EPSON®
EXCEED YOUR VISION

User's Guide

Multimedia Projector

EB-L1505U
EB-L1500U
EB-L1405U
EB-L1300U
EB-L1200U
EB-L1100U

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 "Appendix". ☛ "Glossary" p.246
[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**

Make sure you read the following before you use the projector.
☛ *Safety Instructions*

Warning and Cautions on Installation

An optional ceiling mount is required when suspending the projector from a ceiling.
☛ "Optional Accessories" p.211

Warning

- Do not use or install the projector where it may be subject to water or rain, or high humidity, such as outdoors, in a bathroom, or shower room, and so on. Otherwise, it could cause a fire or electric shock.
- A special method of installation is required when suspending the projector from a ceiling (ceiling mount). If installation work is not carried out correctly, the projector could fall down. This may result in injury or accidents. Contact your local dealer or the nearest address provided in the Epson Projector Contact List.
  ☛ *Epson Projector Contact List*
- If you use adhesives on the ceiling mount fixing points to prevent the screws from loosening, or if you use things such as lubricants or oils on the projector, the projector case may crack causing it to fall from its ceiling mount. This could cause an accident or injury to anyone under the ceiling mount.
  When installing or adjusting the ceiling mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants and so on.
- Do not cover the projector's air intake vent or air exhaust vent. If either of the vents are covered, the internal temperature could rise and cause a fire.
- 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.
- Do not tie the power cord and other connection cables together. Otherwise, it could cause a fire.
- Only use the specified power-supply voltage. Otherwise, it could cause a fire or electric shock.

Warning

- Be careful when handling the power cord. Otherwise, it could cause a fire or electric shock. Note the following when handling the power cord.
  - Do not plug multiple power cords in a single electric outlet.
  - Do not plug in the power cord if there are any foreign substances, such as dust, stuck to it.
  - Make sure you insert the power cord all the way in.
  - Do not plug in or unplug the power cord with wet hands.
  - Do not pull the cord when unplugging the power cord. Make sure you hold it by the plug.

- Do not use a damaged power cord. Otherwise, it could cause a fire or electric shock. Note the following when handling the power cord.
  - Do not alter the power cord.
  - Do not place any heavy objects on the power cord.
  - Do not bend, twist, or pull the power cord forcibly.
  - Do not layout the power cord near a heating device.

Caution

Do not place the projector on an unstable surface, such as on an unstable table or tilted surface. When projecting vertically, install the projector appropriately to prevent the projector from falling.
Otherwise it may cause an injury.

Attention

- Do not install the projector in a location that is subject to vibration or shock.
- Do not install the projector near a high-voltage line or object that generates magnetism. Otherwise the projector may not work correctly.
- Do not use or store the projector in a location that is subject to extreme temperatures. Also, avoid sudden temperature changes.

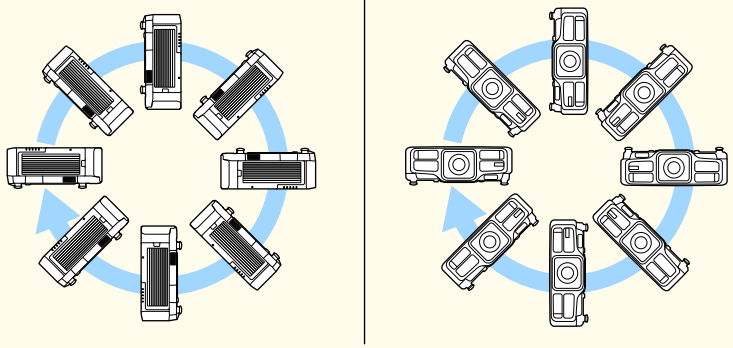
  Make sure you use or store the projector in a place that is within the following operating or storage temperature ranges.
  - Operating temperature range

    0 to +45˚C (Altitude of 0 to 1,500 m, no condensation)

    0 to +40˚C (Altitude of 1,501 to 3,048 m, no condensation)
  - Storage temperature range: -10 to +60˚C (No condensation)

- When using at an altitude that exceeds 1,500 m, set **High Altitude Mode** to **On**.

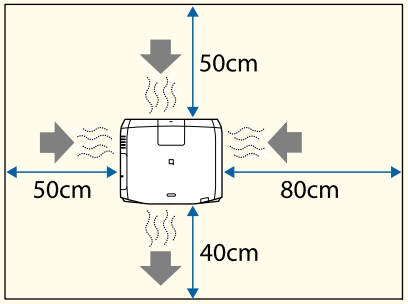
  ☛ **Extended** - **Operation** - **High Altitude Mode** p.133
- The projector can be installed at any angle. There is no vertical or horizontal limit to how the projector can be installed.



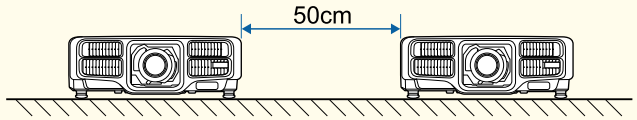
- You may need dedicated installation mounts to tilt and install the projector. Contact a professional and prepare the mount.
- Plan so that the mount does not fall.

Attention

- Make sure you secure the following space around the projector so as not to block the air exhaust vent and the air intake vent.



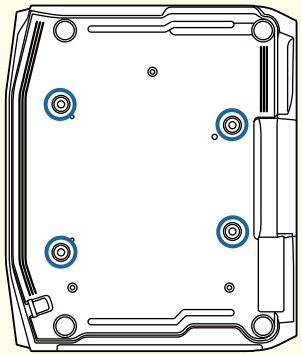
- When setting up multiple projectors, make sure there is a gap of at least 50 cm between the projectors. Also, make sure that the heat from the air exhaust vent does not go into the air intake vent.



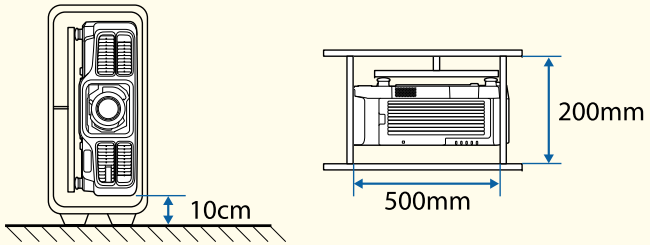
- Do not use two projectors at the same time when stacking two projectors directly on top of each other. Install the projector so that there is no danger that it will fall.

Attention

- Use commercially available M6 screws (up to a depth of 12 mm) to fix the projector's ceiling mount fixing points and the mount at four points.



- When installing the projector with the air intake vent facing down, make sure there is a gap of at least 10 cm between the projector and the floor and so on. Make sure there is a gap of 500 x 200 mm for the base so that the air intake vent is not blocked.



- We recommend setting the focus, zoom, and lens shift at least 20 minutes after you start the projection, because images are not stable right after turning on the projector.

- When adjusting the image height with the vertical lens shift, adjust by moving the image from the bottom to the top. If it is adjusted from the top to the bottom, the image position may move down slightly after adjusting.

Warning and Cautions on Usage

Warning

- Do not cover the projector's air intake vent or air exhaust vent. If either of the vents is covered, the internal temperature could rise and cause a fire.
- Do not look into the lens while projecting. The powerful light emitted could cause damage to eyesight. Take particular care when there are children present. When turning on the projector at a distance using the remote control, make sure there is no one looking into the lens.
- During projection, do not block the light from the projector with the lens cover (removable) or a book and so on.

  If the light from the projector is blocked, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction. To stop projection, use the A/V Mute function, or turn off the projector.
- Do not open the projector's case. Never disassemble or remodel the projector. There are high-voltage components inside the projector that could cause fire, electric shock, or an accident.
- If an error occurs, disconnect the power cord from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. If you continue using the projector as it is, it could cause an electric shock, fire, or even damage to eyesight.

  ☛ *Epson Projector Contact List*

Caution

Do not place objects that may become warped or otherwise affected by heat near the air exhaust vent and do not put your face or hands near the vent while projection is in progress.

Attention

- Only remove the lens unit when necessary. If dust or dirt enter the projector, projection quality deteriorates and it could cause a malfunction.
- Try not to touch the lens section with your hand or fingers. If fingerprints or oils are left on the surface of the lens, projection quality deteriorates.
- Store the projector with the lens unit installed.
  If the projector is stored without the lens unit, dust and dirt may get inside the projector and cause malfunctions or lower the quality of projection.
- When storing, make sure you remove the batteries from the remote control. If the batteries are left in the remote control for an extended period of time, they may leak.

- About the LCD panel
  - The LCD panel may contain pixels that are missing or appear bright all the time. This is not a sign of an error.
  - When a high-powered laser beams through the surface of the projection lens even when it is not being used, it can cause a malfunction in the LCD panel. Attach the lens cover when storing the projector.

- About the light source

  The projector uses a laser as the light source. The laser has the following characteristics.
  - Depending on the surroundings, the brightness of the light source may decline. The brightness declines a lot when the temperature gets too high.
  - The brightness of the light source declines the longer it is used. You can change the relationship between usage time and decline in brightness in **Brightness Settings**.

    ☛ "Relationship between Brightness Level and usage time" p.76

- About light source calibration
  - Whenever the usage time reaches 100 hours, calibration starts automatically for the light source when the projector is turned off. However, this does not start automatically when the projector is used continuously for more than 24 hours, or when direct shutdown is used regularly. Set **Light Source Calibration** in the scheduling function.

    ☛ "Scheduling Function" p.113
  - When performing light source calibration, the difference between the white balance and the brightness level for the light source is corrected.

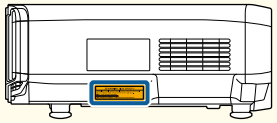
Warning and Cautions on the Laser

Warning

- Laser warning labels are attached inside the projector and on the side of the projector.

  Inside

  Side



- Do not open the projector's case. The projector contains a high-powered laser.
- Possibly hazardous optical radiation emitted from this product. Do not look at operating light source. Eye injury may result.

Caution

- This projector is a Class 1 laser product that complies with the IEC60825-1 international standard for lasers.
- Do not disassemble the projector when disposing of it. Dispose according to your local or national laws and regulations.

Notes on Transporting

There are many glass parts and precision components inside the projector. To prevent damage due to impacts when transporting, handle the projector as follows.

Caution

The projector should not be carried by one person. At least two people are needed to unpack or carry the projector.

Attention

- Moving Nearby
  - Turn off the power to the projector and disconnect all cables.
  - Attach the cover to the lens.

- When Transporting
  After checking the points in "Moving Nearby", prepare the following and then pack up the projector.
  - Remove the lens unit if an option lens is installed.
  - If the projector does not have a lens, attach the cover that was on the lens mount when you purchased the projector.
  - Attach the lens if the projector has a built-in lens. Upon purchase, attach the protective pad that is attached around the lens unit.
  - Move the lens position to the home position.
    ☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33
  - Enclose the projector securely in packaging material to protect it from shock, and place it into a strong cardboard container. Be sure to notify the carrier company that it is precision equipment.

