.

Correction angle: Approx. 3˚ right and left/Approx. 3˚ up and down

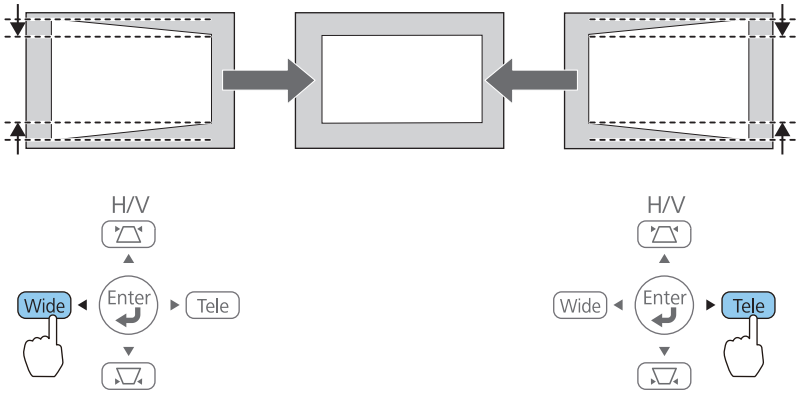
1 Press the [▽] or [△] buttons on the control panel during projection to display the Keystone screen.



2 Press the following buttons to correct keystone distortion.
Press the [▽] or [△] buttons to correct vertical distortion.



Press the [Tele] or [Wide] buttons to correct horizontal distortion.



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

☛ **Settings** - **Keystone** - **H/V-Keystone** p.178

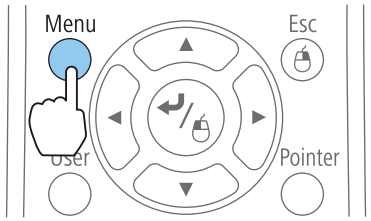
Quick Corner

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

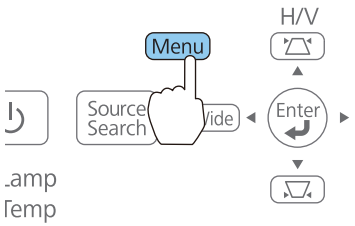
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.172

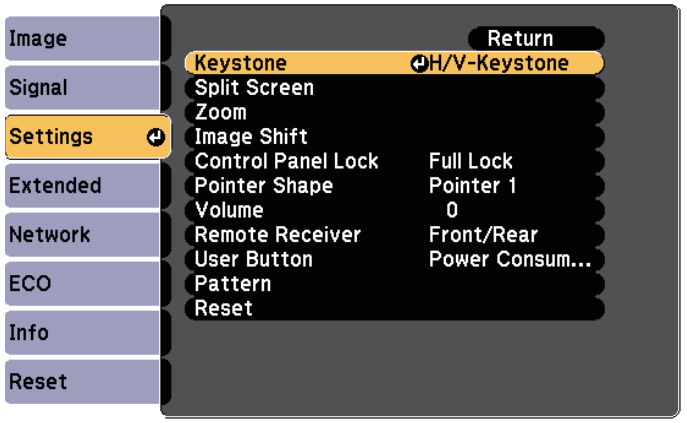
Using Remote Control



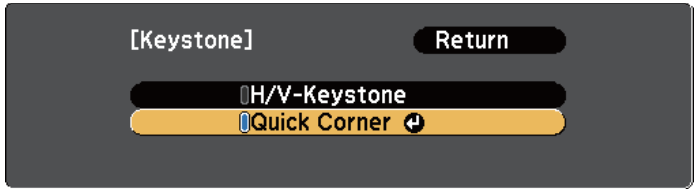
Using the Control Panel



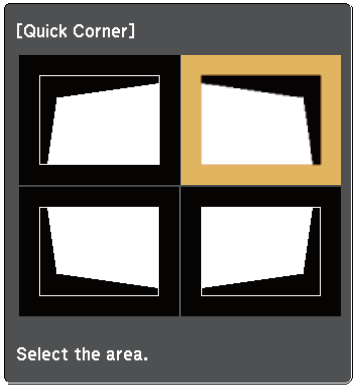
2 Select **Keystone** from **Settings**.



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



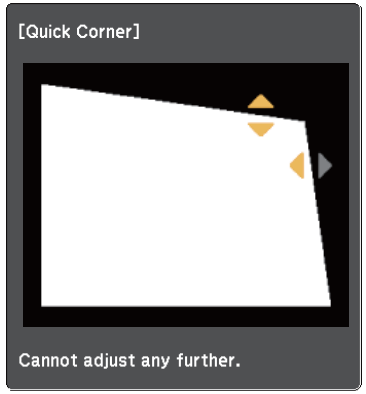
4 Select the corner to correct using the [▲], [▼], [◄], and [►] buttons on the remote control, or the [⏢], [⏢], [Wide], and [Tele] buttons on the control panel, and then press the [↵] button.



5 Correct the position of the corner using the [▲], [▼], [◀], and [▶] buttons on the remote control, or the [⧄], [⧅], [Wide], and [Tele] buttons on the control panel.

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

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



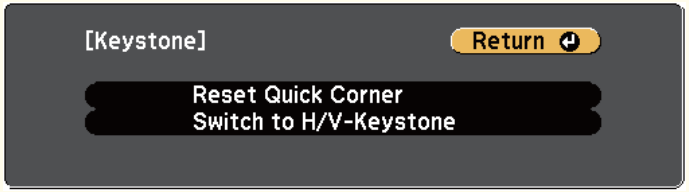
6 Repeat procedures 4 and 5 as needed to adjust any remaining corners.

7 Press the [Menu] button to finish making corrections.

Because **Keystone** was changed to **Quick Corner**, the corner selection screen shown in step 4 is displayed the next time you press the [⧄] or [⧅] buttons on the control panel. 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.178

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.

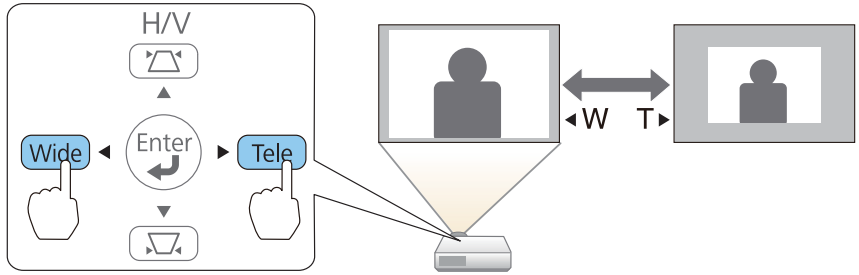


Reset Quick Corner: Resets the result of Quick Corner corrections.
Switch to H/V-Keystone: Switches the correction method to **H/V-Keystone**.

☛ "Settings Menu" p.178

Adjusting the Image Size

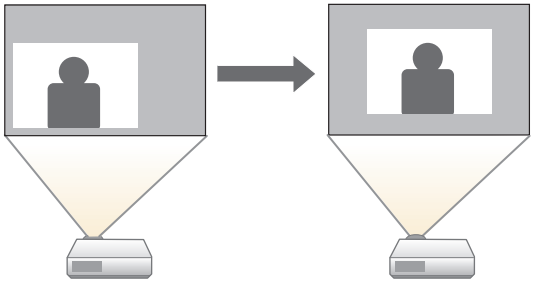
Press the [Wide] and [Tele] buttons on the control panel to adjust the size of the projected image.



You can also make adjustments from the Configuration menu.
☛ **Settings** - **Zoom** p.178

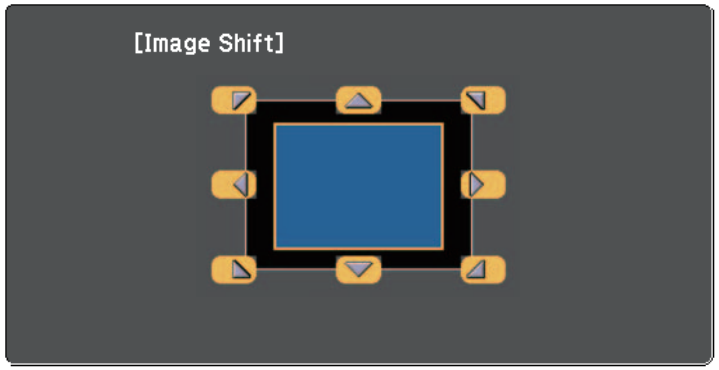
Adjusting the Position of the Image (Image Shift)

You can fine tune the position of the image without moving the projector.

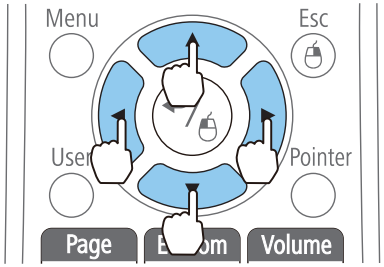


1 Perform Adjust Zoom or Keystone.
☛ "Adjusting the Image Size" p.61
☛ "Correcting Keystone Distortion" p.59
The Image Shift screen is displayed after you have made adjustments.

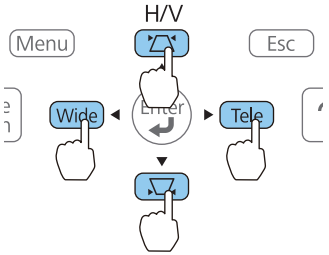
2 Adjust the position of the projected image.



Using Remote Control



Using the Control Panel



You can shift the image diagonally by pressing any pair of adjacent [▲], [▼], [◀], and [▶] buttons, or a combination of [⧍], [⧎], [Wide], and [Tele] buttons.

3 Press the [Esc] button to close the adjustment screen.
The adjustment screen disappears if no operation is performed after approximately 10 seconds.

- You cannot adjust the image position when Zoom is set to the maximum **Wide** position.
- The Image Shift setting is retained even if the projector is turned off. You need to re-adjust the position if you change the installation location or angle of the projector.
- You can also use the Configuration menu to adjust the position of the image.

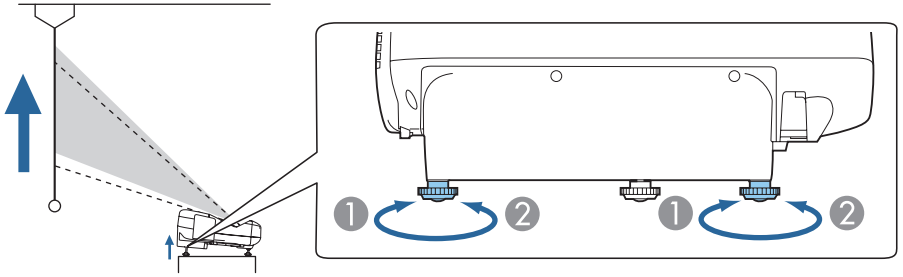
☛ **Settings** - **Image Shift** p.178

Adjusting the Vertical Position of the Image (Models Supplied with the Feet Only)

Extend the feet. You can adjust the vertical position of the image by tilting the projector up to 1.5˚.

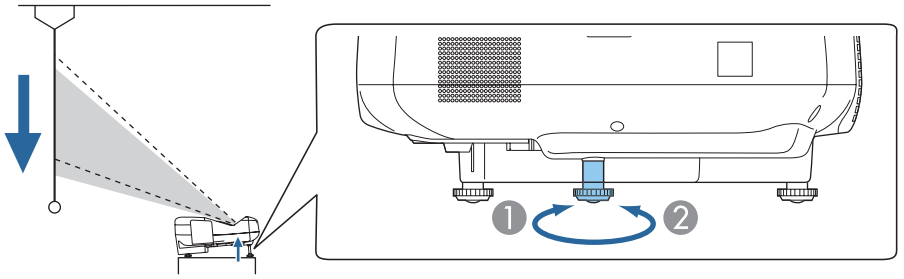
The larger the angle of tilt, the harder it becomes to focus. Install the projector so that it only needs to be tilted at a small angle.

Raising the Height of the Image



1. You can raise the height of the image by extending the rear feet.
2. Retract the rear feet to return the image to its original height.

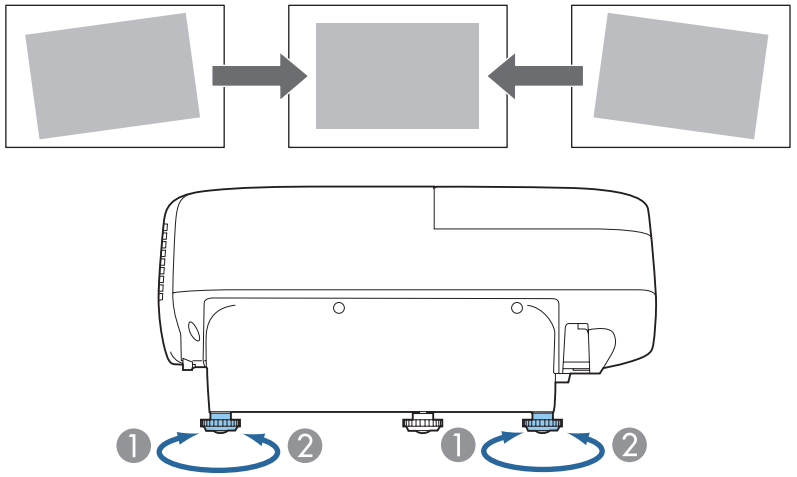
Lowering the Height of the Image



1. You can lower the height of the image by extending the front foot.
2. Retract the front foot to return the image to its original height.

Adjusting the Horizontal Position of the Image (Models Supplied with the Feet Only)

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



1. Extend the rear foot.

② Retract the rear foot.

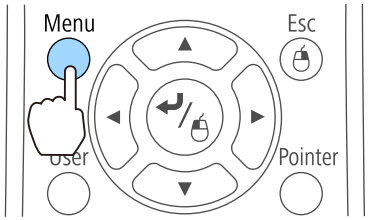
Correcting the Focus

Display the test pattern, and then adjust the focus.

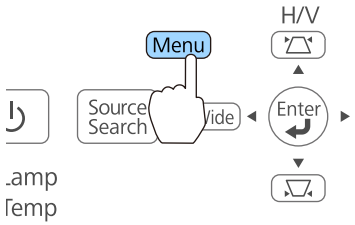
1 Press the [Menu] button.

☛ "Using the Configuration Menu" p.172

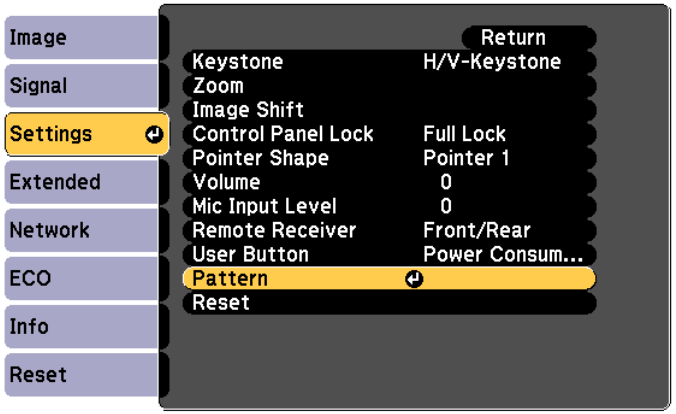
Using Remote Control



Using the Control Panel

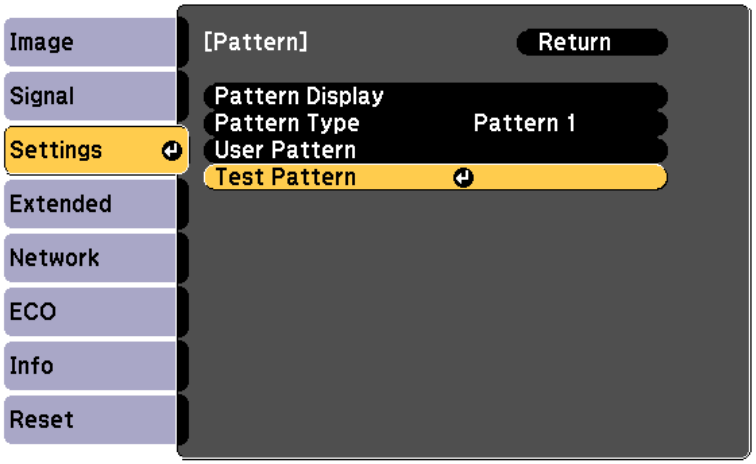


2 Select **Pattern** from **Settings**.

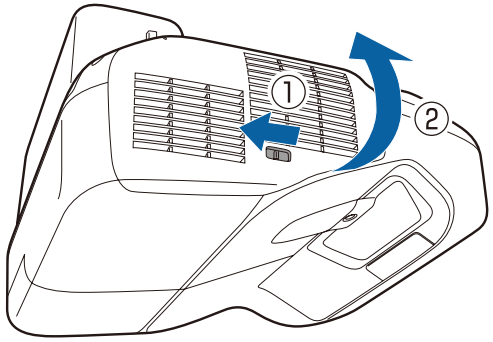


3 Select **Test Pattern**, and then press the [Enter] button.

When projecting images on a 4:3 screen, set **Pattern Type** to **Pattern 5**, select **Pattern Display**, and then press the [Enter] button.

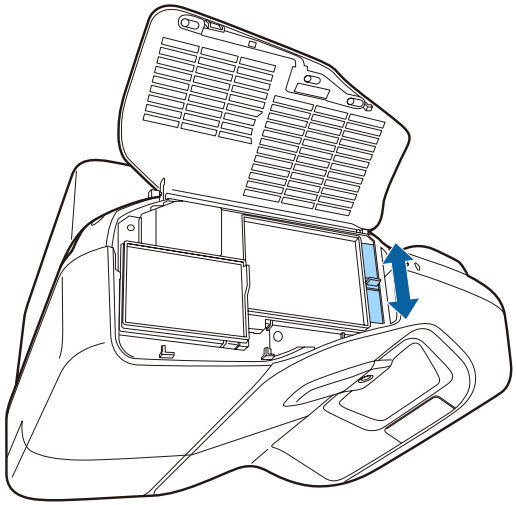


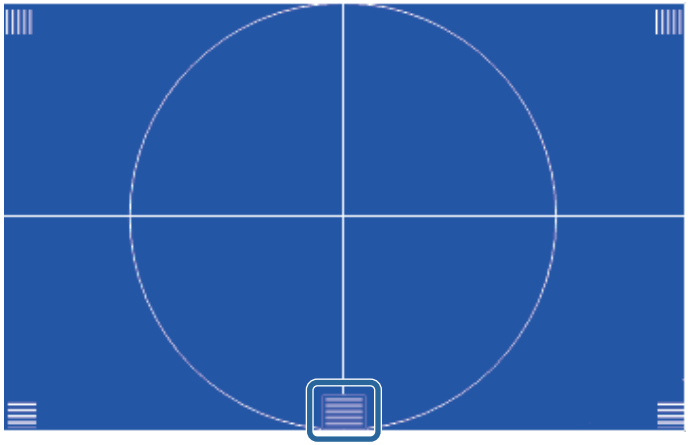
4 Open the air filter cover.



5 Focus to the center-bottom ( ) of the projected screen.

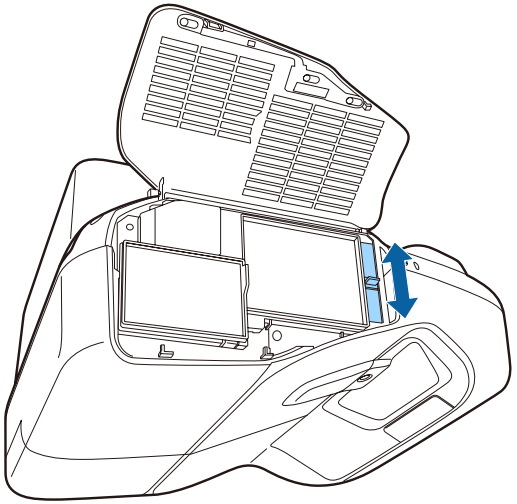
Move the focus lever to adjust the focus.

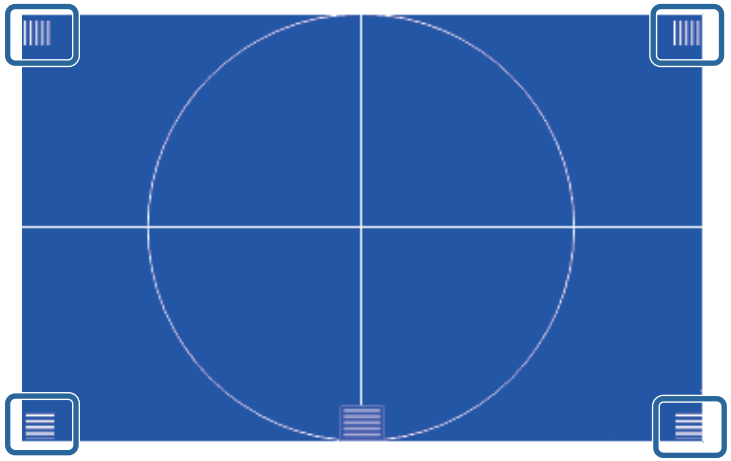




6 Check that the focus matches the corners ( ) of the projected screen.

If any areas are out of focus, use the focus lever to adjust until the corners are the same focus.





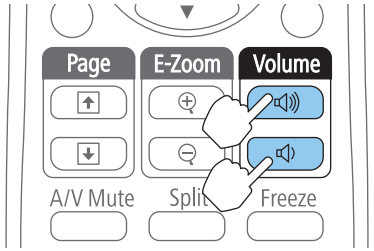
7 To remove the Test Pattern, press the [Esc] button on the remote control or the control panel.

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

Remote control



- Adjust the volume from the Configuration menu.
  ☛ **Settings** - **Volume** p.178

⚠ Caution

Do not start when the volume is set too high.
A sudden increase in 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.

Adjusting the Image

Hue, Saturation, and Brightness Adjustment

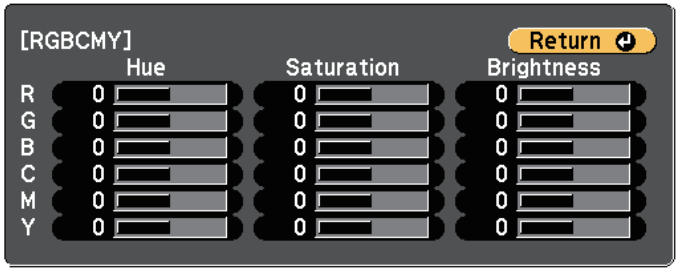
You can adjust the Hue, Saturation, and Brightness for each of the R (red), G (green), B (blue), C (cyan), M (magenta) and Y (yellow) color components.

This item can only be adjusted when **Color Mode** is set to **Customized**.

☛ "Selecting the Projection Quality (Selecting Color Mode)" p.67

Make settings from the configuration menu.

☛ **Image** - **Advanced** - **RGBCMY** p.175



Hue	Adjusts the overall hue of the image, bluish - greenish - reddish.
Saturation	Adjusts the overall vividness of the image.
Brightness	Adjusts the overall color brightness of the image.

Gamma Adjustment

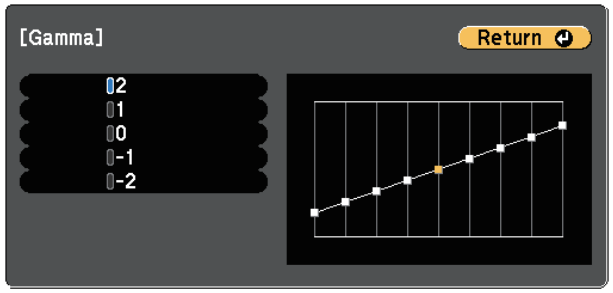
You can correct differences in the coloring for the projected image that occurs depending on the connected device.

This item can only be adjusted when **Color Mode** is set to **DICOM SIM** or **Customized**.

☛ "Selecting the Projection Quality (Selecting Color Mode)" p.67

Make settings from the configuration menu.

☛ **Image** - **Advanced** - **Gamma** p.175



When a larger value is selected, the dark areas of images become brighter, but the color saturation for lighter areas may become weaker. When a smaller value is selected, you can reduce the overall brightness of the image to make the image sharper.

Select the adjustment value according to the projection size.

- If the projection size is 80 inches or less, select a small value.
- If the projection size is 80 inches or more, select a large value.

Medical images may not be reproduced correctly according to your settings and screen specifications.

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.

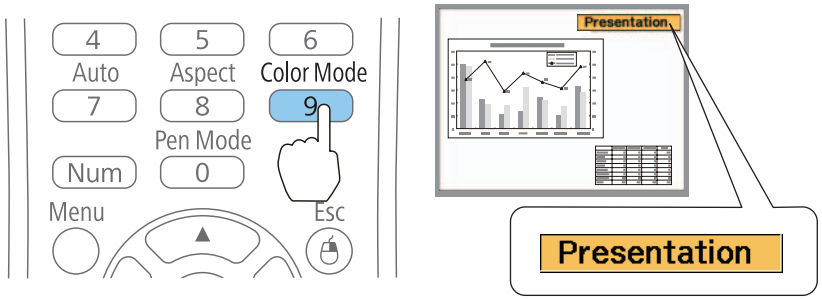
Mode	Application
Dynamic	Ideal for use in a bright room. This is the brightest mode.
Presentation	Ideal for making presentations using color materials in a bright room.
Theatre	Ideal for watching films in a dark room. Gives images a natural tone.
Photo*1	Ideal for projecting still pictures, such as photos, 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.
Whiteboard	Ideal for making presentations using a whiteboard.
DICOM SIM*1	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.
Customized	Adjusts the RGBCMY. ☛ "Adjusting the Image" p.66

*1 Only available when the input signal is RGB or when the source is USB Display, USB1, USB2, or LAN.

*2 Only available when the input signal is component video, or when the source is Video.

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.175

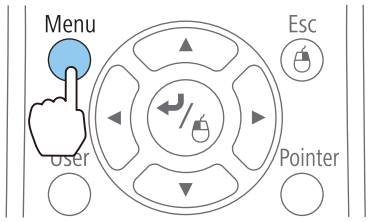
Setting Auto Iris

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

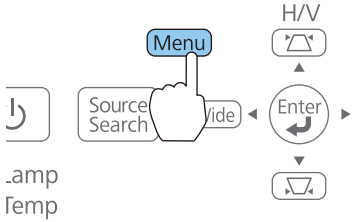
1 Press the [Menu] button.

☛ "Using the Configuration Menu" p.172

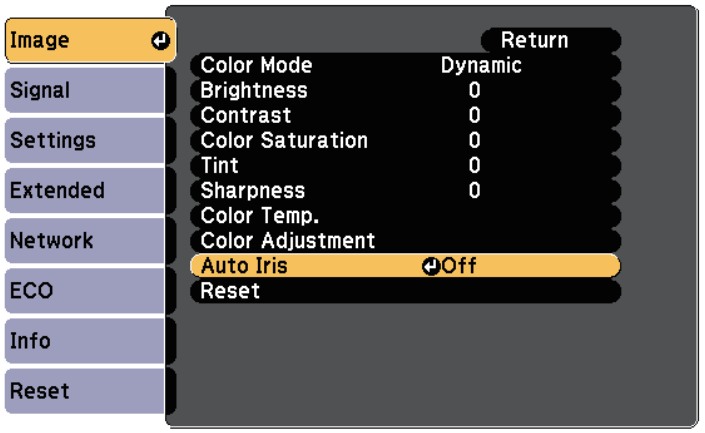
Using Remote Control



Using the Control Panel



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



3 Select **High Speed**.

To reduce the operation noise, select **Normal**.

The setting is stored for each Color Mode.

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

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

Changing the Aspect Ratio of the Projected Image

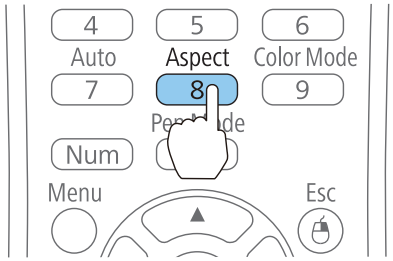
You can change the Aspect Ratio of the projected image to suit the type, the ratio of height and width, and the resolution of the input signals.

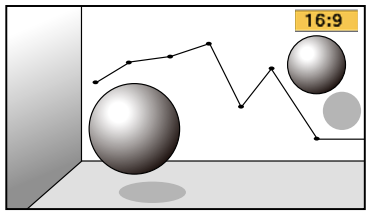
Available Aspect Modes vary depending on the image signal currently being projected.

Changing Methods

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

Remote control





You can set the aspect ratio from the Configuration menu.

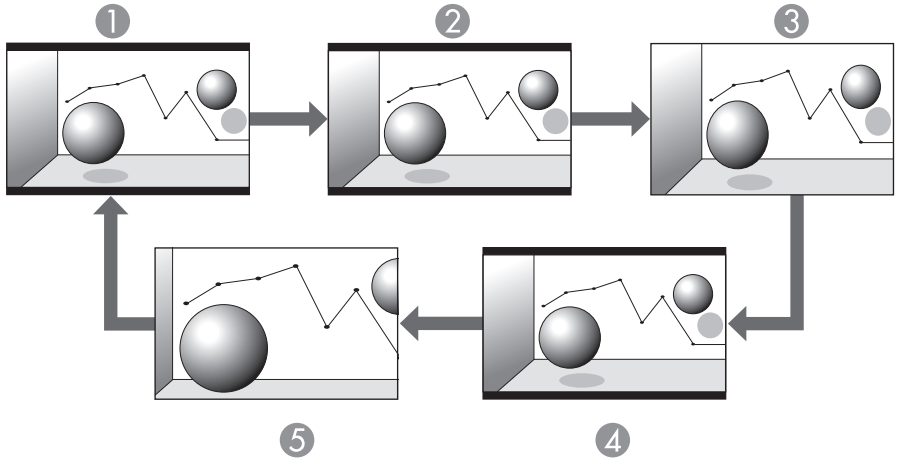
☛ **Signal** - **Aspect** p.176

Changing the Aspect Mode

Projecting Images from Video Equipment or from the HDMI/MHL Port

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

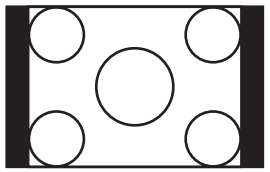
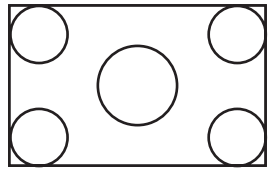
Example: 1080p signal input (resolution: 1920x1080, aspect ratio: 16:9)

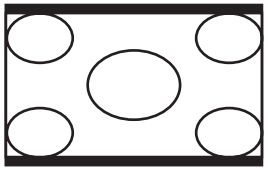
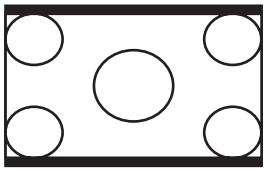
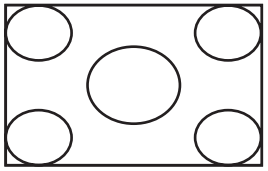
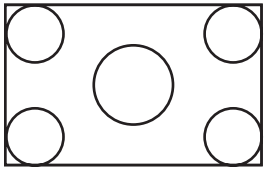
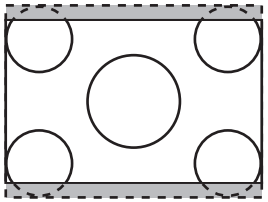
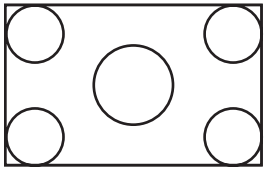
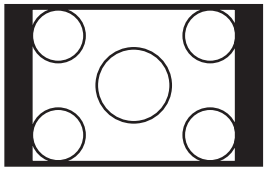
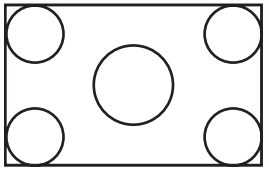


1. Normal or Auto
2. 16:9
3. Full
4. Zoom
5. Native

Projecting images from a computer

The following shows projection examples for each aspect mode.

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)
16:9		
Full		
Zoom		
Native		

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.

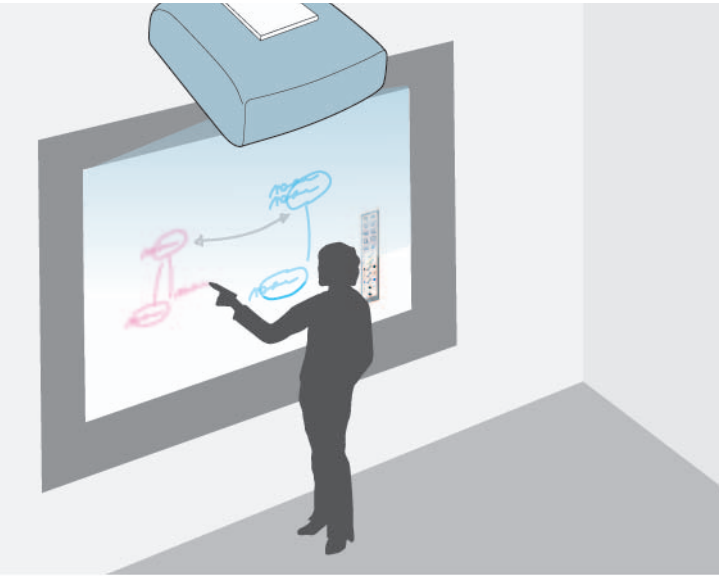
☛ **Signal** - **Resolution** p.176

Using the Interactive Features

Follow the instructions in these sections to use the interactive features.

You can perform the following operations with the interactive features:

- In whiteboard mode, you can use interactive pens or your finger (EB-1430Wi) to write on the projected "whiteboard."
  ☛ "Draw on a Whiteboard Screen (Whiteboard Mode)" p.85



You do not need to use a computer or install any additional software to use the built-in whiteboard drawing feature. This is useful in meetings as a substitute for a whiteboard.
You can share the drawing contents you create with other projectors or tablets, save it as a PDF or PNG file, and print it or send it as an email.

☛ "Share Drawing Contents with Other Devices" p.96
☛ "Saving Drawing Contents in Whiteboard Mode" p.93
☛ "Sending Emails in Whiteboard Mode" p.95
☛ "Printing Drawing Contents in Whiteboard Mode" p.94

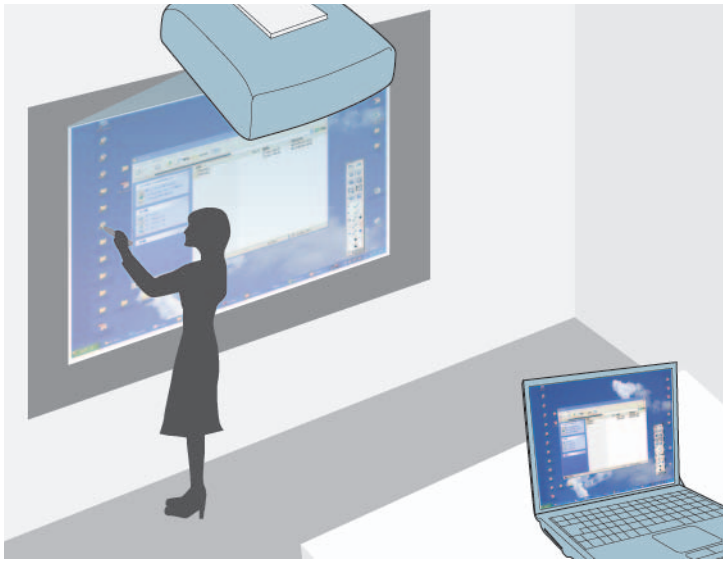
- In annotation mode, you can use interactive pens or your finger to add notes to content projected from a computer, tablet, document camera, or other source.
  ☛ "Draw on the Projected Image (Annotation Mode)" p.105



This helps you emphasize projected information or include additional notes for more effective lessons or presentations.

☛ "Saving Drawing Contents in Annotation Mode" p.109
☛ "Printing Drawing Contents in Annotation Mode" p.109

- In computer interactive mode, you can use interactive pens or your finger as you would use a mouse. This allows you to navigate, select, and scroll through content projected from your computer.
☛ "Control Computer Features from a Projected Screen (Computer Interactive Mode)" p.111



You can also use the Easy Interactive Tools software to provide additional interactive features, such as saving and printing your annotations. See the *Easy Interactive Tools Operation Guide* built into the software for instructions.

This section provides safety instructions on setting up and using the interactive pens or performing touch operations with your finger. Read these instructions before using the interactive features.

Safety Instructions for Interactive Features

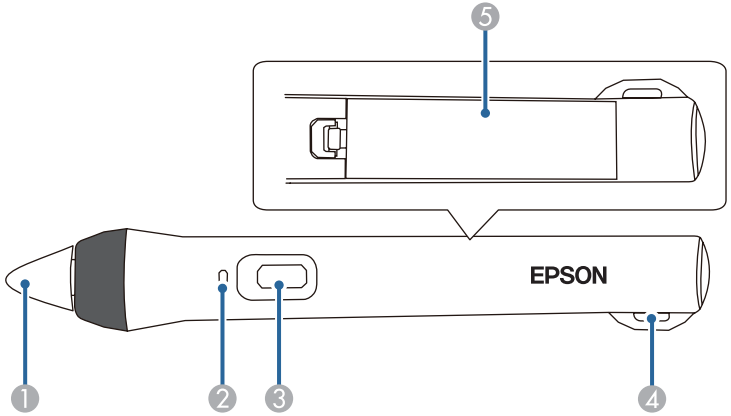
The interactive feature operates by infrared communication. Note the following important points when using this feature.

- Make sure there is no strong light or sunlight shining on the Easy Interactive Function receiver and the projection screen.
- If there is any dust stuck to the Easy Interactive Function receiver, it could interfere with infrared communication and you may not be able to use the features normally. Clean the receiver if it is dirty.
  ☛ "Cleaning" p.230
- Do not put paint or any stickers on the cover of the Easy Interactive Function receiver.
- When using the interactive features, do not use an infrared remote control or microphone in the same room. The interactive pen could malfunction.
- Do not use an infrared remote control or infrared microphone in the same room because the interactive pen may malfunction.
- Do not use devices that generate powerful noise, such as rotary devices or transformers, near the projector. You may not be able to operate the interactive features.

Using the Interactive Pens

Your projector comes with a blue pen and an orange pen, identified by the color on the end of the pen. You can use either pen, or both at the same time (one of each color).

Make sure the pen batteries are installed.



1. Pen tip
2. Battery light
3. Button
4. Attachment for optional strap or cord
5. Battery cover

To turn on the pen, tap the pen tip or press the button on the side.

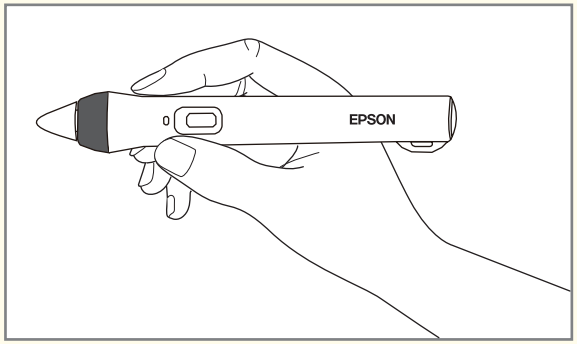
When you are finished using the pen, leave the pen as it is far from the projection screen.

☛ "Interactive Pen" p.21

Attention

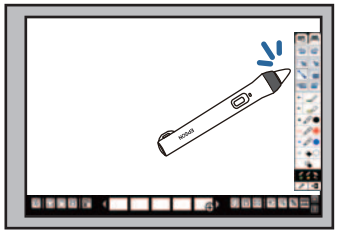
- Do not use interactive pens with wet hands or in locations where the pens may get wet. The interactive pens are not waterproof. Otherwise, it could cause an electric shock.
- Keep the projector and projection screen out of direct sunlight, or the interactive features may not work.

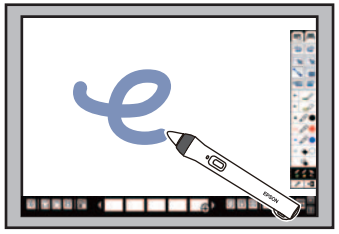
- The pens turn off automatically after 20 minutes of inactivity. To turn a pen back on, tap the pen tip or press the button on the side.
- For best performance, hold the pen perpendicular to the board, as shown below. Do not cover the black band near the tip of the pen.



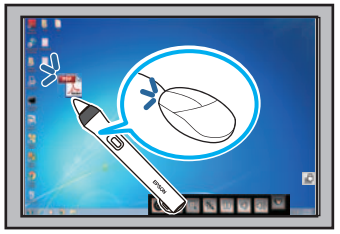
You can do the following using the pen:

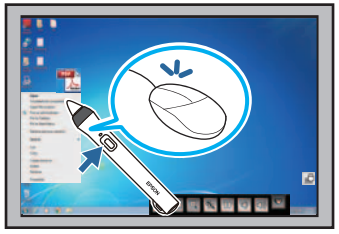
- Write or draw on the projection surface in whiteboard mode and annotation mode.





  - To select a projected item, such as an icon, tap the projection surface with the pen tip.
  - To draw on the projected screen, tap the projection surface with the pen and drag it as necessary.
  - To move the projected pointer, hover over the surface without touching it.
  - To switch the pen from a drawing tool to an eraser, press the button on the side.
- Use the pen as a mouse in computer interactive mode.





  - To left-click, tap the board with the pen tip.
  - To double-click, tap twice with the pen tip.
  - To right-click, press the button on the side.
  - To click and drag, tap and drag with the pen.
  - To move the cursor, hover over the board without touching it.

- If you do not want to use the hovering feature, you can turn it off using the **Easy Interactive Function** setting in the projector's **Extended** menu.

  ☛ **Extended** - **Easy Interactive Function** - **Hovering** p.181

- To make a long press of the pen act as a right-click, select the following settings in the **Easy Interactive Function** setting in the projector's **Extended** menu.

  - Set the **Pen Operation Mode** setting to **Two Users/Mouse** or **One User/Mouse** (EB-1420Wi).
  - Set the **Pen Operation Mode** setting to **Mode 1** or **Mode 3** (EB-1430Wi).
  - Set the **Enable Right Click** setting to **On**.

Pen Calibration

Calibration coordinates the positioning of the pen with the location of your cursor. You only need to calibrate the first time you use your projector.

You can use **Auto Calibration** to calibrate the system, but **Manual Calibration** is also available for finer adjustments or if **Auto Calibration** failed.

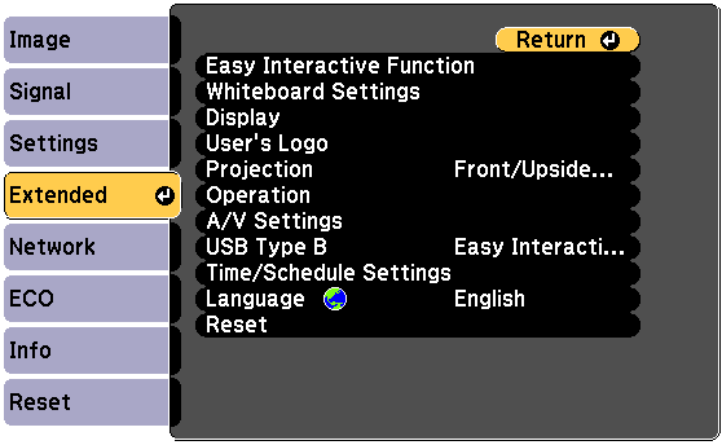
- Move any pen you are not using away from the projection screen while calibrating the system.
- Calibrate the system again if you notice any discrepancy in positioning after doing any of the following:
  - Performing Keystone correction
  - Adjusting the image size
  - Using the Image Shift feature
  - Changing the projector position
- The calibration results remain until you recalibrate.

Calibrating Automatically

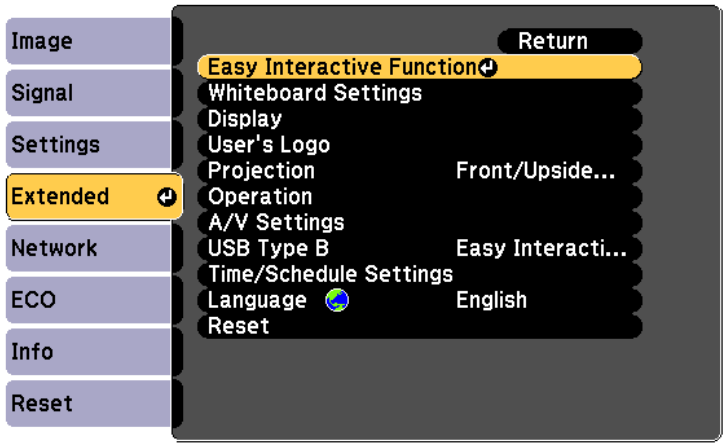
You need to calibrate the first time you use your projector, and you do not need the pens or a computer for **Auto Calibration**.

You can also start **Auto Calibration** by pressing the **Menu** button or **User** button on the remote control.

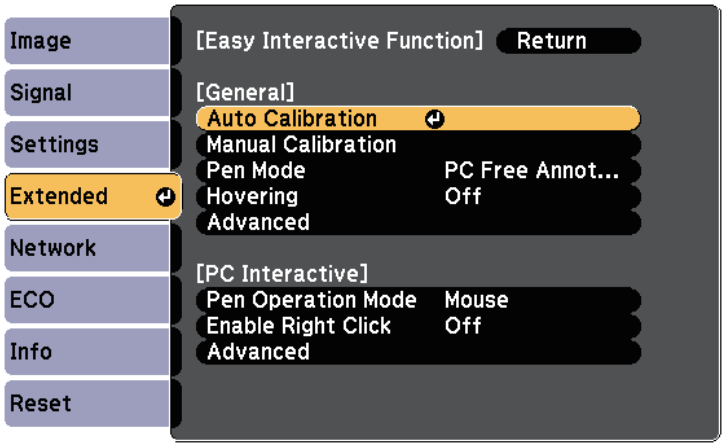
1 Press the [Menu] button, select the **Extended** menu, and press the [Enter] button.



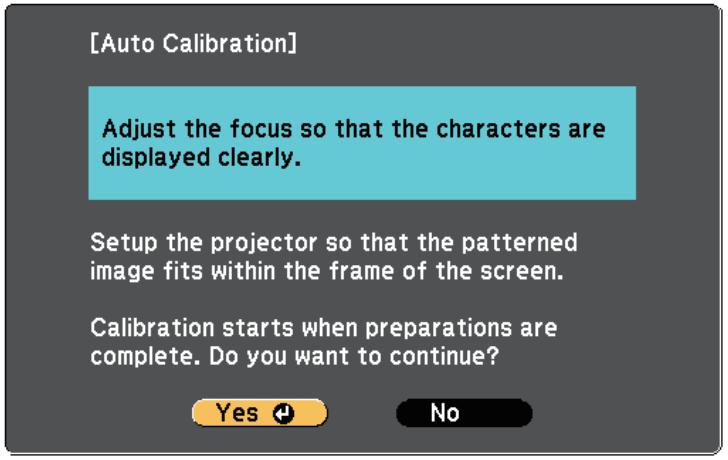
2 Select the **Easy Interactive Function** setting and press the [Enter] button.



3 Select **Auto Calibration** and press the [Enter] button.



The following screen appears.



4 Adjust the focus, if necessary, by opening the air filter cover on the side of the projector and sliding the focus lever.

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

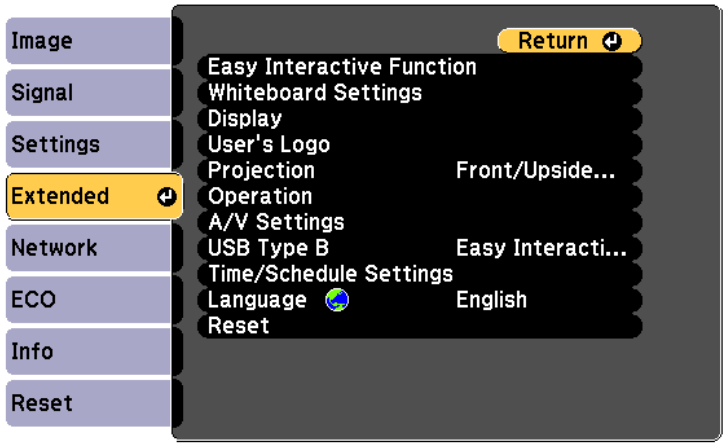
A pattern appears then disappears, and the system is calibrated. If you see a message that calibration failed, you need to calibrate manually.

The cursor location and pen position should match after calibration. If not, you may need to calibrate manually.

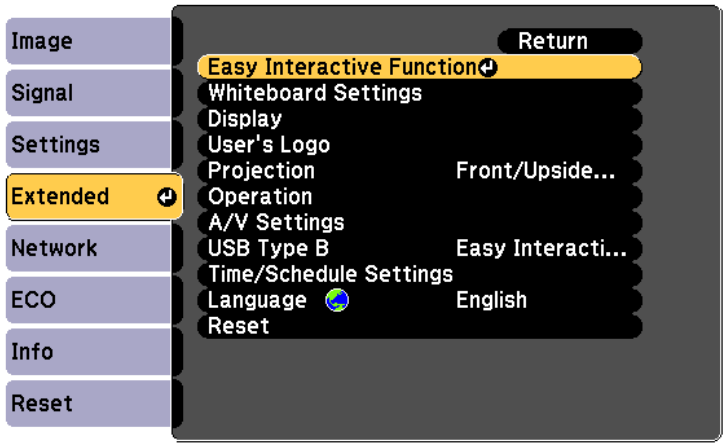
Calibrating Manually

If the cursor location and pen position do not match after auto calibration, you can calibrate manually.

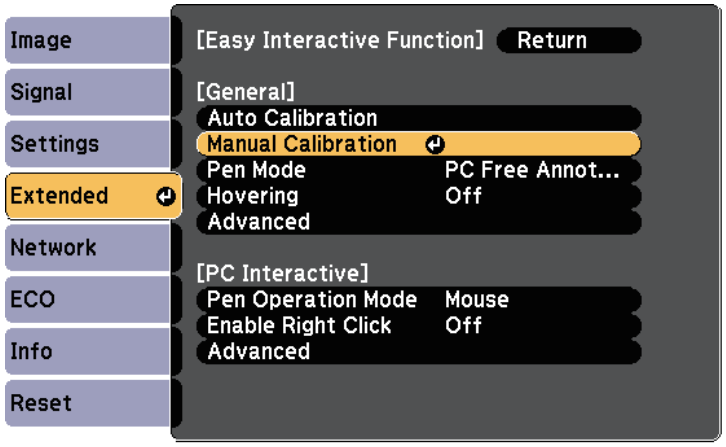
1 Press the [Menu] button, select the **Extended** menu, and press the [Enter] button.



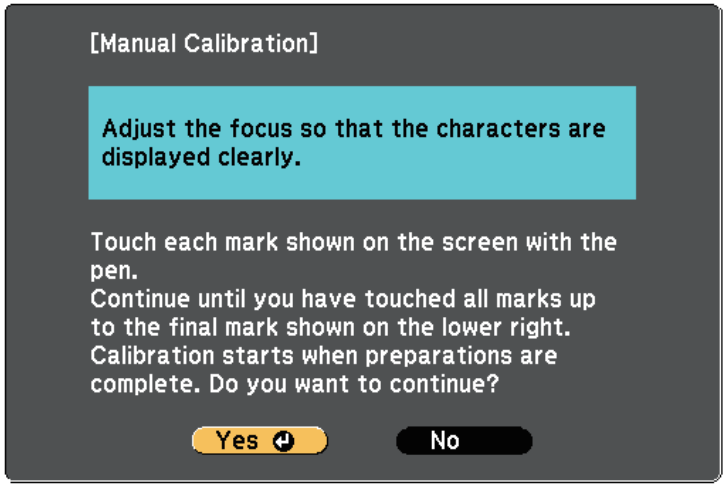
2 Select the **Easy Interactive Function** setting and press the [Enter] button.



3 Select **Manual Calibration** and press the [Enter] button.



The following screen appears.



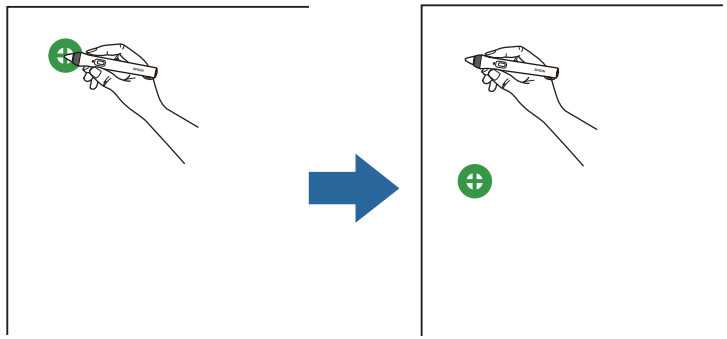
4 Adjust the focus, if necessary, by opening the air filter cover on the side of the projector and sliding the focus lever.

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

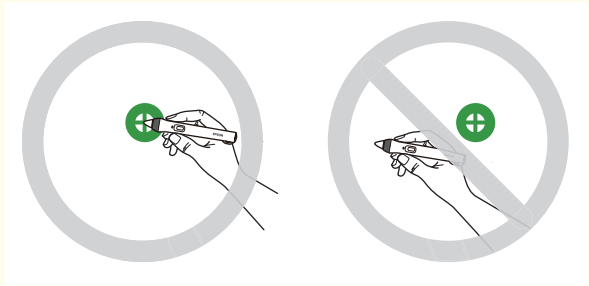
A flashing green circle appears in the upper left corner of your projected image.

6 Touch the center of the circle with the tip of the pen.

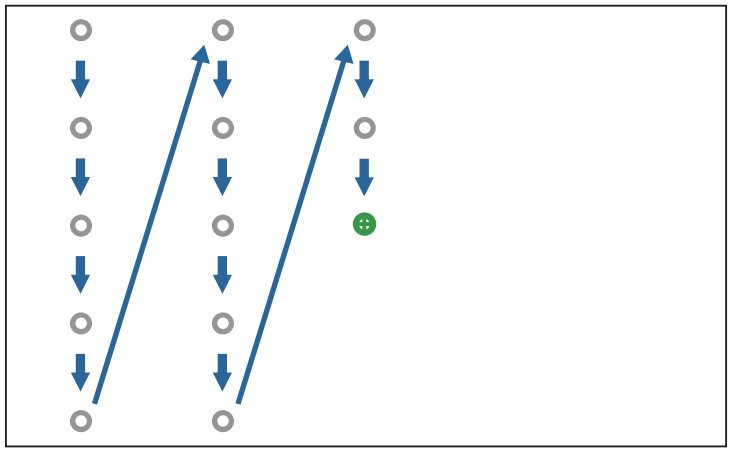
The circle disappears, and you see another circle below the first one.



For the most accurate calibration, make sure you touch the center of the circle.



7 Touch the center of the next circle, then repeat. When you get to the bottom of the column, the next circle appears at the top of a new column.



- Make sure you are not blocking the signal between the pen and the interactive receiver.
- If you make a mistake, press the [Esc] button on the remote control to go back to the previous circle.
- To cancel the calibration process, press and hold the [Esc] button for 2 seconds.

8 Continue until all of the circles disappear.

Using Interactive Touch Operations with Your Finger (EB-1430Wi)

You can use your finger to interact with the projected screen, just as you would use an interactive pen (EB-1430Wi). You can use either a pen or your finger, or use both at the same time.

The projector recognizes up to six touch points in computer interactive mode. When performing touch operations with your finger, you can use two fingers in annotation and whiteboard modes.

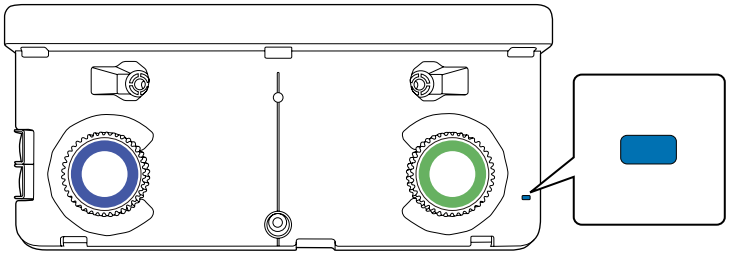
Do the following before using your finger for touch operations:

- Install the Touch Unit
- Calibrate the system manually for the pen
- Perform angle adjustment for the Touch Unit
- Calibrate the system for touch operations

See the *Installation Guide* for details.

☛ *Installation Guide*

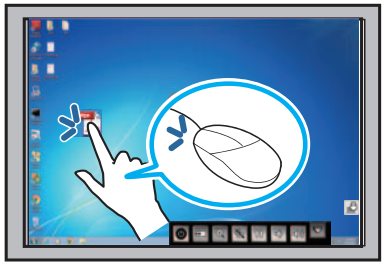
The Touch Unit turns on and is ready for touch operation with your finger when you turn on the projector and the indicator lights up in blue.



- Check the following if the Touch Unit does not turn on.
  - The **Power** setting in the **Touch Unit Setup** menu is set to **On**.
    ☛ **Extended** - **Easy Interactive Function** - **Touch Unit Setup** - **Power** p.179
  - The Touch Unit is connected to the projector's TCH port with a Touch Unit connection cable.
- Positioning discrepancies may occur depending on the angle of or the direction you point your finger.
- Touch operations with your finger may not work properly with long or artificial nails, or with your fingers wrapped in bandages.
- Touch operations may not be recognized correctly if your fingers or the pens are too close together or crossed.
- If clothing or another part of your body comes close to or touches the screen, the touch operations may work incorrectly.
- If you touch the screen with your free hand during touch operations, the touch operations may work incorrectly.

You can perform the following touch operations with your finger:

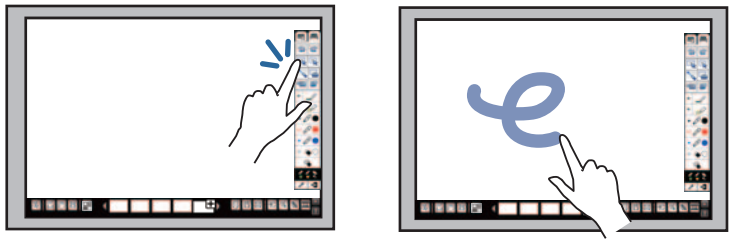
- Use your finger as a mouse in computer interactive mode.



- To left-click, tap the board with your finger.
- To double-click, tap twice with your finger.
- To click and drag, press on and drag an item with your finger.

- If your device supports these functions, you can also do the following:
  - To zoom in or out, touch an item using two fingers, and either move your fingers away from each other (stretch to zoom out) or toward each other (pinch to zoom in).
  - To rotate the image, touch the image using two fingers and then rotate your hand.
  - To scroll up or down the page, or move backward or forward in a browser window, use gestures such as flicks.
- You can only use one tool with one finger at a time.
- If you use whiteboard mode during split screen projection, you cannot do the following:
  - Draw and write with your fingers.
  - Enlarge or reduce the image.

- Write or draw on the projection surface in annotation mode and whiteboard mode.



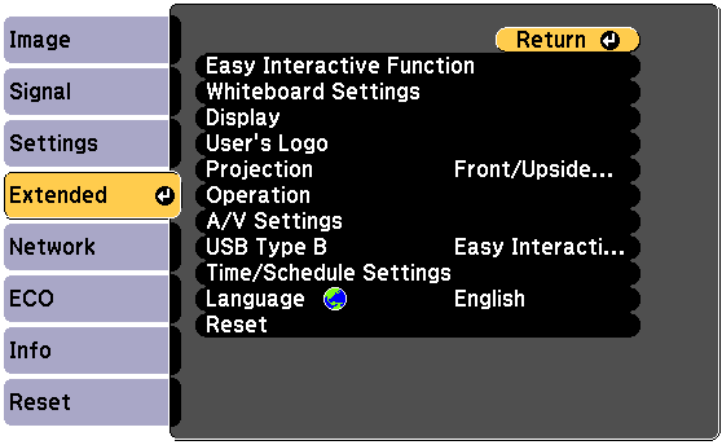
  - To select a projected item, such as an icon, tap the projection surface with your finger.
  - To draw on the projected screen for the first time after turning on the projector, select a pen in the toolbar and tap the projection surface with your finger. If you do not do this, your finger works as an eraser the first time you use touch operations.
  - To zoom in or out, touch an item using two fingers, and either move your fingers away from each other (stretch to zoom out) or toward each other (pinch to zoom in).

Calibrating for Touch Operations with Your Finger

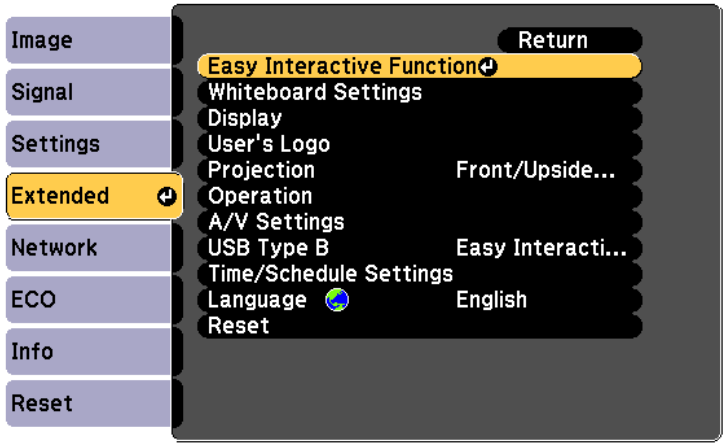
Calibration coordinates the positioning of your finger with the location of your cursor (EB-1430Wi). If the cursor location and your finger position do not match, you need to calibrate again.

- The positioning of your finger is usually adjusted when the Touch Unit is installed. See the *Installation Guide* for details.
  ☛ *Installation Guide*
- Make sure you have calibrated the system for the pen using **Auto Calibration** or **Manual Calibration** before calibrating for touch operations with your finger.
  ☛ "Pen Calibration" p.76
- Calibrate for touch operations with your finger again if you notice any discrepancy in positioning after doing any of the following:
  - Calibrating the system for use with the pen (automatically or manually)
  - Performing angle adjustments for the Touch Unit
  - Performing Keystone correction
  - Adjusting the image size
  - Using the Image Shift feature
  - Changing the projector position

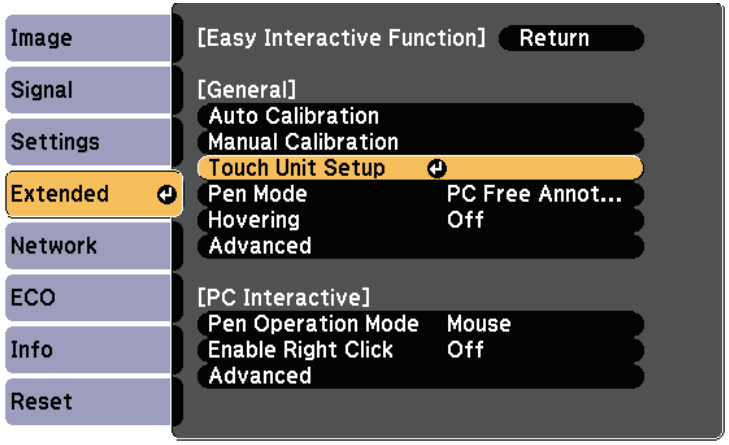
1 Press the [Menu] button, select the **Extended** menu, and press the [Enter] button.



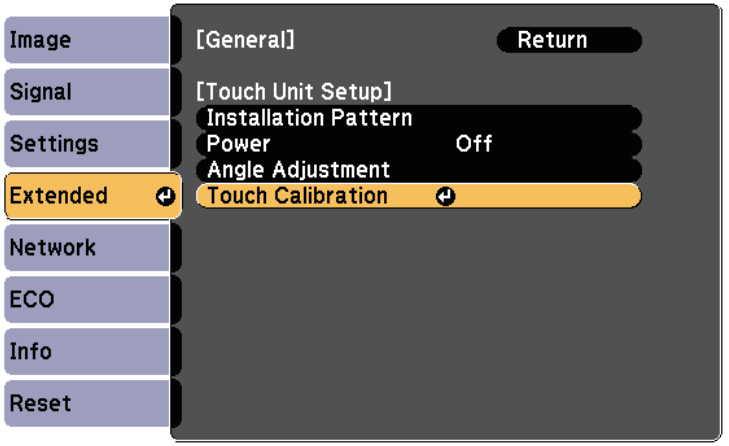
2 Select the **Easy Interactive Function** setting and press the [Enter] button.



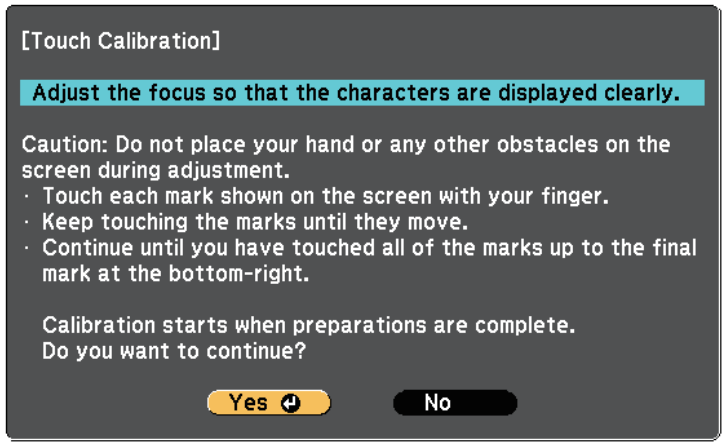
3 Select **Touch Unit Setup** and press the [Enter] button.



4 Select **Touch Calibration** and press the [Enter] button.



The following screen appears.



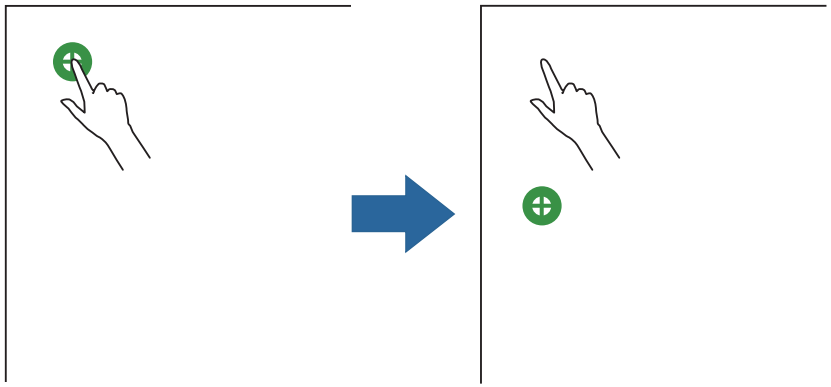
5 Adjust the focus, if necessary, by opening the air filter cover on the side of the projector and sliding the focus lever.

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

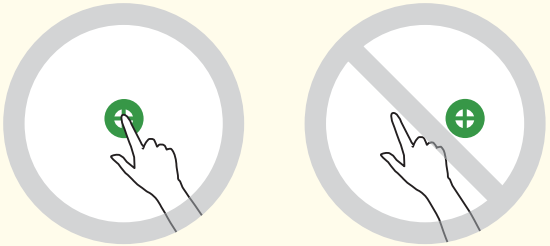
A flashing green circle appears in the upper left corner of your projected image.

7 Touch and hold the center of the circle with your finger.

When the circle disappears and the another circle appears, lift up your finger.

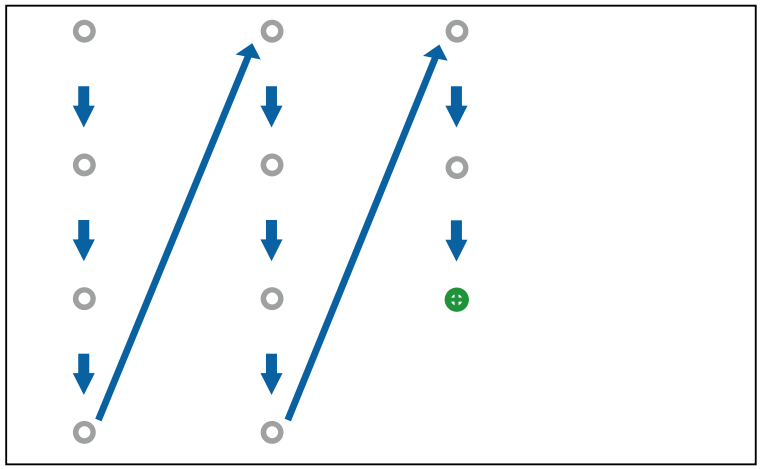


- For the most accurate calibration, make sure you touch the center of the circle.



- Do not touch the circle with anything except the tip of your finger.

8 Touch the center of the next circle with your finger, then repeat. When you get to the bottom of the column, the next circle appears at the top of a new column.



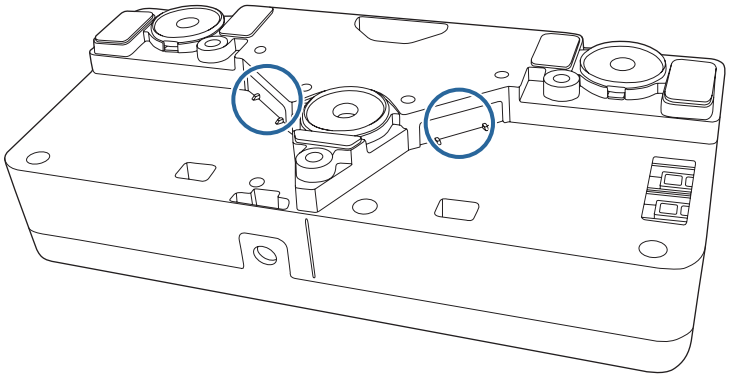
- Make sure you are not blocking the signal between your finger and the interactive receiver.
- If you touch the wrong position, press the [Esc] button on the remote control or control panel.
- To cancel touch calibration, hold down the [Esc] button for two seconds.

9 Continue until all of the circles disappear.

Safety Instructions for Interactive Touch Operations

Touch operation with your finger is enabled by installing the Touch Unit with a built-in high-power laser (EB-1430Wi).

The laser radiates from the laser diffusion ports on rear of the Touch Unit:



Note the following important points when performing touch operations.

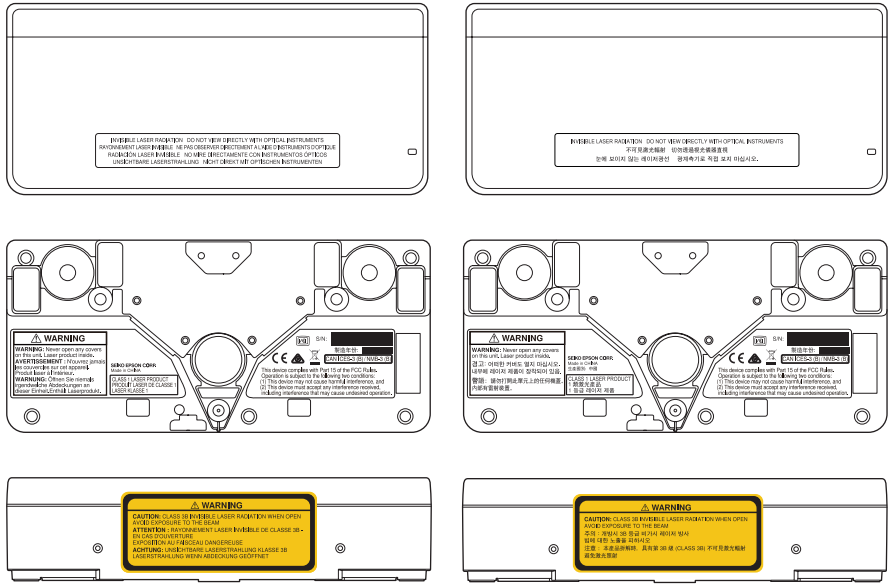
Warning

- Children using touch operations with their fingers should always be accompanied by an adult.
- Never open any cases on the projector or the Touch Unit. Never attempt to disassemble or modify the projector or the Touch Unit. Electrical voltages inside the projector can cause severe injury.
- Do not look into the lens of the projector or the laser-emitting area of the Touch Unit when they are turned on. The laser can damage your eyes. Give special attention to small children when using touch operations with their fingers.
- Do not allow the laser light emitted from the Touch Unit to pass through or be reflected by any optical object, such as a magnifying glass or mirror. Continued use of the Touch Unit may result in fire or accidents, and also cause injury.
- Unplug the projector from the outlet and refer all repairs to qualified service personnel if any problems occur with the projector or the Touch Unit. Continued use of the Touch Unit may result in fire or accidents, and can also damage your eyes.
- Do not look at the laser light using an optical device (for example, eye lope, magnifying glass, or microscope) within a distance of 70 mm from the laser diffusion ports of the Touch Unit. This could damage your eyes.

Laser Warning Labels

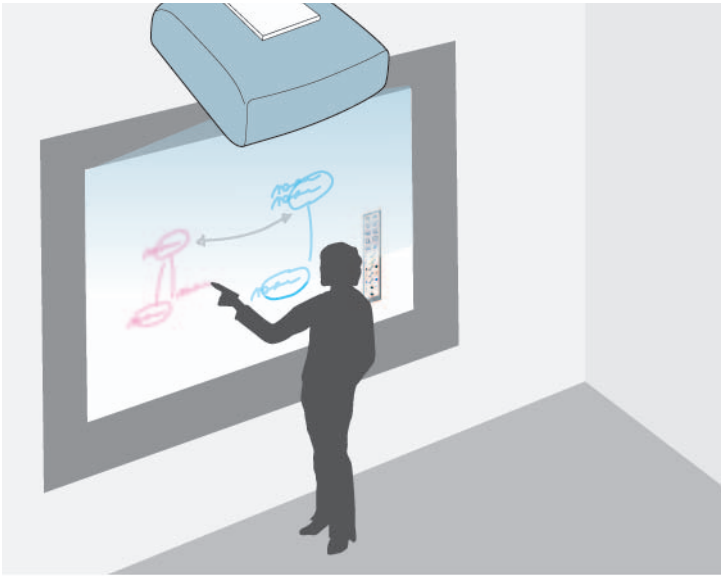
The Touch Unit is a Class 1 laser product that complies with IEC/EN60825-1:2007.

The labels indicating the Class 1 laser product and warnings are placed in the following places on the Touch Unit:



The labels indicate the following:

- CLASS 1 LASER PRODUCT
- WARNING: Never open any covers on this unit. Laser product inside.
- WARNING:
  - CAUTION: CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN
  - AVOID EXPOSURE TO THE BEAM



You can use your projector without a whiteboard by using whiteboard mode to project a whiteboard image onto a plain surface. You can then use the interactive pens or your finger (EB-1430Wi) to draw letters and shapes on the image as if it were a whiteboard. This is useful in locations that do not have a whiteboard.

In whiteboard mode, you can also use both pens, or both pens and your finger (EB-1430Wi), at the same time.

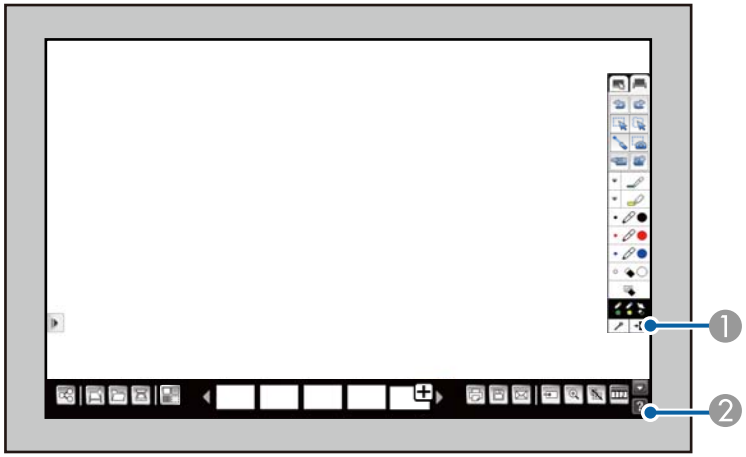
Starting Whiteboard Mode

You can draw on the whiteboard screen using the whiteboard mode toolbar and bottom toolbar.

1 Tap the pen tip or press the button on the side to turn on the interactive pen.

2 Press the [Whiteboard] button on the Control Pad or the remote control.

The toolbar and the bottom toolbar are displayed on the projected screen.



1. Whiteboard mode toolbar
2. Whiteboard mode bottom toolbar

When the toolbars are displayed, you can write on the projected screen using the interactive pen or your finger (EB-1430Wi).

The toolbar provides drawing tools such as a pen and shapes.

The bottom toolbar provides additional tools, such as tools for scanning documents and saving the screen.

"Whiteboard Mode Toolbar" p.86

"Whiteboard Mode Bottom Toolbar" p.89

- You can also start Whiteboard Mode using one of the following methods.

  - Click  on the toolbar (only when using Annotation Mode).

  - Click  on the bottom toolbar.

  - Select **Whiteboard** as the Web Remote source setting.
  ☛ "Displaying the Web Remote Screen" p.154

- Any drawings that you create in **Whiteboard Mode** are retained if you change to **Annotation Mode** or other image sources.
- If you press the [Whiteboard] button on the remote control while using **Whiteboard Mode**, the image source switches to the source you last used before starting **Whiteboard Mode**.

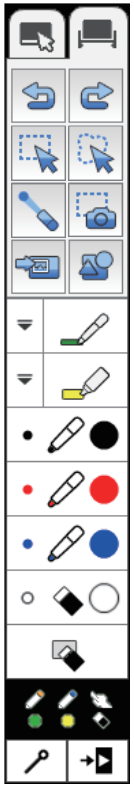
Safety Instructions for Whiteboard Mode

Note the following important points when using this feature.

- If the power is turned off unexpectedly while drawing, such as when a blackout occurs or the power cable is accidentally disconnected, the backup function automatically saves drawings to the internal storage. However, data saved to the internal storage is automatically deleted when the specified time has passed after the power was turned off. To restore the data, you need to turn the power on again before the specified time has passed.
- You can select **10 minutes**, **3 hours**, or **Never** from Whiteboard Settings as the data backup time. The default is **3 hours**. Set the backup time if necessary.
- On the Whiteboard Settings screen, you can make settings to prevent data leakage. Make settings if necessary.
☛ **Extended** - **Whiteboard Settings** p.183
- Make sure data stored in the internal storage is not disclosed accidentally (the data stored is encrypted). If **Never** is set as the data backup time, the risk of data being disclosed increases. When the projector is shared, lent, given to a third party, or disposed of, check that there is no important data such as personal or confidential information saved in the internal storage, and if there is, make sure you delete the information.
- Users are responsible for managing this data. Epson takes no responsibility for direct or indirect damage caused by loss, damage, or disclosure of the user's data or data for third parties through the use of this projector. Make sure you understand these points before use.

Whiteboard Mode Toolbar

The whiteboard mode toolbar lets you draw and write on the projected screen. The whiteboard mode toolbar is shown in the following illustration.





	Shows or hides the toolbar. The tab can be moved up and down.
	Switches to Annotation Mode or computer interactive mode.
	Switches to Whiteboard Mode when using Annotation Mode or computer interactive mode.

	Undoes the previous operation. You can undo up to 15 operations per page.
	Cancels an undo operation and restores the previous status.

	• Selects any objects and images in the area indicated by the selection range. You can drag the selection range anywhere.
	• Click an area in which there are no objects or images to cancel the current selection.
	• Click  at the bottom-right of the selected object or image to perform the following operations:
	  • Cut
	  • Copy
	  • Group/Ungroup (available when selecting multiple objects and images)
	  • Auto Crop: Deletes the black frame around the image (available when selecting a single image)
	  • Delete
	To paste the cut or copied object or image, click the screen, click , and select **Paste**. The cut or copied object or image is pasted in the center of the screen.
	• Drag the edge of the area to enlarge or reduce the object or image.
	• Drag the side of the area to crop the selected image (available when selecting a single image).
	• Drag at the top of the area to rotate the selected object or image.

	• Selects all objects and images in the area with the interactive pen. Tap the projection screen with the pen and select if necessary.
	• Click an area in which there are no objects or images to cancel the current selection.
	• Click ▼ at the bottom-right of the selected object or image to perform the following operations:
	  • Cut
	  • Copy
	  • Group/Ungroup (available when selecting multiple objects and images)
	  • Auto Crop: Deletes the black frame around the image (available when selecting a single image)
	  • Delete
	  To paste the cut or copied object or image, click the screen, click ▼, and select **Paste**. The cut or copied object or image is pasted in the center of the screen.
	• Drag the edge of the area to enlarge or reduce the object or image.
	• Drag the side of the area to crop the selected image (available when selecting a single image).
	• Drag ● at the top of the area to rotate the selected object or image.

	Turns the pen into a pointer so you can move a pointer icon on the projected screen. To control the pointer icon, drag with the pen. When sharing the screen across multiple projectors or tablet devices, the pointer is displayed on all of them. You cannot perform separate pointer operations at the same time on multiple devices. ☛ "Share Drawing Contents with Other Devices" p.96  The pointer feature differs from the projector's pointer feature. You cannot change the form of the pointer or control it with the remote control.

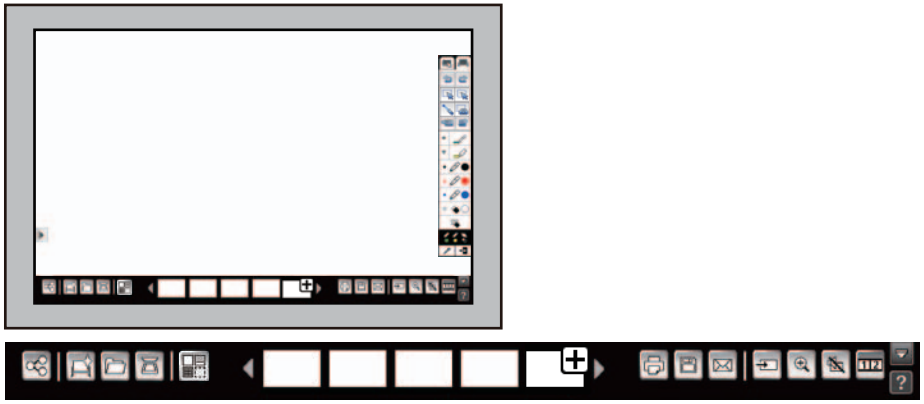
	You can capture the selected area as an image. Click to select the area and then click ▼ at the bottom-right of the selected area. To paste the captured image, click the screen, click ▼, and select **Paste**. The captured image is pasted in the center of the screen.
	Allows you to select images from the USB storage device or a network folder. You can select files that meet the following specifications: • Format: PNG, JPEG • Resolution: 2048 × 2048 maximum • Pixel Count: 2 million or less Images larger than a page are reduced to fit.
	Select shapes from a set of available shapes. You can select the color of the shape and the thickness of the lines.
	Switches to a pen to draw freely. Click ▼ on the left of the icon to change the color and width of the pen line.
	Switches to a highlighter pen to draw translucent lines. Click ▼ on the left of the icon to change the color and width of the highlighter pen.
	Switches to a black pen. Click on the right of the icon to draw thick lines, and click on the left of the icon to draw fine lines.
	Switches to a red pen. Click on the right of the icon to draw thick lines, and click on the left of the icon to draw fine lines.

	Switches to a blue pen. Click on the right of the icon to draw thick lines, and click on the left of the icon to draw fine lines.
	Switches to an eraser. Click on the right of the icon to erase wider areas, and click on the left of the icon to erase narrower areas. • If you click a shape when selecting the eraser, the whole shape is deleted. You cannot delete a partial shape. • You cannot clear images and templates.
	Clears all drawings.
	Displays which tool you are using with your pen or finger (EB-1430Wi). : Using pen tools. The color of the icon indicates the color of the pen. : Using tools to select or capture the object, and a pointer tool. : Using a shape tool. : Using eraser tools.
	Hides or shows the toolbar while drawing. : The toolbar is hidden while drawing. : The toolbar is always displayed.
	Closes the toolbar.

- You can display the following number and size of images on the whiteboard screen (including images stored on the clipboard).
  - Up to 20 files per page and 1280 × 800 × 2 pixels
  - Up to 1280 × 800 × 50 pixels for all pages
- To paste an image, you need to use the same pen that you used to cut or copy the image.
- Drawn objects are displayed at the front of the projected image. However, you can change the order by using the grouped feature.
- If objects or images are moved out of the projected screen, you may not be able to select them.

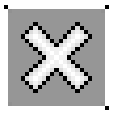
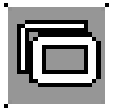
Whiteboard Mode Bottom Toolbar

The whiteboard mode bottom toolbar lets you edit the projected image and use whiteboard mode features. The whiteboard mode bottom toolbar is shown in the following illustration.



	Shares drawing contents across multiple devices and projects the shared drawing contents from other projectors. ☛ "Share Drawing Contents with Other Devices" p.96

	Performs one of the following: • **Save**: Saves the current drawing content and returns Whiteboard Mode to its default status. • **New meeting**: Clears the current drawing content and returns Whiteboard Mode to its default status.
	Opens a file and reads the data into a new page. ☛ "Compatible File Types for Opening in Whiteboard Mode" p.92
	Captures images from a scanner and pastes them on a new page. ☛ "Projecting Scanned Images in Whiteboard Mode" p.91
	Selects a background for Whiteboard Mode from a set of available patterns. Press the **Set** button to read or delete the customized templates that have been registered. You can also set customized templates using a Web browser. ☛ "Changing Settings Using a Web Browser (Web Control)" p.153  • You can change the line width by clicking the ruler icon or the grid lines icon. • If the **Protect User Templates** setting is set to **On** in the Whiteboard Settings screen, you cannot read or delete the customized template on the projected image. ☛ "Whiteboard Settings Screen" p.183

	Displays a list of the page thumbnails you are editing. You can perform the following operations using the interactive pen. • Switch the page you want to display by selecting the thumbnail. • Change the order of the page by dragging the thumbnail. • Scroll the display by flicking the thumbnail. • Click  to move to the previous page. When you press and hold the icon for a few seconds, the first page in the projected image is displayed. • Click  to move to the next page. When you press and hold the icon for a few seconds, the last page in the projected image is displayed.
	Deletes the current page.
	Duplicates the current page, and adds it after the last page.
	Adds and opens a new page.
	Prints the projected screen. ☛ "Printing Drawing Contents in Whiteboard Mode" p.94
	Saves the projected screen to the connected USB storage device or network folder. ☛ "Saving Drawing Contents in Whiteboard Mode" p.93

	Sends the projected screen by email. You need to select mail server settings before using this feature. ☛ "Sending Emails in Whiteboard Mode" p.95
	Changes the image source using the displayed list.
	Enlarges or reduces the projected image.
	Turns the video and audio off. Click the screen to turn the video and audio back on. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.141
	Splits the screen to project two images at once. Press again to return to projecting one image at a time. ☛ "Use Interactive Features when Projecting Two Images Simultaneously" p.124
	Displays the help screen for the toolbar and the bottom toolbar functions. Click anywhere on the projected screen with the interactive pen to hide the help screen.
	Shows or hides the bottom toolbar.

- You can select detailed settings for Whiteboard Mode on the Whiteboard Settings screen using the Configuration menu.
  ☛ **Extended** - **Whiteboard Settings** p.183
- You cannot use the following functions in Whiteboard Mode.
  - E-Zoom
  - Page Up/Down

Projecting Scanned Images in Whiteboard Mode

You can scan paper documents and project the data as an image on a new page in Whiteboard Mode. This function works for products connected to your projector by a USB cable or over a network.

☛ "Connecting a Printer" p.51

Set up your scanning product on a network before scanning an image in Whiteboard Mode.

☛ "Whiteboard Settings Screen" p.183

Certain products, such as standalone scanners, cannot use this feature. For a list of supported products, contact Epson as described in the *Epson Projector Contact List*.

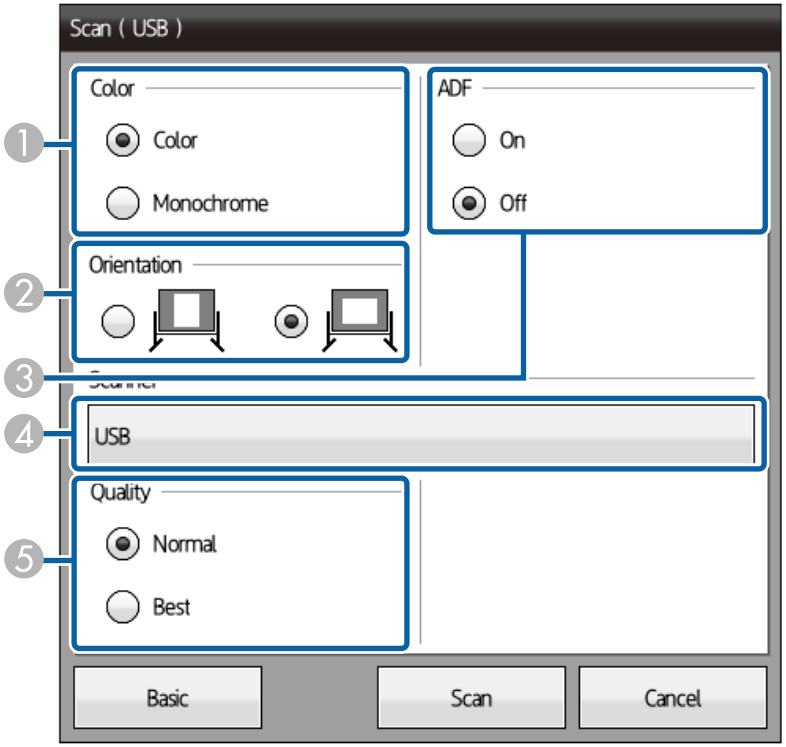
☛ *Epson Projector Contact List*

When scanning using your product, you cannot use the following scanning functions even if they are available:

- Using the scan button on your product.
- Scanning parts of the document.
- Scanning double-sided originals using an Automatic Document Feeder (ADF).

1. Load your original in the product.
2. Click  on the bottom toolbar.

   The Scan screen is displayed.
3. Select the following scan settings on the Scan screen. (Click **Advanced** to open the detailed menu.)



1. Select **Color** or **Monochrome**.
2. Select the orientation of the scanned document.
3. Select where you loaded your original. If your product does not include an ADF, the ADF selection is ignored.
4. Select the scanner you want to use.
5. Set the scan quality.

4 Click **Scan**.

The Scan screen is displayed.

After scanning, the image is projected as a new page in Whiteboard Mode.

When using a product with a built-in ADF, you can read up to 10 sheets. Repeat the procedure if you need to scan documents of more than 10 sheets.

Compatible File Types for Opening in Whiteboard Mode

The following file types can be opened and read into a page in Whiteboard Mode. Images larger than a page are reduced to fit.