Notations Used in This Guide 2

Introduction

Part Names and Functions 15
- Front/Top 15
- Rear 16
- Interface 17
- Base 18
- Control Panel 19
- Remote Control 20
  - Handy remote control operations 23
  - Replacing the remote control batteries 23
  - Remote control operating range 24
  - Connecting a cable to the remote control 25

Preparing the Projector

Installing the Projector 27
- Removing and Attaching the Projector Lens Unit 27
  - Attaching 27
  - Lens Calibration 28
  - Removing 29
- Installation Settings 29
  - Changing the direction of the image (projection mode) 29
- Screen Settings 30
  - Adjusting the position of the image on the projected screen 31
- Displaying a Test Pattern 31
- Adjusting the Position of the Projected Image (Lens Shift) 33
  - EB-L1505U/EB-L1500U 33
  - EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U 34
- Adjusting the Image Size 35
- Correcting the Focus 36
  - Correcting Distortion (Image Warping) 37
- Registering and Loading Lens Adjustment Values 38
- Adjusting the Height of the Projected Image (for Normal Installment) 39
- Adjusting the Horizontal Tilt (for Normal Installment) 40
- ID Settings 40
  - Set the projector ID 40
  - Checking the projector ID 41
  - Setting the remote control ID 41
- Setting the Time 41
- Other Settings 43
  - Settings related to basic operations 43
  - Settings related to display 43

Connecting Equipment 45
- Connecting a Computer 45
- Connecting Image Sources 47
- Connecting External Equipment 49
- Connecting a LAN Cable 50
- Connecting an HDBaseT Transmitter 51
- Installing the Wireless LAN Unit 52
- Using the Quick Wireless Connection USB Key 53
- Attaching the Cable Cover 54
  - Attaching 54

Basic Usage

Turning On the Projector 56
- Home Screen 56

Turning Off the Projector 58

Projecting Images 59
- Automatically Detecting Input Signals and Changing the Projected Image (Source Search) 59
- Switching to the Target Image by Remote Control 60
- Adjusting the Volume 60

Adjusting Projected Images 62
- Correcting Distortion in the Projected Image 62
  - H/V-Keystone 63

Quick Corner . . . 64
Curved Surface . . . 65
Corner Wall . . . 69
Point Correction . . . 72
Selecting the Projection Quality (Selecting Color Mode) . . . 74
Setting the Brightness . . . 74
Guide to Estimated Remains . . . 76
Relationship between Brightness Level and usage time . . . 76
Setting the Amount of Light of the Projected Image . . . 77
Changing the Aspect Ratio of the Projected Image . . . 78
Changing methods . . . 78
Adjusting the Image . . . 80
Hue, Saturation, and Brightness adjustment . . . 80
Gamma adjustment . . . 81
Frame Interpolation . . . 84
Adjusting Image Resolution (Image Enhancement) . . . 84
4K Enhancement . . . 85
Image Preset Mode . . . 86
Noise Reduction . . . 86
MPEG Noise Reduction . . . 86
Super-resolution . . . 87
Detail Enhancement . . . 87
Projecting 3D Images . . . 88

Useful Functions

Multi-Projection Function . . . 90
Adjustment Procedure . . . 90
Adjusting automatically online . . . 90
Adjusting manually offline . . . 91
Tiling . . . 91
Performing tiling automatically . . . 91
Performing tiling manually . . . 93
Edge Blending . . . 93
Black Level . . . 95
Screen Matching . . . 99
Operating conditions for auto adjustment functions . . . 99
Automatically correct the brightness and tint for multiple projectors . . . 100
Color Matching . . . 100
Displaying a Scaled Image . . . 102

Projection Functions . . . 104
Projecting Two Images Simultaneously (Split Screen) . . . 104
Input Sources for Split Screen Projection . . . 104
Operating procedures . . . 105
Restrictions during split screen projection . . . 107
Hiding the Image and Sound Temporarily (A/V Mute) . . . 107
Freezing the Image (Freeze) . . . 108
Enlarging Part of the Image (E-Zoom) . . . 108
Saving a User's Logo . . . 109

Memory Function . . . 111
Saving/Loading/Erasing/Resetting the Memory . . . 111

Scheduling Function . . . 113
Saving an Event . . . 113
Setting an Event . . . 113
Checking an Event . . . 114
Editing an Event . . . 115

Security Functions . . . 117
Managing Users (Password Protection) . . . 117
Kinds of Password Protection . . . 117
Setting Password Protection . . . 117
Entering the password . . . 118
Restricting Operation . . . 119
Control Panel Lock . . . 119
Lens Lock . . . 120
Remote control button lock . . . 120
Anti-Theft Lock . . . 121
Installing the wire lock . . . 121

Configuration Menu

Using the Configuration Menu 124

List of Functions 125

Configuration Menu Table 125
Network menu 126
Image Menu 127
Signal Menu 129
Settings Menu 131
Extended Menu 133
Network Menu 137
Notes on operating the Network menu 138
Soft keyboard operations 139
Basic menu 139
Wireless LAN menu 140
Wired LAN menu 142
Notifications menu 143
Others menu 144
Reset menu 144
Info Menu (Display Only) 145
Reset Menu 146

Batch Setup 147

Setup Using a USB Flash Drive 147
Saving settings to the USB flash drive 147
Reflecting saved settings to other projectors 149
Setup by Connecting the Computer and Projector with a USB Cable 151
Saving settings to a computer 151
Reflecting saved settings to other projectors 152
When Setup Fails 153

Troubleshooting

Using the Help 155

Reading the Indicators 157

Reading the Status Display 163

Explanations of the Display Content 164

Problem Solving 170

Problems Relating to Images 171
No images appear 171
Moving images are not displayed 171
Projection stops automatically 172
Not supported. is displayed 172
No Signal. is displayed 172
Images are fuzzy, out of focus, or distorted 173
Interference or distortion appear in images 173
The image is truncated (large) or small, the aspect is not suitable, or the image has been reversed 174
Image colors are not right 175
Images appear dark 175
Automatic adjustments are not performed correctly 176
Problems when Projection Starts 177
The projector does not turn on 177
Other Problems 178
No sound can be heard or the sound is faint 178
The remote control does not work 178
Nothing appears on the external monitor 179
I want to change the language for messages and menus 180
Email is not received even if a problem occurs in the projector 180
The battery that saves your clock settings is running low. is displayed 180

About Event ID 181

Maintenance

Cleaning 183
Cleaning the Projector's Surface 183
Cleaning the Lens 183
Cleaning the Air Filter 183
Cleaning the air filter 183

Replacing Consumables 186
Replacing the Air Filter 186
Air filter replacement period 186
How to replace the air filter 186

Image Maintenance 188
Color Calibration 188
Panel Alignment 189
Color Uniformity 191

Appendix

Monitoring and Controlling 194
About EasyMP Monitor 194
About Message Broadcasting 194
Changing Settings Using a Web Browser (Epson Web Control) 194
Displaying the Epson Web Control Screen 194
Basic Control Screen 195
OSD Control Pad Screen 196
Lens Control Screen 196
Status Information Screen 198
Using the Mail Notification Function to Report Problems 199
Reading error notification mail 199
Management Using SNMP 200
ESC/VP21 Commands 200
Command list 200
Cable layouts 201
About PJLink 201
About Crestron RoomView® 202
Operating a projector from your computer 202
About Art-Net (EB-L1505U/EB-L1500U/EB-L1405U only) 206
Channel definitions 206

Optional Accessories and Consumables 211
Optional Accessories 211
Consumables 211

Screen Size and Projection Distance 212
Projection Distance for EB-L1505U/EB-L1500U 212
ELPLM09/ELPLS04 212
ELPLU03 213
ELPLU04/ELPLU02 213
ELPLW05 214
ELPLW06/ELPLW04 215
ELPLM10/ELPLM06 216
ELPLM11/ELPLM07 217
ELPLL08/ELPLL07 217
ELPLR04 218
Projection Distances for EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U 219
ELPLM08 219
ELPLX01 220
ELPLU03 220
ELPLU04/ELPLU02 221
ELPLW05 222
ELPLW06/ELPLW04 223
ELPLM09/ELPLS04 224
ELPLM10/ELPLM06 224
ELPLM11/ELPLM07 225
ELPLL08/ELPLL07 226
ELPLR04 227
Polarizer (ELPPL01) Installation Distance 228
EB-L1505U/EB-L1500U 228
EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U 228

Adjustment Range for Projected Images 229
H/V-Keystone 229
EB-L1505U/EB-L1500U 229

EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U 229
Curved Surface 229
Corner Wall 234

Supported Monitor Displays 239

Supported Resolutions 239
Computer signals (analog RGB) 239
Component video 239
Input signals from the DVI-D port, HDMI port, and HDBaseT port 239
Input signals from SDI input port* 240

Specifications 241

Projector General Specifications 241

Appearance 245

Glossary 246

General Notes 248

About Notations 248
Trademarks and Copyrights 249

List of Safety Symbols Compliant with IEC60950-1 A2 250

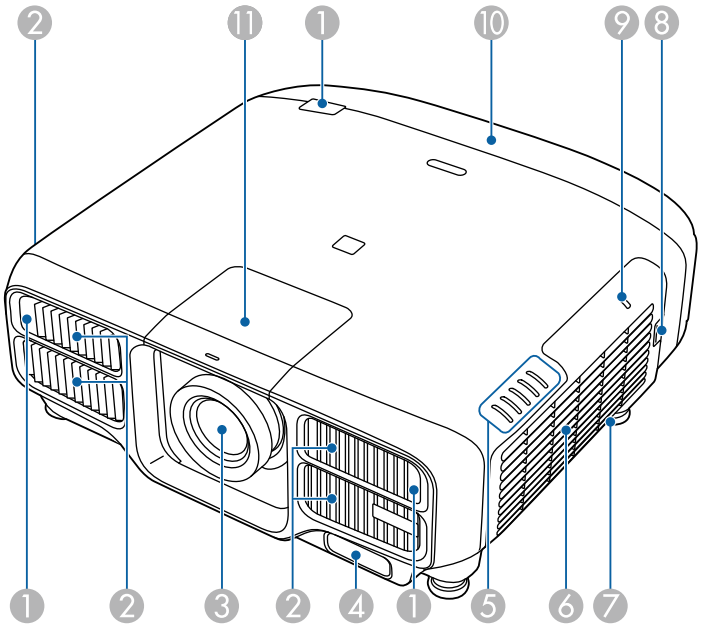
Index 252

Introduction

This chapter explains the names for each part.

The illustrations in this guide show the lens unit attached to the projector.

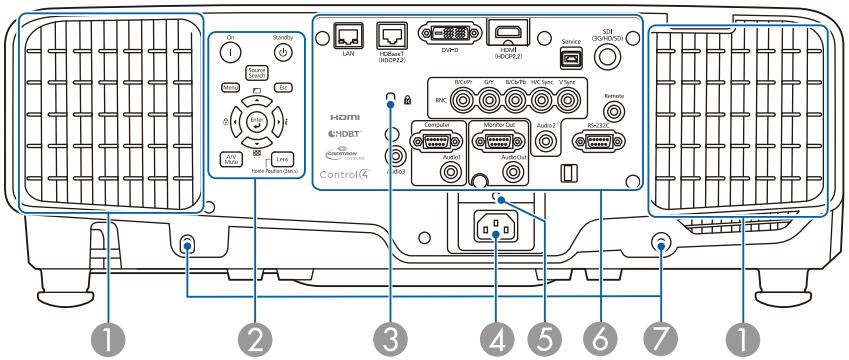
Front/Top



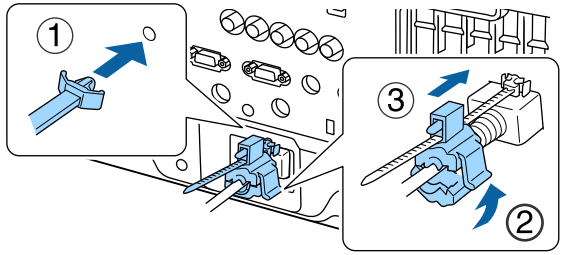
	Name	Function
1	Remote receiver	Receives signals from the remote control.
2	Air intake vent	Takes in air to cool the projector internally.
3	Projection lens	Images are projected through here. **Warning** Do not look into the lens while projecting. This could cause damage to eyesight due to the powerful light emitted. **Caution** When shifting the lens, do not put your hands near the lens unit. Your fingers may get caught between the lens unit and the projector, and cause an injury.
4	Built-in camera	This camera scans the image when correcting the projected image automatically. **Attention** Exposing the camera to bright light may cause a malfunction to occur.
5	Status indicators	The color of the indicators and whether they are flashing or lit indicate the status of the projector. ☛ "Reading the Indicators" p.157
6	Air intake vent (air filter)	Takes in air to cool the projector internally. ☛ "Cleaning the Air Filter" p.183
7	Speaker (EB-L1300U/EB-L1200U/EB-L1100U only)	Outputs audio.
8	Air filter cover tab	Use this knob to open the air filter cover. ☛ "Replacing the Air Filter" p.186

	Name	Function
⑨	**Wireless LAN indicator**	Indicates the access status to the optional wireless LAN unit. ☛ "Optional Accessories" p.211
⑩	**Cable cover**	Cover for the rear interface cable connection section. ☛ "Attaching the Cable Cover" p.54
⑪	**Lens replacement cover**	Remove when attaching or removing the lens. ☛ "Removing and Attaching the Projector Lens Unit" p.27 **⚠ Caution** When moving the projector, do not hold the lens replacement cover. The lens replacement cover may be removed and the projector may fall, which could cause an injury.