Type	File Type (Extension)	Notes
Image	.jpg	The following cannot be read. • Images with a resolution greater than 2048 × 2048 • Files with the extension ".jpeg" • CMYK color mode formats • Progressive formats
	.png	Cannot read images with a resolution greater than 2048 × 2048.
PDF	.pdf	You can open PDF files for version 1.7 or earlier. Specify the page number to open a PDF file. If the file is password protected, enter the password.
EWF	.ewf	Specify the page number to open an EWF file. If the file is password protected, enter the password.

Sharing Drawings Created in Whiteboard Mode

You can share the contents of drawings you create in Whiteboard mode by saving or printing them, or sending an email containing the content.

Saving Drawing Contents in Whiteboard Mode

You can save the content you created on the projected screen to a USB storage device or a network folder.

Caution

If you are using a multi-card reader or USB hub, operations may not be performed correctly. For best results, connect directly to the projector or the Control Pad.

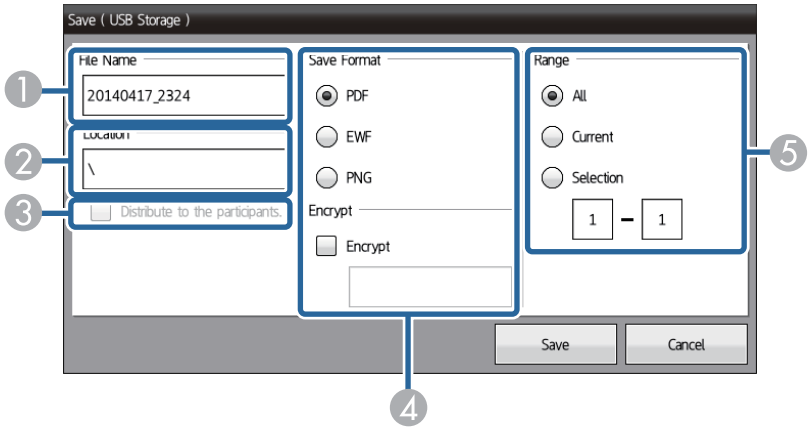
You may not be able to use USB storage devices that incorporate security functions.

1 Press the [Save] button on the Control Pad or the icon on the bottom toolbar.

You can also press the [Save] button on the remote control.

The Save screen is displayed.

2 Select the following save settings on the Save screen.



1. Enter the file name. Click the text box to display the soft keyboard, and then enter the file name.
2. When pressed, a dialog box is displayed and you can select the folder in which to save the image.
3. (Only available when sharing a whiteboard screen)
   Select the check box to save the file on a Web browser connected to the projector.
   The drawing content is temporarily saved on the projector and it can be downloaded via a Web browser.
   After the drawing content has been downloaded, the temporarily saved data is deleted from the projector.

   You can save the file as a PDF or in PNG format.
   ☛ "Connecting to a Whiteboard Screen from a Tablet PC or Computer via a Web Browser" p.101
4. Select the save format (PDF, PNG, or EWF). For PDFs or EWFs, you can encrypt the file. Enter a password when you want to encrypt the file.

Attention

- When you enter the password, it is displayed on the screen.
- When encrypting a file, make sure you do not forget the password.

⑤ Set the range of pages that you want to save. You cannot select **All** if the save format is PNG.

3 Click **Save**.

When **Distribute to the participants.** is enabled in Step 2, the drawing content is temporarily saved on the projector and following dialog boxes are displayed in Web browsers and the projector.

- Web browsers: A dialog box is displayed to save the drawing content.
- Projector: A dialog box is displayed to check the download status. All participants finish downloading, and then close the dialog box.

Available File Format in Whiteboard Mode

You can save in the following file formats:

- PNG (Resolution: 1280 × 800)
- PDF (set a password if necessary)
- EWF (only available for projectors that support the EWF format; set a password if necessary)

When saving the file as editable, select the EWF format. The EWF format file can only be used with the projector.

Printing Drawing Contents in Whiteboard Mode

You can send the projected screen to the printer connected using a USB cable or over a network and prints the data.

☛ "Connecting a Printer" p.51

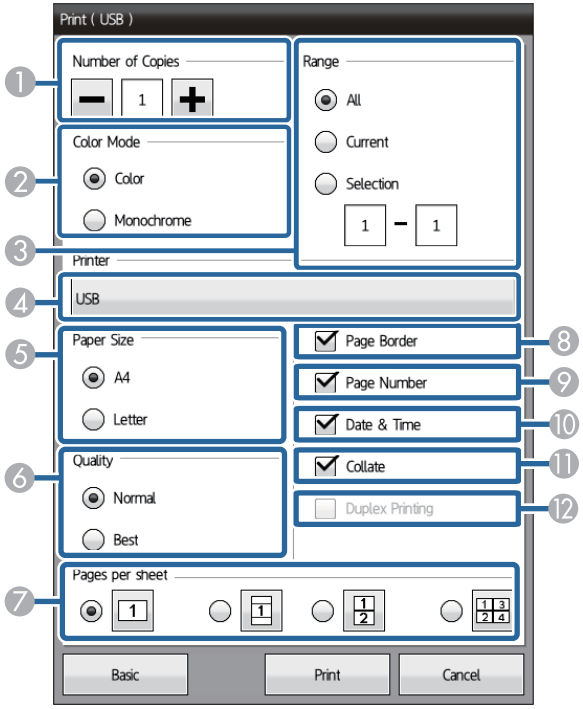
You need to make settings for network printers in advance.

☛ "Whiteboard Settings Screen" p.183

1 Press the [Print] button on the Control Pad or press on the bottom toolbar.

You can also print from the [Print] button on the remote control.

2 Select the following print settings on the Print screen. (Click **Advanced** to open the detailed menu.)



① Specifies the number of copies. You can specify up to 20 sheets.
② Specifies the print color.
③ Set the range of pages that you want to print.

④ Displays a list of connected printer names. Select the printer you want to use.

⑤ Set the print paper size.

⑥ Set the print quality.
(Only available when using the printers with a control command of ESC/P-R.)

⑦ Set the number of pages per sheet.

⑧ Set whether or not to add a border to each page.

⑨ Set whether or not to print a page number on each page.

⑩ Set whether or not to print a date and time on each page.

⑪ Set whether or not to collate pages when printing.

⑫ If your printer supports double-sided printing, select whether to print on both sides.
(This item cannot be selected when using the printers with a control command of ESC/P-R.)

3 Click **Print**.

Available Printer Control Commands in Whiteboard Mode

The following printer* control commands are supported.

Control commands	Connection method
ESC/P-R	USB or over a network
ESC/Page, ESC/Page-Color	Over a network
PCL6	

* Not all printers are supported. For more details on supported models, contact your local dealer or the nearest address provided in the *Epson Projector Contact List*.

☛ *Epson Projector Contact List*

Sending Emails in Whiteboard Mode

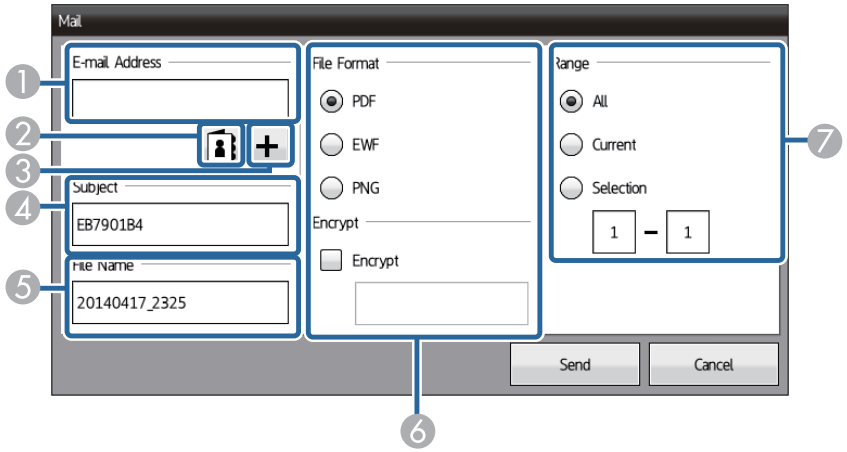
You can attach an image of the screen projected in Whiteboard Mode and send it by email. You can specify up to 10 addresses.

- To send emails, you need to make mail server settings in advance.
- The address set for the sender in Whiteboard settings is used as the sender's address. If the sender's address has not been set, the address set for the recipient as displayed as the sender.
- You cannot edit the text in the email.

1 Click  on the bottom toolbar.

The Mail screen is displayed.

2 Select the following email settings on the Mail screen.



① Enter the email address for the sender. The email address you set is stored until you use New meeting.

2 Select the email address for the sender from the registered address book. You can set the address book using a Web browser.
☛ "Creating an Address Book" p.157

3 Add the destination address. You can specify up to 10 addresses.

4 Enter the subject for the email.

5 Enter the file name for the attachment.

6 Select the format for the attached file (PDF, PNG, or EWF). For PDFs and EWFs, you can encrypt the file. Enter a password when you want to encrypt the file.

Attention
- When you enter the password, it is displayed on the screen.
- When encrypting a file, make sure you do not forget the password.

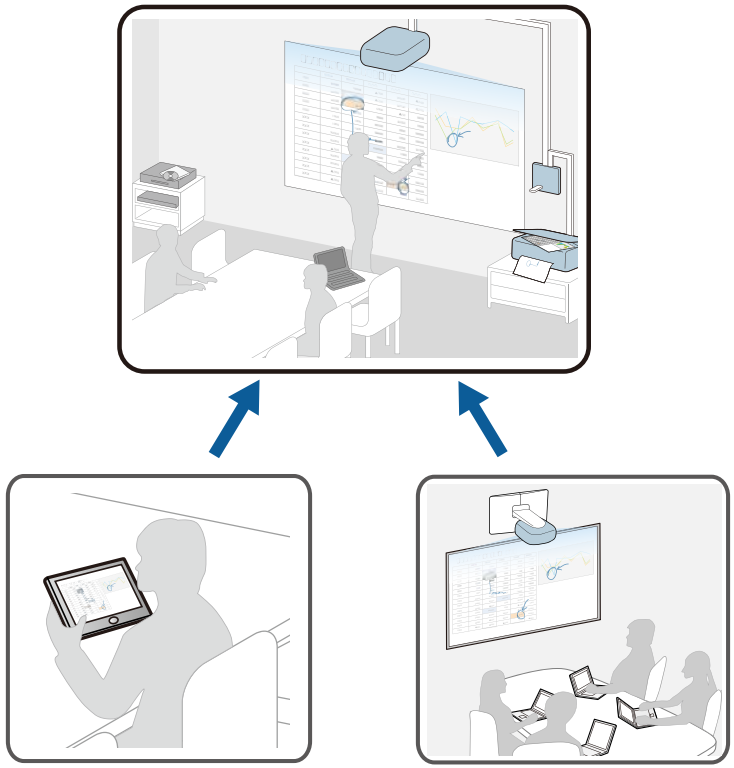
7 Set the page that you want to send.

3 Click **Send**.

- If there is a lot of content on the projected screen, it may take a while to send the email.
- You may not be able to send the email depending on the destination mail server settings. Contact your network administrator about the mail server settings in advance.

Share Drawing Contents with Other Devices

You can share the whiteboard screen with other devices that are connected to the same network. This allows you to view and draw on the whiteboard screen at the same time from other projectors or tablet devices.



When sharing a whiteboard, you need to connect the projector to the network.

To connect to the network using a cable, connect a LAN cable to the projector.

☛ "Connecting a LAN Cable" p.44

To connect to the network wirelessly, install the supplied wireless LAN unit on the projector, and then configure the Wireless LAN settings from the Network menu.

☛ "Installing the Wireless LAN Unit" p.45

☛ "Wireless LAN Menu" p.190

You can share the whiteboard screen with projectors that support the whiteboard sharing feature.

Sharing Whiteboard Screen with Other Devices

You can share your whiteboard screen with up to 15 external devices, such as other projectors and tablet devices, by using the projector as a Web server. The content is shared to other external devices where it can be viewed and saved. You can also draw on the projector's whiteboard screen from the external devices.

When sharing your whiteboard screen, you need to open the following network ports.

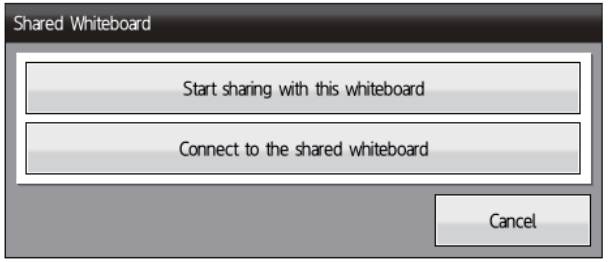
Port	Protocol	Usage	Communication
80	TCP	Connect/Transfer images	two-way
443			two-way (when using SSL)

The communication bandwidth for sharing the whiteboard screen differs depending on the amount of drawing content. Also, depending on the total amount of drawing content, a broad bandwidth is temporarily required when the connections starts.

1 Click  on the bottom toolbar.

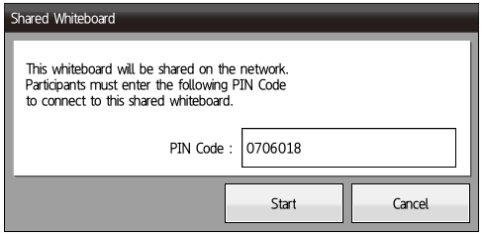
The Shared Whiteboard screen is displayed.

2 Click **Start sharing with this whiteboard**.



A PIN code is displayed for connecting to the projector (7-digit code).

3 Check the PIN code. If necessary, change it.



Once you set the PIN code, you cannot change it until you end whiteboard sharing.

4 Click **Start**.

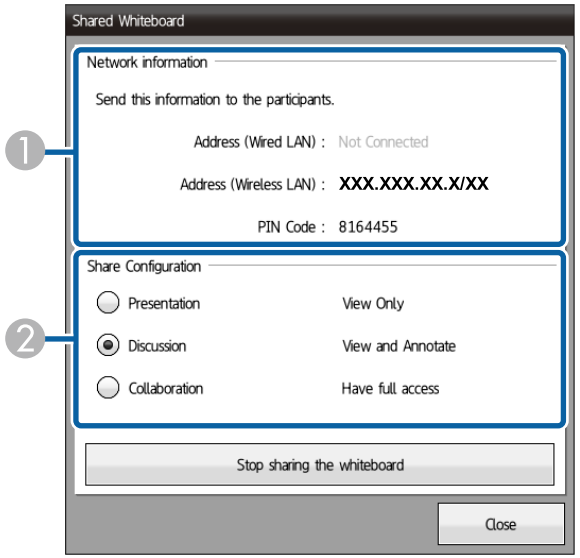
Whiteboard screen sharing with other devices is now available.

The following information is displayed on the bottom toolbar.

- The number of users connecting to the whiteboard screen.
- The user control authority you selected in **Share Configuration**.



5 Click  on the bottom toolbar to display the address/PIN code, and then set the control authority for the devices that connect to the projector.



1. Displays the information you need to connect to the projector. To connect the projector from an external device, enter the following items.
   - **Address (Wired LAN)/Address (Wireless LAN)**: Displays the projector's address for connecting.
   - **PIN Code**: Displays the PIN code you set in Step 3 (7-digit code).

> **Caution**
> - If the PIN code is not entered correctly in the external devices, you cannot connect to the projector.
> - To avoid the risk of data being disclosed, restrict the PIN code to the users connecting to the projector.

2. Set the control authority for external devices that connect to the projector.
   - **Presentation**: You can view and save projector's whiteboard screen from external devices. You cannot edit pages or draw content on the whiteboard screen.
   - **Discussion**: You can draw on the projector's whiteboard screen from external devices. You cannot edit pages or read templates.
   - **Collaboration**: You can control the projector's features except for the **New meeting** features from external devices.

6 Click **Close**.

7 Enter the projector's address and PIN code on the external device.

The projector's whiteboard screen is displayed on the external device.

- When you finish sharing the whiteboard screen, click  on the bottom toolbar and click **Stop sharing the whiteboard** on the screen displayed. When a message is displayed, click **OK** to finish sharing the whiteboard screen.
- If there is a lot of drawing content and images pasted on the whiteboard screen, it may take a while to be reflected on other projectors and Web browsers.

Browse the Shared Drawing Contents

You can connect to a shared projector and view the whiteboard screen. You can view and save the whiteboard screen and draw on the screen from other projectors or tablet devices.

> **Caution**
> All drawing content on the projected screen is erased if you connect to another whiteboard screen.

- When connecting to another projector, you need to enter an address and PIN code for the connected projector. You can check these in **Network information** for the connected projector.
  ☛ "Sharing Whiteboard Screen with Other Devices" p.97
- Available features differ depending on the **Share Configuration** settings for the connected projector.
  If the **Share Configuration** settings for the connected projector are changed while connecting to the whiteboard screen, the available features for the projector are also changed.
- You can connect to up to 15 projectors from one projector.

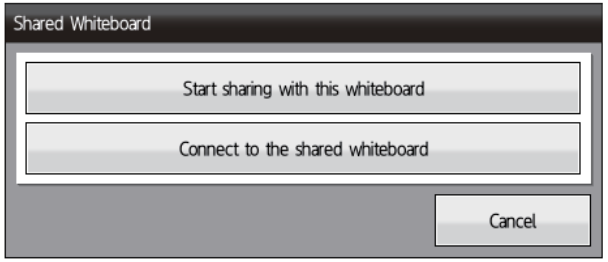
Connecting to a Whiteboard Screen from Other Projectors

You can connect to a shared projector from the projector and view the whiteboard screen.

1 Click  on the bottom toolbar.

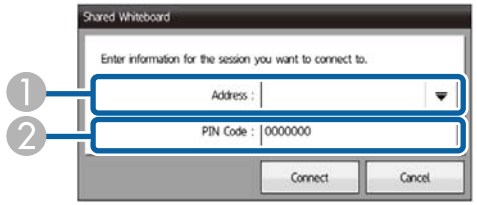
The Shared Whiteboard screen is displayed.

2 Click **Connect to the shared whiteboard**.



3 Check the displayed message, and then click **OK**.

4 Enter the address and PIN code.



1. Enter the address for the connected projector.

   Click  to display the projector connection logs for up to 5 projectors.

   Connection logs are saved even if the projector is turned off.
2. Enter the PIN code for the connected projector (7-digit code).

If you enter the wrong PIN code 10 times in 10 minutes, you cannot connect to the whiteboard for three minutes.

5 Click **Connect**.



The following information is displayed on the bottom toolbar.

- The number of users connecting to the whiteboard screen.
- The user control authority you selected in **Share Configuration**.

- When you finish sharing the whiteboard screen, click  on the bottom toolbar, and then click **Stop sharing the whiteboard** on the screen displayed. When a message is displayed, click **OK** to finish sharing the whiteboard screen.
- If there is a lot of drawing content and images pasted on the whiteboard screen, it may take a while to be reflected on other projectors and Web browsers.

Available Features when Connecting to a Whiteboard Screen

Available features differ depending on the **Share Configuration** settings of the connected projector.

Available features for all authorities

-  : Pointer
-  : Page Thumbnails
-  : Print
-  : Save
-  : Send E-mails
-  : Zoom

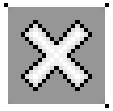
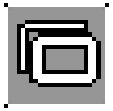
Available features for Discussion and Collaboration

-  : Undo
-  : Redo

-  : Rectangle Select
-  : Free Select
-  : Capture Image
-  : Read Image
-  : Shapes
-  : Pen
-  : Highlighter Pen
-  : Black Pen
-  : Red Pen
-  : Blue Pen

-  : Eraser
-  : Clear Screen

Available features for Collaboration

-  : Paste File
-  : Read from Scanner
-  : Template
-  : Delete Page
-  : Copy Page
-  : New Page

Connecting to a Whiteboard Screen from a Tablet PC or Computer via a Web Browser

You can connect to another whiteboard screen from tablet devices or computers on the network using a Web browser.

1 Connect your device to the same network as the connected projector.



The connection method differs depending on the device. See the documentation supplied with the device. Check the Wi-Fi settings when using a tablet device.

2 Start a Web browser on the device.

3 Enter the address for the connected projector and then connect to the projector.

4 Enter the PIN code for the connected projector (7-digit code), and then click **Join**.

The whiteboard screen and toolbar are displayed on the connected projector.



- To finish sharing the whiteboard screen, click  and then click **Disconnect**. You can also finish sharing by closing the Web browser.
- If there is a lot of drawing content and images pasted on the whiteboard screen, it may take a while to be reflected on other projectors and Web browsers.
- Drawing content is protected by AES encryption. Some Web browsers use SSL encryption. You can continue to connect to the Web browser even if a certificate error is displayed.

Connectable Web Browser Requirements for Whiteboard Screen

You can connect the following Web browsers to another whiteboard screen from tablet devices and computers.

OS	Web browser	Screen size
Windows	Internet Explorer 8*/9*/10/11	Lower than XGA
OS X	Safari 5/6/7	Lower than 1280 × 800
iOS	iOS 6.0/7.0 or later	Lower than 1024 × 768
Android OS	Android OS 4.0 or later (standard browser only)	Aspect ratio: 4:3 lower than 1024 × 768 Aspect ratio: 16:9 lower than 1280 × 600 Aspect ratio: 16:10 lower than 1280 × 720

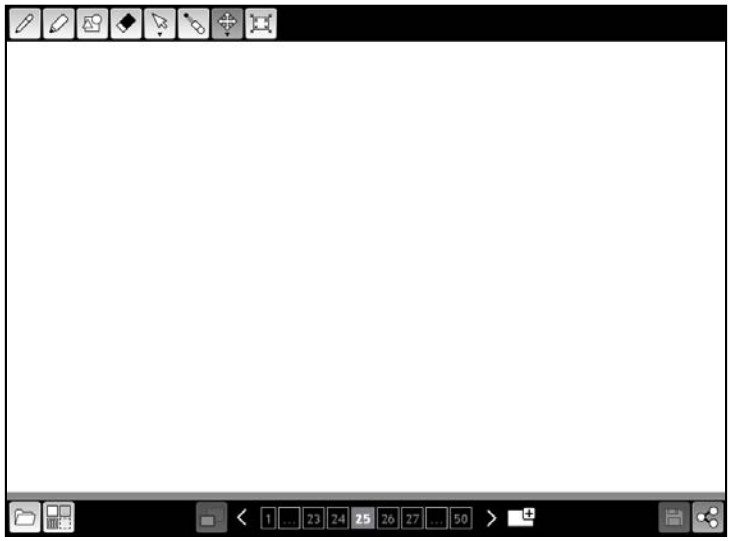
* SSL connection. Some feature are limited.

The available drawing range narrows depending on the screen size of the device.

Toolbar for Whiteboard Screen Connecting via a Web Browser

To control the whiteboard screen from a Web browser, use the toolbar below. Available features differ depending on the **Share Configuration** settings for the connected projector.

☛ "Sharing Whiteboard Screen with Other Devices" p.97



Available features for all authorities

	(Only available when **Distribute to the participants.** is selected when saving to the connected projector) Saves the whiteboard screen as a PDF or in PNG format depending on the settings for the connected projector.
	Displays the Pointer. This is useful for directing attention to specific parts of the screen. You can move it by dragging. If the pointer is displayed on one device, it is displayed on all of the connected devices.
	Adjusts the display conditions according to the device. The following operations are available: • Fit page • Fit width • Fit height • Enlarge • Reduce

	Displays the entire area of the whiteboard screen.

Available features for Discussion and Collaboration

	Switches to a pen to draw freely.
	Switches to a highlighter pen that can draw translucent lines.
	Select shapes from a set of available shapes.
	Switches to an eraser. To delete drawing content, click to select the drawing content, and then click **OK** on the displayed message. You cannot delete partial drawing content.

	Click to select an object or image. When dragging, a frame that indicates the selection range is displayed. You can select objects and images within the frame.
	You can perform the following operations while an object or an image is selected:
	• When dragging, you can move the objects and images within the frame.
	• When clicking  again, you can perform the following operations:
	  • Cut
	  • Copy
	  • Paste
	  • Group
	  • Ungrouped
	  • Delete
	• When dragging an edge of the frame, you can enlarge or reduce the objects and images within the frame.
	• When dragging  at the top of the frame, you can rotate the objects and images within the frame.

	Select the thickness of the lines for pen or shape selected.
	Select the color of the pen and shape selected. You can also select other colors displayed in the toolbar by clicking .
	Reads PNG/JPEG file into the whiteboard. You can select files that meet the following specifications: • Format: PNG, JPEG • Resolution: 2048 × 2048 maximum • Pixel Count: 2 million or less Images larger than a page are reduced to fit.

Available features for Collaboration

	Select a background for the whiteboard from a set of available patterns.
	Set a display page. • **Off**: Displays a page that differs from the connected projector. You can only draw on pages displayed on the connected projector. • **ON**: Syncs the page with the connected projector. When you change pages in your Web browser, the change is reflected on the connected projector.
	Displays a list of the page thumbnails being edited. • Click  to go to the previous page. • Click  to go to the next page.
	Opens a new page.



You cannot use the following features:

- Switch to Annotation Mode
- Undo/Redo
- Clear screen
- Select objects freely
- Crop selected images
- Read customized templates
- Read PDF/EWF files
- Create new meetings
- Scan
- Print
- Send emails
- Delete the page
- Projector control tools
- Help



Annotation mode lets you project from a computer, tablet, video device, or other source and add notes to your projected content using the interactive pens or your finger (EB-1430Wi). You can use both pens at the same time. You can also use both pens and your finger at the same time (EB-1430Wi).

Starting Annotation Mode

To draw on the projected screen using annotation mode, you need to display the annotation mode toolbar and bottom toolbar.

1 Project an image from a connected device.

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54

2 Tap the pen tip or press the button on the side to turn on the interactive pen.

3 Hold the interactive pen close to the projected screen.

The toolbar and the bottom toolbar are displayed on the projected screen.



1. Annotation mode toolbar
2. Annotation mode bottom toolbar (click  to display)

When the toolbars are displayed, you can write on the projected screen using the interactive pen.

The toolbar provides drawing tools such as a pen and other tools.

The bottom toolbar provides additional tools, such as tools for saving the screen.

☛ "Annotation Mode Toolbar" p.106

☛ "Annotation Mode Bottom Toolbar" p.108

- To switch the Annotation Mode to Whiteboard Mode, press the [Whiteboard] button on the Control Pad or the remote control, or click  on the toolbar.
- You can also switch computer interactive mode to annotation mode.
  ☛ "Using Computer Interactive Mode" p.111
- When projecting from one computer to two projectors (multiple displays), you cannot write or draw on multiple screens.
- When using multiple displays with Windows 7 and using interactive features on the secondary display, make the following settings:

  - Set the **Pen Operation Mode** setting to **One User/Pen** in the **Easy Interactive Function** setting in the projector's **Extended** menu (EB-1420Wi).

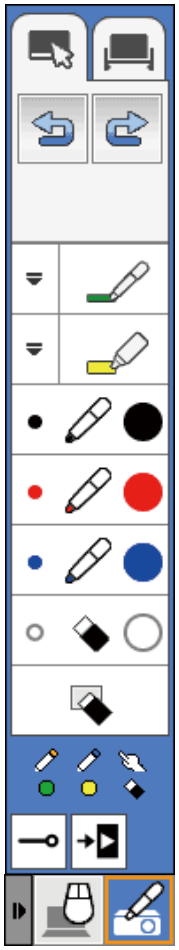
  - Set the **Pen Operation Mode** setting to **Mode 2** in the **Easy Interactive Function** setting in the projector's **Extended** menu (EB-1430Wi).

  - Go to **Control Panel** > **Hardware and Sound** > **Table PC Settings** > **Setup** to launch the setup program and configure the interactive features.

  If you set up a third display, you cannot use interactive features with that display.

Annotation Mode Toolbar

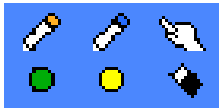
The annotation mode toolbar lets you draw and write on the projected screen. The annotation mode toolbar is shown in the following illustration.





	Shows or hides the toolbar. The tab can be moved up and down.
	Switches to Annotation Mode when using Whiteboard Mode.

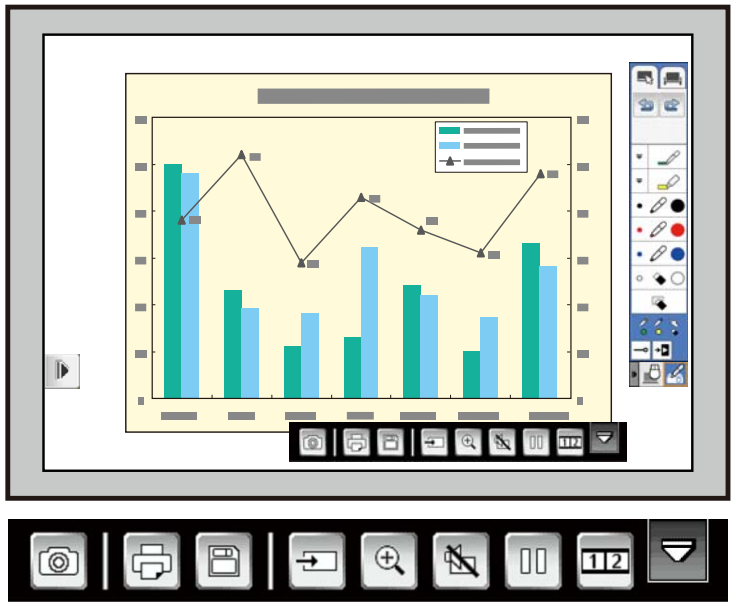
	Switches to Whiteboard Mode.
	Undoes the previous operation.
	Cancels an undo operation and restores the previous status.
	Switches to a pen to draw freely. Click ▼ on the left of the icon to change the color and width of the pen line.
	Switches to a highlighter pen to draw translucent lines. Click ▼ on the left of the icon to change the color and width of the highlighter pen.
	Switches to a black pen. Click on the right of the icon to draw thick lines, and click on the left of the icon to draw fine lines.
	Switches to a red pen. Click on the right of the icon to draw thick lines, and click on the left of the icon to draw fine lines.
	Switches to a blue pen. Click on the right of the icon to draw thick lines, and click on the left of the icon to draw fine lines.
	Switches to an eraser. Click on the right of the icon to erase wider areas, and click on the left of the icon to erase narrower areas.

	Clears all drawings.
	Displays which tool you are using with your pen  or finger  (EB-1430Wi).  : Using pen tools. The color of the icon indicates the color of the pen.  : Using eraser tools.
	Hides or shows the toolbar while drawing. : The toolbar is hidden while drawing. : The toolbar is always displayed.
	Closes the toolbar.

 	Switches from annotation mode to computer interactive mode if you want to operate the computer while drawing. • To change from annotation mode to computer interactive mode, press  icon and then select  icon. After changing to computer interactive mode, content drawn using annotation mode is retained. • To change from computer interactive mode to annotation mode, press  icon and then select  icon. ☛ "Using Computer Interactive Mode" p.111  • If the  icon is not displayed, set the **Pen Mode Icon** setting to **On** in the projector's **Extended** menu. ☛ **Extended - Display - Pen Mode Icon** p.179 • You can also change annotation mode to computer interactive mode using the following methods: - Press the [Pen Mode] button on the remote control. - Change **Pen Mode** settings from the Configuration menu. ☛ **Extended - Easy Interactive Function - Pen Mode** p.179

Annotation Mode Bottom Toolbar

The annotation mode bottom toolbar lets you control the projector just as you would using the Control Pad or the remote control. The annotation mode bottom toolbar is shown in the following illustration.



	Takes a snapshot of the projected screen. After taking the snapshot, the image is pasted onto a new page in Whiteboard Mode.
	Sends the projected screen to the printer. Items that can be set differ from the Whiteboard Mode save feature. ☛ "Printing Drawing Contents in Annotation Mode" p.109
	Saves the projected screen in PNG format. Items that can be set differ from the Whiteboard Mode save feature. ☛ "Saving Drawing Contents in Annotation Mode" p.109
	Changes the image source using the displayed list. To close the source list, select the  icon at the bottom of the list.

	Zooms into and out of the image using the scale or the + and - icons in the displayed list. You can do the following: • The image can be enlarged to between 1 to 4 times. To return to the original image size, select x1. • You can expand and reduce quickly by holding down the + or - icon. To close the scale list, select the  icon at the bottom of the list.
	Turns off picture and sound. Tap the projected screen to turn the video and audio on. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.141
	Pauses video action.
	Splits the screen to project two images at once. Press again to return to projecting one image at a time. ☛ "Use Interactive Features when Projecting Two Images Simultaneously" p.124
	Shows or hides the bottom toolbar.

You cannot capture images or print and save content that is protected by HDCP.

Using Drawing Contents of Annotation Mode

You can share drawing content created in annotation mode by saving and printing the data.

Saving Drawing Contents in Annotation Mode

You can save drawing content you created on the projected screen to a USB storage device or a network folder. You can save in PNG format. The file is saved in the location set in the **Save** menu in **Whiteboard Settings**. An error occurs if you cannot access the set location. The file name is set automatically.

☛ "Save Menu" p.185

Press the [Save] button on the Control Pad or  icon on the bottom toolbar.

You can also save using the [Save] button on the remote control.

The file is saved automatically.

Printing Drawing Contents in Annotation Mode

You can print the drawing content you created using the printer settings in the **Print** menu in Whiteboard settings. An error occurs if a printer is not connected.

☛ "Print Menu" p.185

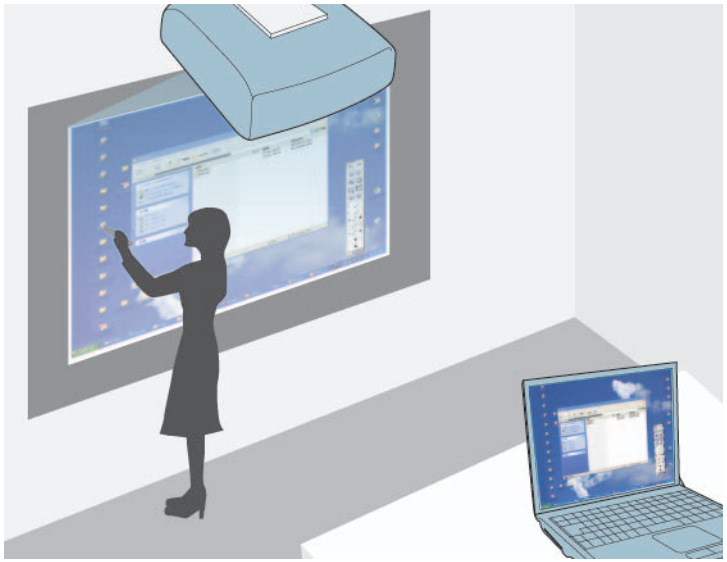
1 Press the [Print] button on the Control Pad or press  on the bottom toolbar.

You can also print using the [Print] button on the remote control.

The Print screen is displayed.

2 Specify the number of copies on the Print screen (up to 20 sheets).

3 Click **Print**.



When the projector is connected to a computer with a USB cable, you can operate the computer from the projected screen using the interactive pens or your finger (EB-1430Wi), just as you would with a mouse. You can navigate, select, and interact with your computer programs from the projected screen.

- When using multiple displays with Windows 7 and using interactive features on the secondary display, make the following settings:
  - Set the **Pen Operation Mode** setting to **One User/Pen** in the **Easy Interactive Function** setting in the projector's **Extended** menu (EB-1420Wi).
  - Set the **Pen Operation Mode** setting to **Mode 2** in the **Easy Interactive Function** setting in the projector's **Extended** menu (EB-1430Wi).
  - Go to **Control Panel** > **Hardware and Sound** > **Table PC Settings** > **Setup** to launch the setup program and configure the interactive features.

  If you set up a third display, you cannot use interactive features with that display.
- To use computer interactive mode over a network, you need to install EasyMP Network Projection version 2.85 or later (for Windows) or 2.83 or later (for OS X), or Quick Wireless version 1.32 or later.
- When the source is **Video**, **USB1**, or **USB2**, you cannot use the computer interactive mode.

Using Computer Interactive Mode

You can control your computer programs from the projected screen using computer interactive mode.

1. If you are using OS X, install the Easy Interactive Driver on your computer the first time you use the interactive features.

   ☛ "Easy Interactive Driver System Requirements (OS X only)" p.115

   ☛ "Installing Easy Interactive Driver on OS X" p.116

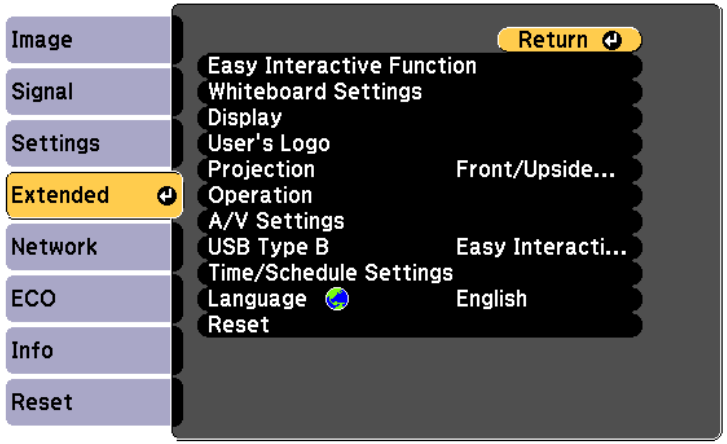
2. Connect the projector to your computer using a USB cable.

- When using the Control Pad, you need to connect the projector, the Control Pad, and your computer using USB cables.
  ☛ "Connections when Projecting with USB Display and when Performing Mouse Operations Using the Interactive Feature" p.48
- When using computer interactive mode over a network, you do not need a USB cable.
  ☛ "Using the Interactive Features over a Network" p.120

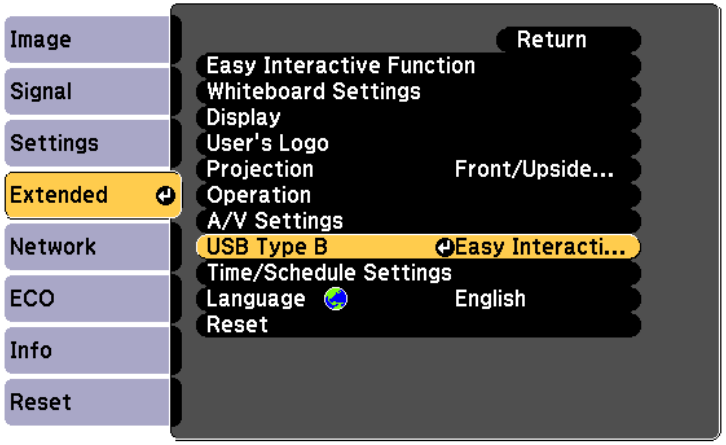
3 Turn on the projector.

4 Project your computer screen.

5 Press the [Menu] button, select the **Extended** menu, and then press the [Enter] button.



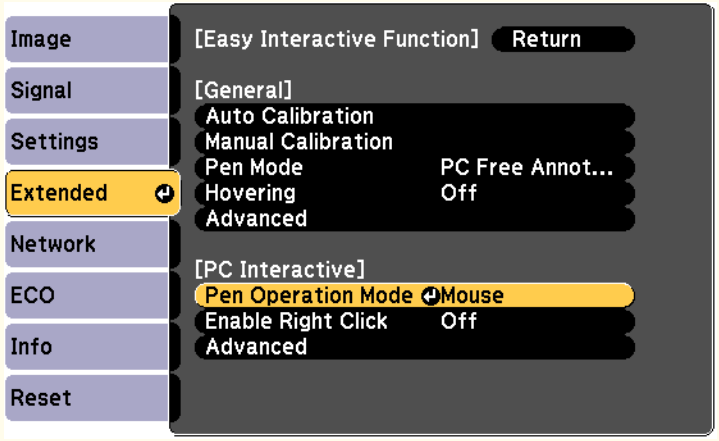
6 Select the **USB Type B** setting, and then press the [Enter] button.



7 Select one of the following:

- To use computer interactive mode with a computer cable, an HDMI cable, or over a network, select **Easy Interactive Function**.
- To use computer interactive mode and USB Display at the same time, select **USB Display/Easy Interactive Function**.

- When projecting using USB Display, response time may be slower.
- Using two interactive pens at the same time may cause interference in some applications. Move the unused interactive pen away from the projection screen.
- Select the **Pen Operation Mode** setting in the **Easy Interactive Function** setting in the **Extended** menu according to the operating system of the connected computer (EB-1430Wi).



- Windows XP or earlier: Select **Mode 1**.
- Windows Vista, Windows 7, Windows 8 and OS X: Select **Mode 2**.
- Linux: Select **Mode 3**.

8 Press the [Menu] button to exit the menus.

9 Make sure you have calibrated the first time you use your projector.

☛ "Pen Calibration" p.76
☛ "Calibrating for Touch Operations with Your Finger" p.81

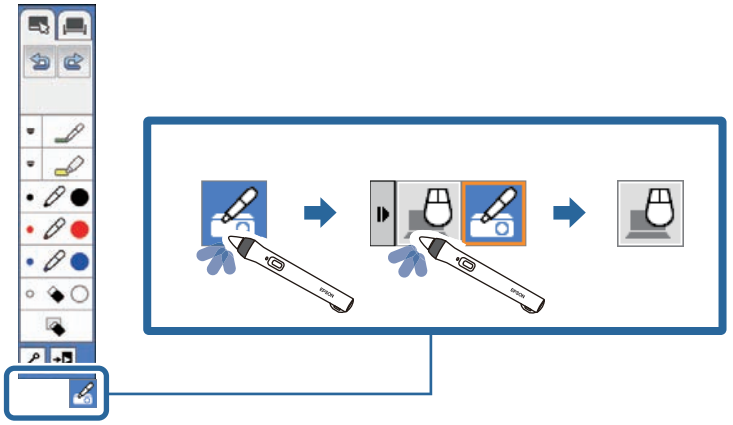
10 Hold an interactive pen or your finger close to the projected screen.

The icon is displayed on the projected screen.

- The icon is displayed on the right the first time. Next time, it is displayed on the side from which you last opened the toolbar.
- If the icon is not displayed, set the **Pen Mode Icon** setting to **On** in the projector's **Extended** menu.

☛ **Extended** - **Display** - **Pen Mode Icon** p.179

11 Select the icon, and then select the icon.



You can also change to computer interactive mode by doing the following:

- Pressing the [Pen Mode] button on the remote control.
- Changing the **Pen Mode** setting on the projector's **Extended** menu to **PC Interactive**.

☛ **Extended - Easy Interactive Function - Pen Mode** p.179

You can now operate the computer using the interactive pen or your finger. You can also operate the following:

- The Tablet PC input panel in Windows 7 or Windows Vista.
- Ink Tools for annotation in Microsoft Office applications.

☛ "Windows Pen Input and Ink Tools" p.122

Adjusting the Pen Operation Area

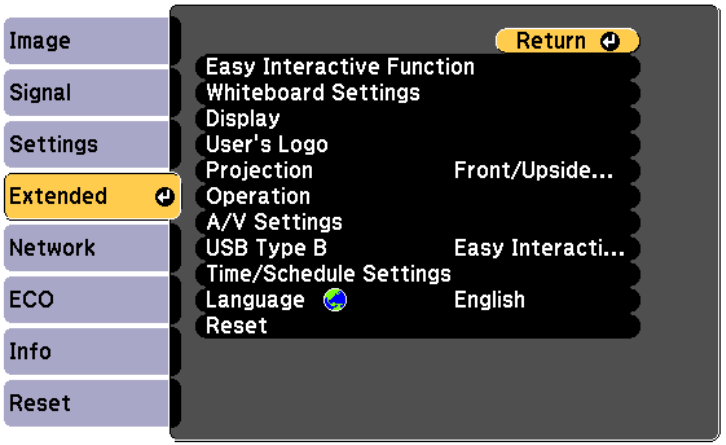
The pen operation area is normally adjusted automatically if you connect a different computer or adjust the computer's resolution. If you notice that the pen position is incorrect when you operate your computer from the projected screen (computer interactive mode), you can adjust the pen area manually.

Manual adjustment is not available when projecting from a LAN source.

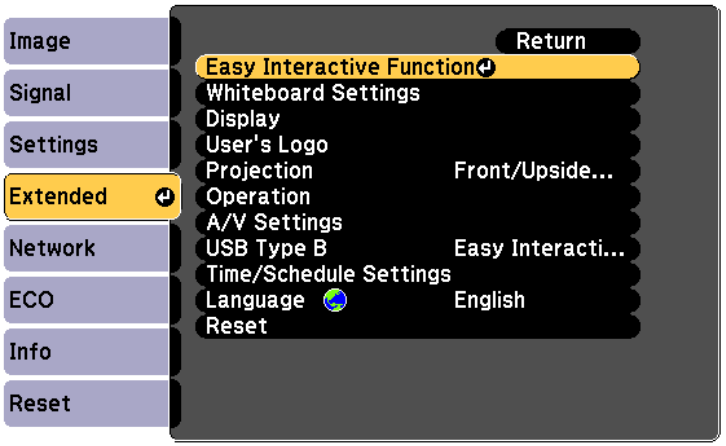
1 Switch to computer interactive mode, if necessary.

☛ "Using Computer Interactive Mode" p.111

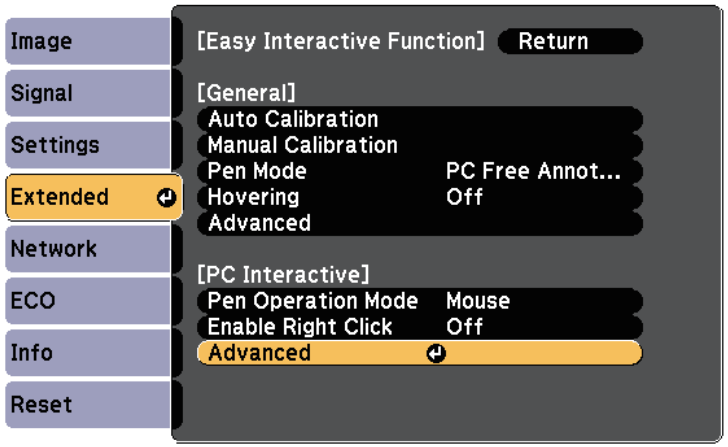
2 Press the [Menu] button, select the **Extended** menu, and press the [Enter] button.



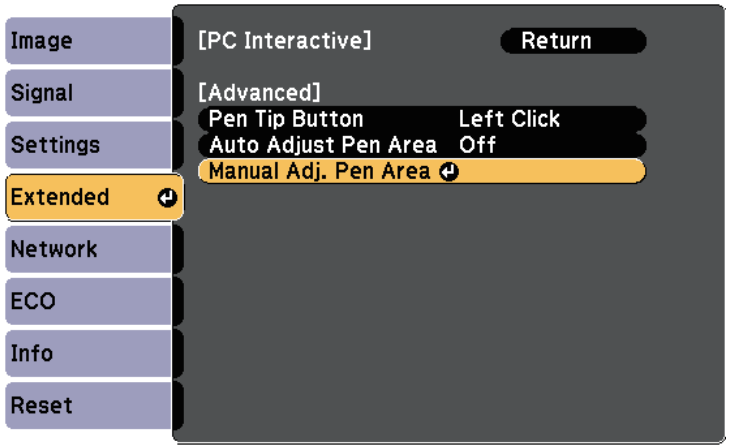
3 Select the **Easy Interactive Function** setting and press the [Enter] button.



4 In the **PC Interactive** section, select **Advanced** and press the [Enter] button.

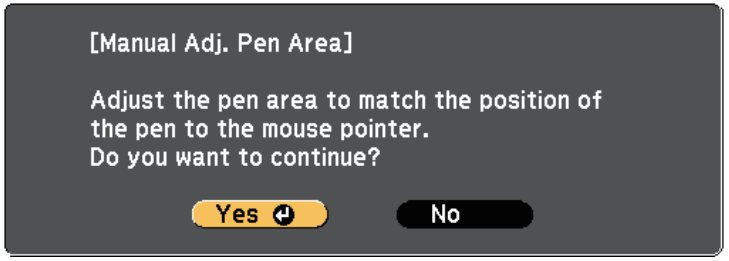


5 Select **Manual Adj. Pen Area** and press the [Enter] button.



When **Auto Adjust Pen Area** is set to **ON**, change to **OFF**.

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



The mouse pointer moves toward the top left corner.

7 When the mouse pointer stops at the top left corner of the image, touch the tip of the pointer with the pen.

The mouse pointer moves toward the bottom right corner.

8 When the mouse pointer stops at the bottom right corner of the image, touch the tip of the pointer with the pen.

Easy Interactive Driver System Requirements (OS X only)

To use computer interactive mode, you must install the Easy Interactive Driver on your computer. Check the system requirements necessary to run the software.

Operating system	Mac OS X 10.5.x Mac OS X 10.6.x OS X 10.7.x OS X 10.8.x OS X 10.9.x
CPU	Power PC G4 1 GHz or faster CoreDuo 1.83 GHz or faster recommended
Memory	512 MB or more

Hard disk space	100 MB or more
Display	Resolution between 1024 × 768 (XGA) and 1920 × 1200 (WUXGA) 16-bit color or greater (approximately 32,000 display colors)

Installing Easy Interactive Driver on OS X

Install Easy Interactive Driver on your computer to use computer interactive mode.

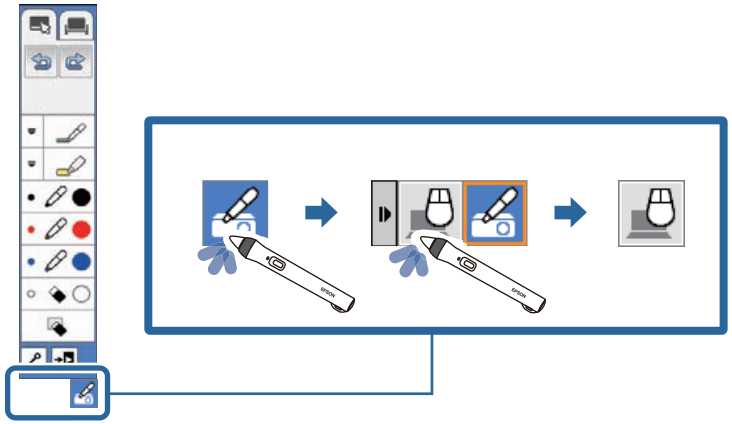


You may have already installed Easy Interactive Tools using the **Easy Install** option, which also installs Easy Interactive Driver. See the *Easy Interactive Tools Operation Guide* in the Document CD-ROM for details.

1. Turn on your computer.
2. Insert the EPSON Projector Software for Easy Interactive Function CD into the computer.
   You see the EPSON window.
3. Double-click the **Install Navi** icon in the EPSON window.
4. Select **Custom Install**.
5. Follow the on-screen instructions to install the software.
6. Restart your computer.

You can easily switch the interactive mode using the icon displayed on the projected screen.

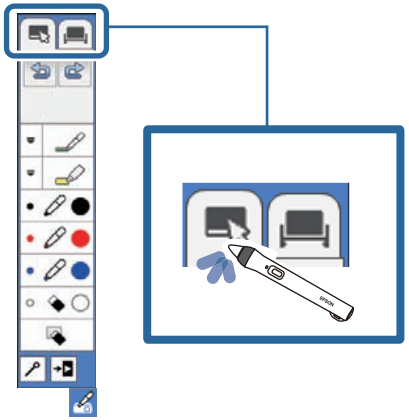
- To switch between computer interactive mode and annotation mode, select one of the following icons:
  - To change from annotation mode to computer interactive mode:



  - To change from computer interactive mode to annotation mode:



- To switch between annotation mode and whiteboard mode, select the following icon in the toolbar.



- You can also change the interactive mode by doing the following:
  - Pressing the [Pen Mode] button on the remote control.
  - Switching to **PC Free Annotation** or **PC Interactive** in the **Pen Mode** setting on the projector's **Extended** menu.

  ☛ **Extended** - **Easy Interactive Function** - **Pen Mode** p.181
- You can switch to computer interactive mode when the image source is Computer, HDMI1, HDMI2, USB Display or LAN.
- You cannot switch to computer interactive mode when the **USB Type B** setting in the projector's **Extended** menu is set to **Wireless Mouse/USB Display**.
- After changing to computer interactive mode, content drawn using annotation mode is retained.

The projector control toolbar lets you control the projector from the projected screen just as you would using the remote control.

If your network device is connected to the projector using EasyMP Multi PC Projection, you can also use the toolbar to select the network device from which you want to project.



Available features vary depending on the mode used.

☛ "Whiteboard Mode Bottom Toolbar" p.89

☛ "Annotation Mode Bottom Toolbar" p.108

Selecting Network Device Display from the Projector Control Toolbar

If you have connected devices to the projector via a network, you can select to project an image from those devices using the projector control toolbar. You can select the image source from computers that are running EasyMP Multi PC Projection, and smartphones or tablets that are running Epson iProjection.

You can select any connected network device for projection, even if the user connected using the EasyMP Multi PC Projection software with the moderator feature enabled. See the *EasyMP Multi PC Projection Operation Guide* for details about the moderator feature.

1 Select the icon on the projector control toolbar, and then select **Participant List** from the image source list.



2 Select the user name for the device you want to project from.



1. Displays the user names for network devices connected to the projector.
   The icon is shown next to the user name of the currently projected device.
2. Closes the user selection screen and returns to the previous screen.
3. Refreshes the user list.
   When an additional user connects to the projector via a network, select this button to update the user list.

- When all user disconnected computer from the projector, the user selection screen is closed automatically after 20 minutes.
- While the user selection screen is displayed, you cannot do the following:
  - Select a different image source
  - Use other interactive features
  - Control the projector from the projector control toolbar
  - Connect to multiple projectors
  - Hear sound from the projector (it is turned off temporarily)
  - Change the settings using the projector's Configuration menu
  - Project an image using EasyMP Multi PC Projection or Epson iProjection

You see the selected user's screen image.

When you change the user, repeat these steps.

- You cannot access the user selection screen when connecting to multiple projectors by using EasyMP Multi PC Projection and projecting the same image (mirroring).
- If the interactive features do not work, you can return to the previous screen by pressing the [Esc] button on the remote control or the control panel.

You can use your projector in computer interactive mode over a network.

If you want to annotate when using computer interactive mode over a network, you need to use Easy Interactive Tools (or another annotation program). Easy Interactive Tools allows you to use various drawing tools, treat the drawing area as a page, and save your drawings as a file for a later use. You can install Easy Interactive Tools from the EPSON Projector Software for Easy Interactive Function CD. You can also download the software from the Epson website.

- Use one of the following software applications to setup your projector on a computer network and use computer interactive mode over the network:
  - EasyMP Network Projection version 2.85 or later (for Windows) or 2.83 or later (for OS X)
    See the *EasyMP Network Projection Operation Guide* for instructions.
    ☛ *EasyMP Network Projection Operation Guide*
  - Quick Wireless version 1.32 or later (Windows only)
    See the instructions included with the optional Quick Wireless Connection USB Key.
- With either application, select **Use Interactive Pen** on the **General settings** tab and **Transfer layered window** on the **Adjust performance** tab.

- You can only use one pen or one finger (EB-1430Wi) at a time.
- The response may be slower over the network.
- When using computer interactive mode over a network, you cannot change the **Pen Mode** setting using the remote control or from the projector's **Extended** menu. The  icon is also not available.
- You cannot use the Ink Tools in Microsoft Office applications.
- You cannot change the **Pen Operation Mode** setting from the projector's **Extended** menu.
- You can connect up to four projectors at one time using EasyMP Network Projection. When connected to multiple projectors, computer interactive mode functions for any projector.
- To use annotation mode over the network, clear **Use Interactive Pen** on the **General settings** tab and **Transfer layered window** on the **Adjust performance** tab in EasyMP Network Projection or Quick Wireless Connection, and then reconnect to the network.

Precautions when Connecting to a Projector on a Different Subnet

Follow these precautions when you connect to a projector on a different subnet using EasyMP Network Projection and use interactive features:

- Search for the projector on the network by specifying the projector's IP address. You cannot search for it by specifying the projector name.
- Make sure that you get an echo reply back from the network projector when sending an echo request by the ping command. When the Internet Control Message Protocol (ICMP) option is disabled on the router, you can connect to the projector at remote locations even if you cannot get the echo reply back.

- Make sure the following ports are opened.

Port	Protocol	Usage	Communication
3620	TCP/UDP	For connection and control	Duplex
3621	TCP	For transferring images	Duplex
3629	TCP	For controlling projector	Duplex

- Make sure that the MAC address filtering and application filtering options are disabled on the router.
- Make sure that Network Address Translation (NAT) technology is not used in your network environment. With Internet VPN and IP-VPN, you can connect to the network projector remotely when you meet the above requirements.
- When bandwidth management is applied for communications between locations, and EasyMP Network Projection goes over the controlled bandwidth, you may not be able to connect to the projector at remote locations.



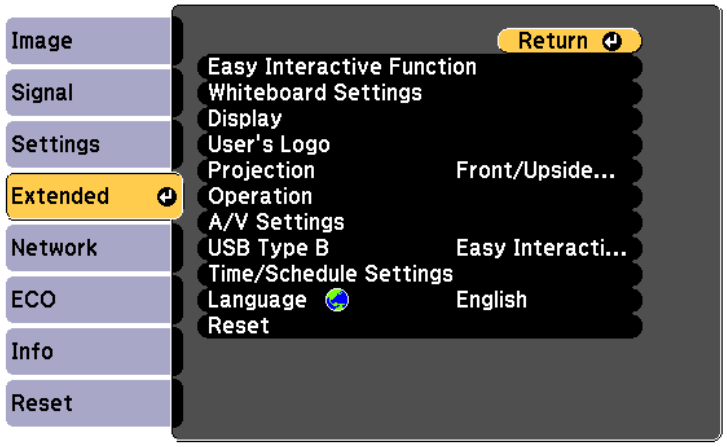
Epson does not guarantee the connection to the projector on a different subnet using EasyMP Network Projection even if you meet the above requirements. When considering the implementation, be sure to test the connection in your network environment.

If you are using Windows 8.1, Windows 8, Windows 7, or Windows Vista, you can use the pen input and Ink tools to add handwritten input and annotations to your work.

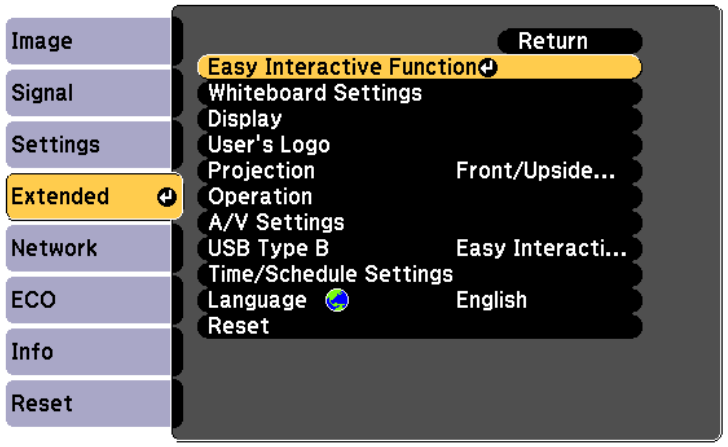
Enabling Windows Pen Input and Ink Features

If you want to use the pen input and Ink features in Windows 8.1, Windows 8, Windows 7, or Windows Vista, you need to adjust the pen settings in the projector's **Extended** menu.

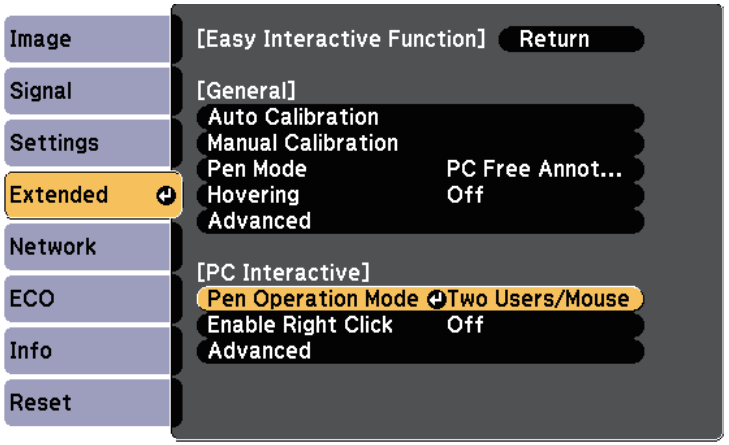
1 Press the [Menu] button, select the **Extended** menu, and press the [Enter] button.



2 Select the **Easy Interactive Function** setting and press the [Enter] button.



3 Select the **Pen Operation Mode** setting and press the [Enter] button.



4 Select one of the following:

- Select **One User/Pen** and press the [Enter] button (EB-1420Wi).
- When using pen input, select **Mode 2** and press the [Enter] button (EB-1430Wi).

- When using Ink features, select **Mode 1** or **Mode 2** and press the [Enter] button (EB-1430Wi).

When selecting **Mode 1** or **Mode 2**, you can also use Windows multi-touch features (EB-1430Wi).

Using Windows Pen Input and Ink Features

If you are using Windows 8.1, Windows 8, Windows 7, or Windows Vista, you can add handwritten input and convert it to text.

If you have Microsoft Office 2007 or later, you can also use the Ink function to add handwritten notes to a Word document, Excel spreadsheet, or PowerPoint presentation.

Option names for the annotation functions may vary depending on your version of Microsoft Office.

- To open the Touch Keyboard in Windows 8, right-click or tap and hold on the Taskbar, then select **Toolbars** > **Touch Keyboard**. Select the keyboard icon on the screen, then select the pen icon.
- To open the Tablet PC input panel in Windows 7 or Windows Vista, select  > **All Programs** > **Accessories** > **Tablet PC** > **Tablet PC Input Panel**.
  You can write in the box using the pen or your finger (EB-1430Wi), then select from a variety of options to edit and convert the text.
- To add Ink annotations in Microsoft Office applications, select the **Review** menu, then select **Start Inking**.

In Microsoft Word or Excel, select the **Insert** tab and then click on **Start Inking**.

- To annotate your PowerPoint slides in Slideshow mode, press the button on the side of the pen or press the projection surface with your finger for about 3 seconds, then select **Pointer Options** > **Pen** from the pop-up menu.

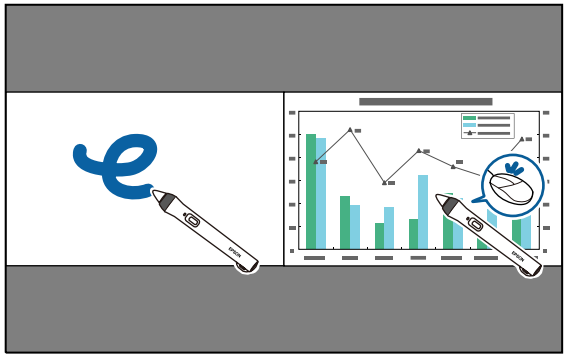
This method for annotating PowerPoint slides in Slideshow mode also works with Windows XP Tablet PC Edition.

For more information about these features, see your Windows Help.

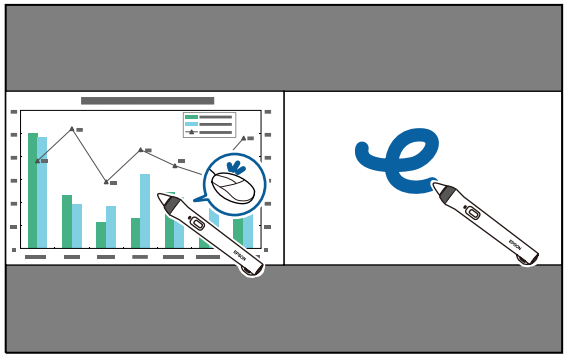
You can simultaneously project images from two sources on the right and left of the screen, and use the interactive features.

☛ "Projecting Two Images Simultaneously (Split Screen)" p.128

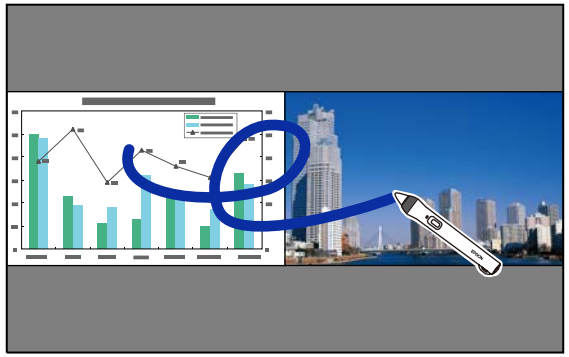
- When one screen is in whiteboard mode, you can only use computer interactive mode on the other screen.



- When using computer interactive mode on one screen, you can only use the other screen as a whiteboard.



- When using annotation mode on both screens, you can write and draw across the screens.



- When using the interactive features over a network, you can use annotation mode, or computer interactive mode on either screen.
- You can display the area where you can write and draw with a frame. When projecting two images simultaneously, press the [Menu] button and set the **Display Drawing Area** setting to **On**.
- The response time may be slower.

Switching Split Screen Projection

You can split the screen to project two images simultaneously using the toolbar. You can also control the split screen feature using the remote control.

☛ "Projecting on a split screen" p.130

1 Select 1|2 on the bottom toolbar.



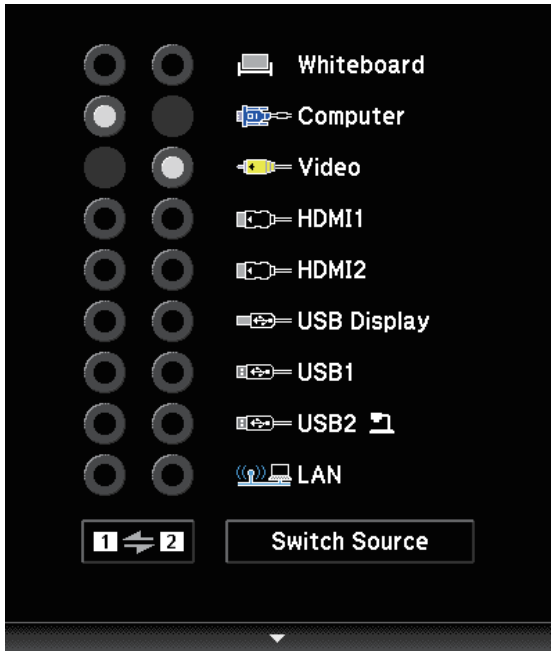
The currently selected input source moves to the left of the screen.

2 Select  on the bottom toolbar.



The source select screen is displayed.

3 Select the input sources for the left and right screen.



You can only select input sources that can be combined.
"Input Sources for Split Screen Projection" p.129

4 Select **Switch Source**.

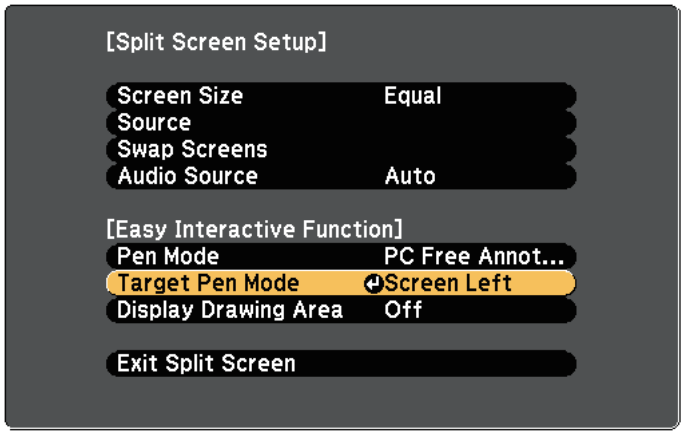
5 To swap the images projected on the left and right, select .

Using Computer Interactive Mode on a Split Screen

You can use the pen or your finger as a mouse on either screen while using the split screen feature.

1. Press the [Menu] button on the remote control during split screen projection.
   The Split Screen Setup screen is displayed.

2. Select **Target Pen Mode**, and then press the [Enter] button.



3. Select the screen that you want to use for computer interactive mode, and then press the [Enter] button.

> When you select **Video**, **USB1**, or **USB2** as the input source for the selected screen, you cannot use computer interactive mode.

4. Press the [Menu] button to exit the screen.

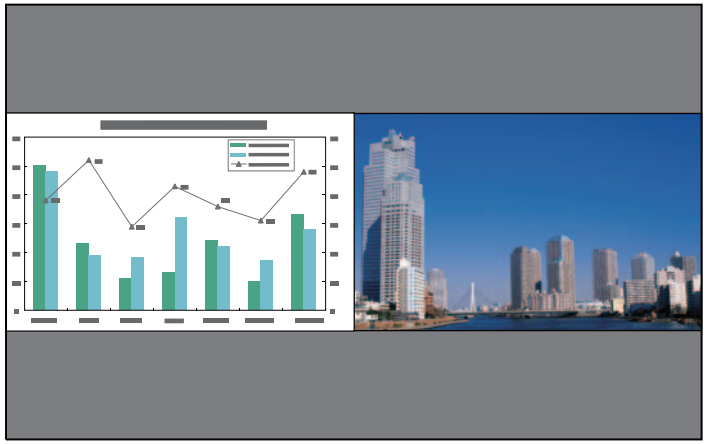
> When projecting the screen selected in Target Pen Mode from a computer on your network, you can only use computer interactive mode.

Useful Functions

This chapter explains useful functions for giving presentations and so on, and the security functions.

Projecting Two Images Simultaneously (Split Screen)

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



You can also use the interactive feature when using the split screen feature.

☛ "Use Interactive Features when Projecting Two Images Simultaneously" p.124

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	HDMI1	HDMI2	USB Display	USB1	USB2	LAN	Whiteboard
Computer	-	✓	✓	✓	✓	✓	✓	✓	✓
Video	✓	-	✓	✓	✓	✓	✓	✓	✓
HDMI1	✓	✓	-	-	✓	✓	✓	✓	✓
HDMI2	✓	✓	-	-	✓	✓	✓	✓	✓
USB Display	✓	✓	✓	✓	-	-	-	-	-
USB1	✓	✓	✓	✓	-	-	-	-	-
USB2	✓	✓	✓	✓	-	-	-	-	-
LAN	✓	✓	✓	✓	-	-	-	-	-
Whiteboard	✓	✓	✓	✓	-	-	-	-	-

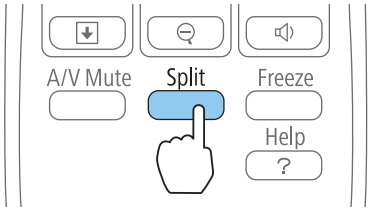
Operating Procedures

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.

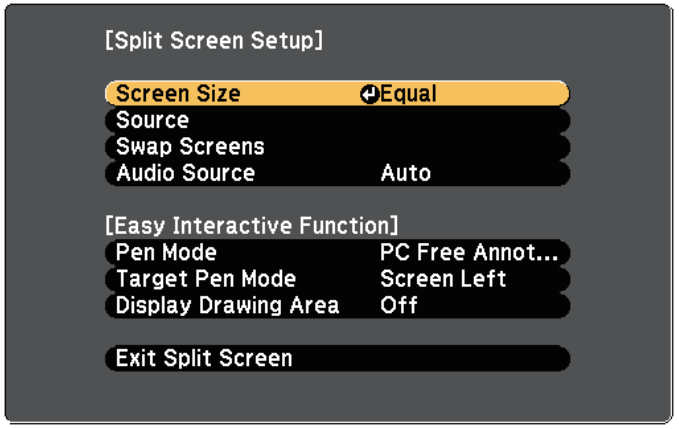
Remote control



- When using the interactive feature, you can also perform the same operations from the bottom toolbar.
  - ☛ "Whiteboard Mode Bottom Toolbar" p.89
  - ☛ "Annotation Mode Bottom Toolbar" p.108
- You can perform the same operations from the configuration menu.
  - ☛ **Settings - Split Screen** p.178

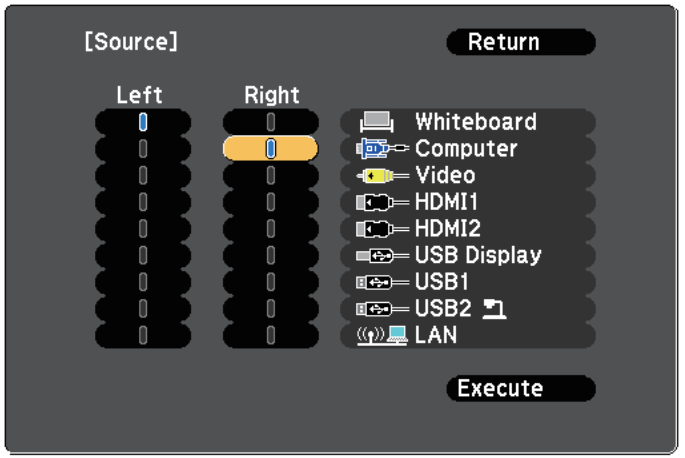
2 Press the [Menu] button.

The Split Screen Setup screen is displayed.



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

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.129

See the following for available combinations when using the interactive feature on the split screen projection.

☛ "Use Interactive Features when Projecting Two Images Simultaneously" p.124

The Source screen is also displayed when the [Source Search] button is pressed during split screen projection.

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

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

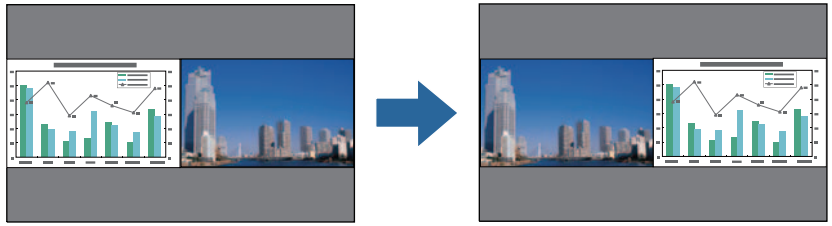
Switching the left and right screens

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.

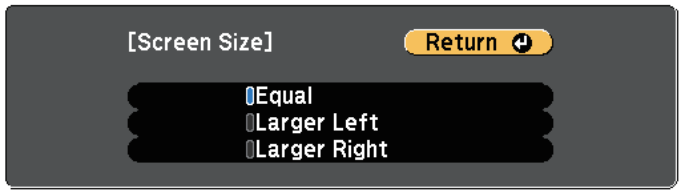


Switching the left and right image sizes

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

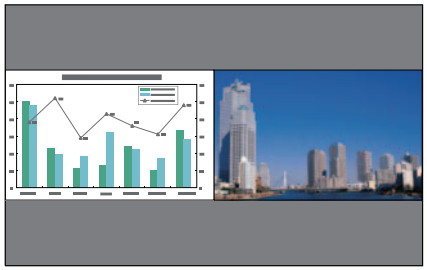
2 Select **Screen Size**, and then press the [↵] button.

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

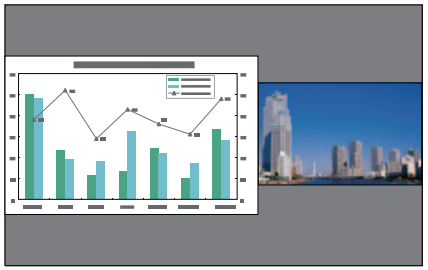


The projected images will appear as shown below after setting the screen size.

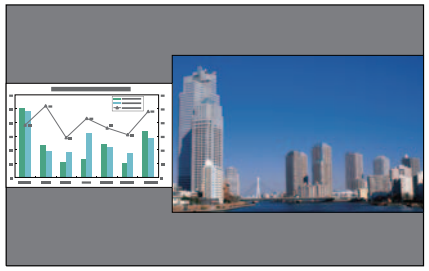
Equal



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

Press the [Esc] button to end split screen.

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** - **Split Screen Setup** p.178

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
- Light Optimizer
- Image Processing
- Freeze (only when one of the screens is set to **Whiteboard**)

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

Restrictions 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 **Advanced**.
- The setting value **Off** for **Progressive** and **Noise Reduction** is applied to the image on the right screen.
  ☛ "Signal Menu" p.176
- 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 Images Stored on a USB Storage Device (PC Free)

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

Attention

If you are using a multi-card reader or USB hub, operations may not be performed correctly. Connect the USB storage directly to the projector or the Control Pad.

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

Specifications for Files that can be Projected Using PC Free

Type	File Type (Extension)	Notes
Image	.jpg	The following cannot be projected. • Images with a resolution greater than 8192 x 8192 • Images with a file size greater than 12 MB • Files with the extension ".jpeg" • CMYK color mode formats • Progressive formats 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 2048 x 2048.
	.gif	• Cannot project images with a resolution greater than 2048 x 2048. • Cannot project animated GIFs.
	.png	Cannot project images with a resolution greater than 2048 x 2048.
PDF	.pdf	• You can project PDF files version 1.7 or earlier. • Cannot project encrypted PDFs.

See the following for more information on projecting each file type.

- Projecting image files
  ☛ "Projecting the Selected Images or Movies" p.137
- Projecting PDF files
  ☛ "Projecting PDF Files" p.137

Supported movie files

File Type (Extension)	Movie Codec	Audio Codec	Recording Quality
.mpg*	MPEG-2	MPEG-1 Layer1/2 MPEG contents with no sound can be played back. Linear PCM and AC-3 audio cannot be played back.	Maximum bit rate: 12 Mbps Maximum resolution: 1280×720
.mp4*	MPEG-4 ASP MPEG-4 AVC	MPEG-4 AAC-LC	
.wmv	WMV9	WMA	
.avi	Motion JPEG	Linear PCM ADPCM	

* Files with the extension .mpeg cannot be projected.

See the following for more information on projecting movie files.

☛ "Projecting the Selected Images or Movies" p.137

- When connecting and using a USB-compatible hard disk, make sure you connect the AC adaptor supplied with the hard disk.
- You may not be able to use USB storage devices that incorporate security functions.
- Files to which DRM (Digital Rights Management) is applied cannot be projected.
- If you use a USB storage device with a slow access speed when playing back movies (when transmitting at higher bit rates), the movie files may not playback correctly, or the sound may skip or not be output.
- The projector does not support media formatted on some file systems. If you have trouble when projecting, use media formatted under Windows.
- Format the media in FAT16/32.

PC Free Examples

Projecting Images and Movies Stored on a USB Storage Device



You can use PC Free to project individual movie or image files or to continuously project Slideshow using more than one file.

☛ "Projecting the Selected Images or Movies" p.137

☛ "Projecting Image Files in a Folder in Sequence (Slideshow)" p.139

PC Free Operating Methods

The following steps are explained using the remote control as an example, when the USB storage device is connected to the Control Pad. USB storage devices can also be connected directly to the projector. You can also perform remote control operations from the projector's control panel.

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

- Freeze
  ☛ "Freezing the Image (Freeze)" p.141
- A/V Mute
  ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.141
- E-Zoom
  ☛ "Enlarging Part of the Image (E-Zoom)" p.143
- Pointer
  ☛ "Pointer Function (Pointer)" p.142

Starting PC Free

1. Connect the USB storage device or digital camera to the Control Pad.
   ☛ "Connecting to the Control Pad" p.48
2. Press the [Source Search] button to change the source to USB1.
   ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54

   PC Free starts and the file list screen is displayed.

- The following files are displayed as thumbnails (file contents are displayed as small images).
  - JPEG files
  - PDF files (an image of the first page of the PDF)
  - MPEG/WMV/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
	MPEG files		WMV files
	JPEG files*		PFX files (Client Certificate/Web Server Certificate)
	BMP files		P12 files (Client Certificate/Web Server Certificate)
	GIF files		CER files (CA certificate)
	PNG files		DER files (CA certificate)
	AVI (Motion JPEG) files*		PEM files (CA certificate)
	PDF files*		

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

Projecting Images

1 Use the [▲], [▼], [◀], and [▶] buttons to select the file or folder you want to project.



If not all of the files and folders are displayed on the current screen, press the [▼] 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.

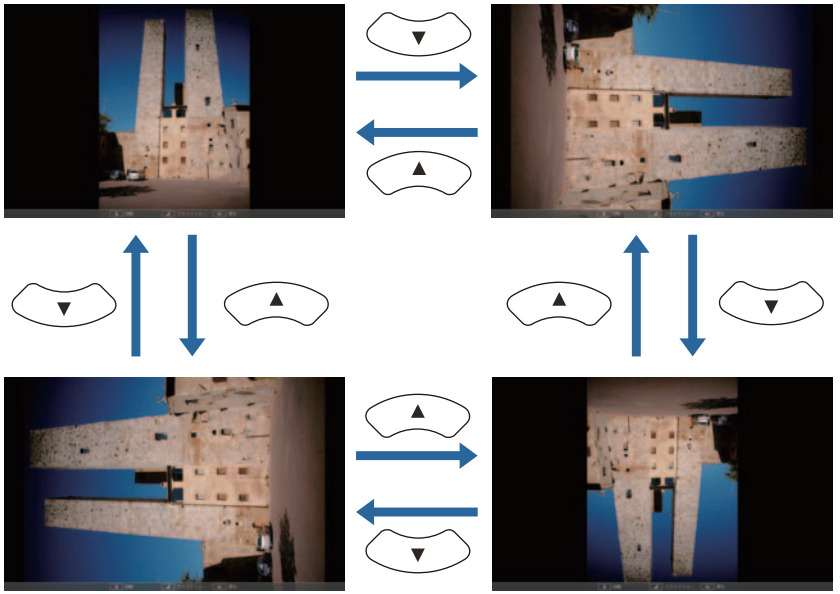
When a folder is selected, the files in the selected folder are displayed. To return to the screen which was displayed before opening the folder, position the cursor on **Back to Top** and press the [↵] button.

Rotating Images

You can rotate the image in 90˚ increments when projecting an image file with PC Free.

1 Display images or run PC Free.

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



Stopping PC Free

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

Projecting the Selected Images or Movies

Attention

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

1 Start PC Free.

The file list screen is displayed.

☛ "Starting PC Free" p.134

2 Press the [▲], [▼], [◄], and [►] buttons 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

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

1 Start PC Free.

The file list screen is displayed.

☛ "Starting PC Free" p.134

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 [▲][▼][◀][▶] button to scroll the page.

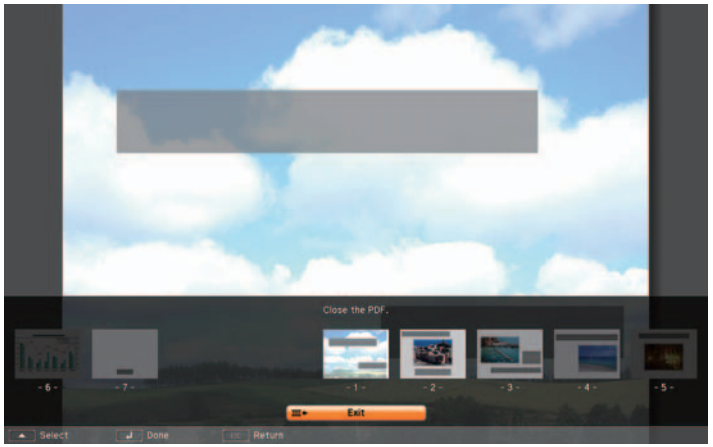
- Rotating a page

  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, and then 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 PC Free.

- Releasing a password
- Displaying e-signatures
- 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.

You can set display conditions, such as projecting repeatedly and adding display effects while switching between files. To change movie and image files automatically when you run Slideshow, set **Screen Switching Time** from the Option screen in PC Free to anything other than **No**. The default setting is **No**.

☛ "Image File Display Settings and Slideshow Operation Settings" p.140

1. Start PC Free.
   ☛ "Starting PC Free" p.134
   The file list screen is displayed.

2. Use the [▲], [▼], [◀], and [▶] buttons to position the cursor on the folder you want to run the Slideshow, and then press the [↵] button.

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

Slideshow starts, and the image and movie 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 screen, projection starts again from the beginning when it reaches the end.

☛ "Image File Display Settings and Slideshow Operation Settings" p.140

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 continue to the next file.

Image File Display Settings and Slideshow Operation Settings

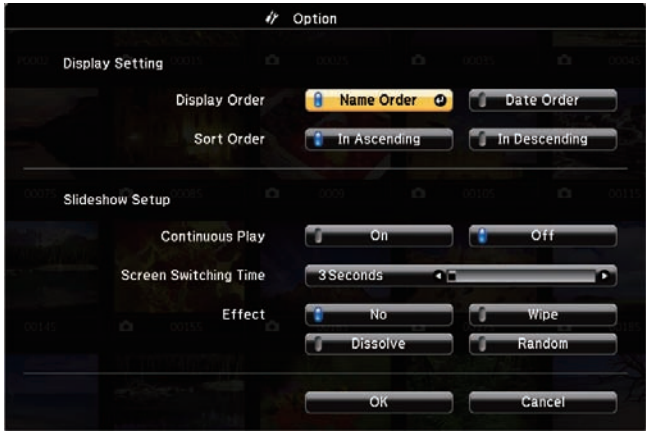
You can set the file display order and Slideshow operations on the Option screen.

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

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

Enable the settings by positioning the cursor on the target item and pressing the [↵] button.

The following table shows the details for each item.



Display Order	You can select to display the files in **Name Order** or **Date Order**.
Sort Order	You can select to sort the files **In Ascending** or **In Descending** order.
Continuous Play	You can set whether to repeat the Slideshow.
Screen Switching Time	You can set the time for a single file to be displayed in Play 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.

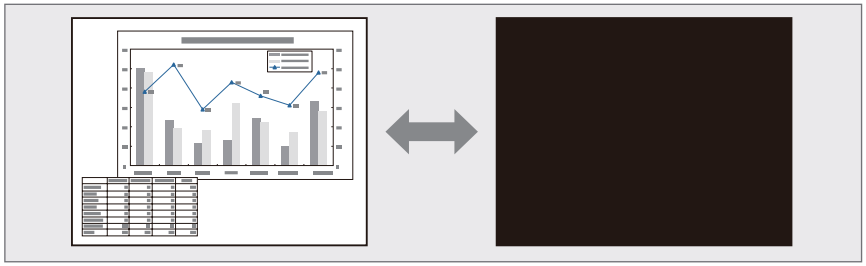
3 Use the [▲], [▼], [◀], and [▶] buttons to position the cursor over **OK**, and then press the [↵] button.

The settings are applied.

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

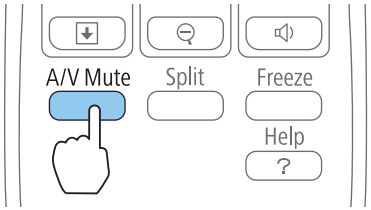
Hiding the Image and Sound Temporarily (A/V Mute)

You can switch off the image on the screen when you want to focus the audience's attention on what you are saying, or when you do not want to display operations such as changing files.



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

Remote control



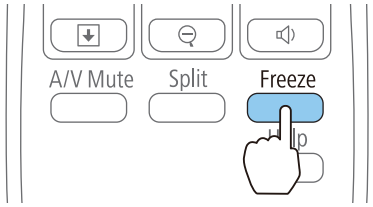
- If you use this function when projecting moving images, the images and sound continue to be played back by the source, and you cannot return to the point where A/V Mute was activated.
- You can select the screen displayed when the [A/V Mute] button is pressed from the Configuration menu.
  ☛ **Extended** - **Display** - **A/V Mute** p.179
- When A/V Mute is enabled with the [A/V Mute] button, **A/V Mute Timer** activates and the power is automatically turned off after approximately 30 minutes. If you do not want to enable **A/V Mute Timer**, set **A/V Mute Timer** to **Off**.
  ☛ **ECO** - **A/V Mute Timer** p.199
- 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.

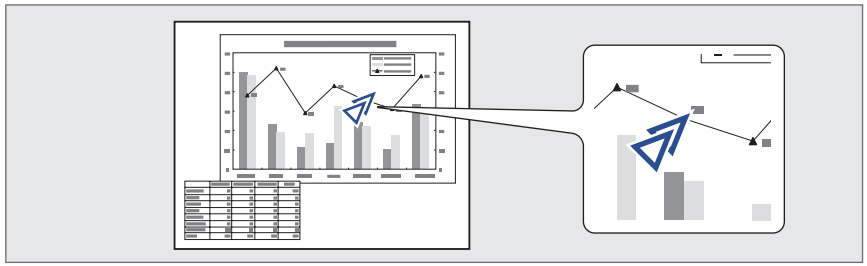
Remote control



- Audio does not stop.
- For moving images, the images continue to play back while the screen is frozen, so 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)

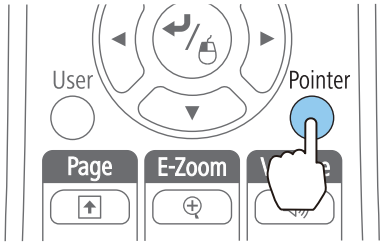
This allows you to move a pointer icon on the projected image, and helps you draw attention to the area you are talking about.



1 Display the Pointer.

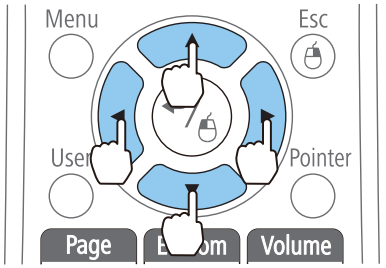
Each time you press the [Pointer] button, the pointer appears or disappears.

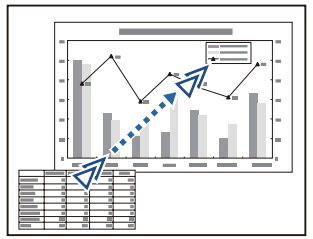
Remote control



2 Move the Pointer icon ( ).

Remote control





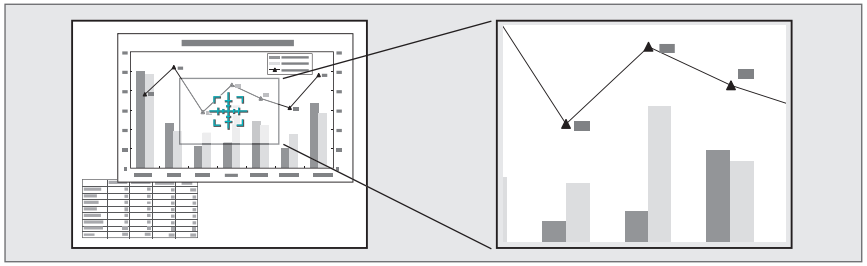
When any pair of adjacent [ ], [ ], [ ], or [ ] buttons are pressed at the same time, the pointer can be moved diagonally.

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

☛ **Settings** - **Pointer Shape** p.178

Enlarging Part of the Image (E-Zoom)

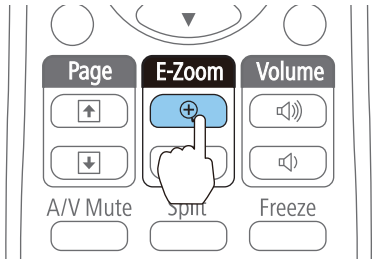
This is useful when you want to expand images to see them in greater detail, such as graphs and tables.