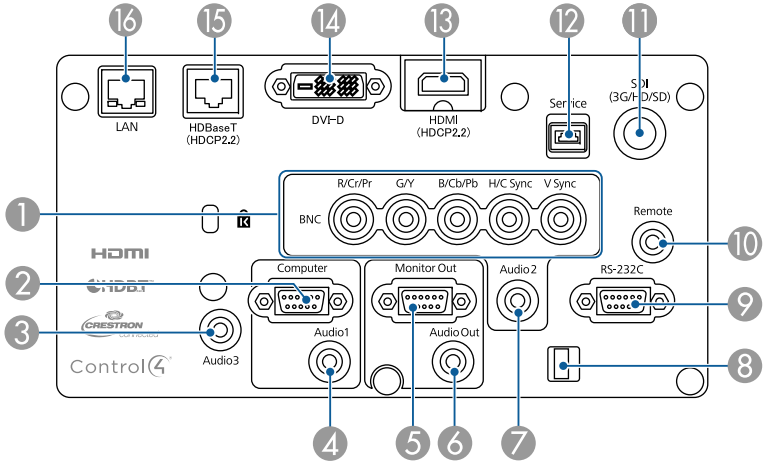
Rear



	Name	Function
①	**Air exhaust vent**	Exhaust vent for air used to cool the projector internally. **⚠ Caution** While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.
②	**Control panel**	☛ "Control Panel" p.19
③	**Security slot**	The security slot is compatible with the Microsaver Security System manufactured by Kensington. ☛ "Anti-Theft Lock" p.121
④	**Power inlet**	Connects the power cord to the projector.

	Name	Function
⑤	Cable holder	Insert the supplied cable clamp (only supplied with EB-L1505U/EB-L1500U/EB-L1405U) here to prevent the cord from falling out due to its own weight. 
⑥	Interface	☛ "Interface" p.17
⑦	Screw holes to fix the cable cover	Screw holes to fix the cable cover in place. ☛ "Attaching the Cable Cover" p.54

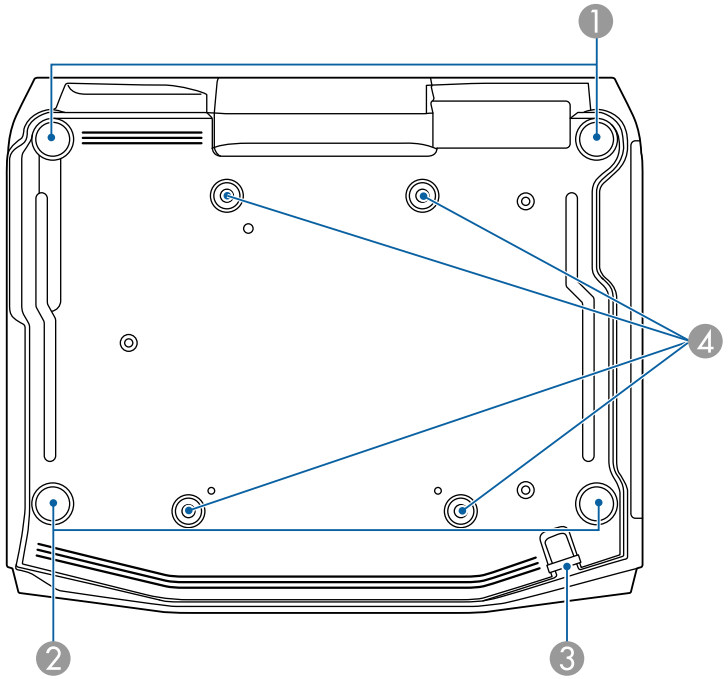
Interface



	Name	Function
①	BNC port	For analog RGB signals from a computer and component video signals from other video sources.
②	Computer port	For analog RGB signals from a computer and component video signals from other video sources.
③	Audio3 port	Inputs audio from equipment connected to the HDMI port or the DVI-D port.
④	Audio1 port	Inputs audio from equipment connected to the Computer port.
⑤	Monitor Out port	Outputs to an external monitor the analog signal from the computer connected to the Computer port or the BNC port. You cannot output signals input from other ports or component video signals.
⑥	Audio Out port	Outputs audio from the currently projected image to an external speaker.
⑦	Audio2 port	Inputs audio from equipment connected to the BNC port.
⑧	Cable holder	Run a commercially available cable tie to secure cables.

	Name	Function
⑨	**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.200
⑩	**Remote port**	Connects the optional remote control cable set and inputs signals from the remote control. When the remote control cable is plugged into the Remote port, the remote receiver on the projector is disabled. ☛ "Optional Accessories" p.211
⑪	**SDI input port** (EB-L1505U/EB-L1500U/EB-L1405U only)	Inputs SDI signals from video equipment.
⑫	**Service port**	This is used for batch settings. This port is for control use and should not normally be used. ☛ "Batch Setup" p.147
⑬	**HDMI port**	Inputs video signals from HDMI compatible video equipment and computers.
⑭	**DVI-D port**	Inputs the computer DVI-D signals.
⑮	**HDBaseT port**	Connects a LAN cable to the optional HDBaseT Transmitter. ☛ "Connecting an HDBaseT Transmitter" p.51 ☛ "Optional Accessories" p.211
⑯	**LAN port**	Connects a LAN cable to connect to a network. When using EB-L1505U/EB-L1500U/EB-L1405U, Art-Net is supported. ☛ "About Art-Net (EB-L1505U/EB-L1500U/EB-L1405U only)" p.206

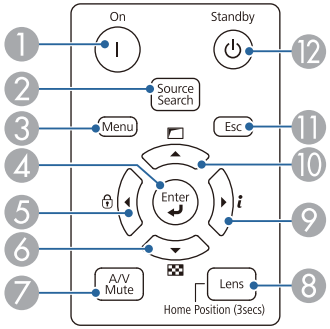
Base



	Name	Function
❶	**Front adjustable feet**	When setup on a surface such as a desk, extend and retract the feet to adjust the projector's vertical and horizontal tilt. ☛ "Adjusting the Height of the Projected Image (for Normal Installment)" p.39 ☛ "Adjusting the Horizontal Tilt (for Normal Installment)" p.40
❷	**Rear feet**	When setup on a surface such as a desk, turn to extend and retract to adjust the horizontal tilt. ☛ "Adjusting the Horizontal Tilt (for Normal Installment)" p.40

	Name	Function
③	**Security cable installation point**	Pass a commercially available wire lock through here and lock it in place. ☛ "Installing the wire lock" p.121
④	**Ceiling mount fixing points (four points)**	Attach the optional ceiling mount here when suspending the projector from a ceiling. ☛ "Installing the Projector" p.27 ☛ "Optional Accessories" p.211

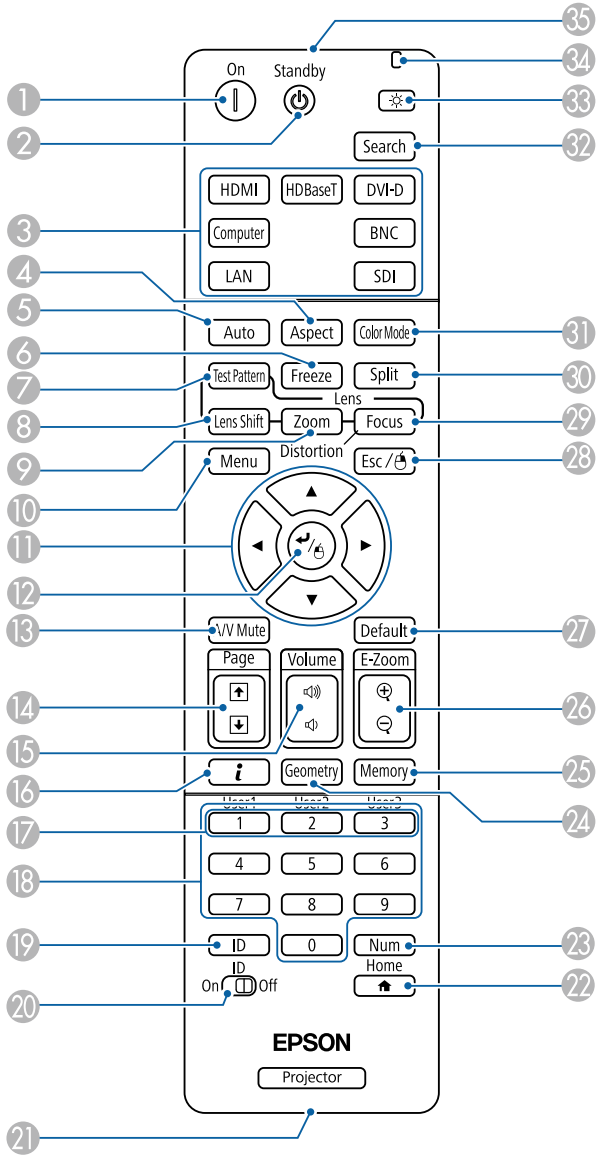
Control Panel



	Name	Function
①	**[⏻] button**	Turns the projector on.
②	**[Source Search] button**	Changes to the next input source that is sending an image. ☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59
③	**[Menu] button**	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.124
④	**[↵] button**	• When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. • If pressed while projecting analog RGB signals from the Computer port or the BNC port, you can automatically optimize Tracking, Sync., and Position.
⑤	**[◀]/[🔒] buttons**	• Displays the Control Panel Lock screen allowing you to make settings to lock the control panel buttons. ☛ "Restricting Operation" p.119 • If pressed when the Configuration menu or the Help screen is displayed, this button selects menu items and setting values. ☛ "Using the Configuration Menu" p.124 ☛ "Using the Help" p.155
⑥	**[▼]/[▦] buttons**	• Displays a test pattern. ☛ "Displaying a Test Pattern" p.31 • If pressed when the Configuration menu or the Help screen is displayed, this button selects menu items and setting values. ☛ "Using the Configuration Menu" p.124 ☛ "Using the Help" p.155
⑦	**[A/V Mute] button**	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.107
⑧	**[Lens] button**	Displays the adjustment screens for lens shift, zoom, focus, and distortion in that order each time the button is pressed. If pressed for more than three seconds, the lens position moves to the home position.