1 Start E-Zoom.

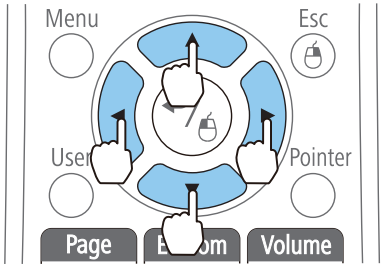
Press the [⊕] button to display the Cross (✛).

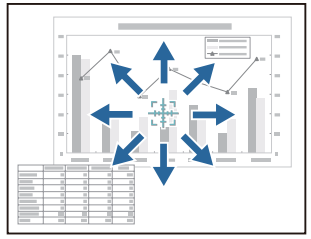
Remote control



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

Remote control

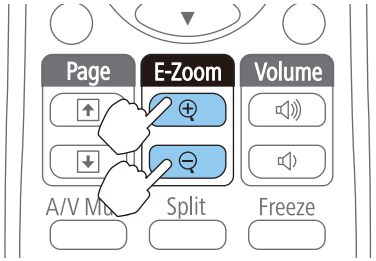




When any pair of adjacent [△], [▽], [◁], or [▷] buttons are pressed at the same time, the pointer can be moved diagonally.

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 [△], [▽], [◁], and [▷] buttons to scroll the image.

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

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

The following operating systems support the wireless mouse function.

	Windows	OS X
OS	Windows 2000 Windows XP Windows Vista Windows 7 Windows 8 Windows 8.1	Mac OS X 10.3.x Mac OS X 10.4.x Mac OS X 10.5.x Mac OS X 10.6.x OS X 10.7.x OS X 10.8.x OS X 10.9.x

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

Use the following procedure to enable the Wireless Mouse function.

1 Set **USB Type B** to **Wireless Mouse/USB Display** from the Configuration menu.

☛ **Extended - USB Type B** p.179

2 Connect the projector to the computer with the supplied USB cable.

☛ "Connecting a Computer" p.35

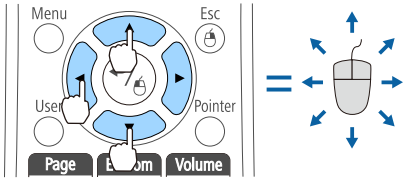
3 Change the source to one of the following.

- USB Display
- Computer
- HDMI1
- HDMI2

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54

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

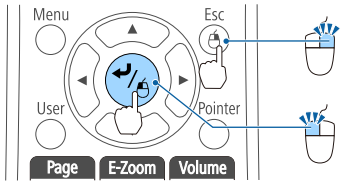
Moving the mouse pointer



[▲][▼][◀][▶] buttons:

Moves the mouse pointer.

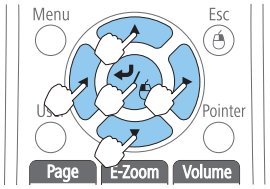
Mouse clicks



[Esc] button: Right click.

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

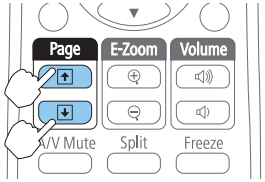
Drag and drop



While holding down the [↵] button, press the [▲], [▼], [◀], or [▶] button to drag.

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 **Extended** - **USB Type B** is set to anything other than **Wireless Mouse/USB Display**.
  - When projecting images from a device connected to the HDMI1/MHL port using an MHL cable.
  - When displaying the Configuration menu or help.
  - When operating functions other than the Wireless Mouse function (such as adjusting the volume).

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

Saving a User's Logo

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

You can use the registered user's logo as a display when projection starts or no image signal is being input.

☛ **Extended** - **Display** p.179

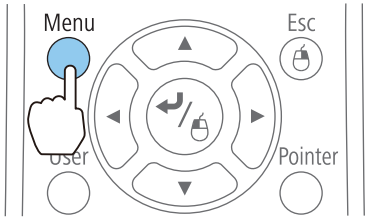
- Once a User Logo has been saved, the logo cannot be returned to the factory default.
- If the content of the Configuration menu is set from another projector using the batch setup function, the registered User's Logo is set for the other projectors. Do not register confidential information and so on as the User's Logo.

  ☛ "Performing Batch Setup for Multiple Projectors" p.202

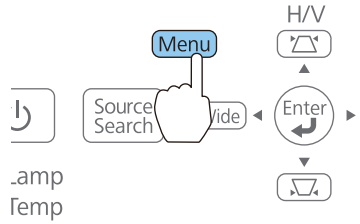
1 Project the image you want to save as the User's Logo, and then press the [Menu] button.

☛ "Using the Configuration Menu" p.172

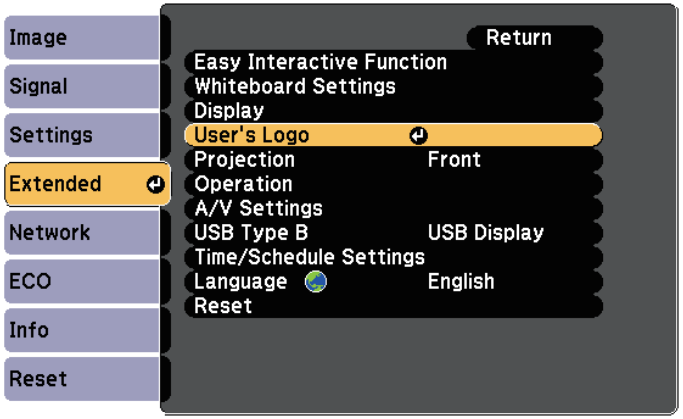
Using Remote Control



Using the Control Panel



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



- When **User's Logo Protection** from **Password Protection** 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 Protection** to **Off**.

  "Managing Users (Password Protection)" p.149

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

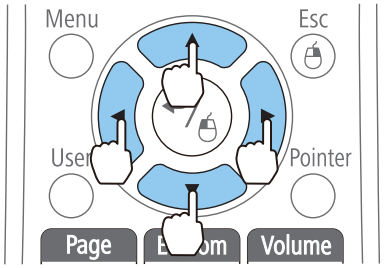
3 When the message "Choose this image as the User's Logo?" is displayed, select **Yes**.

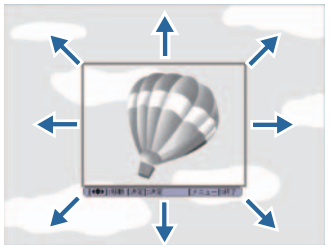
When you press the [↵] button on the remote control or the control panel, the screen size may change depending on the signal to match the actual resolution of the image signal.

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.

Remote control

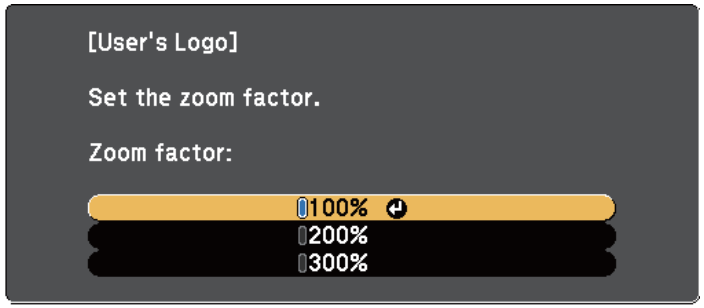




You can save at 400x300 dots in size.

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 User Pattern

There are five types of patterns registered to the projector, such as ruled lines and grid patterns.

☛ **Settings** - **Pattern** - **Pattern Type** p.178

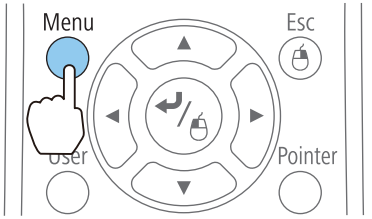
You can also save the image that is currently being projected as a User Pattern.

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

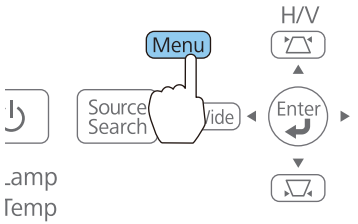
1 Project the image you want to use as the User Pattern, and then press the [Menu] button.

☛ "Using the Configuration Menu" p.172

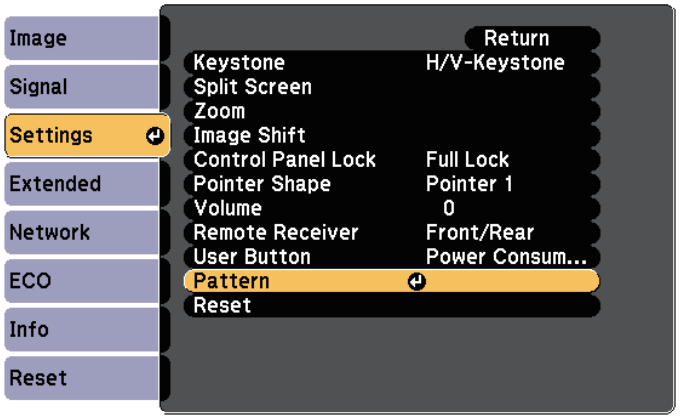
Using Remote Control



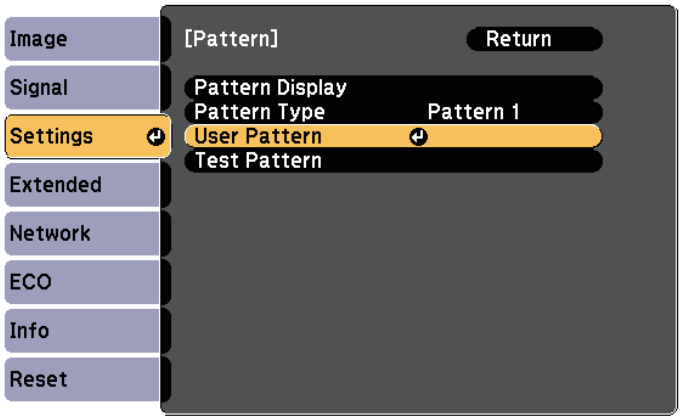
Using the Control Panel



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



3 Select **User Pattern**.



If **User Pattern** is selected when Keystone, E-Zoom, Aspect, Adjust Zoom, or Image Shift are being performed, the function currently being performed is temporarily canceled.

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

5 When you press the [↵] button, the message "Do you save this image as the User Pattern?" is displayed. Select **Yes**.

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

Once a User Pattern has been saved, User Pattern cannot be returned to the factory default.

The projector has the following enhanced security functions.

- Password Protection
  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.151
- Anti-Theft Lock
  The projector is equipped with the following anti-theft security device.
  ☛ "Anti-Theft Lock" p.152

Managing Users (Password Protection)

When Password Protection 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 device as the projector cannot be used even if it is stolen. At the time of purchase, Password Protection is not activated.

Kinds of Password Protection

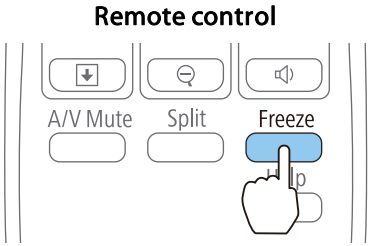
The following three kinds of Password Protect settings can be made according to how the projector is being used.

- **Power On Protection**
  When **Power On Protection** is **On**, you need to enter a preset password after the projector is plugged in and turned on (this also applies to Direct Power On). If the correct password is not entered, projection does not start.
- **User's Logo Protection**
  Even if someone tries to change the User's Logo set by the owner of the projector, it cannot be changed. When **User's Logo Protection** 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.179
- **Network Protection**
  When **Network Protection** is set to **On**, changing the settings for **Network** is prohibited.
  ☛ "Network Menu" p.174
- **Time/Schedule Protection**
  When **Time/Schedule Protection** is set to **On**, changing settings for the projector's system time or schedules is prohibited.

Setting Password Protection

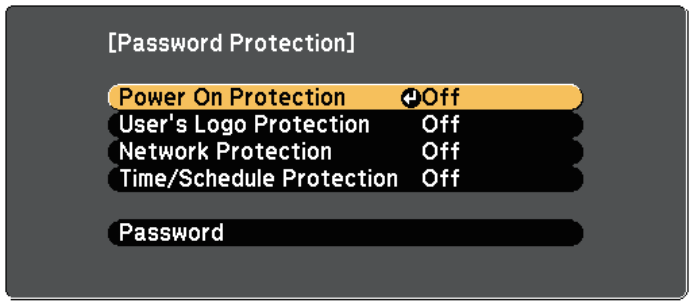
Use the following procedure to set Password Protection.

1. During projection, hold down the [Freeze] button for about five seconds.
   The Password Protection setting menu is displayed.



- If Password Protection is already activated, you must enter the password.
  If the password is entered correctly, the Password Protection setting menu is displayed.
  ☛ "Entering the Password" p.150
- When the password is set, stick the supplied password protect sticker in a visible position on the projector as a further theft deterrent.
  ☛ *Password Protect Sticker*

2 Select the type of Password Protection 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.

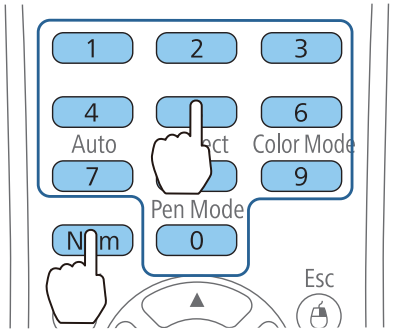
4 Set the password.

(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.

Remote control

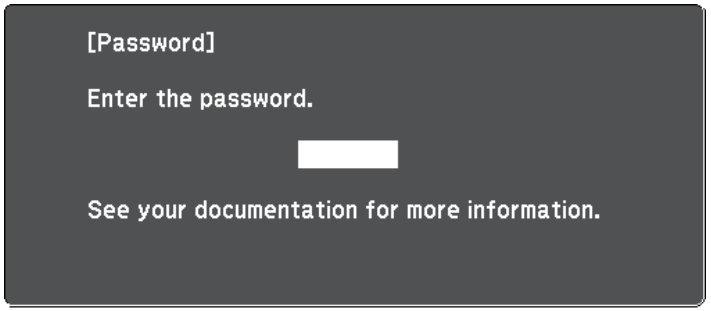


(4) Re-enter the password.
The message "Password accepted." is displayed.
If you enter the password incorrectly, a message is displayed prompting you to re-enter the password.

Entering the Password

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

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



When you enter the correct password, Password Protection 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)

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

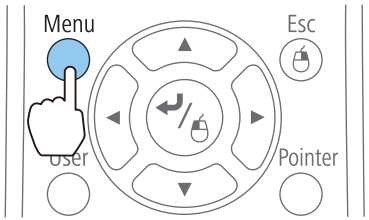
- Full Lock
  All of the buttons on the control panel are locked. You cannot perform any operations from the control panel, including turning the power on or off.
- Partial Lock
  All of the buttons on the control panel, except for the [⏻] button, are locked.

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.

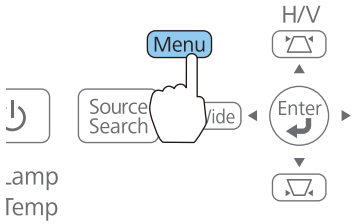
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.172

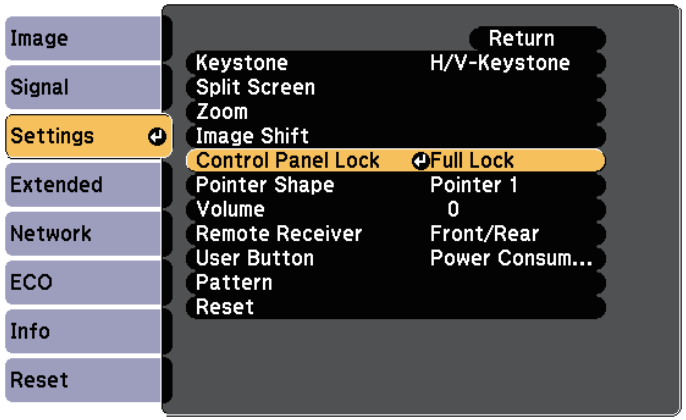
Using Remote Control



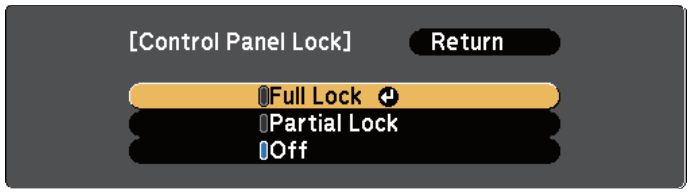
Using the Control Panel



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.178
- 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

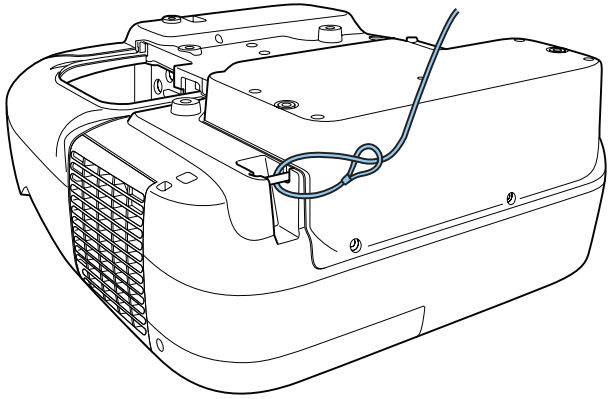
The projector is equipped with the following types of anti-theft security devices.

- Security slot
  The security slot is compatible with the Microsaver Security System manufactured by Kensington.
  See the following for more details on the Microsaver Security System.
  ☛ http://www.kensington.com/
- Security cable installation point
  A commercially available theft-prevention wire lock can be passed through the installation point to secure the projector to a desk or pillar. Do not pass drop-prevention wires through here when mounting the projector on a wall or suspending it from a ceiling.

Installing the Wire Lock

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

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



About EasyMP Monitor

EasyMP Monitor lets you carry out operations such as checking the status of multiple Epson projectors that are connected to a network at a computer monitor, and controlling the projectors from the computer.

You can download EasyMP Monitor from the following Web site.

http://www.epson.com

The following provides brief descriptions of the monitoring and control functions that can be carried out using EasyMP Monitor.

- Registering projectors for monitoring and control
- Group registration for registered projectors
- Monitoring the status of registered projectors
- Controlling registered projectors
- Mail Notification settings
- Sending messages to registered projectors

Message Broadcasting

Message Broadcasting is plugin software for EasyMP Monitor. Message Broadcasting can be used to send a message (JPEG file) to project on all Epson projectors or specified projectors connected on the network.
The data can be sent manually, or sent automatically using Timer Settings of EasyMP Monitor.
Download the Message Broadcasting software from the following Web site.

http://www.epson.com

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 set the projector's functions and control the projector.

This function allows you to perform setup and control operations remotely. In addition, since you can use the computer's keyboard, entering characters required for the setup is easier.

Use Microsoft Internet Explorer 8.0 or later as the Web browser. Use Safari for OS X.



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

☛ **ECO** - **Standby Mode** p.199

Projector Setup

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

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

- Settings menu - Image Shift
- Settings menu - Pointer Shape
- Settings menu - User Button
- Settings menu - Pattern (except Pattern Type)
- Extended menu - Easy Interactive Function
- Extended menu - Display - Toolbars
- Extended menu - Display - Pen Mode Icon
- Extended menu - Display - Projector Control
- Extended menu - User's Logo
- Extended menu - Operation - High Altitude Mode
- Extended menu - USB Type B
- Extended menu - Language
- 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.171

Items that can only be set with a Web browser

Whiteboard Settings menu - Address Book

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. Set the **Connection Mode** to **Advanced** from the Configuration menu.

☛ **Network** - **Wireless LAN** - **Connection Mode** p.187

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

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

   The Web Control screen is displayed.

   When Web Control Password is set in the Network menu from the projector's Configuration menu, the password entry screen is displayed.
3. The user ID and password entry screen is displayed.

   Enter "**EPSONWEB**" as the user ID.

   The default password is "**admin**".

- Enter the user ID even if the password setting is disabled. The user ID cannot be changed.
- You can change the password in Network menu from the Configuration menu.

  ☛ **Network** - **Administrator Settings** - **Web Control Password** p.187
- Enter the following when you connect to the Administrator Settings menu and the Administrator Password is set.

  - User ID: EPSONADMIN
  - Password: The set administrator password

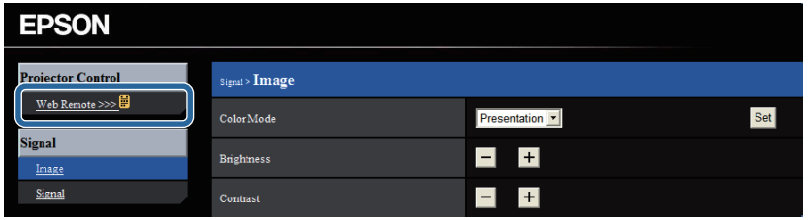
  ☛ **Network** - **Administrator Settings** - **Administrator Password** p.187

Displaying the Web Remote Screen

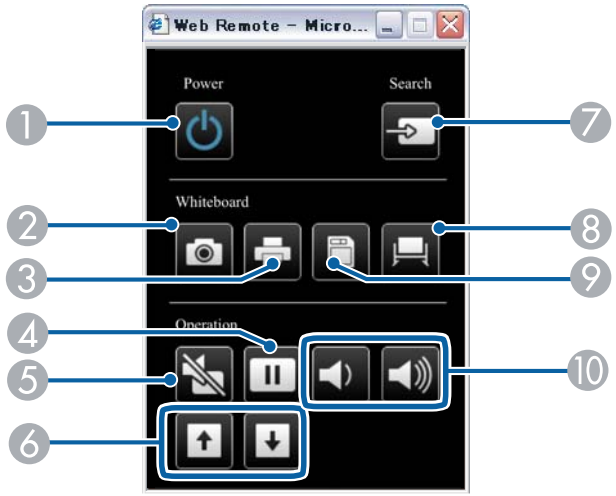
The Web Remote function allows you to perform projector remote control operations with a Web browser.

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

   When **Web Remote Password** is set on the **Network** menu, enter "EPSONREMOTE" as the User ID.



3. The Web Remote screen is displayed.



	Name	Function
1	[⏻] button	Turns the projector power on or off. ☛ "From Installation to Projection" p.53
2	[Capture] button	Takes a snapshot of the projected screen. After taking the snapshot, the image is pasted onto a new page in Whiteboard Mode. (This button cannot be used in Whiteboard Mode.) ☛ "Control the Projector from Projected Screen" p.118
3	[Print] button	Prints the projected screen. ☛ "Printing Drawing Contents in Whiteboard Mode" p.94 ☛ "Printing Drawing Contents in Annotation Mode" p.109
4	[Freeze] button	Pauses or resumes image playback. ☛ "Freezing the Image (Freeze)" p.141
5	[A/V Mute] button	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.141
6	[Page] buttons [Up] [Down]	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.144 • When using USB Display ☛ "Projecting with USB Display" p.55 • When connecting to a network When projecting images using PC Free, pressing these buttons displays the previous/next screen.
7	[Source Search] button	Switches to the image from the input port where video signals are being input. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54
8	[Whiteboard] button	• Press this when the projector is off to turn on the projector and start the interactive features in Whiteboard Mode. • Press this when the projector is on to change to Whiteboard Mode. When pressed during Whiteboard Mode, it switches to the previous input source. ☛ "Preparing Before Using Interactive Features" p.74
9	[Save] button	Saves the projected screen. ☛ "Saving Drawing Contents in Whiteboard Mode" p.93 ☛ "Saving Drawing Contents in Annotation Mode" p.109
10	[Volume] buttons [🔉][🔊]	[🔉] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.66

Setting Certificates

You can use a Web browser to set the certificate settings used for wireless LAN authentication.

Install the following certificates in the projector: Client Certificate and CA certificate for wireless LAN security settings, and Web Server Certificate for the Secure HTTP function.

1 Display Web Control.

☛ "Displaying the Web Control Screen" p.154

2 Click **Administrator Settings** - **Manage Certificates** from **Network**.

3 The Manage Certificates screen appears.

Make settings according to the certificate installed.

Submenu Name	Items or Setting Values
Client Certificate	Refresh/Clear
	Issued to
	Issued by
	Validity period
CA certificate	Refresh/Clear
	Issued to
	Issued by
	Validity period
Self-signed Certificate	Refresh/Clear
	Issued to
	Issued by
	Validity period
Web Server Certificate	Refresh/Clear
	Issued to
	Issued by
	Validity period

4 When the settings are complete, click **Apply**.



- When installing a certificate, make sure the projector supports its format.

  ☛ "List of Supported Certificates" p.157

- You can also install digital certificates on the projector from a USB storage device. However, if you install a certificate from both a USB storage device and the network, it may not be installed correctly.

  ☛ "Projecting Images Stored on a USB Storage Device (PC Free)" p.132

Creating an Address Book

By creating an address book, you can easily select addresses when sending emails in Whiteboard Mode. Create the address book in the following format. Addresses are displayed in the order they are entered in the created file.

When importing an address book into the projector, select **Whiteboard Settings** - **Administrator Settings** - **Address Book Setting** - **Address Book File** on the Web Control screen.

Item	Explanation
File Format	Tab-delimited text
Field	Use tabs to divide information in the order of Name and Address. Use lines to divide information if the field only contains Name information.
Maximum number of addresses	999
Extension	.txt
Character code	Unicode

Secure HTTP Notes

When **Secure HTTP** in **Administrator Settings** from the **Network** menu is set to **On**, security using HTTPS protocol is automatically applied. You can use this function to increase security between the projector and a Web browser.

A certificate is used in communication using HTTPS protocol to certify reliability of the server. Create a server certificate to verify reliability from a Web browser, and install it on the projector.

If there is no server certificate, the projector automatically creates a self-signed certificate and communicates. Because this self-signed certificate cannot verify reliability from a Web browser, a warning about the server's reliability is generated when the projector is accessed from a Web browser. Although the security level is decreased when compared to a server certificate, you can continue to communicate by ignoring the warning.

List of Supported Certificates

Client Certificate (PEAP-TLS/EAP-TLS)

Item	Explanation
Supported format	PKCS#12
Extension	PKCS, P12
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Password	Required. Up to 32 alphanumeric characters

Server Certificate (PEAP/PEAP-TLS/EAP-TLS/EAP-Fast)

Item	Explanation
Supported format	X509v3
Extension	DER/CER/PEM
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Encode	BASE64/Binary

Web Server Certificate (Secure HTTP)

Item	Explanation
Supported format	PKCS#12
Extension	PKCS, P12

Item	Explanation
Encryption	RSA
Hashes	MD5/SHA-1/SHA-256/SHA-384/SHA-512
Key length	512/1024/2048/4096 bit
Common Name	Network Host Name
Organization	Optional
Password	Required. Up to 32 alphanumeric characters

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** - **Administrator Settings** - **Mail Notification** p.187

- 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.
- Controlling is possible if **Standby Mode** is set to **Communication On**, even if the projector is in standby state (when the power is off).

  ☛ **ECO** - **Standby Mode** p.199

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.

Sender: Address for Address 1

Subject: EPSON Projector

Line 1: The name of the projector where the problem occurred

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

Line 3 and on: Details of the problem

The details of the problem are listed line by line. The main message contents 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)
- Interactive Warning

• Obstacle Detection Error

See the following to deal with problems or warnings.

☛ "Reading the Indicators" p.205

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** - **Administrator Settings** - **SNMP** p.187

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

ESC/VP21 Commands

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

Command List

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

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

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

The main contents are listed below.

Item			Command
Power ON/OFF	On		PWR ON
	Off		PWR OFF
Signal selection	Computer	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	HDMI1/MHL		SOURCE 30
	HDMI2		SOURCE A0
	Video		SOURCE 41
	USB Display		SOURCE 51
	USB1		SOURCE 52
	LAN		SOURCE 53
	USB2		SOURCE 54
	Whiteboard		SOURCE 55
A/V Mute ON/OFF	On		MUTE ON
	Off		MUTE OFF

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

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

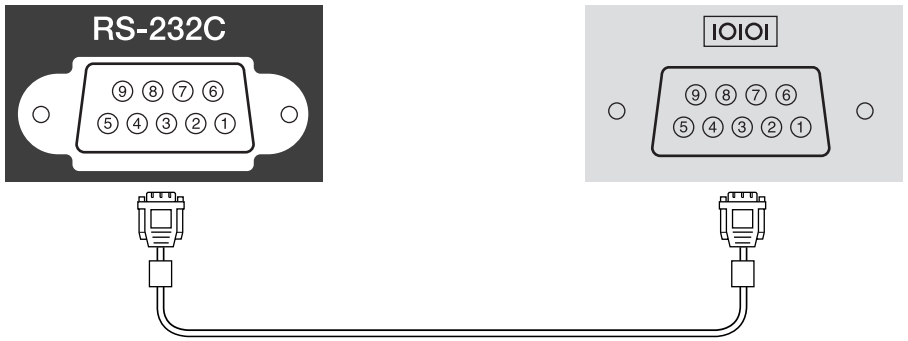
☛ *Epson Projector Contact List*

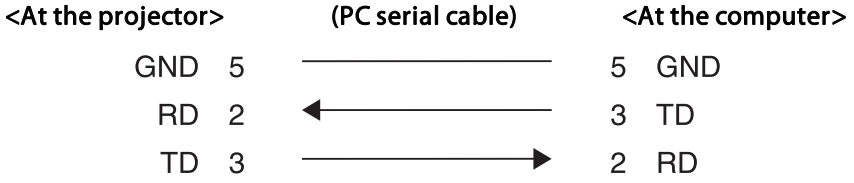
Cable Layouts

Serial Connection

- Connector shape: D-Sub 9-pin (male)
- Projector input port name: RS-232C

<At the projector> <At the computer>





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

Communications Protocol

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

About PJLink

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.

You need to make network settings before you can use PJLink. See the following for more information on network settings.

☛ "Network Menu" p.187

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

Source	PJLink Command
HDMI1/MHL	INPT 32
HDMI2	INPT 33
USB1	INPT 41
USB2	INPT 42
LAN	INPT 52
USB Display	INPT 53
Whiteboard	INPT 55

- Manufacturer name displayed for "Manufacture name information query"
  EPSON

- Model name displayed for "Product name information query"
  EPSON 1420
  EPSON 1430

About Crestron RoomView®

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

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

Visit the Crestron® Web site for details on Crestron RoomView®. (Only English-language displays are supported.)

http://www.crestron.com

The following provides an overview of Crestron RoomView®.

- **Remote operation using a Web browser**
  You can operate a projector from your computer just like using a remote control.
- **Monitoring and control with application software**
  You can use Crestron RoomView® Express or Crestron RoomView® Server Edition provided by Crestron® to monitor devices in the system, to communicate with the help desk, and to send emergency messages. See the following Web site for details.
  http://www.crestron.com/getroomview

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

- You can only enter single-byte alphanumeric characters and symbols.
- The following functions cannot be used while using Crestron RoomView®.
  ☛ "Changing Settings Using a Web Browser (Web Control)" p.153
  Message Broadcasting (EasyMP Monitor plug-in)
- Controlling is possible if **Standby Mode** is set to **Communication On**, even if the projector is in standby state (when the power is off).
  ☛ **ECO - Standby Mode** p.199

Operating a Projector from Your Computer

Displaying the Operation Window

Check the following before carrying out any operations.

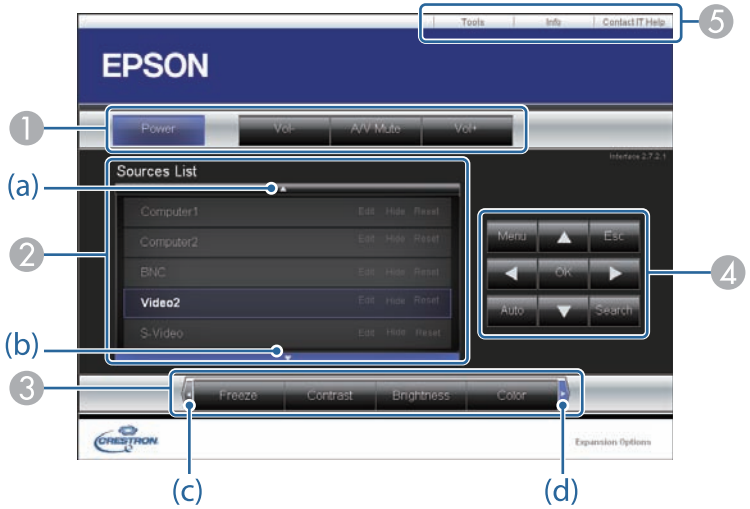
- Make sure the computer and projector are connected to the network. When communicating with a wireless LAN, connect in Advanced connection mode.
  ☛ "Wireless LAN Menu" p.190

- Set **Crestron RoomView** to **On** from the **Network** menu.
  ☛ **Network** - **Administrator Settings** - **Crestron RoomView** p.187

1 Start a Web browser on the computer.

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

Using the Operation Window



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

Button	Function
Power	Turns the projector power on or off.
Vol-/Vol+	Adjusts the volume.
A/V Mute	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.141

2 Switch to the image from the selected input source. To display input sources that are not shown on the screen, click (a) or (b) to scroll up or down. The current video signal input source is displayed in blue.
You can change the source name if necessary.

3 You can perform the following operations when you click the buttons. To display buttons that are not shown on the screen, click (c) or (d) to scroll left or right.

Button	Function
Freeze	Pauses or resumes image playback. ☛ "Freezing the Image (Freeze)" p.141
Contrast	You can adjust the difference between light and dark in the images.
Brightness	You can adjust the image brightness.
Color	You can adjust the color saturation for the images.
Sharpness	You can adjust the image sharpness.
Zoom	Click the [⊕] button to enlarge the image without changing the projection size. Click the [⊖] button to reduce an image that was enlarged with the [⊕] button. Click the [▲], [▼], [◀], or [▶] buttons to change the position of an enlarged image. ☛ "Enlarging Part of the Image (E-Zoom)" p.143

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

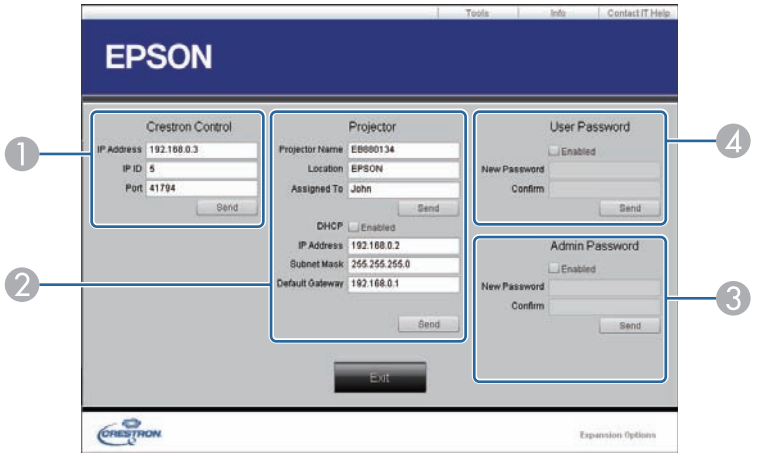
Button	Function
OK	Performs the same operation as the [↵] button on the remote control. ☛ "Remote Control" p.17
Menu	Displays and closes the Configuration menu.
Auto	If clicked while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.
Search	Switches to the image from the input port where video signals are being input. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54
Esc	Performs the same operation as the [Esc] button on the remote control. ☛ "Remote Control" p.17

❺ You can perform the following operations when you click the tabs.

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

Using the Tools Window

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



❶ **Crestron Control**
Make settings for Crestron® central controllers.

❷ **Projector**
The following items can be set.

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

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

③ **Admin Password**
Select the **Enabled** check box to require a password to open the Tools window.
The following items can be set.

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

④ **User Password**
Select the **Enabled** check box to require a password to open the operation window on the computer.
The following items can be set.

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

Setting Schedule

You can schedule turning the projector power on/off and switching the input source, as events in the schedule. Registered events are executed automatically at the specified time on the specified dates or weekly. You can register up to 30 events.

Warning

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

Setting the Time

You can set the date and time for the projector. You need to set the time to use the scheduling function and wireless LAN authentication.

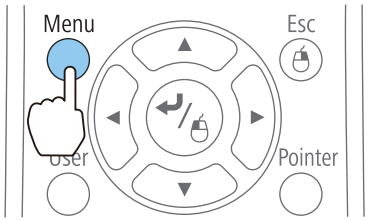
- When you turn on the projector for the first time, the message **Do you want to set the time?** is displayed. If you select **Yes**, go to step 4.
- When **Time/Schedule Protection** is set to **On** in **Password Protection**, settings related to the date and time cannot be changed. You can make changes after setting **Time/Schedule Protection** to **Off**.

☛ "Managing Users (Password Protection)" p.149

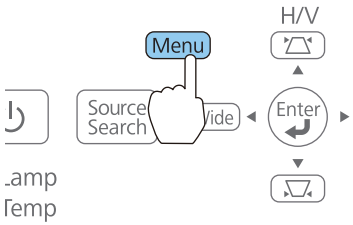
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.172

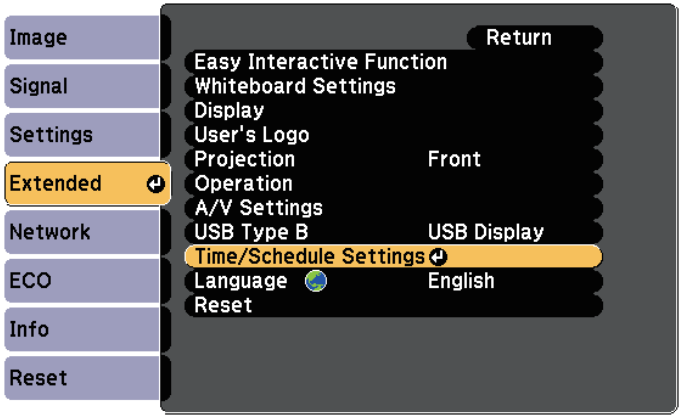
Using Remote Control



Using the Control Panel



2 Select **Time/Schedule Settings** from **Extended**.



3 Select **Date & Time**.



4 Select the item you want to set.

Use the soft keyboard to enter the date and time.

☛ "Soft Keyboard Operations" p.188

Submenu Name	Function
Date	Set today's date in the projector.
Time	Set the current time in the projector.
Time Difference (UTC)	Set the time difference from Coordinated Universal Time. When the time difference has not been set correctly and you save a screen in Whiteboard Mode, the saved date and time may not be correct.
Change DST Settings	Displays the screen to set the daylight saving time.
Use Internet Time	Set to **On** to update the time automatically through an Internet time server.

Submenu Name	Function
Internet Time Server	Input the IP address for an Internet time server.

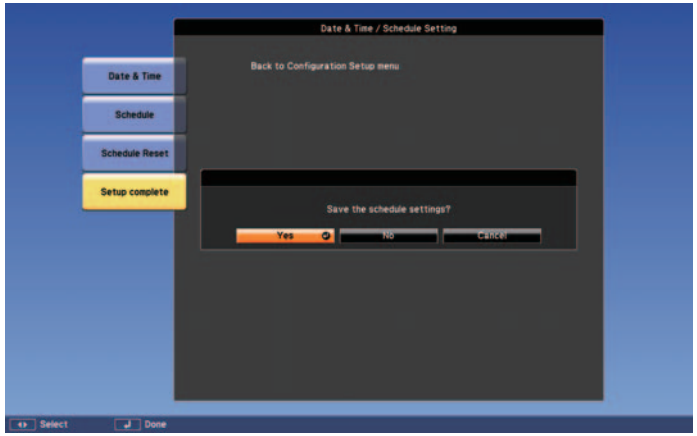
Daylight Saving Time screen

After changing the settings, select **Save**, and then press the [↵] button.

Submenu Name	Function
Daylight Saving Time	Set whether or not (**On**/**Off**) to activate the daylight saving time.
DST Start*	Set the date and time to start the daylight saving time.
DST End*	Set the date and time to end the daylight saving time.
DST Adjustment (min)	Adjusts the time difference between the standard time and the daylight saving time.

* When setting it for the last Sunday of the month, set the **Week** to **5**.

5 Select **Setup complete**, and then select **Yes** to save the date and time setting.

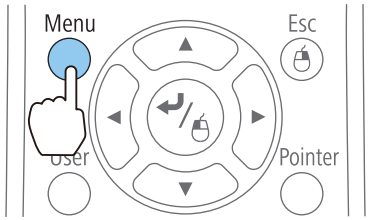


Saving a Schedule

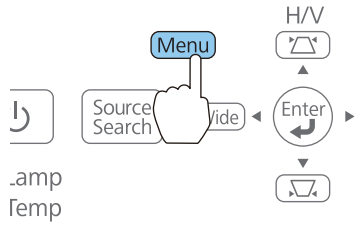
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.172

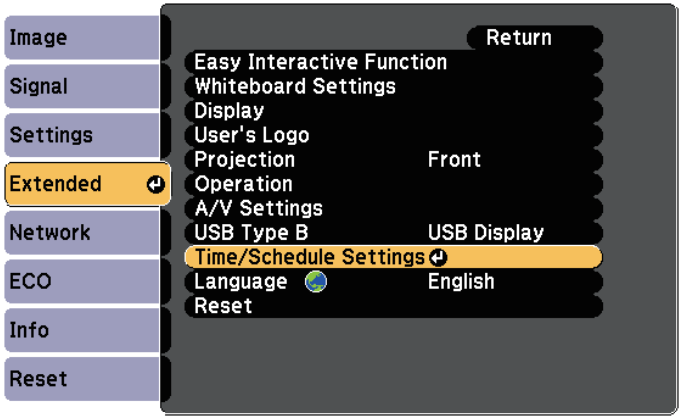
Using Remote Control



Using the Control Panel



2 Select **Time/Schedule Settings** from **Extended**.



3 Select **Add New** from **Schedule**.



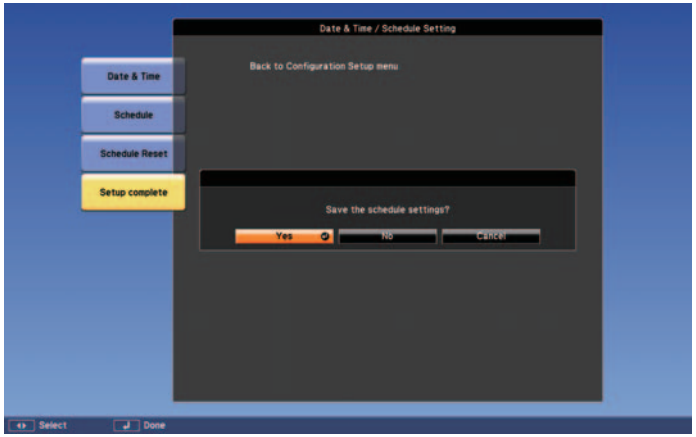
4 Set the **Date & Time / Schedule Setting**.

Submenu Name	Function
Event Settings	Select an operation of the projector when the event is executed. Select **No Change** for items that you do not want to change when the event occurs. You can set the following item operations. • Power • Source • Power Consumption • A/V Mute • Volume
Date / Time Settings	Set the date, day of the week, and time to execute the event. Use the soft keyboard to enter the date and time. ☛ "Soft Keyboard Operations" p.188

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

To register additional schedules, repeat steps 3 to 5.

6 Select **Setup complete**, and then select **Yes** to finish saving.

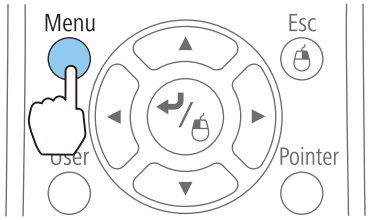


Checking Schedule

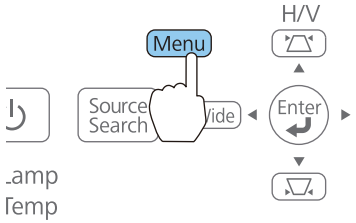
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.172

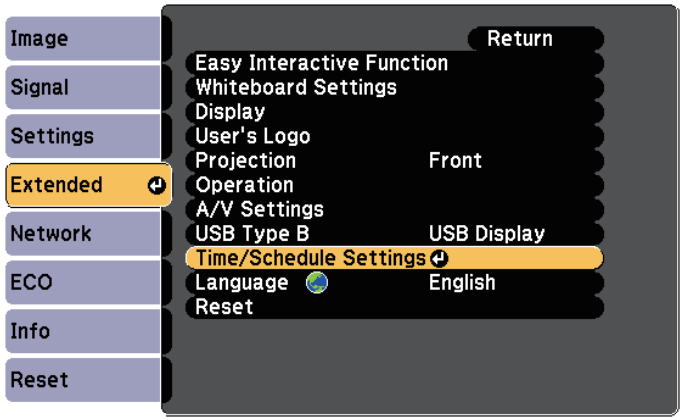
Using Remote Control



Using the Control Panel



2 Select **Time/Schedule Settings** from **Extended**.



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

The Schedule Settings screen is displayed. The indicator appears at the time when an event is saved.



- (Aqua): Single event
- (Orange): Regular event
- (Green): Communication monitoring ON/OFF
- (Gray): Disabled event

4 Use the [◁] [▷] buttons on the remote control or the [Tele]/[Wide] buttons on the control panel to highlight the date you want to check.

The details of the events registered that day are displayed.



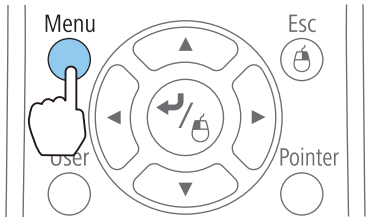
- (Blue): Enabled event
- (Gray): Disabled event
- : Regular event

Editing a Schedule

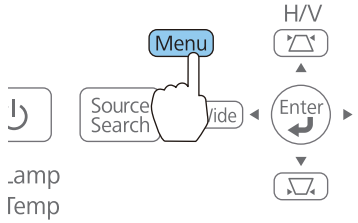
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.172

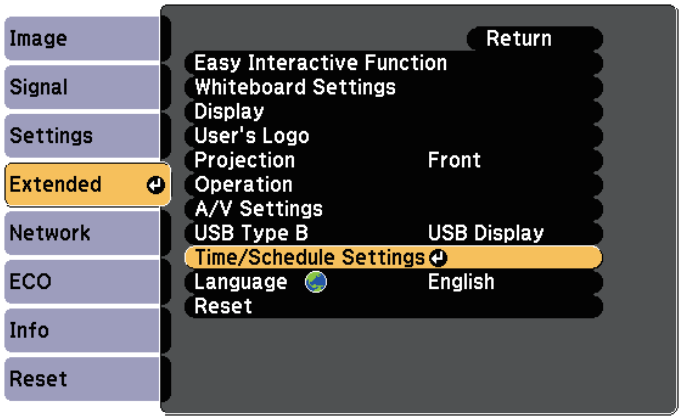
Using Remote Control



Using the Control Panel



2 Select **Time/Schedule Settings** from **Extended**.



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

4 Use the [◁][▷] buttons to highlight the date containing the schedule you want to edit.



5 Use the [△][▽] buttons to select the schedule you want to edit, and then press the [Esc] button.



Menu is displayed.

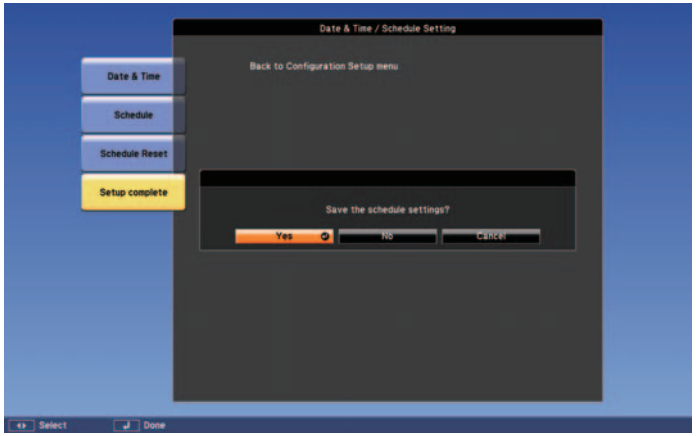
6 Select **Edit**, and then press the [↵] button.



Submenu Name	Function
On/Disabled	Enables or disables the selected schedule.

Submenu Name	Function
Edit	Edit the content of the selected schedule. Select **Save**, and then press the [↵] button to complete the editing.
Delete	Deletes the selected schedule.

7 Select **Setup complete**, and then select **Yes** to finish editing.



To delete all the registered schedules, select **Schedule Reset**, and then select **Yes**. Select **Setup complete**, and then select **Yes** to delete the schedules.

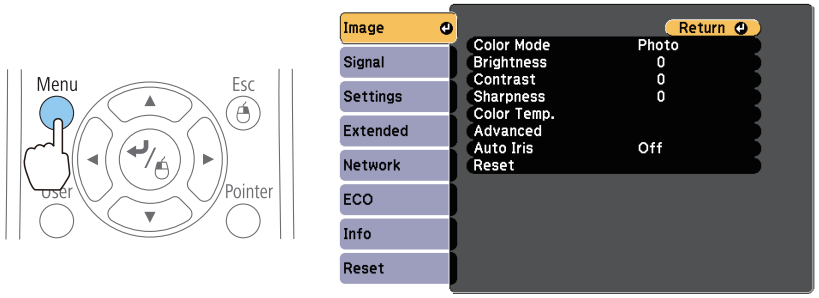
Configuration Menu

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

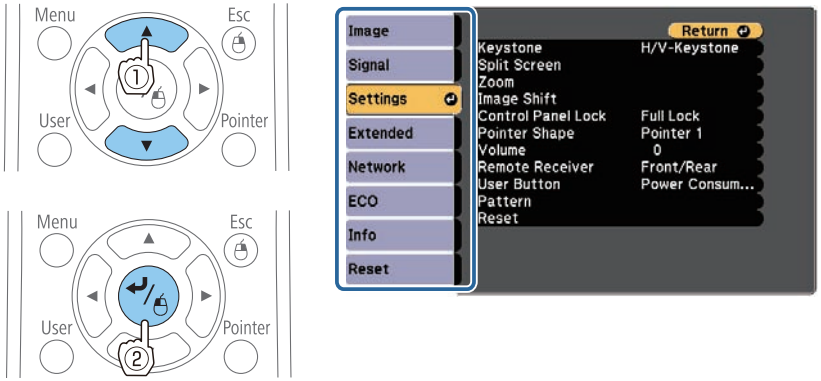
This section explains how to use the Configuration menu.

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.

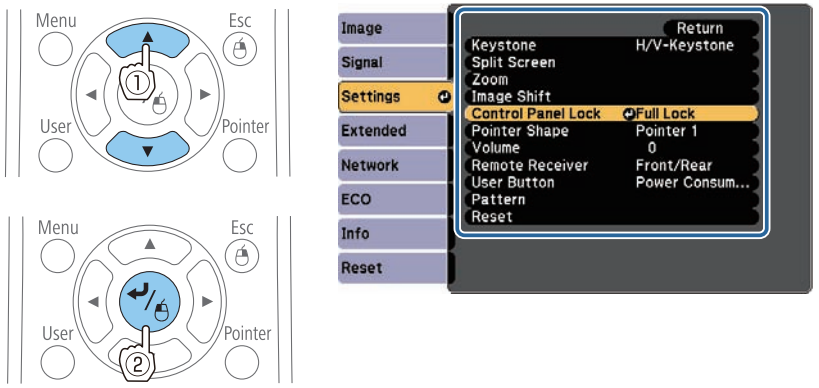
1 Display the Configuration menu screen.



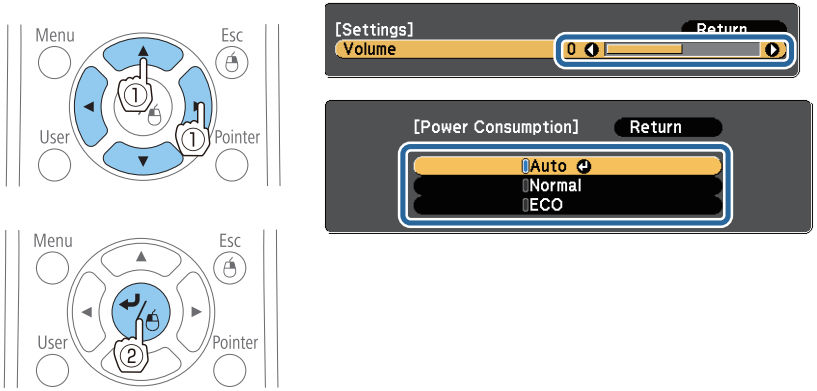
2 Select a top menu item.



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.175	Color Mode	Dynamic, Presentation, Theatre, Photo, Sports, sRGB, Whiteboard, DICOM SIM, and Customized
	Brightness	-24 to 24
	Contrast	-24 to 24
	Color Saturation	-32 to 32
	Tint	-32 to 32
	Sharpness	-5 to 5
	Color Temp.	5000K to 10000K, -3 to 6
	Advanced	Gamma, RGB, and RGBCMY
	Auto Iris	Off, Normal, and High Speed
Signal menu ☛ p.176	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, Auto, 16:9, Full, Zoom, and Native
	Overscan	Auto, Off, 4%, and 8%
	Image Processing	Fine, Fast
Settings menu ☛ p.178	Keystone	H/V-Keystone and Quick Corner
	Split Screen	-
	Zoom	0 (Wide) to 40 (Tele)
	Image Shift	-
	Control Panel Lock	Full Lock, Partial Lock, and Off
	Pointer Shape	Pointer 1, Pointer 2, Pointer 3
	Volume	0 to 20
	Remote Receiver	Front/Rear, Front, Rear and Off
	User Button	Power Consumption, Info, Progressive, Test Pattern, Resolution, Pattern Display, Auto Calibration
	Pattern	Pattern Display, Pattern Type, User Pattern, and Test Pattern
Extended menu ☛ p.179	Easy Interactive Function	Items in **General** Auto Calibration, Manual Calibration, Touch Unit Setup, Pen Mode, Hovering, Advanced Items in **PC Interactive** Pen Operation Mode, Enable Right Click, Advanced
	Whiteboard Settings	-
	Display	Messages, Display Background, Startup Screen, A/V Mute, Toolbars, Pen Mode Icon, Projector Control

Top Menu Name	Submenu Name	Items or Setting Values
	User's Logo	-
	Projection	Front, Front/Upside Down, Rear, Rear/Upside Down
	Operation	Direct Power On, High Altitude Mode, Startup Source Search, Auto Power On
	A/V Settings	A/V Output, Audio Output, HDMI1 Audio Output, HDMI2 Audio Output
	USB Type B	Easy Interactive Function, USB Display/Easy Interactive Function, Wireless Mouse/USB Display
	Time/Schedule Settings	-
	Language	15 or 35 languages*
ECO menu ☛ p.199	Power Consumption	Auto, Normal, ECO
	Light Optimizer	On and Off
	Sleep Mode	On and Off
	Sleep Mode Timer	1 to 30
	A/V Mute Timer	On and Off
	Standby Mode	Communication On and Communication Off
	ECO Display	On and Off
Info menu ☛ p.200	Projector Info	Lamp Hours, Source, Input Signal, Resolution, Video Signal, Refresh Rate, Sync Info, Status, Serial Number, EventID
	Version	Main, Main2
Reset menu ☛ p.201	Reset All	-
	Reset Lamp Hours	-

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

Network Menu

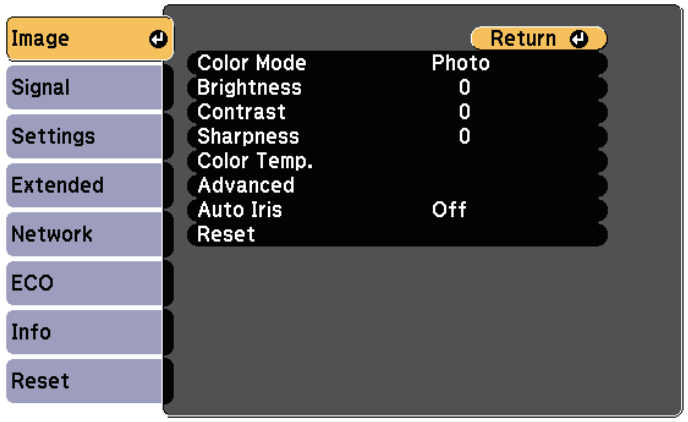
Top Menu Name	Submenu Name	Items or Setting Values
Basic menu ☛ p.189	Projector Name	-
	Web Remote Password	-
	Projector Keyword	On and Off
Wireless LAN menu ☛ p.190	Wireless LAN Power	On and Off
	Wi-Fi Protected Setup	-
	Connection Mode	Quick and Advanced
	SSID Auto Setting	On and Off
	SSID	-
	Search Access Point	-
	Channel	1ch, 6ch, and 11ch
	SSID Display	On and Off
	DHCP	On and Off
	IP Address	-
	Subnet Mask	-
	Gateway Address	-
	WINS server	-
	DNS server	-
	IP Address Display	On and Off
Security menu ☛ p.192	Security	Open, WPA/WPA2-PSK, WPA/WPA2-EAP

Top Menu Name	Submenu Name	Items or Setting Values
Wired LAN menu ☛ p.194	DHCP	On and Off
	IP Address	-
	Subnet Mask	-
	Gateway Address	-
	WINS server	-
	DNS server	-
	IP Address Display	On and Off
Administrator Settings menu ☛ p.195	Administrator Password	-
	Network Host Name	-
	PJLink Password	-
	Web Control Password	-
	Monitor Password	-
	Secure HTTP	On and Off
	Mail Notification	-
	Manage Certificates	-
	SNMP	-
	Priority Gateway	Wired, Wireless
	AMX Device Discovery	On and Off
	Crestron RoomView	On and Off
	Bonjour	On and Off
	EPSON 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.54



Sub-menu	Function
Color Mode	You can select the quality of the image to suit your surroundings. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.67
Brightness	You can adjust the image brightness.
Contrast	You can adjust the difference between light and dark in the images.
Color Saturation	(Adjustment is only possible when component video or composite video images are being input.) You can adjust the color saturation for the images.
Tint	(Adjustment is possible when component video signals are being input. If a composite video signal is input, adjustment is only possible when NTSC signals are being input.) You can adjust the image tint.
Sharpness	You can adjust the image sharpness.

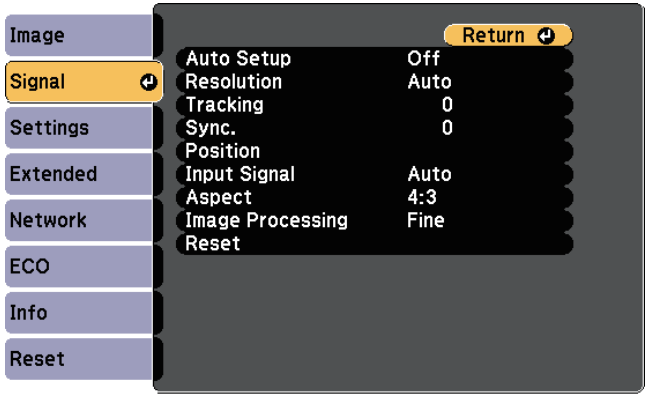
Sub-menu	Function
Color Temp.	You can adjust the overall tint of the image. The image is tinted blue when a high value is selected and tinted red when a low value is selected. Values that can be adjusted depend on the **Color Mode** settings. For sRGB: From 5000 K to 10000 K in 10 steps For other settings: From -3 to 6 in 10 steps
Advanced	(This item cannot be selected if **Color Mode** is set to sRGB.) You can make adjustments by choosing the following items. **Gamma**: You can adjust the coloring by selecting one of the gamma correction values, or referring to the projected image or a gamma graph. **RGB**: You can adjust the individual R (red), G (green), and B (blue) components of the offset and gain. **RGBCMY**: You can adjust the hue, saturation, and brightness of each color R (red), G (green), B (blue), C (cyan), M (magenta), Y (yellow) individually.
Auto Iris	(This item can be set only if **Color Mode** is set to **Dynamic**, **Theatre**, or **Customized**.) Set to **Normal** or **High Speed** to adjust the iris to obtain the optimum light for images being projected. Select **High Speed** to make faster iris corrections to match the speed of the scene. The setting is stored for each Color Mode. ☛ "Setting Auto Iris" p.68
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.201

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 Whiteboard, USB Display, USB1, USB2 or LAN.

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54

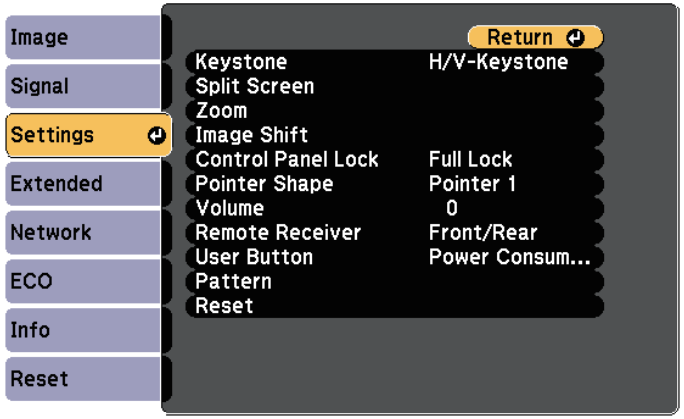


Sub-menu	Function
Auto Setup	(Only available when analog RGB computer signals are being input.) Set to **On** to automatically adjust Tracking, Sync., and Position to the optimum state when the input signal changes.
Resolution	(Only available when analog RGB computer signals are being input.) Set to **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.

Sub-menu	Function
Tracking	(Only available when analog RGB computer signals are being input.) You can adjust computer images when vertical stripes appear in the images.
Sync.	(Only available when analog RGB computer signals are being input.) You can adjust computer images when flickering, fuzziness, or interference appear in the images.
Position	(This item cannot be set when the source is HDMI1 or HDMI2.) You can adjust the display position up, down, left, and right when a part of the image is missing so that all of the image is projected.
Progressive	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 item cannot be set when **Image Processing** is set to **Fast**.) Smoothes out rough images converted using progressive. 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 HDMI1 or HDMI2 port is connected to a DVD player, the projector's video range is set according to the DVD player's video range setting. If you are worried about floating black spots or washed out parts in the image, set to **Expanded**.
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.

Sub-menu	Function
Video Signal	You can select the input signal from the Video port. If set to **Auto**, video signals are recognized automatically. If interference appears in the image or a problem occurs such as no image is being projected when set to **Auto**, select the appropriate signal according to the connected equipment.
Aspect	You can set the aspect ratio for projected images. ☛ "Changing the Aspect Ratio of the Projected Image" p.68
Overscan	(This setting can only be adjusted when a component video signal is being input.) Changes the output image ratio (the range of the projected image). You can set the cropping range to **Off**, **4%**, or **8%**. You can select **Auto** when the source is HDMI1 or HDMI2. If you select **Auto**, this setting is changed automatically depending on the source.
Image Processing	(This item cannot be selected if **Pen Mode** in **Easy Interactive Function** is set to **PC Interactive**.) When **Fine** is selected, priority is given to image quality, and the image is projected. When **Fast** is selected, priority is given to processing speed, and the image is projected. This improves the pen's tracking ability when using the interactive features.
Reset	You can reset all adjustment values on the **Signal** menu to their default settings, except for **Input Signal** and **Image Processing**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.201

Settings Menu



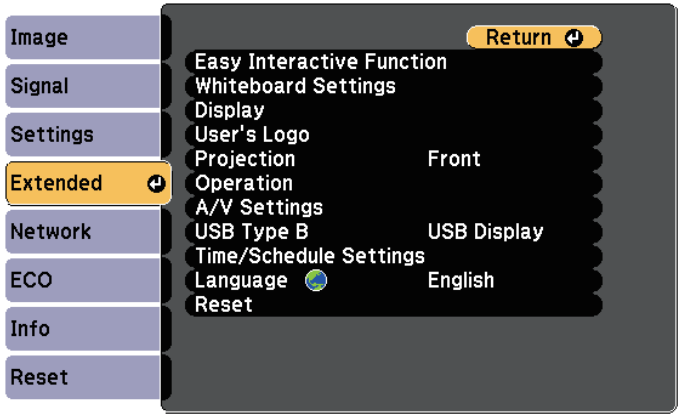
Sub-menu	Function
Keystone	You can correct keystone distortion. • When **H/V-Keystone** is selected: Adjust **V-Keystone** and **H-Keystone** to correct horizontal and vertical keystone distortion. • When **Quick Corner** is selected: Select and correct the four corners of the projected image. ☛ "Quick Corner" p.60
Split Screen	Changes to split screen projection. ☛ "Projecting Two Images Simultaneously (Split Screen)" p.128
Zoom	Adjusts the projected image size.
Image Shift	You can adjust the position of the image without moving the projector. ☛ "Adjusting the Position of the Image (Image Shift)" p.62
Control Panel Lock	You can use this to restrict operation of the projector's control panel. ☛ "Restricting Operation (Control Panel Lock)" p.151

Sub-menu	Function
Pointer Shape	You can select the shape of the pointer. Pointer 1: Pointer 2: Pointer 3: ☛ "Pointer Function (Pointer)" p.142
Volume	(This item cannot be set when the source is Whiteboard.) You can adjust the volume. Setting values are saved for each source.
Remote Receiver	You can limit the reception of the operation signal from the remote control. When set to **Off**, you cannot perform any operations from the remote control. If you want to make operations from the remote control, hold down the [Menu] button on the remote control for at least 15 seconds to reset the setting to its default value.
User Button	You can select the item in the Configuration menu to be assigned to the [User] button on the remote control. By pressing the [User] button the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments. You can assign one of the following items to the [User] button. **Power Consumption**, **Info**, **Progressive**, **Test Pattern**, **Resolution**, **Pattern Display**, **Auto Calibration**

Sub-menu	Function
Pattern	**Pattern Display**: Display a pattern. **Pattern Type**: You can select from Patterns 1 to 5 or User Pattern. Patterns 1 to 4 display projection lines such as ruled lines or a grid. Pattern 5 is a test pattern for performing focus adjustments for 4:3 screens. Pattern 1:  Pattern 2:  Pattern 3:  Pattern 4:  Pattern 5:  **User Pattern**: Captures a user pattern. ☛ "Saving User Pattern" p.147 **Test Pattern**: When the projector is set up, a test pattern is displayed so that you can adjust the projection status without connecting equipment. While the test pattern is displayed, zoom, focus adjustments, and keystone correction can be performed. To cancel the Test Pattern, press the [Esc] button on the remote control or the control panel. **Attention** If a pattern is displayed for a long time, a residual image may be visible in projected images.

Sub-menu	Function
Reset	You can reset all adjustment values in the **Settings** menu to their default settings, except for **Zoom**, **Image Shift**, and **User Button**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.201

Extended Menu



Sub-menu	Function
Easy Interactive Function	Allows you to use and set the interactive features. ☛ "Interactive Feature Modes" p.72 See the following table for more details. ☛ "Easy Interactive Function Setting Items" p.181
Whiteboard Settings	Sets Whiteboard Mode. ☛ "Whiteboard Settings Screen" p.183

Sub-menu	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 status for when no image signal is available to **Black**, **Blue**, or **Logo**. **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**. **Toolbar**: Set whether or not the toolbar tab is always displayed when using Annotation Mode. **Pen Mode Icon**: Set the display position for the pen mode icon when using the interactive features. The icon is hidden when set to **Off**. **Projector Control**: Set the display position for the projector control tools when using the interactive features. The default value is **Bottom**. When set to **Off**, the projector control tools are hidden.
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.145

Sub-menu	Function
Projection	Select from one of the following projection methods depending on how the projector is installed. **Front**, **Front/Upside Down**, **Rear**, and **Rear/Upside Down** You can change the Projection setting as follows by holding down the [A/V Mute] button on the remote control for about five seconds. **Front↔Front/Upside Down** **Rear↔Rear/Upside Down** ☛ "Installation Methods" p.30
Operation	**Direct Power On**: Set to **On** to turn on the projector simply by plugging it in. When the power cord is plugged in, note that the projector turns on automatically in cases such as a power outage being restored. **High Altitude Mode**: Set to **On** when using the projector above an altitude of 1500 m or higher. **Startup Source Search**: Set to **Off** to project images from the same source as the last time the projector was used. **Auto Power On**: (Only available when **Standby Mode** is set to **Communication On**.) If this is set to **Computer**, the projector turns on when signals are received from the Computer port, even when the projector is in standby mode. The default value is **Off**.

Sub-menu	Function
A/V Settings	**A/V Output**: (Only available when **Standby Mode** is set to **Communication On**.) Set this to **Always On** to output audio and images to external devices when the projector is in standby mode. Although the fan may rotate in standby mode, this is not an abnormality. **Audio Output**: Set the audio input port when projecting images from the Computer, Video, and USB-A ports. When set to **Audio1**, **Audio2**, or **Audio3**, audio is output from the selected port regardless of the source. **HDMI1 Audio Output/HDMI2 Audio Output**: Set the input audio when projecting images from the HDMI1 or HDMI2 port. When set to **Audio1**, **Audio2**, or **Audio3**, audio is output from the selected audio input port.
USB Type B	**Easy Interactive Function**: Allows you to use the interactive features to operate computers (computer interactive mode). USB Display and Wireless Mouse functions are not available. **USB Display/Easy Interactive Function**: Allows you to use the interactive features to operate computers (computer interactive mode) and USB Display. The Wireless Mouse function is not available. **Wireless Mouse/USB Display**: Allows you to use the Wireless Mouse function and USB Display. You cannot use the interactive features to operate computers (computer interactive mode). ☛ "Projecting with USB Display" p.55 ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.144 ☛ "Control Computer Features from a Projected Screen (Computer Interactive Mode)" p.111

Sub-menu	Function
Time/Schedule Settings	You can set the projector's date and time, and the projector's schedule so that it performs a specific operation at a pre-scheduled time. ☛ "Setting Schedule" p.164
Language	Allows you to set the language for messages and menus.
Reset	You can reset the adjustment values for **Display***1, **Operation***2, and **A/V Settings***3 from the **Extended** menu to their default settings. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.201

*1 Except for **Toolbars**, **Pen Mode Icon**, and **Projector Control**. When **User's Logo Protection** is set to **On** in Password Protection, settings related to user's logo cannot be changed. You can make changes after setting **User's Logo Protection** to **Off**.
☛ "Managing Users (Password Protection)" p.149

*2 Except for **High Altitude Mode** and **Startup Source Search**.

*3 Except for **A/V Output**.

Easy Interactive Function Setting Items

General

Sub-menu	Function
Auto Calibration	Starts auto calibration. ☛ "Calibrating Automatically" p.76
Manual Calibration	Starts manual calibration. ☛ "Calibrating Manually" p.77

Sub-menu	Function
Touch Unit Setup (EB-1430Wi only)	• **Installation Pattern**: Displays reference points to help you determine the installation position for the Touch Unit. • **Power**: Set to **On** to turn on the power for the Touch Unit. • **Angle Adjustment**: Performs angle adjustment for laser diffusion. • **Touch Calibration**: Performs calibration for the touch operations. See the following for the Touch Unit installation methods. ☛ *Installation Guide*
Pen Mode	(Only available when the source is Computer, HDMI1, HDMI2, USB Display, or LAN.) Changes the function for the interactive pen. When set to **PC Free Annotation** (default), you can draw on the projected screen. When set to **PC Interactive**, you can operate a computer from the projected screen. You can change the interactive pen function with the [Pen Mode] button on the remote control, or the pen mode icon on the projected screen.
Hovering	When set to **On** (default), the pointer follows the pen tip as you hover it over the screen and move it around.

Sub-menu	Function
Advanced	• **Distance of Projectors**: When using multiple projectors in the same room, adjust the interactive pen operations according to the distance between the projectors. If interactive pen operations are unstable, try another mode. The standard distance set for **Mode 1** is 2 m. • **Sync of Projectors**: When using multiple projectors in the same room, select the method for controlling the interactive pen interference. When set to **Infrared** (default), only infrared is used to synchronize. Set to **Wired** when connecting the projectors using cables. ☛ "Connecting Multiple Projectors" p.46 • **Wired Sync Mode**: When set to **Mode 1** (default), only cable connections are used to synchronize. When set to **Mode 2**, infrared synchronization is also performed at the same time even if the **Sync of Projectors** is set to **Wired**. Set to **Mode 2** when using in the same room as projectors that do not support cable connections. • **Pen Button Function**: When set to **Eraser** (default), the tip function changes between pen and eraser whenever you press the button on the side of the interactive pen. • **Confirm Clear Screen**: When set to **On** (default), a confirmation screen is displayed before clearing all of the content drawn on the projected screen. • **Color Palette**: When set to **Palette 2**, it changes to a color palette suitable for people who are color blind. Try **Palette 2** if you find it hard to see the default color palette.

PC Interactive

Set when you want to operate a computer from the projected screen.

Sub-menu	Function
Pen Operation Mode	**For EB-1430Wi** Set the operation modes for the interactive pen or touch operations depending on the operating system on the connected computer. **Mode 1** (default): Allows you to perform mouse operations using the interactive pen or your finger. Select when the connected computer is running Windows XP or earlier. The multi-touch and Ink features are available in Windows 8.1, Windows 8, Windows 7, and Windows Vista. The pen input is unavailable. **Mode 2**: Allows you to perform mouse operations using the interactive pen or your finger. Select when the connected computer is running Windows Vista or later, or Mac OS X. The multi-touch, Ink features, and pen input are available in Windows 8.1, Windows 8, Windows 7, and Windows Vista. **Mode 3**: Allows you to perform mouse operations. Select when the connected computer is running Linux. **For EB-1420Wi** Set the operation mode and the number of users for the interactive pen. **Two Users/Mouse** (default)/**One User/Mouse**: Allows you to perform mouse operations using the interactive pen. **One User/Pen**: The pen input and Ink feature is available in Windows 8.1, Windows 8, Windows 7, and Windows Vista.
Enable Right Click	(Only available when **Pen Operation Mode** is set to **Mode 1**/**Mode 3**, or **Two Users/Mouse** or **One User/Mouse**.) When this is set to **On**, a long press of the pen tip acts as a right click.
Advanced	• **Pen Tip Button**: Allows you to set operations for the pen tip of the interactive pen. The default setting is **Left Click**. • **Auto Adjust Pen Area**: When this is set to **On** (default), the pen area is automatically adjusted as the resolution for the connected computer changes. Set to **Off** if you do not want to automatically adjust the pen area that has been manually adjusted. • **Manual Adj. Pen Area**: Adjusts the pen area manually.

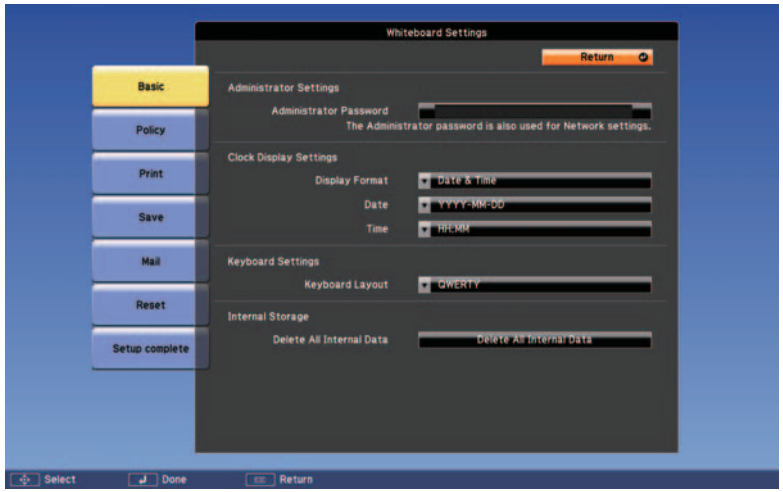
Whiteboard Settings Screen

The operating cautions and the format for alphanumeric text for the Whiteboard Settings screen is also the same for the Network menu.

☛ "Notes on Operating the Network Menu" p.188

☛ "Soft Keyboard Operations" p.188

Basic Menu



Sub-menu	Function
Administrator Settings	**Administrator Password**: Sets the administrator password. You can enter up to 16 single-byte alphanumeric characters. The Administrator Password is also used for the Network menu. ☛ "Administrator Settings Menu" p.195
Clock Display Settings	Set the display format of the clock displayed on the bottom toolbar. Set the date and time in **Date & Time** from Schedule Settings. ☛ "Setting the Time" p.164
Keyboard Settings	Set the keyboard layout for the software keyboard used in Whiteboard. You can select from QWERTY, QWERTZ, and AZERTY.
Internal Storage	**Delete All Internal Data**: Deletes all data from the internal storage. Deleting internal storage data cannot be stopped. Template information, address book, and whiteboard connection logs are deleted. Use this function if any problems occur with the internal storage, or when repairing or disposing of the projector.

Policy Menu



Sub-menu	Function
Policy Setting	Enables or disables functions such as capture, print, and scan.
Template Settings	**Protect User Templates**: When set to **On**, customized templates can only be set from a Web browser. When set to **Off**, they can also be set from Whiteboard Mode.
Internal Storage	**Use the Internal Storage**: When set to **On**, drawing data created in Whiteboard Mode is saved to the internal storage. When set to **Off**, you can only edit one page at a time, and the internal storage function is limited. Normally, we recommend setting this to **On**. **Auto Delete Saved Data**: When set to **Clear**, all drawing data is deleted from the internal storage when the projector is turned off. Normally, we recommend setting this to **Retain**. **Backup Time for Saved Data**: Sets the time to store a backup of drawing data if the power is accidentally turned off. A backup is performed even when **Auto Delete Saved Data** is set to **Clear**.

Print Menu



Sub-menu	Function
Default Printer	Set the default printer used when printing. The selected printer is displayed as the default in Whiteboard Mode. In Annotation Mode, this printer is used automatically.
Quality	Sets the print quality.
Paper Size	Sets the paper size.
Job username	Set the user name to be used for the print job. If nothing is set, the projector name is displayed. When editing, you can enter up to 64 single-byte alphanumeric characters (you cannot use " *+ , / ; < = > ?[\ ] ` : | and spaces).
IP Address	Enter the IP address for the network printer. 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, 192.0.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
Get printer information	Communicates with the printer associated with the IP address, and automatically recognizes the printer type.
Printer Type	Sets the type of connected printer. Normally use the values set automatically when printer information is acquired.
Test Print	Prints a test page.

Save Menu



Sub-menu	Function
Default Save Location	Sets the default save location for drawing data. This is displayed as the default save location when saving data in Whiteboard Mode. In Annotation Mode, this location is used automatically when saving data.

Sub-menu	Function
UNC Address	Sets the network folder name in UNC "\\host name\share name". Set an IP address or a NetBIOS name as the host name. You can enter up to 63 single-byte alphanumeric characters (you cannot use " * + , :; < = > ? [ ] ` | and spaces). • When an IP address is set as the host name, CIFS protocol is used to communicate with the file sharing server. If a routing configuration is used for TCP protocol on the network, the subnet is skipped and communication is performed beyond the subnet. • When a NetBIOS name is set as the host name, SMB protocol is used to communicate with the file sharing server. To connect to the file sharing server beyond the subnet, you need to configure a WINS server. ☛ "Wireless LAN Menu" p.190 ☛ "Wired LAN Menu" p.194
User name	Set the user name that has read/write access authority for the network folder. You can enter up to 64 single-byte alphanumeric characters (you cannot use spaces). If you also need to enter a domain name, add the domain name before the user name separated by a backslash.
Password	Enter a password for the user name. You can enter up to 64 single-byte alphanumeric characters. When the password is entered and **Setup complete** is selected, the value is set and displayed as an asterisk (*).
Check Connection	Performs a connection check.

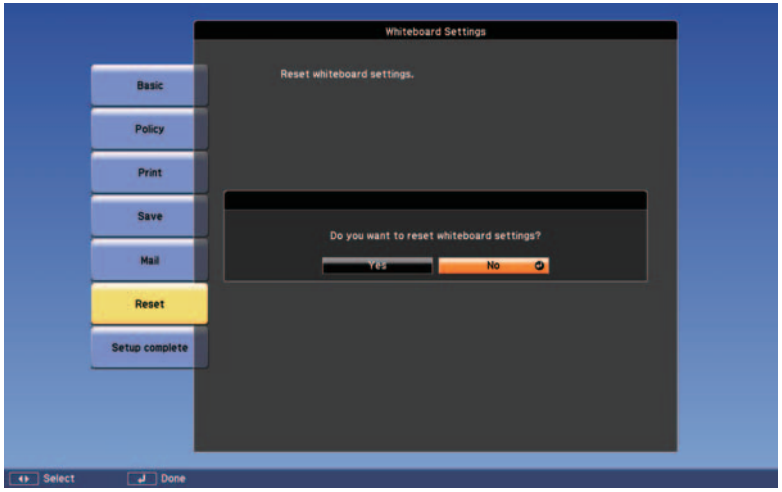
Mail Menu



Sub-menu	Function
SMTP Server	Select the mail server by specifying a host name or IP address. You can enter up to 63 single-byte alphanumeric characters (you cannot use " * + , ; < = > ?[\ ] ` | : and spaces). When specifying a host name, you need a DNS server on the network. ☛ "Wireless LAN Menu" p.190 ☛ "Wired LAN Menu" p.194 When specifying an IP address, you can enter a number from 0 to 255 in each field. However, the following IP addresses cannot be used. 127.x.x.x, 192.0.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
Authentication	Set the authentication method for the mail server.
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.

Sub-menu	Function
User name	Enter a user name for mail server authentication. You can enter up to 64 single-byte alphanumeric characters (spaces cannot be used).
Password	Enter a password for the user name. You can enter up to 64 single-byte alphanumeric characters (spaces cannot be used).
From	Enter the email address to display as the sender. You can enter up to 64 single-byte alphanumeric characters for the email address (you cannot use " ( ) , ; < > [\ ] : and spaces).
Default e-mail Address	Enter the default email address used to send emails. You can enter up to 64 single-byte alphanumeric characters for the email address (you cannot use " ( ) , ; < > [\ ] : and spaces).
Send a Test e-mail	Connects to the SMTP server and sends a test email to Default e-mail Address.

Reset Menu



Returns Whiteboard Settings to the default settings. The following data saved in the internal storage is deleted.

- Template information
- Address Book
- Shared whiteboard connection logs

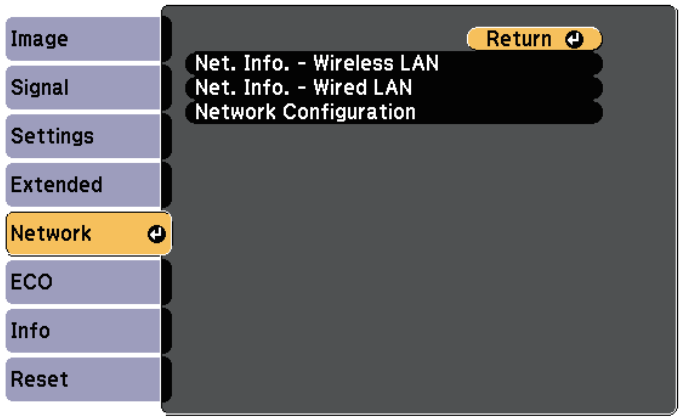
Network Menu

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

☛ "Setting Password Protection" p.149

Set the projector's time before configuring the Network menu. If the time is not set, the wireless LAN may not be configured correctly.

☛ "Setting the Time" p.164

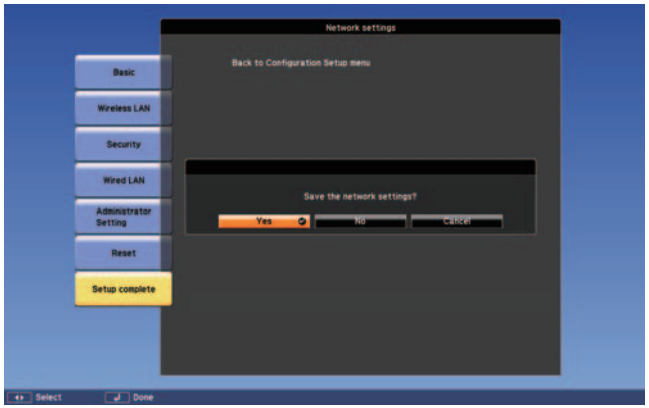


Sub-menu	Function
Net. Info. - Wireless LAN	Displays the following network setting status information. • Connection Mode • Wireless LAN Sys. • Antenna Level • Projector Name • SSID • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address
Net. Info. - Wired LAN	Displays the following network setting status information. • Projector Name • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address
Network Configuration	The following menus are available for setting network items. **Basic**, **Wireless LAN**, **Security**, **Wired LAN**, **Administrator Settings**, and **Reset**

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 **Setup complete** menu, and select one of **Yes**, **No**, or **Cancel**. When you select **Yes** or **No**, you are returned to the Configuration menu.



Yes: Saves the settings and exits the Network menu.

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 switches between upper case and lower case.
- 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.

The following text can be entered.

Numbers	0123456789
Alphabet	ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
Symbols	! # $ % & '( ) + - . / < = > ? @ ^ _ ` { | } ~

- Except for the **SSID**, colons and spaces cannot be entered on the Network menu.
- Some symbols (" * , ; [\ ] ^) cannot be entered using the software keyboard. Use your Web browser to enter the text.

☛ "Changing Settings Using a Web Browser (Web Control)" p.153

Basic Menu



Sub-menu	Function
Projector Name	Displays the projector's name on the supplied EasyMP Network Projection and EasyMP Multi PC Projection. When editing, you can enter up to 16 single-byte alphanumeric characters (you cannot use " *+ , / ; < = > ? [\ ] ` |).
Web Remote Password	Set a password to use Web Remote. You can enter up to 8 single-byte alphanumeric characters (* cannot be used). Web Remote is a computer function that allows you to operate the projector by using the Web browser on a computer connected on a network. ☛ "Changing Settings Using a Web Browser (Web Control)" p.153
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

To connect the projector to a computer using a wireless LAN, install the Wireless LAN unit.

☛ "Installing the Wireless LAN Unit" p.45



Sub-menu	Function
Wireless LAN Power	Set this to **On** when connecting the projector and a computer via a wireless LAN. If you do not want to connect via wireless LAN, turn it **Off** to prevent unauthorized access by others.
Wi-Fi Protected Setup	Set this when connecting to a network via a wireless LAN access point compatible with WPS (Wi-Fi Protected Setup). You can easily connect the projector to the access point and make security settings. Follow the on-screen instructions.

Sub-menu	Function
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. This 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. Set to **Advanced** when monitoring and controlling the projector over a network.
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 you want to connect to.
SSID	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 (^ can only be entered from the Web browser). Set SSID to blank or ANY to establish an ANY connection.
Search Access Point	When Connection Mode is set to **Advanced**, you can search for surrounding access points, and set the SSID to be connected from those access points. Depending on the access point settings, they may not be displayed in the list. You must set security separately. ☛ "Search Access Point Screen" p.191
Channel	You can select the channels used to connect in Quick mode. If interference from other signals occurs, use a different channel.
SSID Display	To prevent the SSID from being displayed on the LAN Standby screen, set this to **Off**.
DHCP	You can set whether or not (**On**/**Off**) to use DHCP. If this is set to **On**, you cannot set any more addresses.

Sub-menu	Function
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, 192.0.2.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)
DNS server	By setting a mail server and host name, the DNS server allows you to send emails of annotations created using the interactive feature. 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, 192.9.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) When **DHCP** is set to **On**, DNS server information is acquired using DHCP. At that time, these settings are given priority.
WINS server	By specifying a network folder as a save location, WINS server allows you to save the annotation content created using the interactive features. Set this when using WINS server and specifying a network folder on a different subnet. 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, 192.9.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) If you do not use a WINS server, set 0.0.0.0. When **DHCP** is set to **On**, WINS server information is acquired using DHCP. At that time, these settings are given priority.

Sub-menu	Function
IP Address Display	To prevent the IP address from being displayed on the LAN Standby screen, set this to **Off**.

Search Access Point Screen

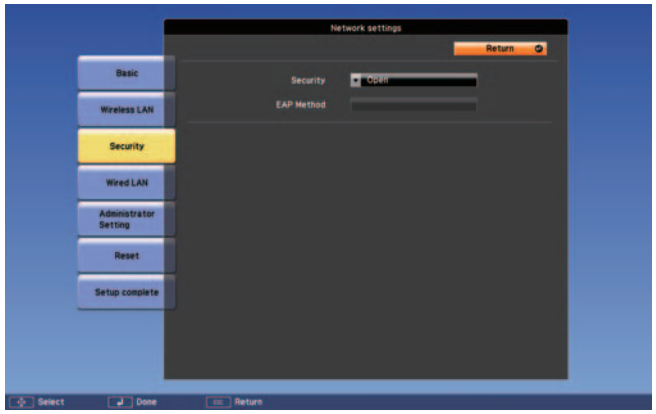
Detected access points are displayed in a list.



Sub-menu	Function
Refresh	Searches for the access point again.
	Indicates an already set access point.
	Indicates the access points where security is set. If you select an access point where security has not been set, the Wireless LAN menu is displayed. If you select an access point where security has been set, the Security menu is displayed. Select a type of security according to the security settings for the access point.

Security Menu

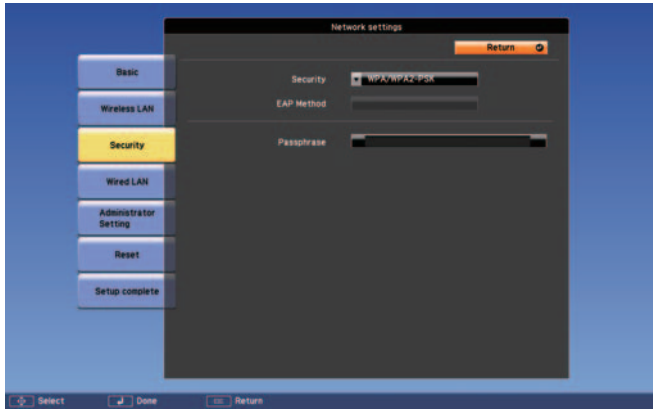
When the Wireless LAN unit is installed, it is strongly recommended that you set security.



Sub-menu	Function
Security	You can select a type of security. • When Quick is selected **Open**: Security is not set. **WPA2-PSK(AES)** (only when **SSID Auto Setting** is set to **On**): Communication is performed using WPA2 security. Uses AES method for encryption. When establishing a connection from a computer to the projector, enter the value set in the passphrase. • When Advanced is selected **Open**: Security is not set. **WPA/WPA2-PSK**: Connects in WPA personal mode. Encryption method is selected automatically according to the access point settings. Set a passphrase which is the same for the access point. **WPA/WPA2-EAP**: Connects in WPA enterprise mode. Encryption method is selected automatically according to the access point settings. Select this item when using LEAP.