	Name	Function
⑨	[▶]/[i] buttons	• Displays the Info menu from the Configuration menu. ☛ "Info Menu (Display Only)" p.145 • If pressed when the Configuration menu or the Help screen is displayed, this button selects menu items and setting values. ☛ "Using the Configuration Menu" p.124 ☛ "Using the Help" p.155
⑩	[▲]/[▭] buttons	• Performs screen adjustments using the settings in Geometry Correction from the Configuration menu. ☛ **Settings - Geometry Correction** p.131 • If pressed when the Configuration menu or the Help screen is displayed, this button selects menu items and setting values. ☛ "Using the Configuration Menu" p.124 ☛ "Using the Help" p.155
⑪	[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.124
⑫	[⏻] button	Turns the projector off.

Remote Control



	Name	Function
❶	[Ⓘ] button	Turns the projector on.
❷	[⏻] button	Turns the projector off.
❸	Change input buttons	Changes to images from each input port. ☛ "Switching to the Target Image by Remote Control" p.60 The [SDI] button only functions for EB-L1505U/EB-L1500U/EB-L1405U.
❹	[Aspect] button	Each time the button is pressed, the aspect mode changes. ☛ "Changing the Aspect Ratio of the Projected Image " p.78
❺	[Auto] button	If pressed while projecting analog RGB signals from the Computer port or the BNC port, you can automatically optimize Tracking, Sync., and Position.
❻	[Freeze] button	Images are paused or unpaused. ☛ "Freezing the Image (Freeze)" p.108
❼	[Test Pattern] button	Displays a test pattern. ☛ "Displaying a Test Pattern" p.31
❽	[Lens Shift] button	Press to adjust the lens shift. ☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33 If pressed for more than three seconds, the lens position moves to the home position.
❾	[Zoom] button	Press to adjust the zoom. ☛ "Adjusting the Image Size" p.35
❿	[Menu] button	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.124

	Name	Function
⓫	[▲][▼][◀][▶] buttons	• Press to adjust focus, zoom, distortion, and lens shift. ☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33 ☛ "Adjusting the Image Size" p.35 ☛ "Correcting the Focus" p.36 • When the Configuration menu or the Help screen is displayed, pressing these buttons selects menu items and setting values. ☛ "Using the Configuration Menu" p.124 • When using the optional wireless mouse receiver, pressing these buttons moves the pointer. ☛ "Optional Accessories" p.211
⓬	[↵] 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.124 • Acts as a mouse's left button when using the optional wireless mouse receiver. ☛ "Optional Accessories" p.211
⓭	[A/V Mute] button	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.107
⓮	[Page] buttons [⇧][⇩]	• Moves to the previous or next image file when projecting images from a computer connected via a network. • When using the optional wireless mouse receiver, you can change the PowerPoint file page during projection by pressing the page up/page down buttons.
⓯	[Volume] buttons [🔈][🔊]	[🔈] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.60
⓰	[i] button	Displays the Info menu from the Configuration menu. ☛ "Info Menu (Display Only)" p.145

	Name	Function
⑰	[User1] button [User2] button [User3] button	Select any frequently used item from the Configuration menu items, and assign it to any of these buttons. By pressing the button, the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments. ☛ "Settings Menu" p.131
⑱	Numeric buttons	• Enter the Password. ☛ "Setting Password Protection" p.117 • Use this button to enter numbers in **Network** settings from the Configuration menu.
⑲	[ID] button	Hold down this button and press the numeric buttons to select the ID for the projector you want to operate using the remote control. ☛ "ID Settings" p.40
⑳	[ID] switch	Use this switch to enable (On)/disable (Off) ID settings for the remote control. ☛ "ID Settings" p.40
㉑	Remote port	Connects the optional remote control cable set and outputs signals from the remote control. ☛ "Optional Accessories" p.211 When the remote control cable is plugged into this remote port, the remote control light-emitting is disabled.
㉒	[⌂] button	Displays and closes the Home screen. ☛ "Home Screen" p.56
㉓	[Num] button	Hold down this button and press the numeric buttons to enter passwords and numbers. ☛ "Setting Password Protection" p.117
㉔	[Geometry] button	Corrects distortion in the projected image. ☛ "Correcting Distortion in the Projected Image" p.62
㉕	[Memory] button	Performs operations and makes settings for the memory function. ☛ "Memory Function" p.111

	Name	Function
㉖	[E-Zoom] buttons [⊕][⊖]	Enlarges or reduces the image without changing the projection size. ☛ "Enlarging Part of the Image (E-Zoom)" p.108
㉗	[Default] button	Enabled when [Default]: Reset is displayed on the configuration menu guide. The settings being adjusted are returned to their default values. ☛ "Using the Configuration Menu" p.124
㉘	[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.124 • Acts as a mouse's right button when using the optional wireless mouse receiver. ☛ "Optional Accessories" p.211
㉙	[Focus] button	Each time the button is pressed, the adjustment screens for focus and distortion are displayed in that order. ☛ "Correcting the Focus" p.36
㉚	[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.104
㉛	[Color Mode] button	Each time the button is pressed, the Color Mode changes. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.74
㉜	[Search] button	Changes to the next input source that is sending an image. ☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59
㉝	[☼] button	Illuminates the buttons on the remote control for approximately 15 seconds. This is useful when using the remote control in the dark.
㉞	Indicator	A light is emitted when outputting remote control signals.

Name		Function
㉟	Remote control light-emitting area	Outputs remote control signals.

Handy remote control operations

You can perform the following operations by simply pressing one of the buttons on the remote control.

Operation	Set
Reverse the projected image vertically. (Switch the **Projection** between **Front** and **Front/Ceiling**) ☛ "Changing the direction of the image (projection mode)" p.29	Hold down the [A/V Mute] button for more than five seconds.
Selecting the password security settings. ☛ "Managing Users (Password Protection)" p.117	Hold down the [Freeze] button for more than five seconds. The **Password Protection** screen is displayed, and you can select various settings.
Locking or unlocking some of the operation of the buttons on the remote control. ☛ "Remote control button lock" p.120	Hold down the [⌂] button for more than five seconds.
Initializing the settings for the **Remote Receiver** in the Configuration menu. (Enables all Remote receiver for this projector.)	Hold down the [Menu] button for more than 15 seconds.
Displaying frequently used Configuration menu items.	Press the [User1], [User2], or [User3] button. You can set the menu item you want to assign to each button in **User Button**. ☛ **Settings - User Button** p.131 The following items can be assigned. **Light Source Mode**, **Multi-Projection**, **Resolution**, **Image Processing**, **On-Screen Display**, **Display the QR Code**, **Image Enhancement**, **Frame Interpolation**, **Screen Matching**, **Color Calibration** When you press the button for which **On-Screen Display** is assigned, menus or messages are not displayed on the screen. When the same button is pressed, they are displayed again. If **On-Screen Display** is enabled, you cannot operate the Configuration menu (except switching the color mode and input source).

Replacing the remote control batteries

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

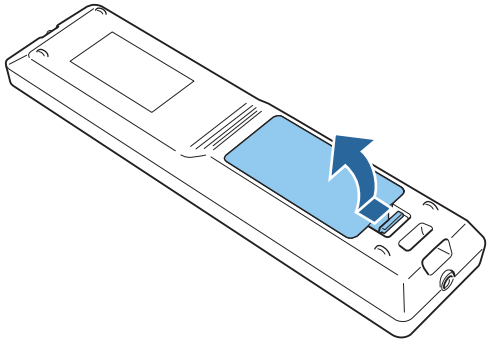
Attention

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

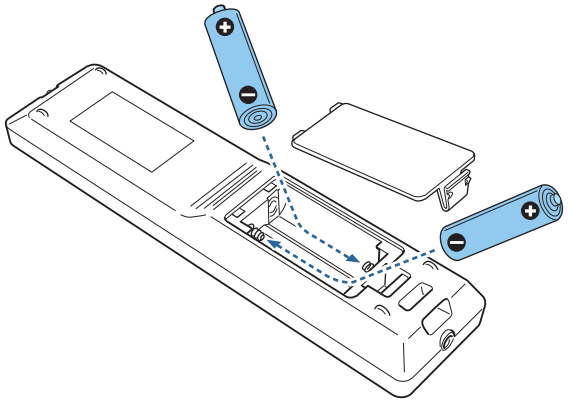
☛ *Safety Instructions*

1 Remove the battery cover.

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



2 Replace the old batteries with new batteries.



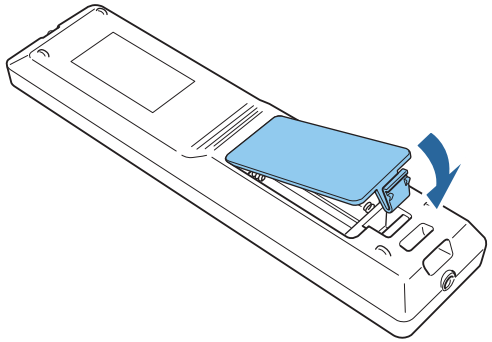
Caution

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

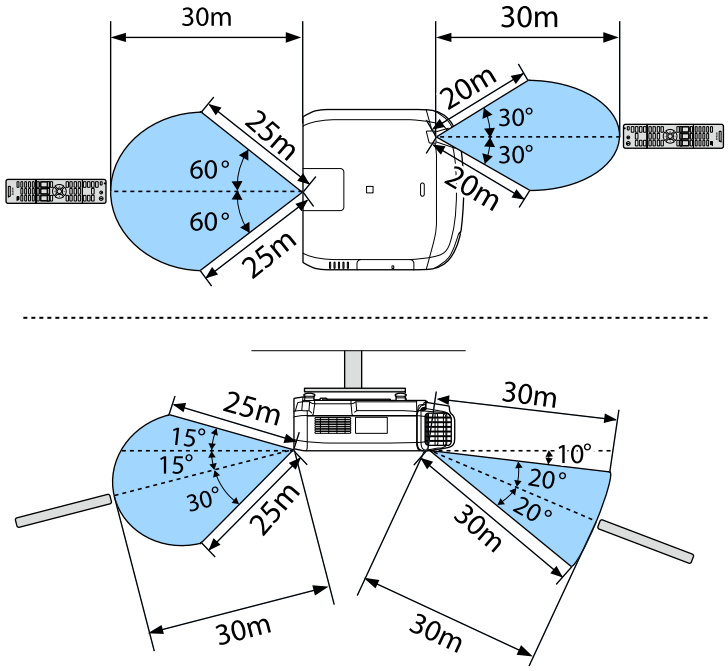
If the batteries are not used correctly, they could explode or leak causing a fire, injury, or damage to the product.

3 Replace the battery cover.

Press the battery compartment cover until it clicks into place.



Remote control operating range



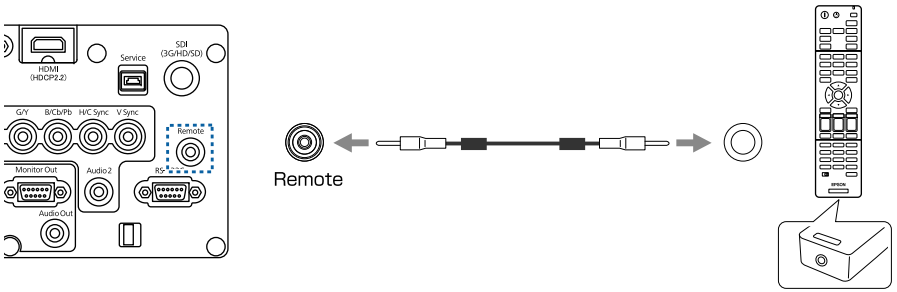
To restrict reception of the operation signals from the remote control, set **Remote Receiver**.

☛ **Settings - Remote Receiver** p.131

Connecting a cable to the remote control

You can make operations securely with the optional remote control cable set when you use multiple units of this projector in the same place or when there are obstacles around the remote receiver.