You cannot set WEP as an encryption method for this projector.

When WPA/WPA2-PSK is Selected



Sub-menu	Function
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.198 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.153 In Quick mode, the initial passphrase is set. The initial passphrase is hidden. Change the passphrase to use Epson iProjection.

When WPA/WPA2-EAP is Selected



Sub-menu	Function
EAP Method	Set the protocol for authentication. **PEAP**: Authentication protocol widely used in Windows Server. **PEAP-TLS**: Authentication protocol used in Windows Server. Set when using client certificate. **EAP-TLS**: Authentication protocol widely used to use a client certificate. **EAP-Fast**, **LEAP**: Select this when these authentication protocols are used.

Sub-menu	Function
User name	Enter a user name to be used for authentication. You can enter up to 64 single-byte alphanumeric characters. If you select PEAP-TLS or EAP-TLS, the user name obtained automatically from the client certificate is displayed. You can change the user name if the authentication server requires another user name. 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.153 If you also need to enter a domain name, add the domain name before the user name separated by a backslash.
Password	Enter a password to be used for authentication. You can enter up to 64 single-byte alphanumeric characters. When the password is entered and **Finish** is selected, the value is set and displayed as an asterisk (*). 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.153
Client Certificate	Displays the **Issued to**, **Issued by**, and **Validity period** information set in the stored client certificate. It is blank if the certificate is not set.
Verify Server Certificate	Set to **On** to perform verification for the authentication server certificate. To verify a server certificate, you need to set CA certificate. ☛ "Setting Certificates" p.156
CA certificate	Displays the **Issued to**, **Issued by**, and **Validity period** information set in the stored CA certificate. It is blank if the certificate is not set.

Sub-menu	Function
Setting RADIUS Server Name	Set to **On** to perform authentication of the server name during server certificate verification. By specifying the server name, you can reduce the risk of connecting to an invalid authentication server.
RADIUS Server Name	Specify the authentication server name. You can enter up to 32 single-byte alphanumeric characters (^ cannot be used).
Verify Exp. date of Server Cert.	Set to **On** to perform verification of the certificate's validity period during server certificate verification.

Wired LAN Menu



Sub-menu	Function
DHCP	You can set whether or not (**On**/**Off**) to use 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, 192.0.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)

Sub-menu	Function
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)
DNS server	By setting a mail server and host name, the DNS server allows you to send emails of annotations created using the interactive feature. 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, 192.9.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) When **DHCP** is set to **On**, DNS server information is acquired using DHCP. At that time, these settings are given priority.
WINS server	By specifying a network folder as a save location, WINS server allows you to save the annotation content created using the interactive features. Set this when using WINS server and specifying a network folder on a different subnet. 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, 192.9.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) If you are not setting a WINS server, set 0.0.0.0. When **DHCP** is set to **On**, WINS server information is acquired using DHCP. At that time, these settings are given priority.
IP Address Display	To prevent the IP address from being displayed on the LAN Standby screen, set this to **Off**.

Administrator Settings Menu



Sub-menu	Function
Administrator Password	Enter the password for the Administrator Settings menu for network settings. You can enter up to 16 single-byte alphanumeric characters (* cannot be used). If the administrator password is not set, click **OK** with an empty password box. The Administrator Password is also used for Whiteboard Settings. ☛ "Basic Menu" p.184
Network Host Name	This name is used to identify the projector in Web Control. You can enter up to 15 single-byte alphanumeric characters. The only symbols you can use are - (hyphen) and _ (underscore). (However, the first character should be an alphabetical character, and the last character should be an alphanumeric character.)
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 (symbols cannot be used). ☛ "About PJLink" p.160

Sub-menu	Function
Web Control Password	Set a password to use when making settings and controlling the projector using Web Control. You can enter up to 8 single-byte alphanumeric characters (* cannot be used). 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.153
Monitor Password	Set a password to use EasyMP Monitor. You can enter up to 16 single-byte alphanumeric characters (* cannot be used).
Secure HTTP	To strengthen security, communication between the projector and computer in Web control is encrypted. When setting security with Web control, it is recommended to set this to **On**.
Mail Notification	Goes to the Mail Notification setting menu. ☛ "Mail Notification menu" p.196
Manage Certificates	Goes to the Manage Certificates settings menu. ☛ "Manage Certificates menu" p.197
SNMP	Goes to the SNMP settings menu. ☛ "SNMP menu" p.198
Priority Gateway	For the priority gateway, select either **Wired** or **Wireless**.
AMX Device Discovery	When you want to allow the projector to be detected by AMX Device Discovery, set this to **On**. Set this to **Off** if you are not connected to an environment controlled by a controller from AMX or AMX Device Discovery.
Crestron RoomView	Set this to **On** only when monitoring or controlling the projector over the network using Crestron RoomView®. Otherwise, set this to **Off**. ☛ "About Crestron RoomView®" p.161 Changes in projector settings take effect upon restarting. When this is set to **On**, the following functions are not available. • Web control • Message Broadcasting (EasyMP Monitor plugin)

Sub-menu	Function
Bonjour	Set this to **On** when connecting to the network using Bonjour. See Apple's Web site for more information on Bonjour. http://www.apple.com/
EPSON Message Broadcasting	You can switch the EPSON Message Broadcasting function to enable or disable. You can download Message Broadcasting and its Operation Guide from the following Web site. http://www.epson.com

Mail Notification menu

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

☛ "Reading Error Notification Mail" p.158



Sub-menu	Function
Mail Notification	Set to **On** to send an email to the preset addresses when a problem or warning occurs with a projector.

Sub-menu	Function
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, 192.0.2.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.
Email Address 1/ Email Address 2/ Email Address 3	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 64 single-byte alphanumeric characters for the email address (you cannot use " ( ) , ; < > [\ ]). 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.153 The address for destination 1 is the mail notification sender's address.
Setting a Notification Event	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 **Email Address** notifying that a problem or warning has occurred. You can select multiple items from the displayed items.

Manage Certificates menu

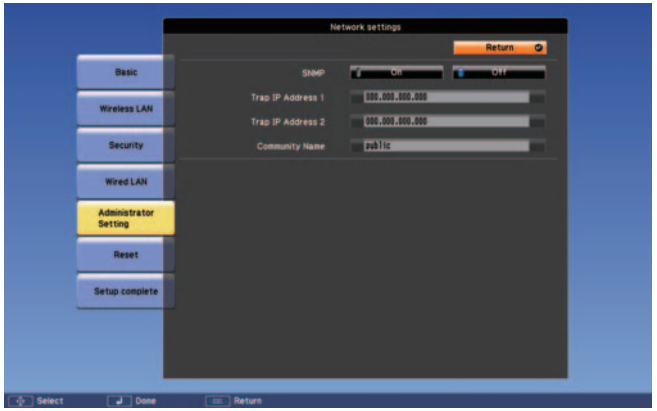


Sub-menu	Function
Client Certificate	Displays the **Issued to**, **Issued by**, and **Validity period** information set in the stored client certificate. It is blank if the certificate is not set. You need to set Client Certificate when **WPA/WPA2-EAP** is selected in **Security**, and **PEAP-TLS** or **EAP-TLS** are selected in **EAP Method**. Select **Clear** to delete the stored certificate.
CA certificate	Displays the **Issued to**, **Issued by**, and **Validity period** information set in the stored CA certificate. It is blank if the certificate is not set. You need to set CA certificate when **WPA/WPA2-EAP** is selected in **Security**, when verifying the authentication server certificate. Select **Clear** to delete the stored certificate.
Self-signed Certificate	(This item can only be set when **Secure HTTP** is set to **On**.) The **Issued to**, **Issued by**, and **Validity period** information for the certificate maintained by the server function in the projector is displayed. This information is not displayed if Web Server Certificate is set. Select **Refresh** to update the self-signed certificate.

Sub-menu	Function
Web Server Certificate	(This item can only be set when **Secure HTTP** is set to **On**.) The **Issued to**, **Issued by**, and **Validity period** information on the certificate set in the projector is displayed. This information is not displayed when a Self-signed Certificate is set. Select **Clear** to delete the stored certificate.

- Web Control is used to set certificates.
  ☛ "Setting Certificates" p.156
- You can also install digital certificates on the projector from a USB storage device. However, if you install a certificate from both a USB storage device and the network, it may not be installed correctly.

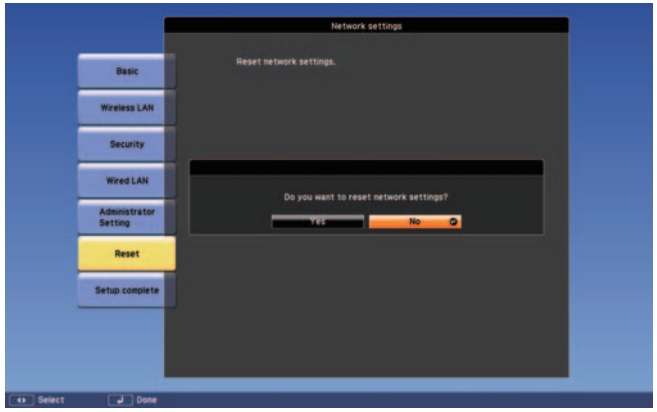
SNMP menu



Sub-menu	Function
SNMP	Set to **On** to monitor the projector using SNMP. To monitor the projector, you need to install the SNMP manager program on your computer. SNMP should be managed by a network administrator. The default value is **Off**.
Trap IP Address 1/Trap IP 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, 192.0.2.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
Community Name	Set the community name of SNMP. You can enter up to 32 single-byte alphanumeric characters (you can only use the @ symbol).

Reset Menu

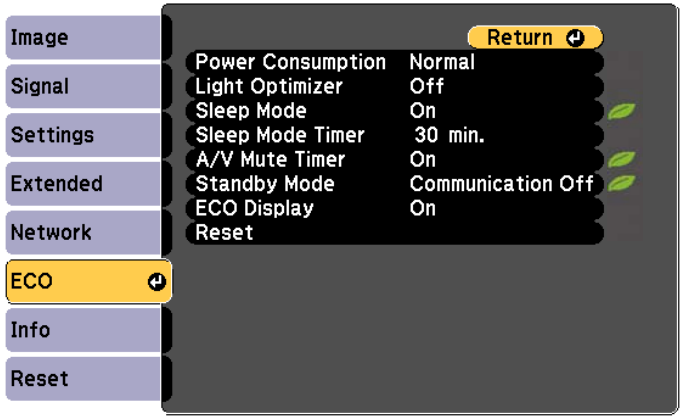
Resets all of the network settings.



Sub-menu	Function
Reset network settings.	To reset all of the Network settings, select **Yes**. When you reset the network settings , the Passphrase, Administrator Password and Manage Certificates menu settings change back to their default values, and the certificates are deleted. After you reset all the settings, the Basic menu appears.

ECO Menu

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



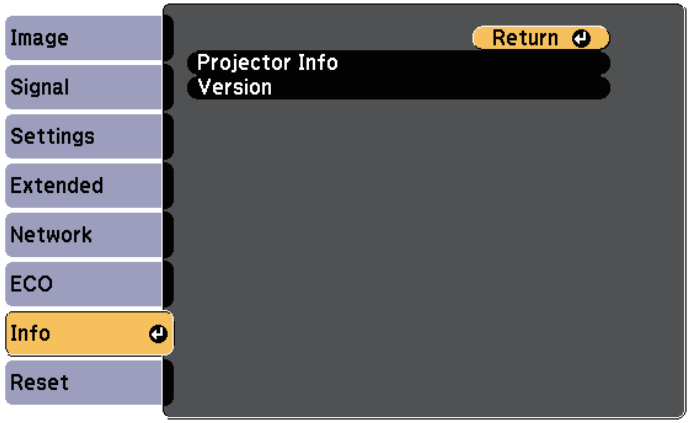
Sub-menu	Function
Power Consumption	You can set the lamp brightness to one of two settings. Select **ECO** if the images being projected are too bright, such as when projecting images in a dark room or onto a small screen. When **ECO** is selected, power consumption during projection decreases, and fan rotation noise is reduced. When **Auto** is set, the surrounding brightness is detected by the illumination sensor, and the lamp's brightness is automatically adjusted. When using at high altitude or in locations subject to high temperatures, you may not be able to change settings.
Light Optimizer	(This item can only be set when **Power Consumption** is set to **Normal** or **Auto**.) When set to **On**, the lamp brightness is adjusted according to the image being projected. This helps to reduce the amount of electricity being used by lowering the lamp's brightness according to the scene being projected. The setting is stored for each Color Mode.
Sleep Mode	When set to **On**, this automatically stops projection when no image signal is being input and no operations are carried out for a specified length of time. Also, if no image signal is input for a specified length of time, the lamp dims until the power turns off. When an image signal is input, the projector returns to normal operating status.
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.
A/V Mute Timer	When set to **On**, this turns off the power automatically 30 minutes after A/V mute is enabled. Also, if A/V mute is enabled and a specified length of time has passed, the lamp dims until the power turns off. When A/V mute is disabled, the projector returns to normal operating status.
Standby Mode	If you set **Communication On**, you can perform the following operations even if the projector is in standby mode. • Monitor and control the projector from a computer over the network • Output audio and images to an external device (only when **A/V Output** is set to **Always On**) Set **Connection Mode** to **Advanced** when monitoring and controlling the projector over wireless LAN. ☛ **Network** - **Wireless LAN** - **Connection Mode** p.190

Sub-menu	Function
ECO Display	When set to **On**, when the lamp brightness changes from normal to low or low to normal, leaf icons are displayed at the bottom-left of the projected screen to indicate the power-saving status.
Reset	You can reset all adjustment values on the **ECO** menu to their default settings, except for **Standby Mode**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.187

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.

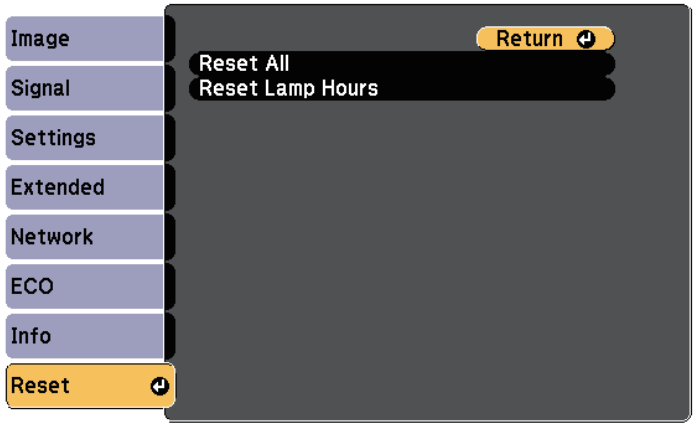
☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54



Sub-menu	Function
Projector Info	• **Lamp Hours**: Displays the cumulative lamp operating time *. When it reaches the lamp warning time, the characters are displayed in yellow. • **Source**: Displays the source name for the connected equipment currently being projected. • **Input Signal**: Displays the setting for **Input Signal** in the **Signal** menu according to the source. • **Resolution**: Displays the resolution. • **Video Signal**: Displays the settings for **Video Signal** in the **Signal** menu. • **Refresh Rate**: Displays the refresh rate. • **Sync Info**: Displays the image signal information. It may be needed if service is required. • **Status**: Displays the information about errors that have occurred in the projector. It may be needed if service is required. • **Serial Number**: Displays the projector's serial number. • **Event ID**: Displays the problems occurred in the projector using the Event IDs, when the projector and the computer are connected through the network. See the following page for the detailed information on the Event ID. ☛ "About Event ID" p.227
Version	**Main/Main2**: Displays the projector's firmware version.

* 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



Sub-menu	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**, **Zoom**, **Image Shift**, **User's Logo**, all items in the **Network** menu, **Lamp Hours**, **Language**, and **Password**.
Reset Lamp Hours	Clears the cumulative lamp hours use time. Reset this when you replace the lamp.

Once the Configuration menu content has been set for one projector, you can use it to perform batch setup for multiple projectors (batch setup function).

Use one of the following methods.

- Setup using a USB memory.
- Setup using EasyMP Network Updater.

For more details, see the *Installation Guide*.

☛ *Installation Guide*

Troubleshooting

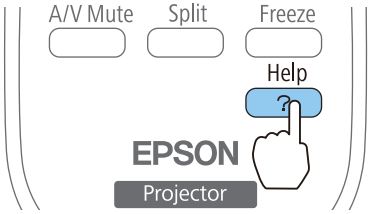
This chapter describes how to identify problems and what to do if a problem is found.

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.

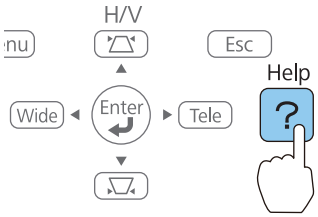
1 Press the [Help] button.

The Help screen is displayed.

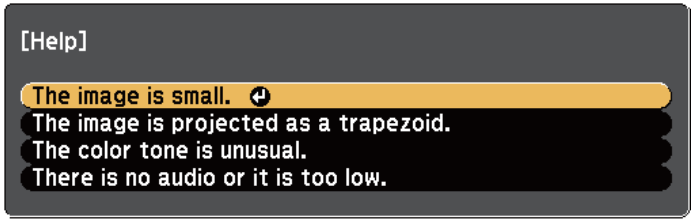
Using Remote Control



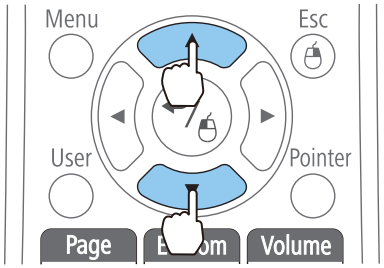
Using the Control Panel



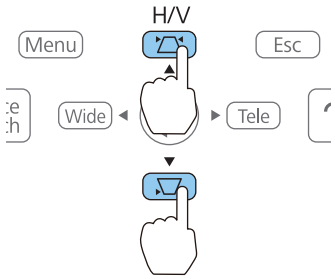
2 Select a menu item.



Using Remote Control

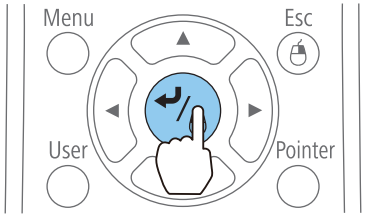


Using the Control Panel

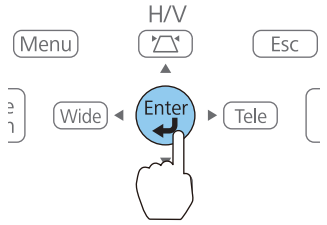


3 Confirm the selection.

Using Remote Control

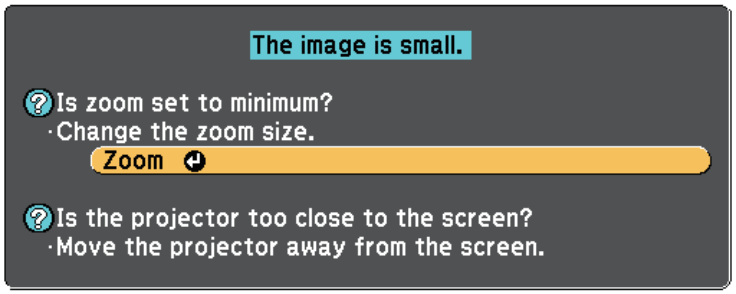


Using the Control Panel



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.205

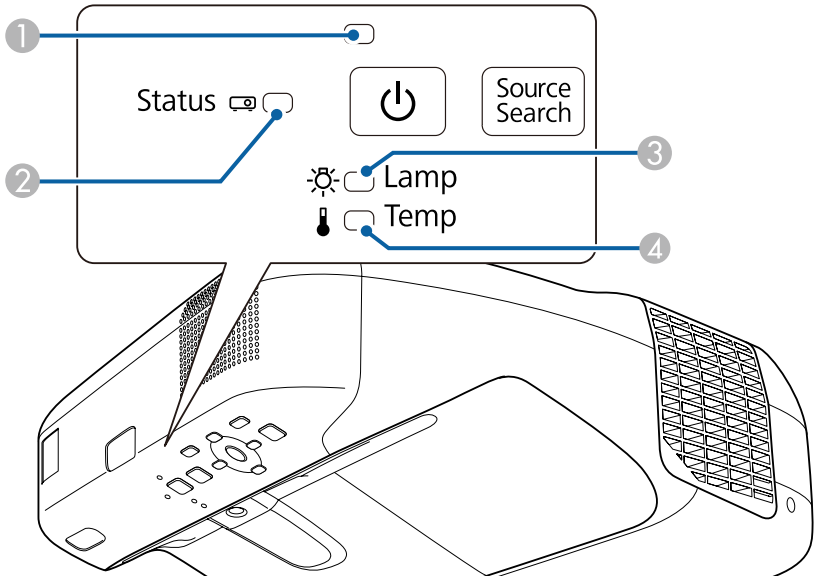
If you are having a problem with the projector, first check the projector's indicators and see "Reading the Indicators".

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

☛ "When the Indicators Provide No Help" p.210

Reading the Indicators

The projector is provided with the following four indicators. The color and lit status of the indicators shows the status of the projector.



1	Power indicator	Indicates the projector's status.
2	Status indicator	Indicates the projector's status.
3	Lamp indicator	Indicates the projection lamp status.

④ Temp indicator Indicates the internal temperature status.

Indicators		Status	Explanation
Power supply	Status		
Blue - Lit	Off	Standby condition	Power is being supplied to the projector. When the [⏻] power button is pressed in this condition, projection starts.
		Network monitoring status	The projector is being monitored and controlled over a network (when **Standby Mode** is set to **Communication On**). If the power cord is disconnected and then reconnected in this status, the power indicator flashes blue.
Blue - Lit	Blue - Flashing	Warm-up status	This is the status immediately after turning on the projector. Warm-up takes approximately 30 seconds after the lamp turns on. In this status you cannot turn off the projector, even if you press the [⏻] power button.
		Cool down status	This is the status immediately after turning off the projector. In this status, all buttons are disabled.
Blue - Lit	Blue - Lit	Normal status	The projector is projecting.

See the following table for the status of indicators and how to resolve the problems.

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

Indicators				Cause	Remedy or Status
Power supply	Status	Lamp	Temp		
Off	Blue - Flashing	Orange - Flashing	Off	Internal Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
Off	Blue - Flashing	Off	Orange - Flashing	Fan Error Sensor Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*

Indicators				Cause	Remedy or Status
Power supply	Status	Lamp	Temp		
□ Off	 Blue - Flashing	□ Off	■ Orange - Lit	High Temp Error (Overheating)	The lamp turns off automatically and projection stops. Wait for approximately five minutes. After approximately five minutes the projector switches to standby mode, so check the following two points. • Check that the air filter and air exhaust vent are not blocked, 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.231, "Replacing the Air Filter" p.238 If the error continues after checking the points above, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
					When using at an altitude of 1500 m or more, set **High Altitude Mode** to **On**. ☛**Extended** - **Operation** - **High Altitude Mode** p.179
□ Off	 Blue - Flashing	■ Orange - Lit	□ Off	Lamp Error Lamp Failure	Check the following two points. • Take out the lamp and check whether it is cracked. ☛ "Replacing the Lamp" p.234 • Clean the air filter. ☛ "Cleaning the Air Filter" p.231
					If the lamp is not cracked: Reinstall the lamp and plug in the power cord. **If the error continues**: Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
					If it 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 **On**. ☛**Extended** - **Operation** - **High Altitude Mode** p.179
				Lamp Cover Open	Check that the lamp and lamp cover are securely installed. If the lamp or the lamp cover are not installed correctly, the lamp does not turn on. ☛ "Replacing the Lamp" p.234

Indicators				Cause	Remedy or Status
Power supply	Status	Lamp	Temp		
Off	Blue - Flashing	Orange - Flashing	Orange - Flashing	Auto Iris Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
Off	Blue - Flashing	Orange - Lit	Orange - Lit	Power Err.	
Blue - Flashing	State dependent indication	State dependent indication	Orange - Flashing	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 not blocked, 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.231, "Replacing the Air Filter" p.238
Blue - Flashing	State dependent indication	Orange - Flashing	State dependent indication	Replace Lamp	Replace it with a new lamp. ☛ "Replacing the Lamp" p.234 If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may blow increases. Replace it with a new lamp as soon as possible.
Off	Blue - Flashing	Orange - Lit	Orange - Lit	Obstacle Detection Error	A beep sounds, and the message "For safety purposes remove any obstacles blocking the lens." is displayed. The projector will turns off automatically if no action is taken. Check the following two points. • Check that there are no obstacles interfering with the projection window. Remove any obstacles. • Clean the obstacle sensor if there is no obstacle. ☛ "Cleaning the Obstacle Sensor" p.230 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*

- 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.210
- 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	☛ p.211
• **Moving Images Are Not Displayed (Only the Moving Image Portion Turns Black)** Moving images played back from a computer appear black and the images are not projected	☛ p.212
• **Projection Stops Automatically**	☛ p.212
• **The Message "Not supported" is Displayed**	☛ p.212
• **The Message "No Signal" is Displayed**	☛ p.213
• **Images are Fuzzy, Out of Focus, or Distorted**	☛ p.213
• **Interference or Distortion Appear in Images**	☛ p.214
• **The Mouse Cursor Flickers (Only when Projecting USB Display)**	☛ p.215
• **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, or the height and width ratios of the image are not correct	☛ p.215
• **Image Colors are Not Right** The whole image appears purplish or greenish, images are black & white, or colors appear dull	☛ p.216
• **Images Appear Dark**	☛ p.216

Problems when Projection Starts

• **The Projector Does Not Turn On**	☛ p.217

Problems with the Interactive Features

• **Cannot Draw on the Projected Screen**	☛ p.218
• **Cannot Operate a Computer from the Projected Screen After Connecting to the Computer**	☛ p.218
• **The message "An error occurred in the Easy Interactive Function." is Displayed**	☛ p.219
• **Computer's Mouse Does Not Work Correctly**	☛ p.219
• **The Interactive Pen Does Not Work**	☛ p.219
• **The Response Time for the Interactive Pen is Slow (Only when Projecting USB Display)**	☛ p.220
• **Cannot Perform Touch Operations Correctly (EB-1430Wi only)**	☛ p.220
• **The Dot Moves Automatically or Does Not Move to the Next Position During Manual Calibration**	☛ p.220
• **Cannot Connect to the Whiteboard of a Shared Projector**	☛ p.221
• **Cannot View the Shared Drawing Contents**	☛ p.221
• **Cannot Save the Screen for a Shared Whiteboard in a Web Browser**	☛ p.222
• **Cannot Perform Operations while Capturing, Printing, or Saving**	☛ p.222
• **Cannot Paste the Capture of the Projected Screen Correctly**	☛ p.222
• **Cannot Print Normally**	☛ p.222
• **Cannot Scan Normally**	☛ p.223
• **The Time is Out of Sync, Settings for the Internal Storage are Not Reflected Correctly**	☛ p.223
• **Cannot Change the Source**	☛ p.223

Other Problems

• **No Sound can be Heard or the Sound is Faint**	☛ p.223
• **There is Noise in the Audio (Only when Projecting USB Display)**	☛ p.224
• **The Remote Control Does Not Work**	☛ p.224
• **I Want to Change the Language for Messages and Menus**	☛ p.225

• **The Authentication Setting of Wireless LAN Fails**	☛ p.225
• **Mail is Not Received even if an Error Occurs with the Projector**	☛ p.225
• **The Message "The battery that saves your clock settings is running low." is Displayed**	☛ p.226

• **Cannot Change Settings Using a Web Browser**	☛ p.226

Problems Relating to Images

No Images Appear

Check	Remedy
Did you press the [⏻] power button?	Press the [⏻] power button to turn the power on.
Are all of the indicators 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.53 Check the breaker and so on to ensure power is being supplied.
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.141
Are the Configuration menu settings correct?	Reset all of the settings. ☛ **Reset** - **Reset All** p.201
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.176
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.

Moving Images are Not Displayed (Only the Moving Image Portion Turns Black)

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
Are **Sleep Mode** or **A/V Mute Timer** set to **On**?	If any of these are set to **On**, the power turns off automatically in the following situations. • When **Sleep Mode** is set to **On**: If no operations are performed for a specified length of time while no image signal is being input. • When **A/V Mute Timer** is set to **On**: If approximately 30 minutes has passed since the A/V mute was enabled. To prevent the projector from switching off automatically, make sure each setting is set to **Off**. ☛ **ECO** - **Sleep Mode**, **A/V Mute Timer** p.199
Is the computer in power-saving mode?	If the computer is in power-saving mode and no operations are performed for a specified period of time, the image may disappear. Perform an operation on the computer to display the image again.

The Message "Not supported" is Displayed

Check	Remedy
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.176
Do the image signal resolution and refresh rate correspond to the mode? (Only when projecting computer images)	See the documentation supplied with the computer for how to change the image signal resolution and refresh rate output from the computer. ☛ "Supported Monitor Displays" p.245

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.53
Is the correct port selected?	Change the image by pressing the [Source Search] button on the remote control, control panel, or the Control Pad. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.54
Is the power of the connected computer or video equipment 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 accessory monitor, change the output so that the image signals are also output externally. 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 projector and computer off and then back on again. ☛ "From Installation to Projection" p.53 ☛ Computer's documentation
Is the computer in power-saving mode?	If the computer is in power-saving mode and no operations are performed for a specified period of time, the image may disappear. Perform an operation on the computer to display the image again.

Images are Fuzzy, Out of Focus, or Distorted

Check	Remedy
Is the focus adjusted correctly?	Move the focus lever to adjust the focus. ☛ "Correcting the Focus" p.64
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.243
Is the Keystone adjustment value too large?	Lower the projection angle to reduce the amount of Keystone correction. ☛ "Adjusting the Vertical Position of the Image (Models Supplied with the Feet Only)" p.63

Check	Remedy
Is the Aspect Ratio set correctly?	You can change the Aspect Ratio of the projected image to suit the type, the ratio of height and width, and the resolution of the input signals. ☛ "Changing the Aspect Ratio of the Projected Image" p.68
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.176
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "Connecting Equipment" p.33
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.245 ☛ 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.176
Is the **Resolution** set to anything other than **Auto**? (Only when projecting on a split screen)	The image may be collapsed if the **Resolution** on the Configuration menu and the resolution of the projected image are not the same. If the image is collapsed, set the **Resolution** to **Auto**. ☛ **Signal** - **Resolution** p.176
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)

Check	Remedy
Is **Make the movement of the mouse pointer smooth.** selected?	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson USB Display Vx.xx Settings**, and then select **Make the movement of the mouse pointer smooth.**(Windows 2000 does not support this function.) Windows Aero becomes unavailable if this is selected in Windows Vista/7.

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.176
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.143
Is the display position adjusted correctly?	(Only when projecting analog RGB signals input from the Computer port) Press the [Auto] button on the remote control or the [↵] button on the control panel to adjust the position. You can also adjust the position from the Configuration menu. ☛ **Signal** - **Position** p.176
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.245 ☛ Computer's documentation
Did you adjust the image position after performing Adjust Zoom or Keystone?	Perform Image Shift to adjust the image position after performing Adjust Zoom or Keystone. ☛ "Adjusting the Position of the Image (Image Shift)" p.62
Is the projection mode correct?	Depending on how the projector is installed, set the projection mode from one of the following: **Front**, **Front/Upside Down**, **Rear**, **Rear/Upside Down**. ☛ **Extended** - **Projection** p.179 ☛ "Installation Methods" p.30

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.176 • When the image is from a device connected to the Video port ☛ **Signal** - **Video Signal** p.176
Is the image Brightness adjusted correctly?	Adjust the **Brightness** setting from the Configuration menu. ☛ **Image** - **Brightness** p.175
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "Connecting Equipment" p.33
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.175
Is color adjustment set to an appropriate value?	Adjust the **Gamma**, **RGB**, or **RGBCMY** setting from the Configuration menu. ☛ **Image** - **Advanced** p.175 ☛ "Adjusting the Image" p.66
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.175

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.175 ☛ **ECO** - **Power Consumption** p.199
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.175
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images become darker and the color quality declines. Replace the lamp with a new one. ☛ "Replacing the Lamp" p.234

Check	Remedy
Are you using the projector at a high altitude or in a location subject to high temperatures?	The screen may become dark when using at high altitude or in a location subject to high temperatures. Although you cannot make **Power Consumption** settings at this time, you can continue to use the projector.

Problems when Projection Starts

The Projector Does Not Turn On

Check	Remedy
Did you press the [⏻] power button?	Press the [⏻] power button to turn the power on.
Are all of the indicators 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.53 Check the breaker and so on to ensure power is being supplied.
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.178
Is the remote receiver set correctly?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.178

Problems with the Interactive Features

Cannot Draw on the Projected Screen

Check	Remedy
Has pen calibration been performed correctly?	Make sure you perform pen calibration when using the interactive pen for the first time so that the projector recognizes the position of the pen correctly. Also, calibrate the pen again if you notice any discrepancy in positioning. ☛ "Calibrating Automatically" p.76
Is **Pen Mode** set to **PC Interactive**?	Set **Pen Mode** to **PC Free Annotation** from the Configuration menu. ☛ **Extended** - **Easy Interactive Function** - **Pen Mode** p.179

Cannot Operate a Computer from the Projected Screen After Connecting to the Computer

Check	Remedy
Is **Extended** set correctly?	Make the following settings: • Set **Pen Mode** to **PC Interactive** from the Configuration menu. • Set **Extended** - **USB Type B** to **Easy Interactive Function** or **USB Display/Easy Interactive Function** from the configuration menu. When using USB Display, set to **USB Display/Easy Interactive Function**. ☛ **Extended** - **USB Type B** p.179
Is the **Pen Operation Mode** set correctly?	For EB-1420Wi: When using the interactive pens as you would use a mouse, set the **Pen Operation Mode** to **Two Users/Mouse** or **One User/Mouse** from the Configuration menu. For EB-1430Wi: When using the interactive pens or your finger as you would use a mouse, set the **Pen Operation Mode** from the Configuration menu according to the operating system of the connected computer. ☛ **Extended** - **Easy Interactive Function** - **Pen Operation Mode** p.179
Is the USB cable connected correctly?	Check the USB cable connections. You may be able to resolve the problem by disconnecting and then reconnecting the USB cable.
If you are using a notebook computer when the battery power is running low, the USB port may stop working and you might not be able to use USB devices.	Connect the computer to a power source.

The Message "An error occurred in the Easy Interactive Function." is Displayed

Check	Remedy
An error has occurred in the interactive features.	Contact the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*

Computer's Mouse Does Not Work Correctly

Check	Remedy
Is the interactive pen placed on the projection screen?	Remove the interactive pen from the projection screen, or turn it off.

The Interactive Pen Does Not Work

Check	Remedy
There is an obstacle in the signal route between the interactive pen and the projector.	Remove the obstacle. Also, do not block the signal route when standing in front of the projection screen.
The signal is interfering with other things such as a light source that is emitting infrared rays.	Do not use an infrared remote control or infrared microphone in the same room because the interactive pen may malfunction. Switch off the interfering device such as a light source that is emitting infrared rays.
The battery is low.	Replace the battery.
The surrounding area is too bright.	Do not allow strong light to shine on the projected screen or the projector's Easy Interactive Function receiver.
Has pen calibration been performed correctly?	Make sure you perform pen calibration when using the interactive pen for the first time so that the projector recognizes the position of the pen correctly. Also, calibrate the pen again if you notice any discrepancy in positioning. ☛ "Calibrating Automatically" p.76
Are multiple projectors being used in the same room?	When using the interactive pen in the same room as multiple projectors, interference may cause pen operations to become unstable. Connect the optional remote control cable set (ELPKC28). If you do not have a remote control cable set, change the **Distance of Projectors** setting from the Configuration menu. ☛ "Connecting Multiple Projectors" p.46 ☛ **Extended** - **Easy Interactive Function** - **Distance of Projectors** p.179

The Response Time for the Interactive Pen is Slow (Only when Projecting USB Display)

Check	Remedy
Is Windows Aero enabled? (Windows Vista/7 only)	Interactive pen operations may be slow when Windows Aero is enabled. Disable Windows Aero on the computer being used. Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson USB Display Ver.x.xx Settings**, and then select the **Disable Windows Aero and improve the tracking of the interactive pen.** checkbox.

Cannot Perform Touch Operations Correctly (EB-1430Wi only)

Check	Remedy
Is the Touch Unit installed correctly?	The Touch Unit may not be installed correctly. For more details, see the supplied *Installation Guide*. ☛ *Installation Guide*
Is the Touch Unit turned on?	Check that the indicator on the Touch Unit lights up in blue. If the indicator on the Touch Unit is not on, check that **Touch Unit Setup** - **Power** is set to **On** from the Configuration menu. ☛ **Extended** - **Easy Interactive Function** - **Touch Unit Setup** - **Power** p.179 ☛ *Installation Guide*
Has angle adjustment been performed for the Touch Unit?	Perform angle adjustment for the Touch Unit from the Configuration menu. For more details, see the supplied *Installation Guide*. ☛ **Extended** - **Easy Interactive Function** - **Touch Unit Setup** - **Angle Adjustment** p.179 ☛ *Installation Guide*
Has the system been calibrated for touch operations?	If the position you touch and the position touched on the screen do not match, perform **Touch Calibration** from the Configuration menu. ☛ "Calibrating for Touch Operations with Your Finger" p.81
Are there any obstacles such as cables interfering with the surroundings of the Touch Unit or screen?	If there are any obstacles interfering with the Touch Unit's laser diffusion ports or the screen, the projector cannot recognize touch commands correctly. Remove any obstacles near the Touch Unit or the screen.

The Dot Moves Automatically or Does Not Move to the Next Position During Manual Calibration

Check	Remedy
Information from the projection screen is not correctly received due to other things, such as a light source that is emitting infrared rays.	Move the device, such as a light source that is emitting infrared rays, away from the projector, or move the projector away from the device.

Check	Remedy
Information from the projection screen may not be received correctly if the projector is too close to the screen.	Setup within the recommended projection distance. ☛ "Screen Size and Projection Distance" p.243
The interactive pen is disabled due to unstable conditions in the surrounding area, such as a light source that is emitting infrared rays.	Move the projector or turn off the interfering device, such as a light source that is emitting infrared rays.

Cannot Connect to the Whiteboard of a Shared Projector

Check	Remedy
Is the projector connected to the network?	To share a whiteboard, you need to connect the projector to the same network as the target projector. ☛ "Connecting a LAN Cable" p.44 ☛ "Installing the Wireless LAN Unit" p.45
Did you enter the correct PIN code?	If you enter the wrong PIN code 10 times in 10 minutes, you cannot connect to the whiteboard for three minutes. Try again after three minutes.

Cannot View the Shared Drawing Contents

Check	Remedy
Is the projector connected to the network?	To share a whiteboard, you need to connect this projector to the same network as the target projector. ☛ "Connecting a LAN Cable" p.44 ☛ "Installing the Wireless LAN Unit" p.45
Has the network connection to the shared whiteboard been disconnected?	Click [] on the bottom toolbar. If you are connected to the whiteboard correctly, the address for the connection and the **Stop sharing the whiteboard** button are displayed. If the **Start sharing with this whiteboard** button and the **Connect to the shared whiteboard** button are displayed, the whiteboard has been disconnected. Connect again. ☛ "Share Drawing Contents with Other Devices" p.96

Cannot Save the Screen for a Shared Whiteboard Screen in a Web Browser

Check	Remedy
Is the shared whiteboard allowed to save to the specified location?	The shared whiteboard screen can only be saved by a Web browser if **Distribute to the participants.** is set for the connected projector when saving whiteboard screens. ☛ "Saving Drawing Contents in Whiteboard Mode" p.93

Cannot Perform Operations while Capturing, Printing, or Saving

Check	Remedy
Did you change to operations using the remote control, or Control Pad while making operations using the interactive pen or vice-versa?	If you start operations using the interactive pen, make all operations using the interactive pen. If you start operations using the remote control or the Control Pad, make all operations using the remote control or the Control Pad.

Cannot Paste the Capture of the Projected Screen Correctly

Check	Remedy
Is the projected image protected?	Protected content cannot be captured.

Cannot Print Normally

Check	Remedy
Is the printer connected correctly?	For USB connections, check that the projector's USB-A port is connected to the Control Pad's USB-A port (for printers). For network connections, check the current setting on the Whiteboard settings screen. Next, perform **Test Print** to check that you can print normally.
Are two USB printers connected?	Only connect one USB printer.
Has an error occurred in the printer?	Operate the printer and release the error.

Cannot Scan Normally

Check	Remedy
Is the printer connected correctly?	If the printer is not connected correctly, the scanner function does not work. Also, stand-alone scanner are not supported.
Has an error occurred in the printer?	Operate the printer and release the error. If an error has occurred in the printer, the printer's scanner function does not work.
Is paper loaded in the ADF when scanning from the ADF?	When scanning from the ADF, make sure you load paper in advance.

The Time is Out of Sync, Settings for the Internal Storage are Not Reflected Correctly

Check	Remedy
Is the time set correctly?	The time needs to be set to correctly reflect clock and internal storage settings for Whiteboard Mode. ☛ "Setting Schedule" p.164

Cannot Change the Source

Check	Remedy
Are the functions Open, Scan, Save, or Print being performed?	Processing may take some time. You cannot change the source during processing. If you want to change the source during processing, cancel the operation that is being processed.

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 input port, and then reconnect the cable.

Check	Remedy
Is the projector volume set to the minimum?	Adjust the volume so that sound can be heard. ☛ **Settings** - **Volume** p.178 ☛ "Adjusting the Volume" p.66
Is the volume for the computer or from the image source set to the minimum?	Adjust the volume so that sound can be heard.
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.141
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**.
Is the correct audio input selected?	Check the **Audio Output**, **HDMI1 Audio Output**, and **HDMI2 Audio Output** settings from the Configuration menu. ☛ **Extended** - **A/V Settings** p.179

There is Noise in the Audio (Only when Projecting USB Display)

Check	Remedy
Is the volume for the computer set to minimum while the projector's volume is set to maximum?	The audio may contain noise if the volume for the computer is set to minimum while the projector's volume is set to maximum. Increase the volume for the computer, and decrease the volume for the projector. ☛ **Settings** - **Volume** p.178

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 during operation. ☛ "Remote Control Operating Range" p.21
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.21

Check	Remedy
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.178
Is the correct setting for the **Remote Receiver** selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.178
Are the batteries dead or have the batteries been inserted in the wrong direction?	Insert new batteries in the correct direction. ☛ "Replacing the Remote Control Batteries" p.20

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.179

The Authentication Setting of Wireless LAN Fails

Check	Remedy
Is the time set correctly?	If the wireless LAN is set correctly but the authentication setting fails, the time may not be set correctly. Check if it is set correctly. ☛ **Extended** - **Time/Schedule Settings** p.179

Mail is Not Received even if an Error Occurs with the Projector

Check	Remedy
Is **Standby Mode** set to **Communication On**?	To use the Mail Notification function when the projector is in standby, set **Communication On** in **Standby Mode** from the Configuration menu. ☛ **ECO** - **Standby Mode** p.199

Check	Remedy
Did a fatal abnormality occur and the projector come to a sudden stop?	When the projector comes to a sudden stop, email cannot be sent. 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 the Mail Notification function set correctly in the Configuration menu?	An error notification email is sent according to the **Mail Notification** settings in the Configuration menu. Check if it is set correctly. ☛ "Administrator Settings Menu" p.195

The Message "The battery that saves your clock settings is running low." is Displayed

Check	Remedy
The internal power supply that saves your clock settings is running low.	Contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*

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 password you set in Web Control Password. The default password is "admin". Enter the following when you connect to the Administrator Settings menu and the Administrator Password is set. • User ID: EPSONADMIN • Password: The set Administrator Password

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

☛ *Epson Projector Contact List*

Event ID	Cause	Remedy
0432 0435	Failed to startup EasyMP Network Projection.	Restart the projector.
0434 0482 0484 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.
0481	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 Menu " p.192
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. ☛ "Network Menu" p.187
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*
089A	The EAP authentication type is not the same.	Check that the wireless LAN security settings are correct. Also, check if the certificate is installed correctly.

Event ID	Cause	Remedy
089B	EAP server authentication failed.	☛ "Security Menu " p.192
089C	EAP client authentication failed.	
089D	Key exchange failed.	
0B01	The built-in storage could not be detected correctly.	Perform **Delete All Internal Data**. When the internal storage is deleted correctly, plugin the power cord for the projector and turn it on. If it is not deleted correctly, contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
0BFF	An error has occurred in the Whiteboard function.	Restart the projector.

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

Before cleaning, turn off the projector's power and unplug the power cable. 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 Projection Window

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

Warning

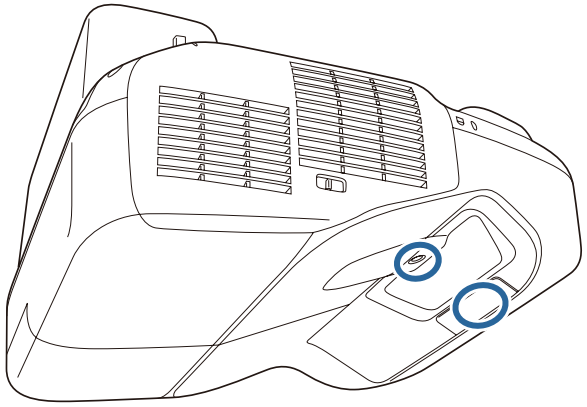
Do not use sprays that contain flammable gas to remove dirt and dust from the lens. The projector may catch fire because of the high temperature of the lamp inside the projector.

Attention

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

Cleaning the Obstacle Sensor

Clean the obstacle sensor when the message "For safety purposes remove any obstacles blocking the lens." is displayed along with a warning sound. Use a commercially available cloth for cleaning glasses to gently wipe the obstacle sensor.



Warning

Do not use sprays that contain flammable gas to remove dirt and dust from the obstacle sensor. The projector may catch fire because of the high temperature of the lamp inside the projector.

Attention

Do not rub the obstacle sensor with harsh materials or subject the sensor to shocks.

Damage on the surface of the sensor may cause malfunctions.

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."

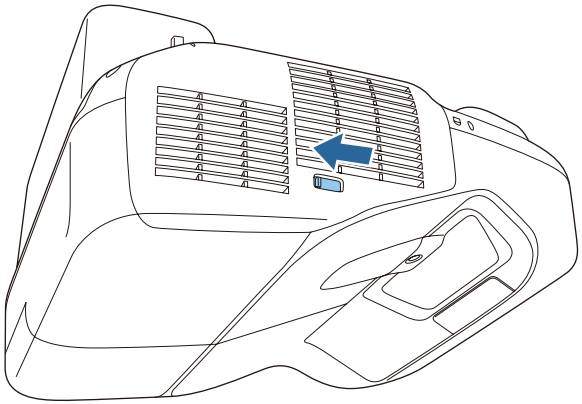
Attention

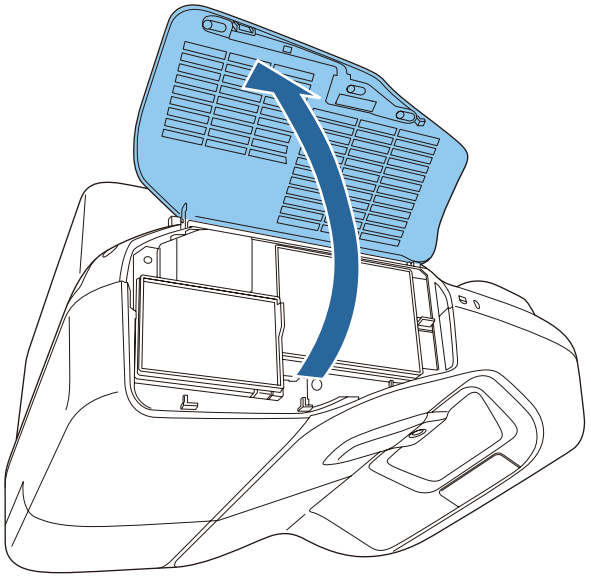
- Dust collecting on the air filter may cause the internal temperature of the projector to rise, leading to a malfunction or early deterioration of optical parts. Clean the air filter immediately when the message is displayed.
- Do not rinse the air filter in water. Do not use detergents or solvents.
- When using a brush for cleaning, use one with long soft bristles, and brush it lightly. If it is brushed too strongly, dust will be ground into the air filter and cannot be removed.

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

2 Open the air filter cover.

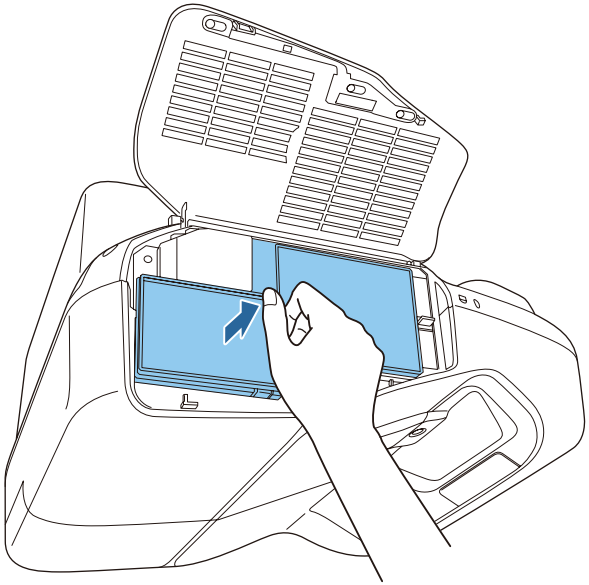
Press the tabs on the air filter cover and open the cover.



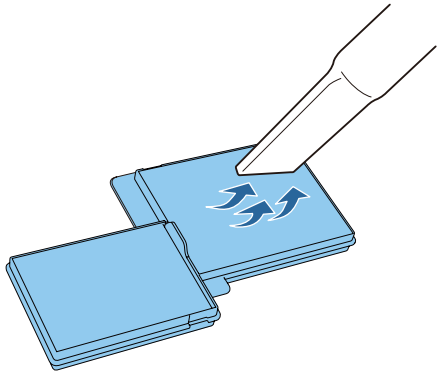


3 Remove the air filter.

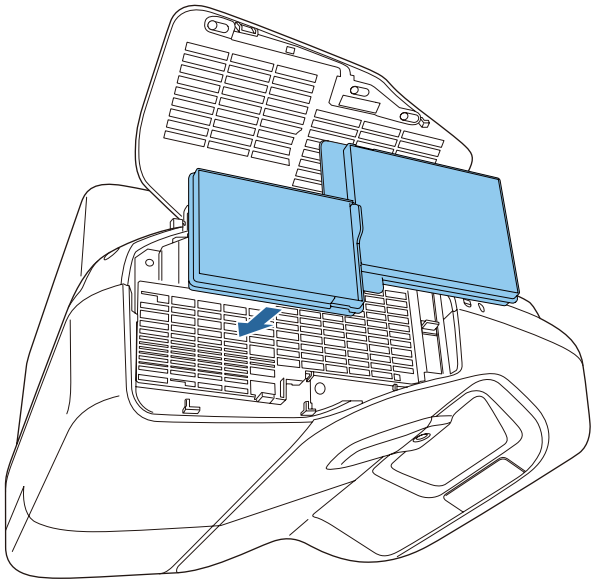
Grip the tab in the center of the air filter, and pull the air filter straight out.



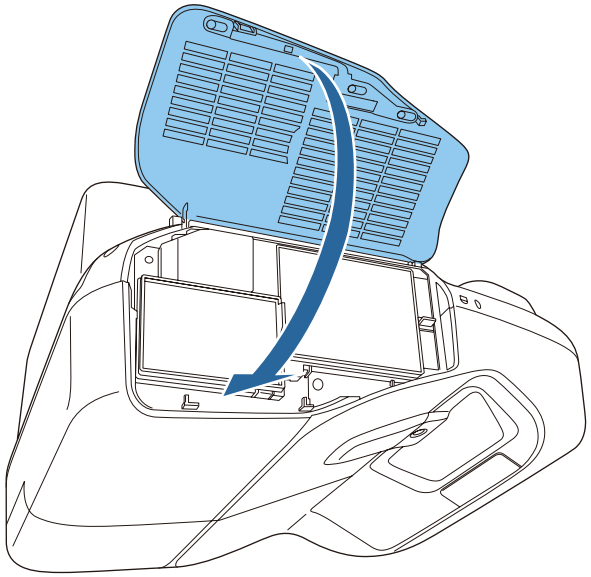
4 Remove any dust remaining on the air filter by using a vacuum cleaner from the front.

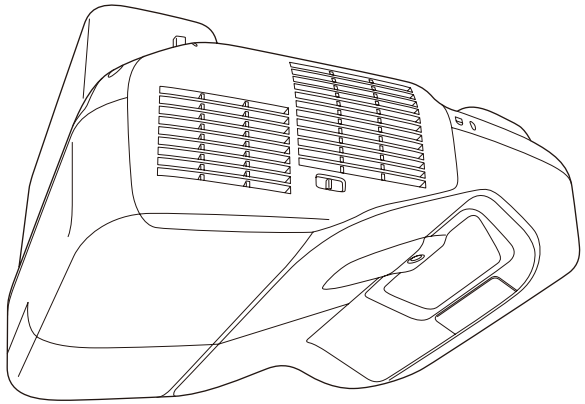


5 Replace the air filter.



6 Close the air filter cover.





- 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.238
- It is recommended that you clean these parts at least once every three months. Clean them more often than this if using the projector in a particularly dusty environment.

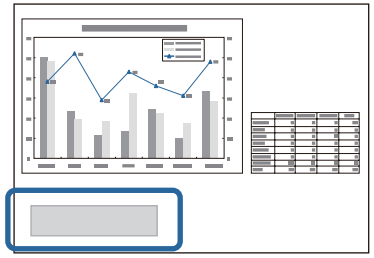
This section explains how to replace the lamp and the air filter.

Replacing the Lamp

Lamp Replacement Period

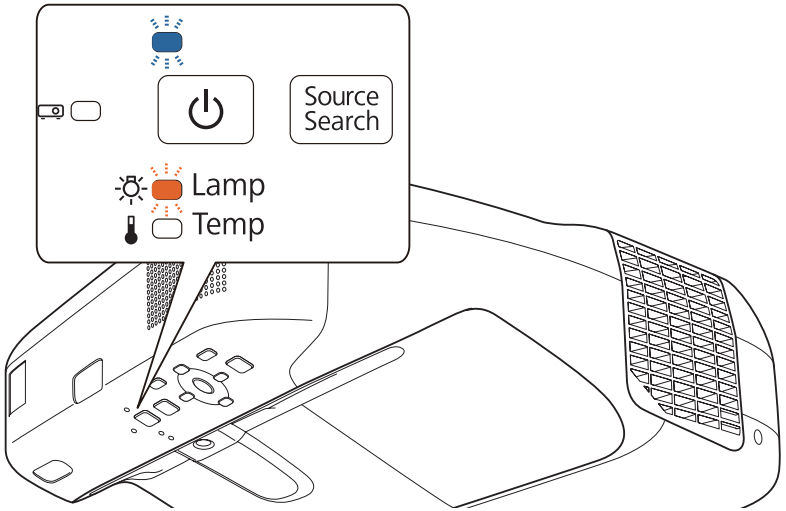
It is time to replace the lamp when:

- The following message is displayed.
  "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 power indicator is flashing blue, and the lamp indicator is flashing orange.



- The projected image gets darker or starts to deteriorate.

Attention

- The lamp replacement message is set to appear after the following time periods in order to maintain the initial brightness and quality of the projected images.
  When **Power Consumption** is set to **Normal**: About 3900 (TBD) hours
  When **Power Consumption** is set to **ECO**: About 5900 (TBD) hours
  ☛ **ECO** - **Power Consumption** p.199
- If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may blow increases. When the lamp replacement message is displayed, 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 individual characteristics of the lamp and the way it has been used, the lamp may become darker or stop working before the message is displayed. You should always have a spare lamp unit ready in case it is needed.
- We recommend the use of genuine Epson option lamps. The use of non-genuine lamps may affect projection quality and safety. Any damage or malfunction caused by the use of non-genuine lamps may not be covered by Epson's warranty.

We recommend that you clean the air filter whenever you replace the lamp.

☛ "Cleaning the Air Filter" p.231

How to Replace the Lamp

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

Warning

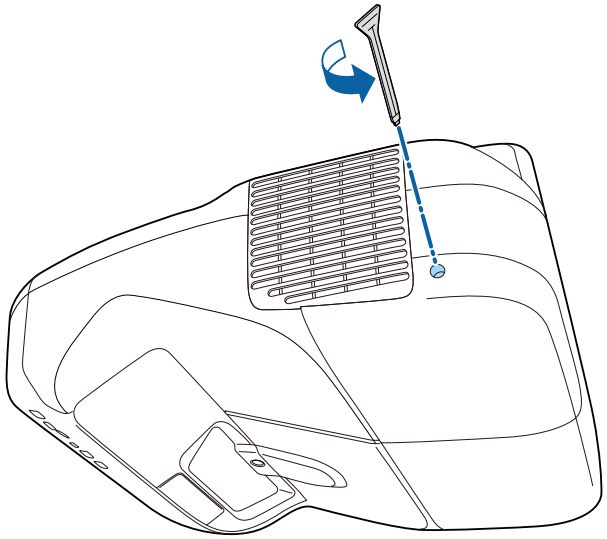
- When replacing the lamp because it has stopped working, there is a possibility that the lamp may be cracked. When replacing the lamp of a projector that has been installed on a wall or ceiling, assume that the lamp is cracked and stand to the side of the lamp cover, not underneath it. Also, remove 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 modify a lamp. If a modified or disassembled lamp is installed in the projector and used, it could cause a fire, electric shock, or an accident.

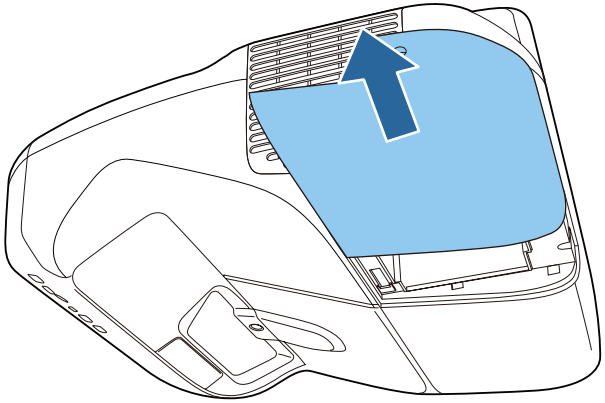
Caution

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 approximately one hour after the power has been turned off for the lamp to sufficiently cool down.

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.

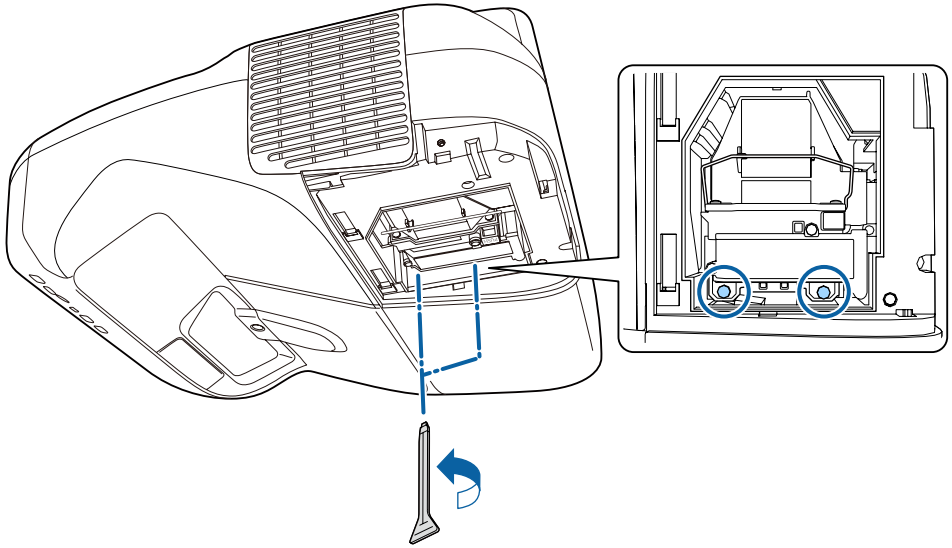
   Loosen the lamp cover fixing screw with the screwdriver supplied with the new lamp unit or a cross-head screwdriver. Then slide the lamp cover straight forward and lift to remove it.





When the projector is mounted on a wall or suspended from a ceiling and you need to replace the lamp, remove the lamp cover carefully and support it with your hand to prevent it from falling.

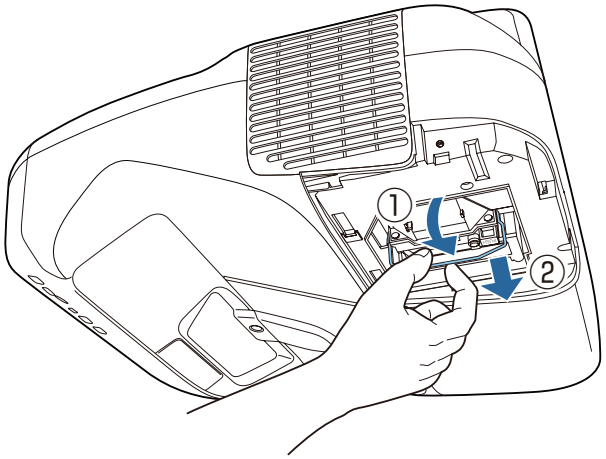
3 Loosen the two lamp fixing screws.



4 Remove the old lamp by pulling the handle.

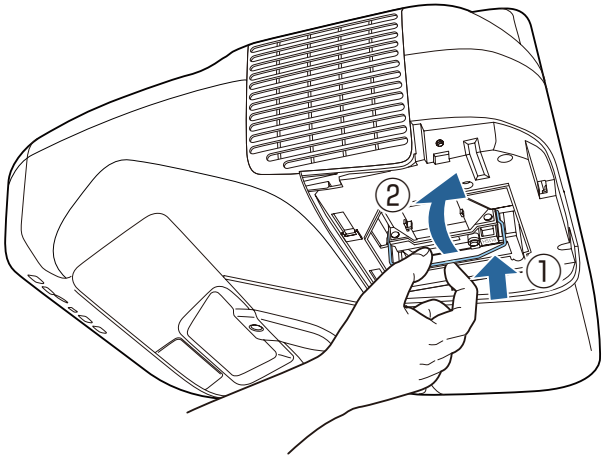
If the lamp is cracked, replace it with a new lamp, or contact your local dealer for further advice.

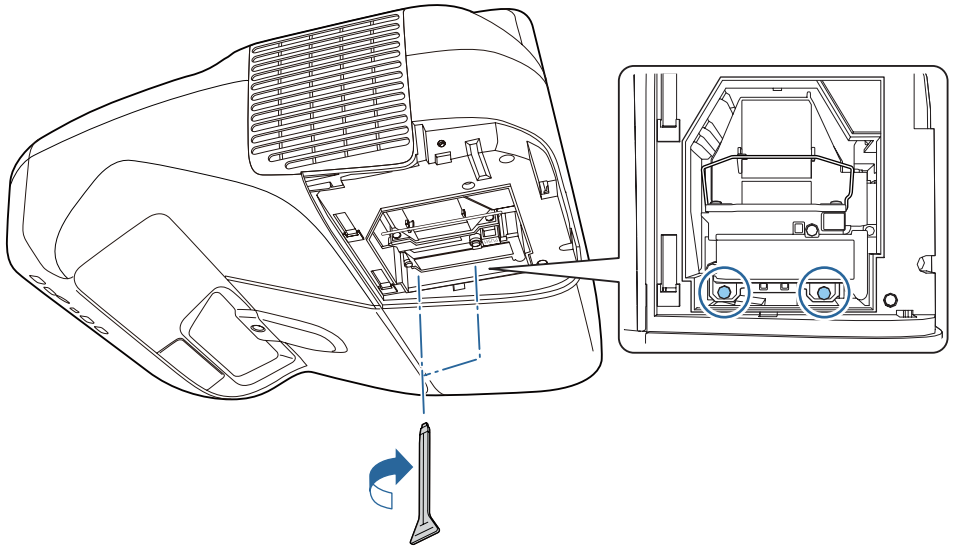
☛ *Epson Projector Contact List*

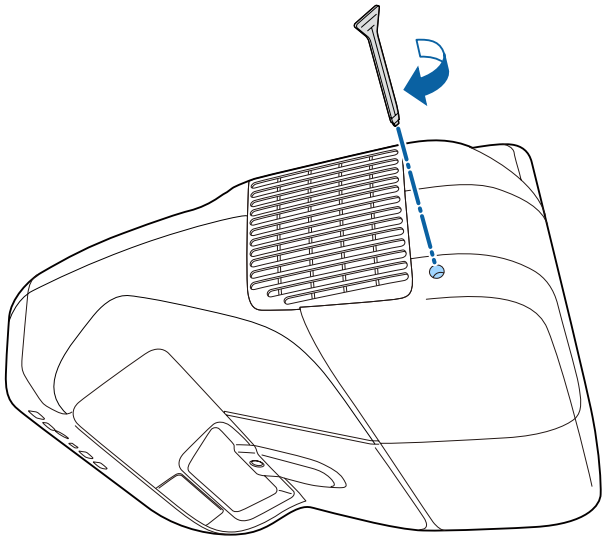


5 Install the new lamp.

Insert the new lamp along the guide rail in the correct direction so that it fits in place, push in firmly, and then press the handle down. Tighten the two lamp fixing screws.







6 Attach the lamp cover.

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 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.201

Only reset the lamp hours after the lamp has been replaced. Otherwise, the lamp replacement period will not be 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.

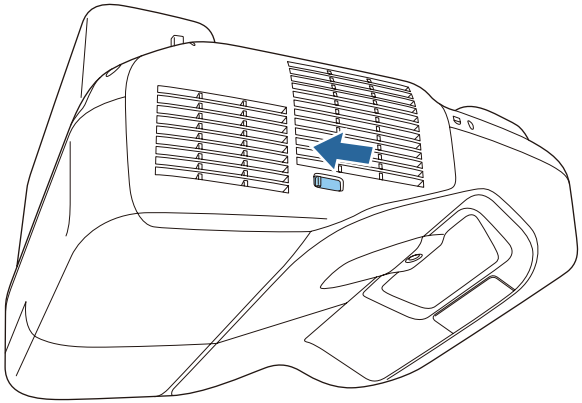
How to Replace the Air Filter

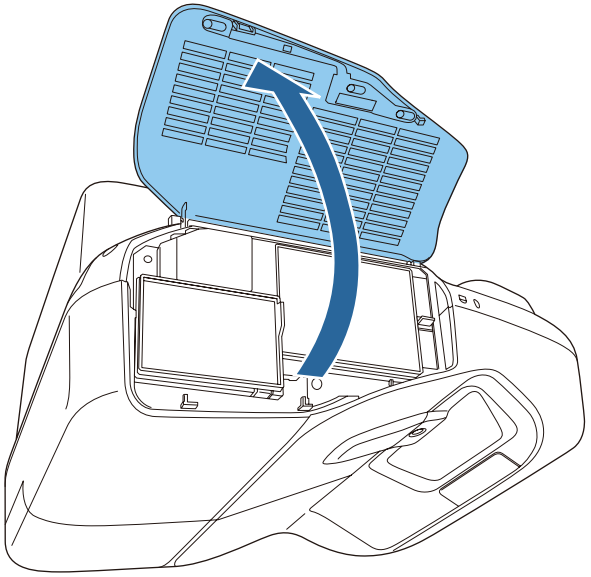
The air filter can be replaced even when the projector is suspended from a wall or ceiling.

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

2 Open the air filter cover.

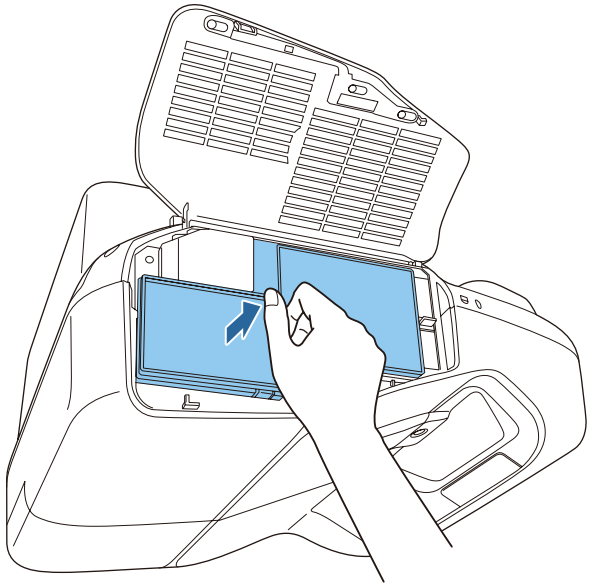
Press the tabs on the air filter cover and open the cover.



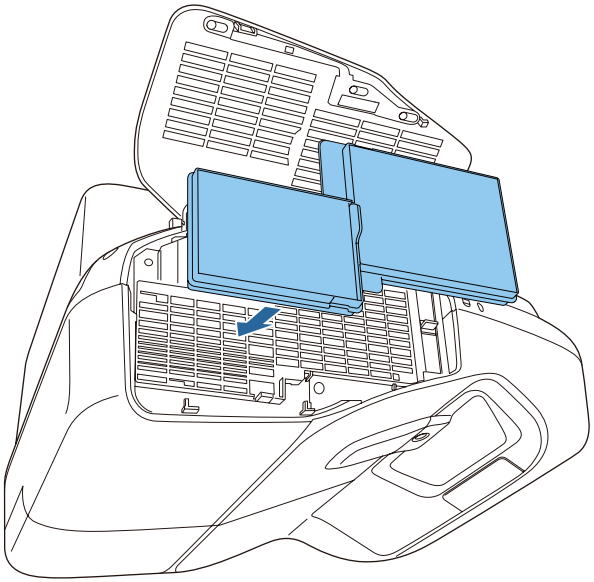


3 Remove the air filter.

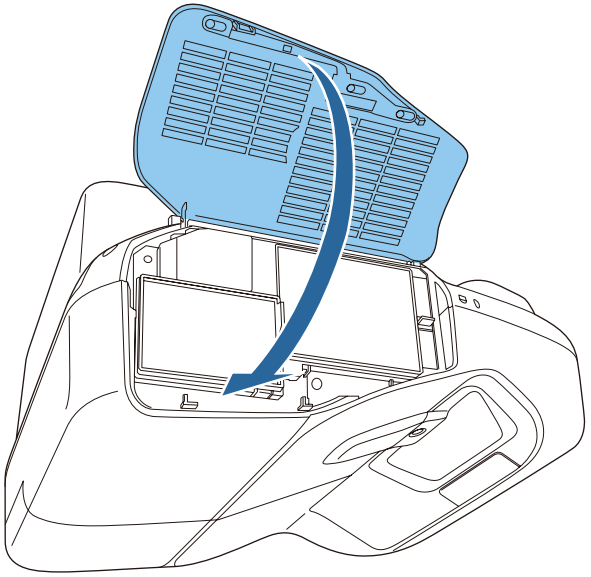
Grip the tab in the center of the air filter, and pull the air filter straight out.

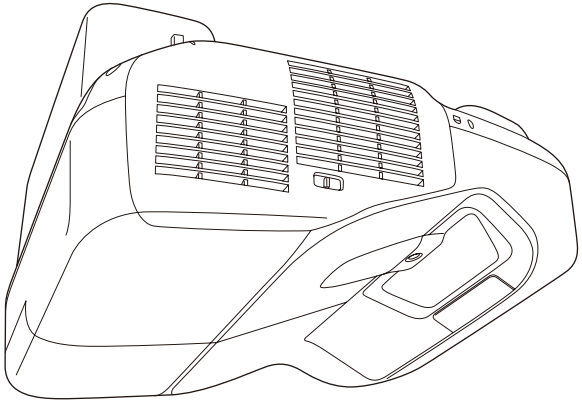


4 Install the new air filter.



5 Close the air filter cover.





Dispose of used air filters properly in accordance with your local regulations.
Material of the frame part: Polypropylene
Material of the filter part: Polypropylene

Appendix

The following optional accessories and consumables are available. Please purchase these products as and when needed. The following list of optional accessories and consumables is current as of: 2014.04. Details of accessories are subject to change without notice.

Optional Accessories

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

Computer cable ELPKC02
(1.8 m - for mini D-Sub15-pin/mini D-Sub 15pin)
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)

D port cable ELPKC22
(Mini D-Sub 15-pin/3 m for D port)
Use when connecting to the D port on an image source.

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

Quick Wireless Connection USB Key ELPAP09
Use when you want to quickly establish one-to-one connection between the projector and a computer with Windows installed.

Wireless LAN unit ELPAP07
Use when connecting to a wireless LAN network. This is the same product as the wireless LAN unit supplied with the projector.

Interactive Table Mount ELPMB29
Use when installing the projector on a table.

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

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

Easy Interactive Pen ELPPN04A/ELPPN04B
Pens for the interactive features. You cannot use interactive pens with the same model number at the same time.

Interactive Pen Extension ELPPE01
Attach to the interactive pen to extend the pen and use it as a pointer.

Replacement Pen Tips ELPPS02
Replacement pen tips for the interactive pen.

Remote control cable set ELPKC28
Use in the following situations.
- When connecting the projector to the Control Pad
- When connecting multiple projectors that support the interactive feature

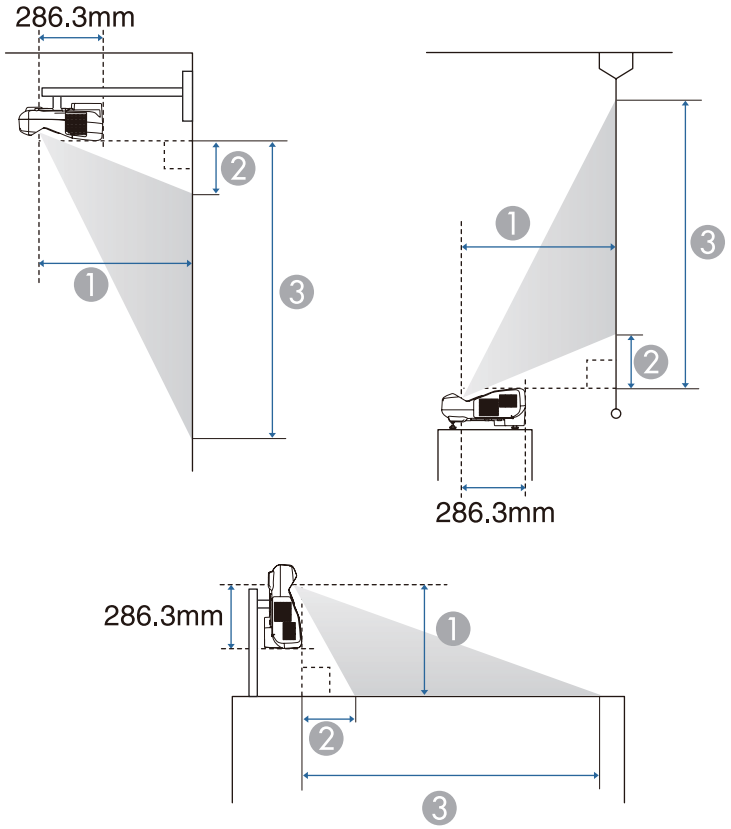
* Special expertise is required to suspend the projector. Contact your local dealer or the nearest address provided in the Epson Projector Contact List.

☛ *Epson Projector Contact List*

Consumables

Lamp unit ELPLP80
Use as a replacement for a used lamp.

Air Filter ELPAF40
Use as a replacement for a used air filter.



1 Projection distance

2 The distance between the projector and the top of the screen (when mounting on a wall or ceiling, or installing vertically)
The distance between the projector and the bottom of the screen (when placing on a surface such as a desk)

3 The distance between the projector and the bottom of the screen (when mounting on a wall or ceiling, or installing vertically)
The distance between the projector and the top of the screen (when placing on a surface such as a desk)

Unit: cm

16:10 Screen Size		1 Minimum (Wide) to Maximum (Tele)	2 Minimum (Wide)	3 Minimum (Wide)
60"	129x81	35 - 48	9	90
70"	151x94	41 - 56	12	106
80"	172x108	47 - 60	14	122
90"	194x121	53 - 60	17	138
100"	215x135	60*	20	154

* Project using Wide (maximum zoom).

Unit: cm

4:3 Screen Size		1 Minimum (Wide) to Maximum (Tele)	2 Minimum (Wide)	3 Minimum (Wide)
53"	108x81	35 - 48	9	90
60"	122x91	40 - 55	11	103
70"	142x107	47 - 60	14	121
80"	163x122	54 - 60	17	139
88"	179x134	59 - 60	20	154

Unit: cm

16:9 Screen Size		1 Minimum (Wide) to Maximum (Tele)	2 Minimum (Wide)	3 Minimum (Wide)
59"	131x74	35 - 48	13	87
60"	133x75	36 - 49	14	88
70"	155x87	42 - 58	17	104
80"	177x100	49 - 60	21	120

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Minimum (Wide)	❸ Minimum (Wide)
90"	199x112	55 - 60	24	136
97"	215x121	60*	26	147

* Project using Wide (maximum zoom).

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	1280x960
	60/75/85	1280x1024
SXGA+	60/75	1400x1050
WSXGA+*1	60	1680x1050
UXGA	60	1600x1200
MAC13”	67	640x480
MAC16”	75	832x624
MAC19”	75	1024x768
	59	1024x768
MAC21”	75	1152x870

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

Images may also be projected when signals other than the above are input. However, some functions may be limited.

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

Composite Video

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

Input Signals from the HDMI Port

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60	640x480
SVGA	60	800x600
XGA	60	1024x768
WXGA	60	1280x800
	60	1366x768
WXGA+	60	1440x900
WXGA++	60	1600x900
WSXGA+	60	1680x1050

Signal	Refresh Rate (Hz)	Resolution (dots)
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

Input Signals from the MHL Port

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60	640x480
SDTV (480i/480p)	60	720x480
SDTV (576i/576p)	50	720x576
HDTV (720p)	50/60	1280x720
HDTV (1080i)	50/60	1920x1080
HDTV (1080p)	24/30	1920x1080

Projector General Specifications

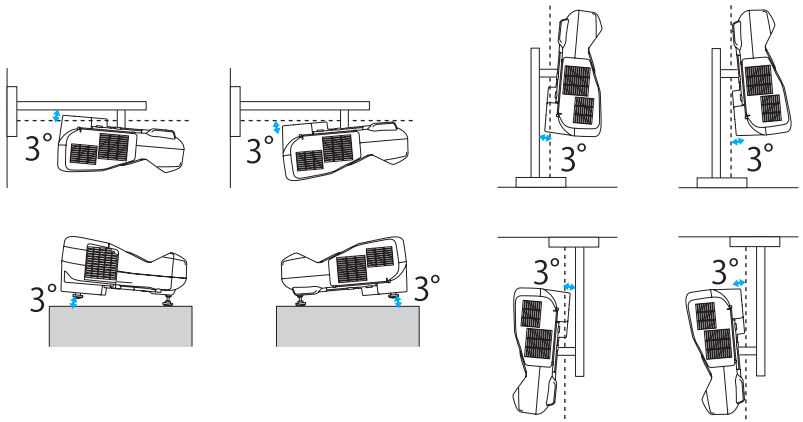
Product name		EB-1430Wi	EB-1420Wi
Dimensions		367 (W) x 155 (H) x 375 (D) mm (not including raised section)	
LCD panel size		0.59" Wide	
Display method		Polysilicon TFT active matrix	
Resolution		1,024,000 WXGA (1280 (W) x 800 (H) dots)x 3	
Focus adjustment		Manual	
Zoom adjustment		Digital (1-1.35)	
Lamp		UHE lamp, 245 W Model No.: ELPLP80	
Max. audio output		16 W	
Speaker		1	
Power supply		100-240 V AC ±10% 50/60 Hz 3.8-1.7 A	
Power consumption	100 to 120 V area	Operating: 384 W Standby power consumption (Communication On): 2.4 W Standby power consumption (Communication Off): 0.31 W	
	220 to 240 V area	Operating: 365 W Standby power consumption (Communication On): 2.5 W Standby power consumption (Communication Off): 0.42 W	
Operating altitude		Altitude 0 to 3000 m	
Operating temperature		+5 to +35°C (No condensation) (Altitude 0 to 2286 m) +5 to +30°C (No condensation) (Altitude 2287 to 3000 m)	
Storage temperature		-10 to +60°C (No condensation)	
Mass		Approx. 5.6 kg	

Connectors	Computer port	1	Mini D-Sub15-pin (female)
	Video port	1	RCA pin jack
	Audio1 port	1	Stereo mini pin jack
	Audio2 port	1	Stereo mini pin jack
	Audio3 port	1	Stereo mini pin jack
	Audio Out port	1	Stereo mini pin jack
	Remote port	1	Stereo mini pin jack
	Monitor Out port	1	Mini D-Sub15-pin (female)
	HDMI1/MHL input port	1	HDMI (Audio is only supported by PCM)
	HDMI2 port	1	HDMI (Audio is only supported by PCM)
	USB-A port*	2	USB connector (Type A)
	USB-B port*	1	USB connector (Type B)
	USB port (for Wireless LAN unit)	1	USB connector (Type A)
	LAN port	1	RJ-45
	RS-232C port	1	Mini D-Sub 9-pin (male)
	SYNC port	2	Stereo mini pin jack
	TCH port (EB-1430Wi only)	1	Mini DIN 8-pin

* Supports USB 2.0. However, the operation of all USB compatible devices is not guaranteed.

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 3˚, it could be damaged and cause an accident.

DECLARATION of CONFORMITY
According to 47CFR, Part 2 and 15
Class B Personal Computers and Peripherals; and/or
CPU Boards and Power Supplies used with Class B Personal Computers

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

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:	H612/H665

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.

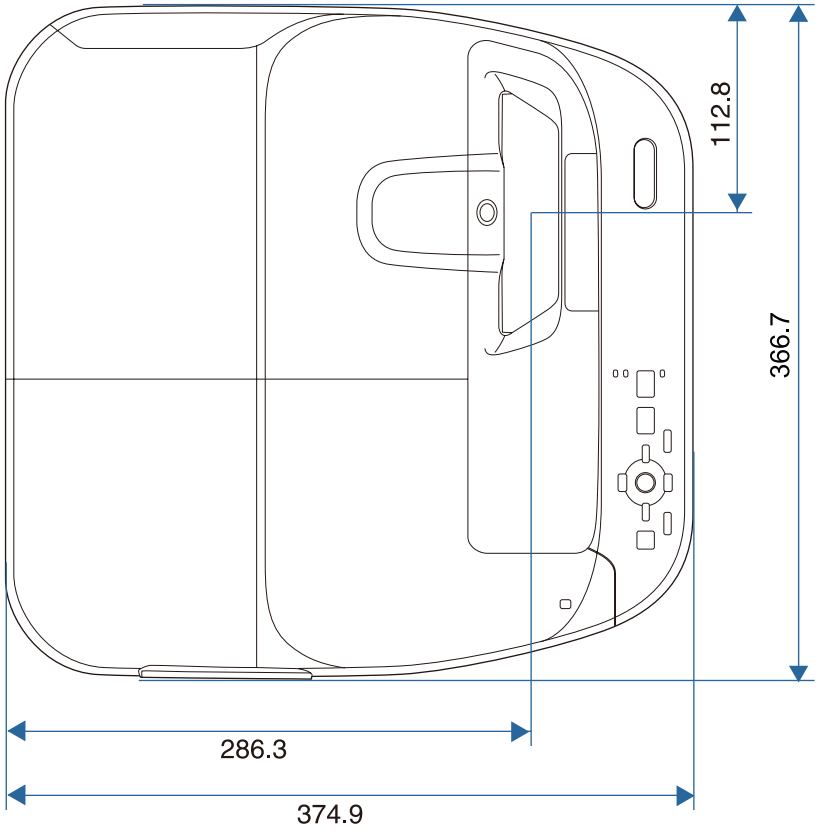
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

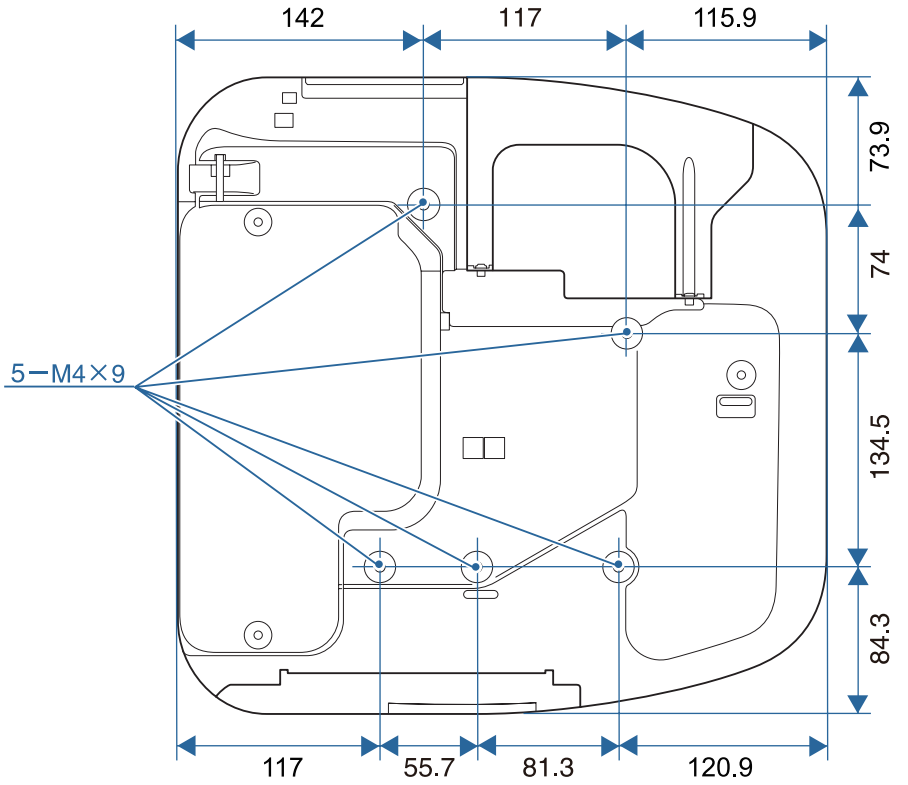
WARNING

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.

FCC Statement for Verification

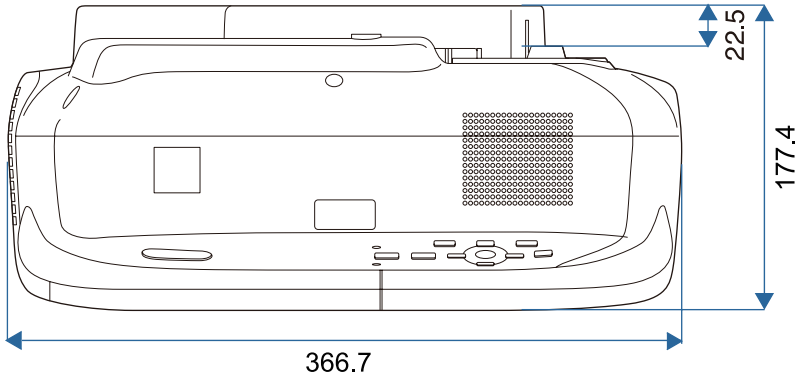
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.


112.8
366.7
286.3
374.9

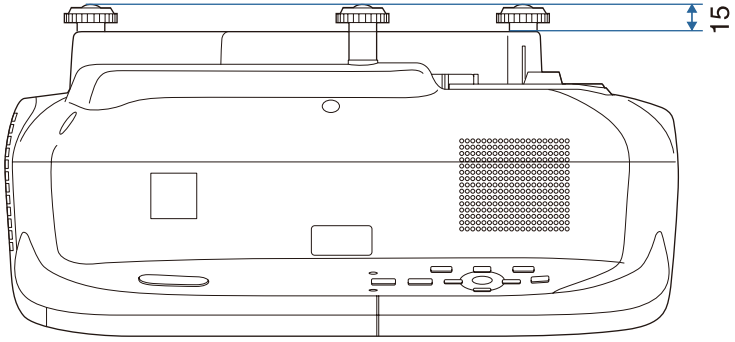

142
117
115.9
73.9
74
134.5
84.3
5−M4×9
117
55.7
81.3
120.9

Units: mm

Without feet



With feet



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.
MHL	An abbreviation for Mobile High-definition Link, a standard for connection interfaces aimed at mobile devices such as smartphones and tablets. Images can be transferred at high quality and at high speeds without compressing the digital signal, and also charges connected devices.
Progressive	Projects information to create one screen at a time, displaying the image for one frame. Even though the number of scan lines is the same, the amount of flicker in images decreases because the volume of information has doubled compared with an interlace system.

Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time. Because of this, the image must be scanned many times per second to refresh the light-emitting element. The number of refresh operations per second is called the Refresh rate and is expressed in hertz (Hz).
SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.
SNMP	An abbreviation for Simple Network Management Protocol, which is the protocol for monitoring and controlling devices such as routers and computers connected to a TCP/IP network.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set both the projector and the connected signal source to sRGB.
SSID	SSID is identification data for connecting to another device on a wireless LAN. Wireless communication is possible between devices with the same SSID.
Subnet Mask	This is a numerical value that defines the number of bits used for the network address on a divided network (subnet) from the IP address.
SVGA	A screen size standard with a resolution of 800 (horizontal) x 600 (vertical) dots.
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.
WPS (Wi-Fi Protected Setup)	Wi-Fi Protected Setup has been devised by the Wi-Fi Alliance as a means of easily setting up and securing a wireless LAN.
XGA	A screen size standard with a resolution of 1,024 (horizontal) x 768 (vertical) dots.

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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.

Wireless Telegraphy Act Regulations

The following acts are prohibited by the Wireless Telegraphy Act.

- Modifying and disassembling (including the antenna)
- Removing the label of conformance

About Notations

Microsoft® Windows® 2000 operating system
Microsoft® Windows® XP operating system
Microsoft® Windows Vista® operating system
Microsoft® Windows® 7 operating system
Microsoft® Windows® 8 operating system
Microsoft® Windows® 8.1 operating system

In this guide, the operating systems above are referred to as "Windows 2000", "Windows XP", "Windows Vista", "Windows 7", "Windows 8", and "Windows 8.1". Furthermore, the collective term Windows may be used to refer to Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8, and Windows 8.1, and multiple versions of Windows may be referred to as, for example, Windows 2000/XP/Vista/7/8/8.1, 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
OS X 10.7.x
OS X 10.8.x
OS X 10.9.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", "OS X 10.7.x", "OS X 10.8.x", and "OS X 10.9.x". Furthermore, the collective term "OS X" is used to refer to them all.

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