☛ "Optional Accessories" p.211



- When the remote control cable is plugged into the Remote port, the remote receiver on the projector is disabled.
- You can also connect the optional HDBaseT transmitter and remote control with the cable to control the projector.
  ☛ "Connecting an HDBaseT Transmitter" p.51

Preparing the Projector

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

Removing and Attaching the Projector Lens Unit

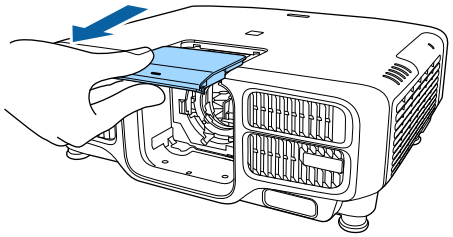
Attaching

Attention

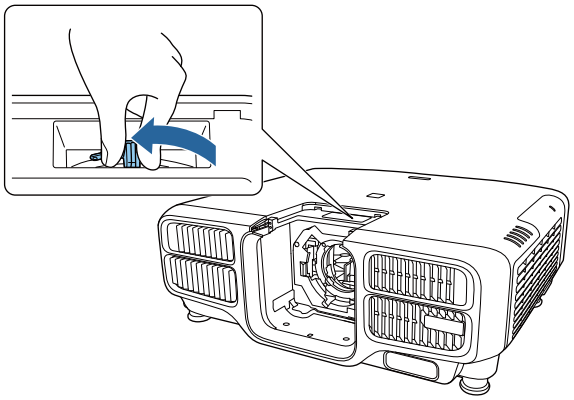
- When attaching the lens unit, remove the power plug from the electrical outlet first.
- Do not attach the lens unit when the projector's lens insertion section is facing up. Dust or dirt could enter the projector.
- Try not to touch the lens section with your hand or fingers. If fingerprints or oils are left on the surface of the lens, projection quality deteriorates.

- The projector supports lens with the following model numbers.
  ELPLM08 (not available for EB-L1505U/EB-L1500U), ELPLX01 (not available for EB-L1505U/EB-L1500U), ELPLU03, ELPLU04, ELPLW05, ELPLW06, ELPLM09, ELPLM10, ELPLM11, ELPLL08, ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, ELPLL07
  When using the following lens, set the **Lens Type** in the Configuration menu according to the lens you are using so that distortion correction is performed correctly.
  ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, ELPLL07
  ☛ **Extended** - **Operation** - **Advanced** - **Lens Type** p.133
- In a normal installation, the image may be tilted depending on your lens. Adjust the tilt of the image using the front and rear feet.
  ☛ "Adjusting the Horizontal Tilt (for Normal Installment)" p.40

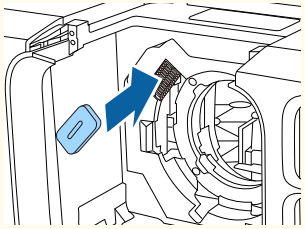
1 Pull the lens replacement cover straight out.



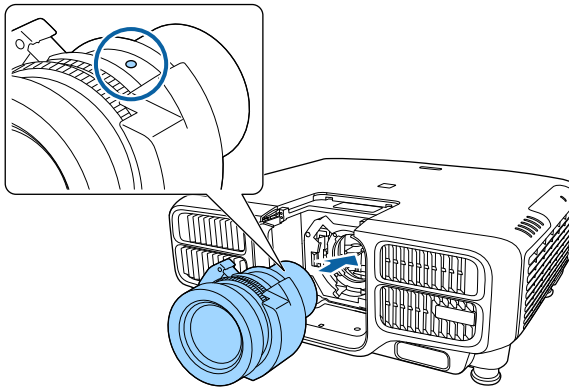
2 Hold the lock lever and turn it counterclockwise.



When using the following lens, attach the supplied lens connector cap to protect the port.
ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, ELPLL07

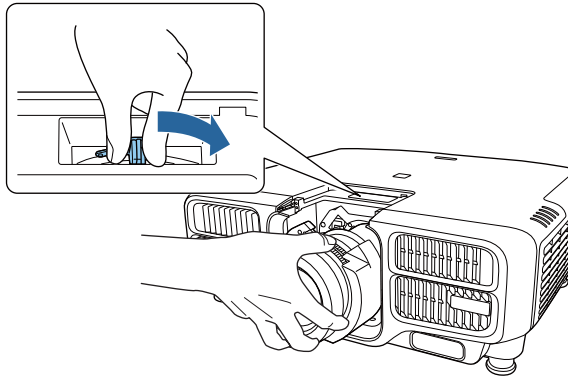


3 Insert the lens unit straight into the lens insertion section with the white circle on the lens on top.

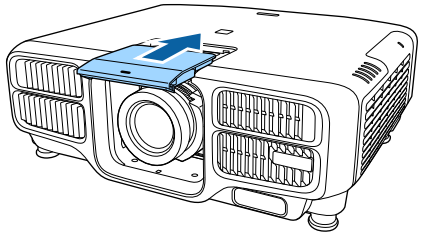


4 While holding the lens unit firmly, hold the lock lever and turn it clockwise to lock the lens unit.

Check that the lens cannot be detached.



5 Attach the lens replacement cover.



Lens Calibration

After replacing the lens unit, calibrate the lens so that the projector can correctly acquire the lens position and adjustment range.

After attaching a lens unit that differs from the previous one, a message is displayed when the projector is turned on.

Select **Yes** to calibrate the lens.

Lens calibration takes up to about 100 seconds until it is complete. When it is complete, the lens position returns to the position before the calibration (ELPLX01 returns to the standard position).

Attention

If the message "Lens Calibration failed." is displayed, 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*

- You can also calibrate the lens from the Configuration menu.
  ☛ **Extended** - **Operation** - **Lens Calibration** p.133
- If you attach a lens unit that is the same as the previous one, calibrate the lens from the Configuration menu.
- If you do not calibrate the lens, the following functions may not operate correctly.
  Lens Shift, Memory (Lens Position)

Removing

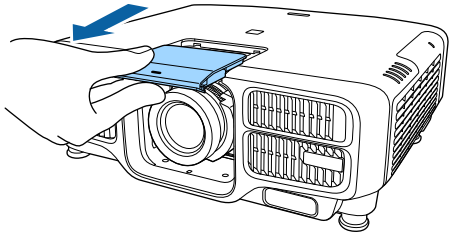
Attention

When replacing the lens unit, remove the power plug from the electrical outlet first. If the lens shift has been done, move the lens position to the home position before replacing the lens unit.

☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33

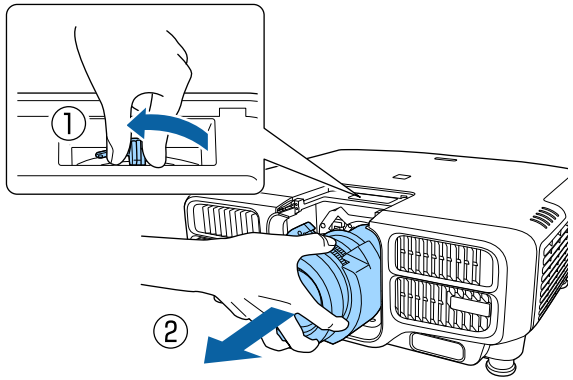
The projector uses a laser as the light source. As a safety measure, the light source turns off when the lens is removed. Attach the lens, and then press the [Ⓘ] button to turn it back on.

1 Pull the lens replacement cover straight out.



2 While holding the lens unit firmly, hold the lock lever and turn it counterclockwise to unlock the lens unit.

Pull the lens unit straight out as it is released.



Installation Settings

Changing the direction of the image (projection mode)

You can change the direction of the image using **Projection** mode from the Configuration menu.

☛ **Extended** - **Projection** p.133

When Front is the standard, the image directions for each projection mode are as follows.

Front (default)

Front/Ceiling

Rear

Rear/Ceiling

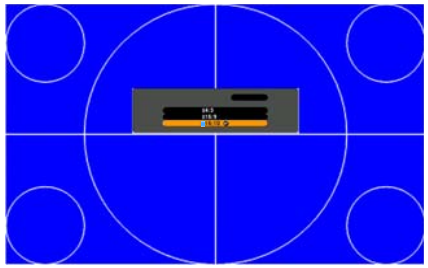
- You can change the setting as follows by pressing down the [A/V Mute] button on the remote control for about five seconds.
  Front↔Front/Ceiling
  Rear↔Rear/Ceiling
- To rotate the menu display, set **OSD Rotation** in the Configuration menu.
  ☛ **Extended - Display - OSD Rotation** p.133
- When suspending the projector from a ceiling, set the **Inv Direction Button** to **On** so that the [▲], [▼], [◀], and [▶] buttons on the control panel operate in the correct direction.
  ☛ **Extended - Operation - Advanced - Inv Direction Button** p.133

Screen Settings

Set the Screen Type according to the aspect ratio of the screen being used. The area where the image is displayed matches the shape of the screen.

The setting for the **Screen Type** at the time of purchase is **16:10**.

1. Press the [Menu] button while projecting.
   ☛ "Using the Configuration Menu" p.124
2. Select **Display** from **Extended**.
3. Select **Screen Type** from **Screen**.
4. Select the screen's aspect ratio.
   The shape of the background test pattern changes depending on the setting.



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

- When you change the Screen Type, adjust the aspect ratio for the projected image as well.
  ☛ "Changing the Aspect Ratio of the Projected Image " p.78
- This function does not support Message Broadcasting (an EasyMP Monitor plugin).

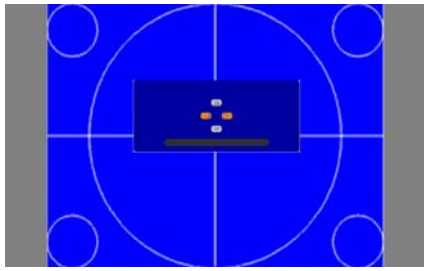
Adjusting the position of the image on the projected screen

You can adjust the position of the image if there are margins between the edge of the image and the projected screen frame due to the Screen Type setting.

Example: When the **Screen Type** is set to **4:3** for the WUXGA/WXGA projector

You can move the image to the left and right.

1. Press the [Menu] button while projecting.
   ☛ "Using the Configuration Menu" p.124
2. Select **Display** from **Extended**.
3. Select **Screen Position** from **Screen**.
4. Use the [▲], [▼], [◀], and [▶] buttons to adjust the position of the image.
   You can check the current display position by using the background test pattern.



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

When the **Screen Type** is set to **16:10**, the **Screen Position** cannot be adjusted.

Displaying a Test Pattern

A test pattern can be displayed to adjust the projection status without connecting video equipment.

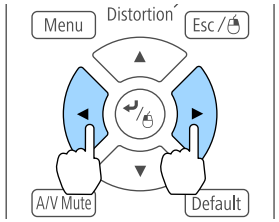
The shape of a test pattern is according to the setting of **Screen Type**. Set **Screen Type** first.

☛ "Screen Settings" p.30

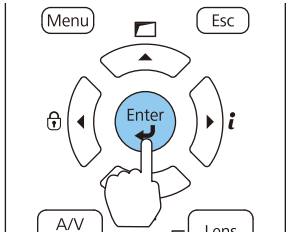
1. Press the [Test Pattern] button of the remote control or the [▦] button on the control panel while projecting.

2 Press the [◀][▶] buttons on the remote control or the [↵] button on the control panel to change the test pattern.

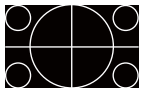
Using the remote control



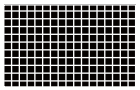
Using the control panel



Standard



Cross-hatching



Color Bars V

Color Bars H

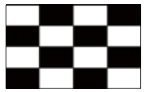
Grayscale

Gray Bars V

Gray Bars H

Checkerboard 1

Checkerboard 2



White

Black

16:10Aspect Frame

16:9Aspect Frame

4:3Aspect Frame

In addition to lens operations, the following image adjustments can be made while the test pattern is being displayed.

Top Menu Name	Sub Menu/Items
Image	Color Mode ☛ p.74
	White Balance
	Advanced - Gamma*1 ☛ p.81 - RGBCMY ☛ p.80
	Reset
Set	Geometry Correction ☛ p.62 Brightness Settings
Extended	Display*2 Color Calibration Multi-Projection*3 ☛ p.90

*1 Except for custom settings of gamma

*2 Except for Screen, Panel Alignment, and Color Uniformity

*3 Except for Black Level, Scale, Color Uniformity, and Color Adjustment

- To set menu items that cannot be set while the test pattern is being displayed or to fine-tune the projected image, project an image from the connected device.
- During image adjustment, press the [⇧][⇩] [Page] buttons on the remote control to change the test pattern.
- You can also select a test pattern from the Configuration menu.

  ☛ **Settings - Test Pattern** p.131

3 Press the [Esc] button to close the test pattern.

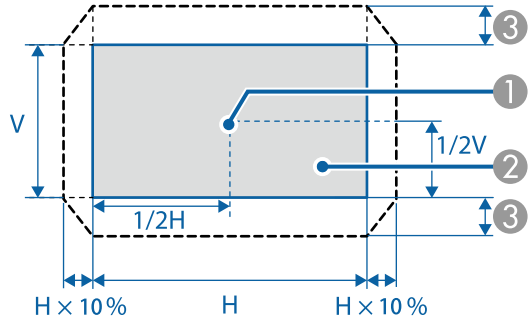
Adjusting the Position of the Projected Image (Lens Shift)

The lens can be shifted to adjust the position of the projected image, for example, when the projector cannot be installed directly in front of the screen.

The ranges within which the image can be moved are shown below. The position of the projected image cannot be moved to both the horizontal and vertical maximum values.

EB-L1505U/EB-L1500U

When using the ELPLU03/ELPLW05

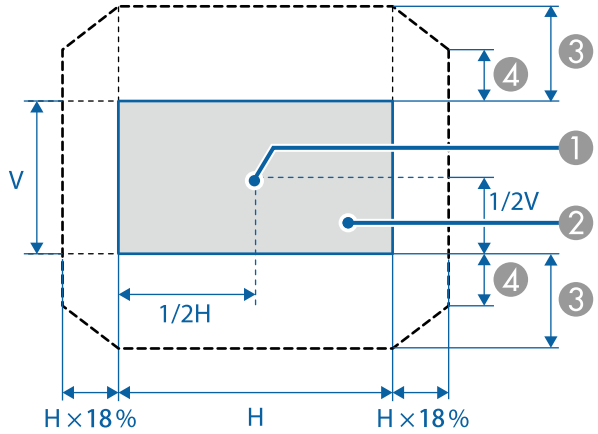


1. Center of lens
2. Projected image when the lens position is moved to the home position
3. Maximum motion range: V x 24%*

* When performing screen matching: V x 11% (ELPLU03)

* When the horizontal direction is at the maximum value, the image cannot be moved vertically.

When using the ELPLU04/ELPLW06/ELPLM09/ELPLM10/ELPLM11/ELPLL08

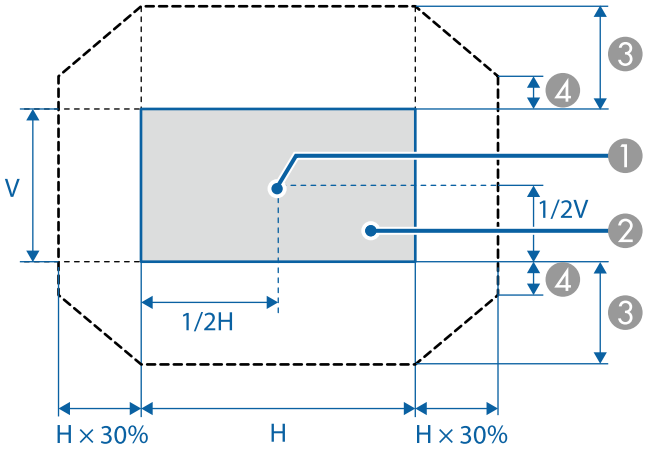


1. Center of lens
2. Projected image when the lens position is moved to the home position
3. Maximum motion range: V x 60%*
4. When the horizontal direction is at the maximum value: V×31%

* When performing screen matching: V x 40% (ELPLU04)

EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U

When using the ELPLU03/ELPLU04/ELPLW05/ELPLW06/ELPLM08/ELPLM09/ELPLM10/ELPLM11/ELPLL08

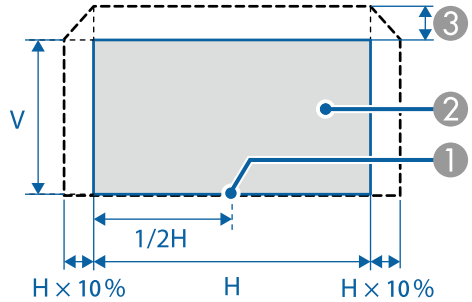


1. Center of lens
2. Projected image when the lens position is moved to the home position
3. Maximum motion range: V x 67%*
4. When the horizontal direction is at the maximum value: V x 19%

* When performing screen matching: V x 44% (ELPLU03), V x 51% (ELPLM09)

* When performing color calibration: V x 64% (ELPLU03)

When using the ELPLX01



1. Center of lens
2. Projected image when the lens position is moved to the home position
3. Maximum motion range: V x 17%*

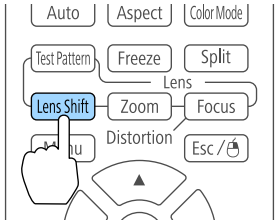
* When the horizontal direction is at the maximum value, the image cannot be moved upward.

- When adjusting the image height with the vertical lens shift, adjust by moving the image from the bottom to the top. If it is adjusted from the top to the bottom, the image position may move down slightly after adjusting.
- We recommend setting the focus, zoom, and lens shift at least 20 minutes after you start the projection, After projecting videos, we recommend waiting for more than 20 minutes to make settings for the Focus/Zoom/Lens Shift.
- The image will be clearest when the lens position is moved to the home position.
- If you hold down the [Lens Shift] button on the remote control or the [Lens] button on the control panel for at least three seconds, the lens position moves to the home position.
- If you set **A/V Output** to **Always On**, you can move the lens position to the home position even if the projector is in standby mode.
  ☛ **Extended - A/V Settings - A/V Output** p.133
- ELPLR04 does not support lens shift.

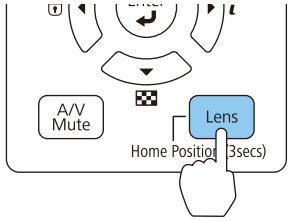
1 Press the [Lens Shift] button on the remote control or the [Lens] button on the control panel.

Repeatedly press the [Lens] button on the control panel until the lens shift adjustment screen is displayed.

Using the remote control

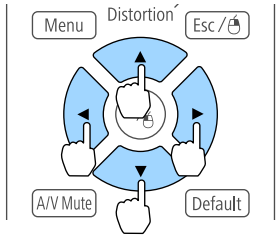


Using the control panel

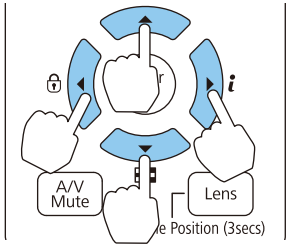


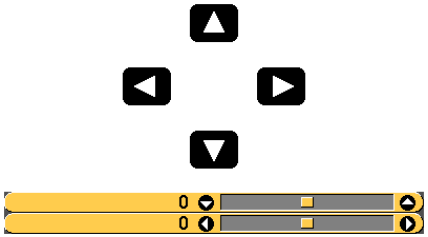
2 Press the [▲][▼][◀][▶] buttons to adjust the position of the projected image.

Using the remote control



Using the control panel





The displayed screen may differ depending on your lens.

3 Press the [Esc] button to finish the adjustment.

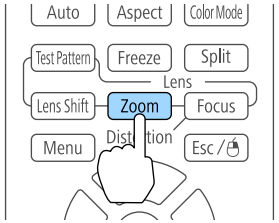
Adjusting the Image Size

This is not available for ELPLX01 and ELPLR04.

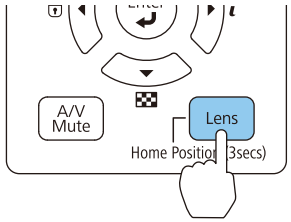
1 Press the [Zoom] button on the remote control or the [Lens] button on the control panel.

Repeatedly press the [Lens] button on the control panel until the zoom adjustment screen is displayed.

Using the remote control

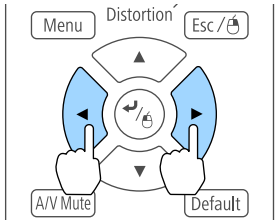


Using the control panel

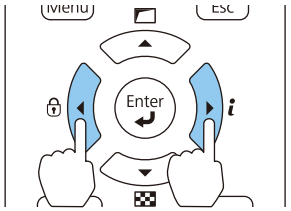


2 Press the [◀][▶] buttons to adjust.

Using the remote control



Using the control panel



The displayed screen may differ depending on your lens.

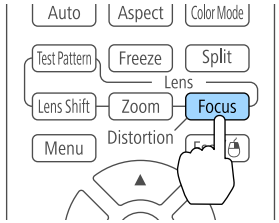
3 Press the [Esc] button to finish the adjustment.

Correcting the Focus

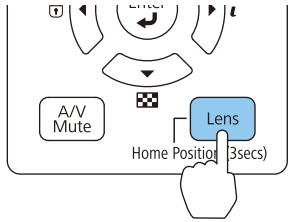
1 Press the [Focus] button or the [Lens] button on the control panel.

Repeatedly press the [Lens] button on the control panel until the focus adjustment screen is displayed.

Using the remote control

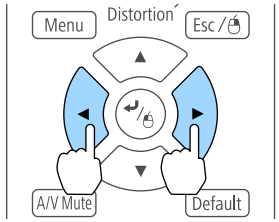


Using the control panel

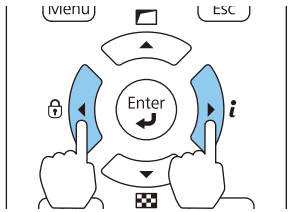


2 Press the [◀][▶] buttons to adjust.

Using the remote control



Using the control panel



The displayed screen may differ depending on your lens.

When using the following lens, a message prompting you to adjust the distortion (image warping) is displayed. After adjusting the focus, adjust the distortion.

ELPLX01, ELPLU03, ELPLU04, ELPLW05, ELPLU02

☛ "Correcting Distortion (Image Warping)" p.37

3 Press the [Esc] button to finish the adjustment.

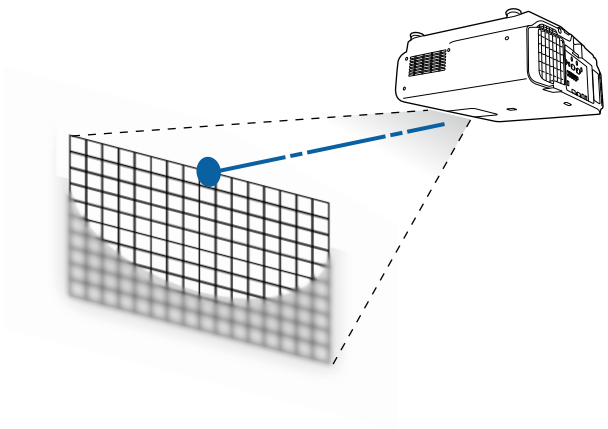
Correcting Distortion (Image Warping)

When using a short throw zoom lens and focusing at the center of the screen, the surrounding image may warp and be out of focus. Follow the steps below to correct the warping.

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

Repeatedly press the [Lens] button on the control panel until the focus adjustment screen is displayed.

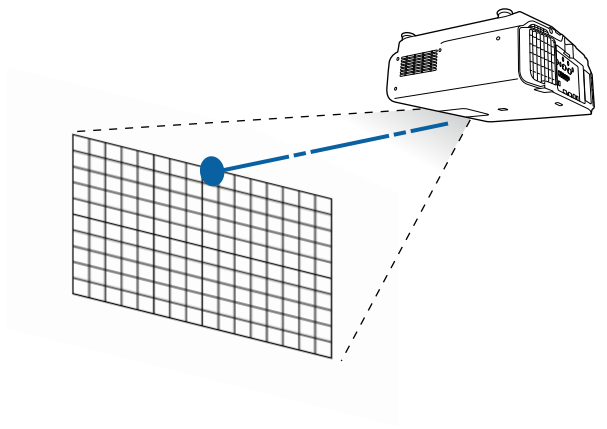
2 Press the [◀][▶] buttons to focus the image around the center of the lens.



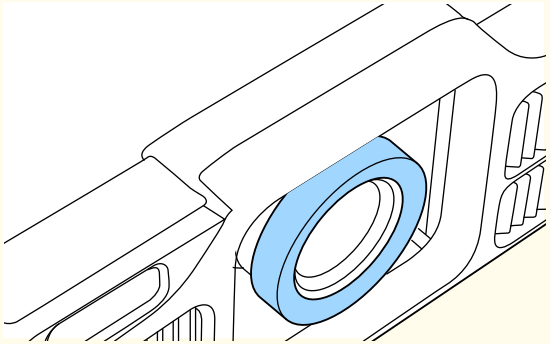
3 Press the [Focus] button on the remote control or the [Lens] button on the control panel again.

Repeatedly press the [Lens] button on the control panel until the distortion adjustment screen is displayed.

4 Press the [◀][▶] button to adjust the focus of the surrounding area.



When using the ELPLU02, a message prompting you to manually adjust the distortion is displayed. Turn the distortion ring counterclockwise, and then adjust the focus. After adjusting the focus, manually turn the distortion ring to correct the image warping.



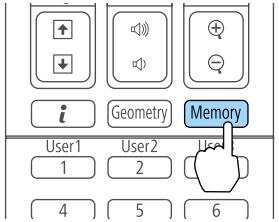
Registering and Loading Lens Adjustment Values

You can register a lens position whose lens shift, zoom, focus, and distortion was adjusted in memory, and load it when necessary. You can register up to 10 values.

- This feature cannot be used if the following lenses are attached. ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, ELPLL07
- If you did not calibrate your lens, a message is displayed when you save a memory. Select **Yes** to calibrate the lens.
- The lens position when a memory is loaded may not completely match the lens position when the memory was saved.
- If there is a large discrepancy between the lens position when a memory is loaded and the lens position when the memory was saved, calibrate the lens.

☛ **Extended** - **Operation** - **Lens Calibration** p.133

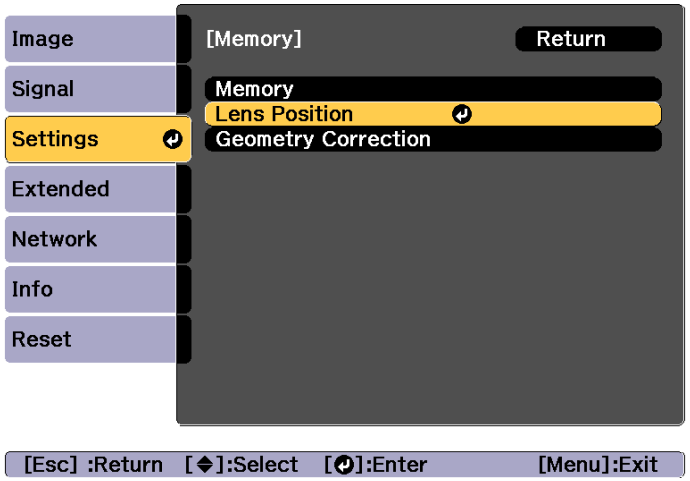
1 Press the [Memory] button while projecting.



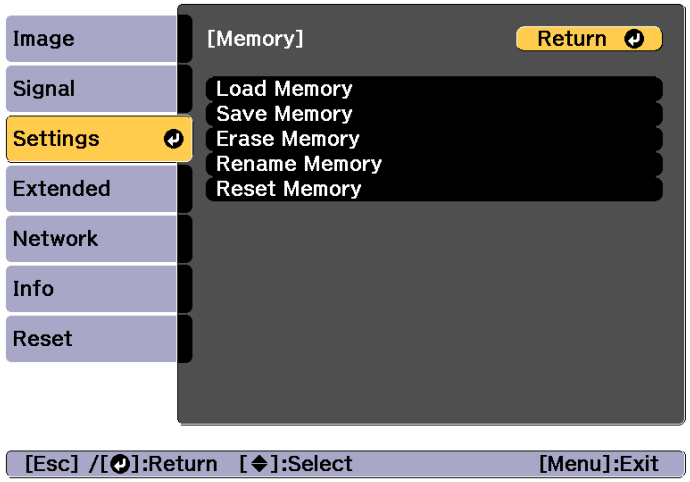
You can also operate from the Configuration menu.

☛ **Settings** - **Memory** p.131

2 Select **Lens Position**, and then press the [↵] button.



3 Select the function you want to perform, then press the [↵] button.

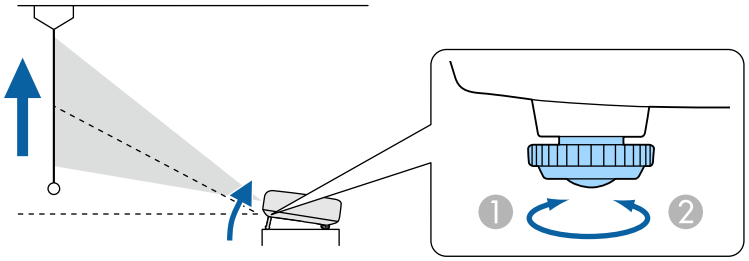


Function	Explanation
Load Memory	Loads the saved memory. When you select a memory name and press the [↵] button, the lens is automatically adjusted according to the settings of the selected memory.
Save Memory	Registers current settings in the memory. When you select a memory name and press the [↵] button, the settings are saved.
Erase Memory	Erases the registered memory. When you select a memory name and press the [↵] button, a message is displayed. Select **Yes**, and then press the [↵] button to erase the selected memory.
Rename Memory	Changes the memory name. Select the memory name you want to change, and then press the [↵] button. Enter the memory name using the soft keyboard. ☛ "Soft keyboard operations" p.139 When you have finished, move the cursor over **Finish**, and then press the [↵] button.
Reset Memory	Resets the name and settings of a saved memory.

If the mark on the left of the memory name is turned blue, it means the memory has already been registered. When you select a registered memory, a message is displayed asking you to confirm that you want to overwrite the memory. If you select **Yes**, the previous settings are deleted and the current settings are registered.

Adjusting the Height of the Projected Image (for Normal Installment)

Extend or retract the front feet to make adjustments. You can adjust the position of the image by tilting the projector up to 10 degrees.

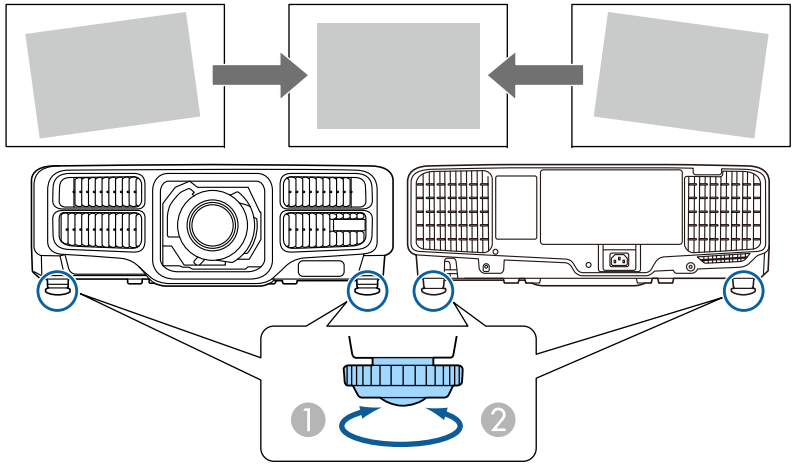


1. Extend the front feet.
2. Retract the front feet.

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

Adjusting the Horizontal Tilt (for Normal Installment)

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



1. Extend the front and rear feet.
2. Retract the front and rear feet.

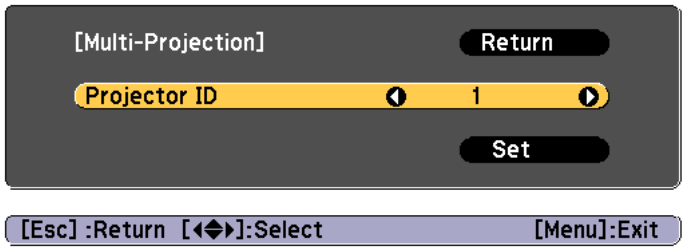
ID Settings

When an ID is set for the projector and the remote control, you can use the remote control to operate only the projector with a matching ID. This is very useful when managing multiple projectors. You can set up to 30 IDs.

- Operation using the remote control is possible only for projectors that are within the operating range of the remote control.
  ☛ "Remote control operating range" p.24
- When **Remote Control Type** is set to **Simple** in the configuration menu, you cannot set the remote control ID.
  ☛ **Extended** - **Operation** - **Advanced** - **Remote Control Type** p.133
- IDs are ignored when the projector ID is set to **Off** or the remote control ID is set to **0**.
- If you use Epson Web Control, you can operate a specific projector from a mobile device.
  ☛ "Changing Settings Using a Web Browser (Epson Web Control)" p.194

Set the projector ID

1. Press the [Menu] button while projecting.
   ☛ "Using the Configuration Menu" p.124
2. Select **Multi-Projection** from **Extended**.
3. Select **Projector ID**, and then press the [↵] button.
4. Press the [◀][▶] buttons to select an ID number.

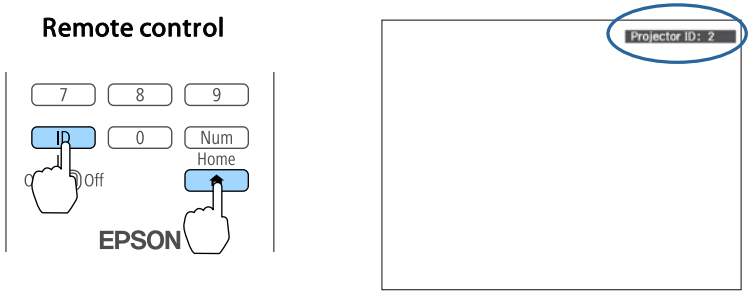


5 Select **Set**, and then press the [↵] button.

6 Press the [Menu] button to close the Configuration menu.

Checking the projector ID

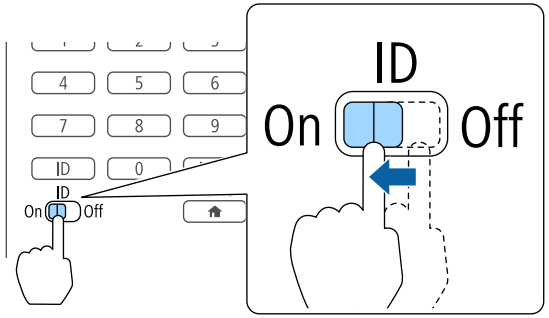
During projection, press the [⌂] button while holding down the [ID] button.



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

Setting the remote control ID

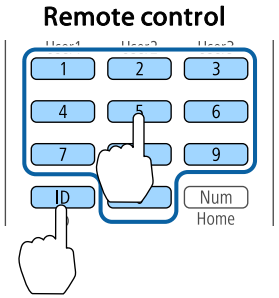
1 Set the remote control [ID] switch to On.



2 While holding the [ID] button, press a number button to select a number to match the ID of the projector you want to operate.

☛ "Checking the projector ID" p.41

Enter a two digit number (Example: 01 when the ID is 1).



Once this setting has been made, the projector that can be operated by the remote control is limited.

> The remote control ID setting is saved in the remote control. Even if the remote control batteries are removed to replace them and so on, the stored ID setting is retained. However, if the batteries are left out for a long time, it is reset to the default value (ID0).

Setting the Time

You can set the time for the projector. The set time is used for the schedule function.

☛ "Scheduling Function" p.113

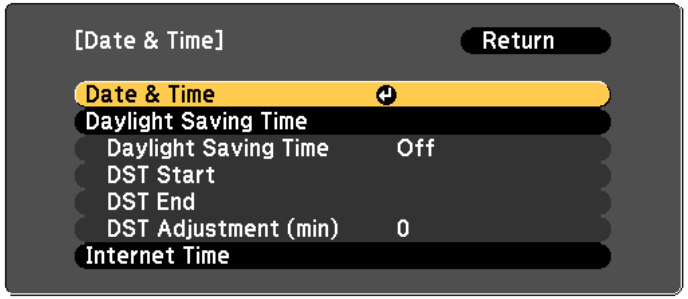
- When you turn on the projector for the first time, the message "Do you want to set the time?" is displayed. When you select **Yes**, the screen from step 4 is displayed.
- When **Schedule Protection** is set to **On** in **Password Protection**, settings related to the date and time cannot be changed. You can make changes after setting **Schedule Protection** to **Off**.
  ☛ "Managing Users (Password Protection)" p.117

1 Press the [Menu] button while projecting.
☛ "Using the Configuration Menu" p.124

2 Select **Operation** from **Extended**.

3 Select **Date & Time**, and then press the [↵] button.

4 Make settings for the date and time.
Use the soft keyboard to enter the date and time.
☛ "Soft keyboard operations" p.139



Date & Time

Submenu	Function
Date	Set today's date.
Time	Set the current time.
Time Difference (UTC)	Set the time difference from Coordinated Universal Time.
Set	The settings made in **Date & Time** are applied.

Daylight Saving Time

Submenu	Function
Daylight Saving Time	Set whether or not (**On**/**Off**) to activate the daylight saving time. **DST Adjustment (min)** adjusts the time difference between the standard time and 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.
Set	The settings made in **Daylight Saving Time** are applied.

Internet Time

Submenu	Function
Internet Time	Set to **On** to update the time automatically through an Internet time server.
Internet Time Server	Input the IP address for an Internet time server.
Set	The settings made in **Internet Time** are applied.

When changing settings, make sure you select **Set**, and then press the [↵] button.

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

Other Settings

Settings related to basic operations

Purpose	Setting Methods
To start/stop projection by turning on/off the main power or plugging in or unplugging the power plug of the projector.	Set **Direct Power On** to **On**. (Default value: **Off**) ☛ **Extended** - **Operation** - **Direct Power On** p.133 The projector can be powered off directly by the breaker because it supports the direct shutdown function.
To disable the automatic shutdown function.	Set **Sleep Mode** to **Off**. (Default value: **On**) ☛ **Extended** - **Operation** - **Sleep Mode** p.133 Set **A/V Mute Timer** to **Off**. ☛ **Extended** - **Operation** - **A/V Mute Settings** - **A/V Mute Timer** p.133
To disable buzzer beeps generated when the projector is powered on/off.	Set **Beep** to **Off**. (Default value: **On**) ☛ **Extended** - **Operation** - **Advanced** - **Beep** p.133
To operate the projector by communication command even when the power of the projector is off.	Set **Standby Mode** to **Communication On**. (Default value: **Communication Off**) ☛ **Extended** - **Standby Mode** p.133
To operate the projector by communication command while executing A/V Mute.	Set **A/V Mute Release** to **A/V Mute**. ☛ **Extended** - **Operation** - **A/V Mute Settings** - **A/V Mute Release** p.133 The default value is **Any Button**. If you operate the projector while A/V Mute is on, A/V Mute is released.
To turn off the power by pressing the [⏻] button once.	Set **Standby Confirmation** to **Off**. (Default value: **On**) ☛ **Extended** - **Display** - **Standby Confirmation** p.133

Settings related to display

Purpose	Setting Methods
To change the menu position.	Change the settings of **Menu Position**. ☛ **Extended** - **Display** - **Menu Position** p.133
To change the menu direction.	Change the settings of **OSD Rotation**. ☛ **Extended** - **Display** - **OSD Rotation** p.133
To prevent the display of menus, messages, or warnings on the screen.	Use **User Button** to set **On-Screen Display** to **User Button 1**, **User Button 2**, or **User Button 3**. ☛ **Settings** - **User Button** p.131 When you press the button for which **On-Screen Display** is assigned, menus or messages are not displayed on the screen. When the same button is pressed, they are displayed again. If **On-Screen Display** is enabled, you cannot operate the Configuration menu (except switching the color mode and input source).
To disable the display of the message on the projection screen when switching the source.	Set **Messages** to **Off**. (Default value: **On**) ☛ **Extended** - **Display** - **Messages** p.133 You can confirm warning by the display of the indicator. ☛ "Reading the Indicators" p.157 Dialogs related to operations and behaviors, laser warnings, termination of Message Broadcasting, and projector ID are displayed.
To reduce the display delay of the image.	Set **Image Processing** to **Fast 1** or **Fast 2**. ☛ **Signal** - **Advanced** - **Image Processing** p.129

Purpose	Setting Methods
To register and save the settings of the projected image.	Set **Memory**. ☛ "Memory Function" p.111 You can save the following settings. • **Memory**: Some settings in the Configuration menu • **Lens Position**: Adjustment values of the lens shift, zoom, focus, and distortion • **Geometry Correction**: Adjustment value of the geometry correction
To change the screen displayed on the background.	Change from **Display**. You can select from blue, black, and logo. If no logo is registered, the EPSON logo is displayed. **Display Background**: Set the screen display with no image signal input. (Default value: **Blue**) ☛ **Extended** - **Display** - **Display Background** p.133 **Startup Screen**: Set whether or not (**On**/**Off**) to display the user logo when the projector is turned on. (Default value: **On**) ☛ **Extended** - **Display** - **Startup Screen** p.133

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

Connecting a Computer

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

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

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

   You can output audio from the projector's speaker or Audio Out port by connecting the audio output port on the computer to the projector's Audio1 port using a commercially available audio cable.

2. **When using a commercially available 5BNC cable**

   Connect the computer's display output port to the projector's BNC port.

   You can output audio from the projector's speaker or Audio Out port by connecting the audio output port on the computer to the projector's Audio2 port using a commercially available audio cable.

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

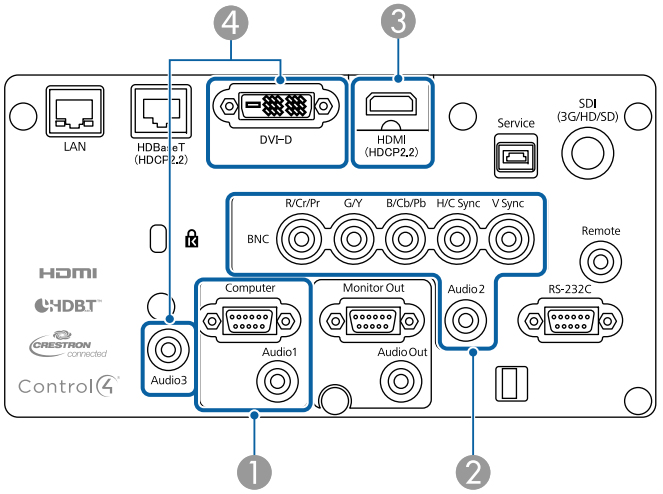
   Connect the HDMI port on the computer to the projector's HDMI port.

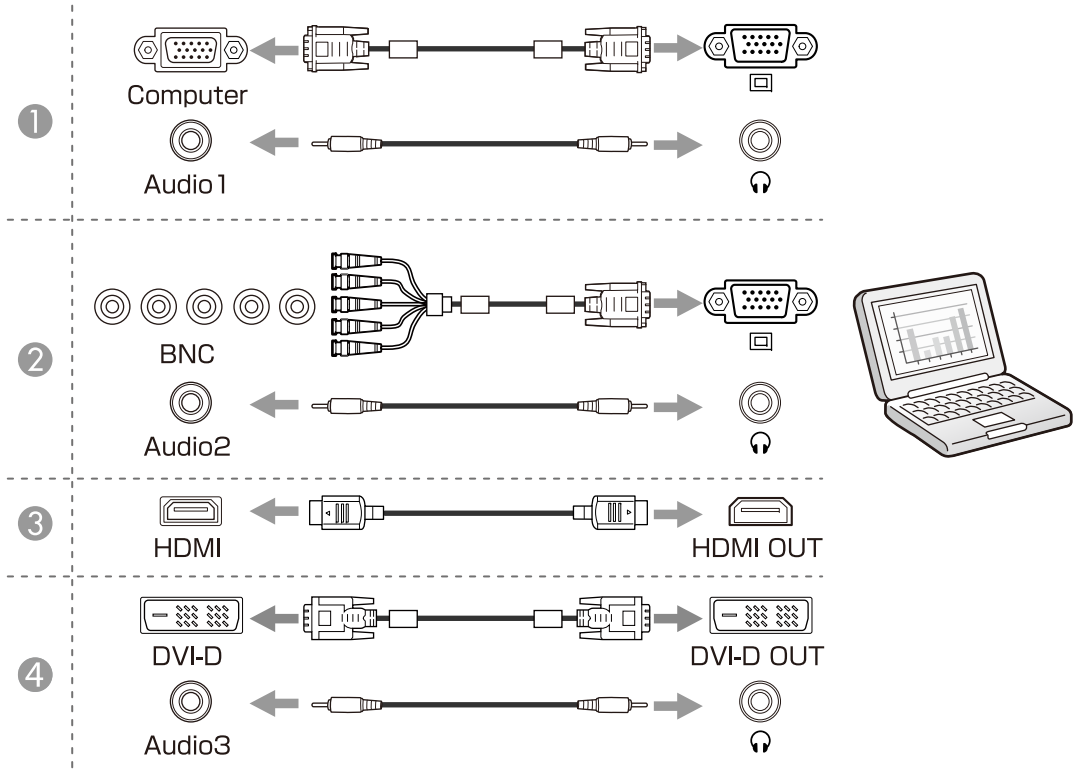
   You can send the computer's audio with the projected image.

4. **When using a commercially available DVI-D cable**

   Connect the DVI-D port on the computer to the projector's DVI-D port.

   You can output audio from the projector's speaker or Audio Out port by connecting the audio output port on the computer to the projector's Audio3 port using a commercially available audio cable.



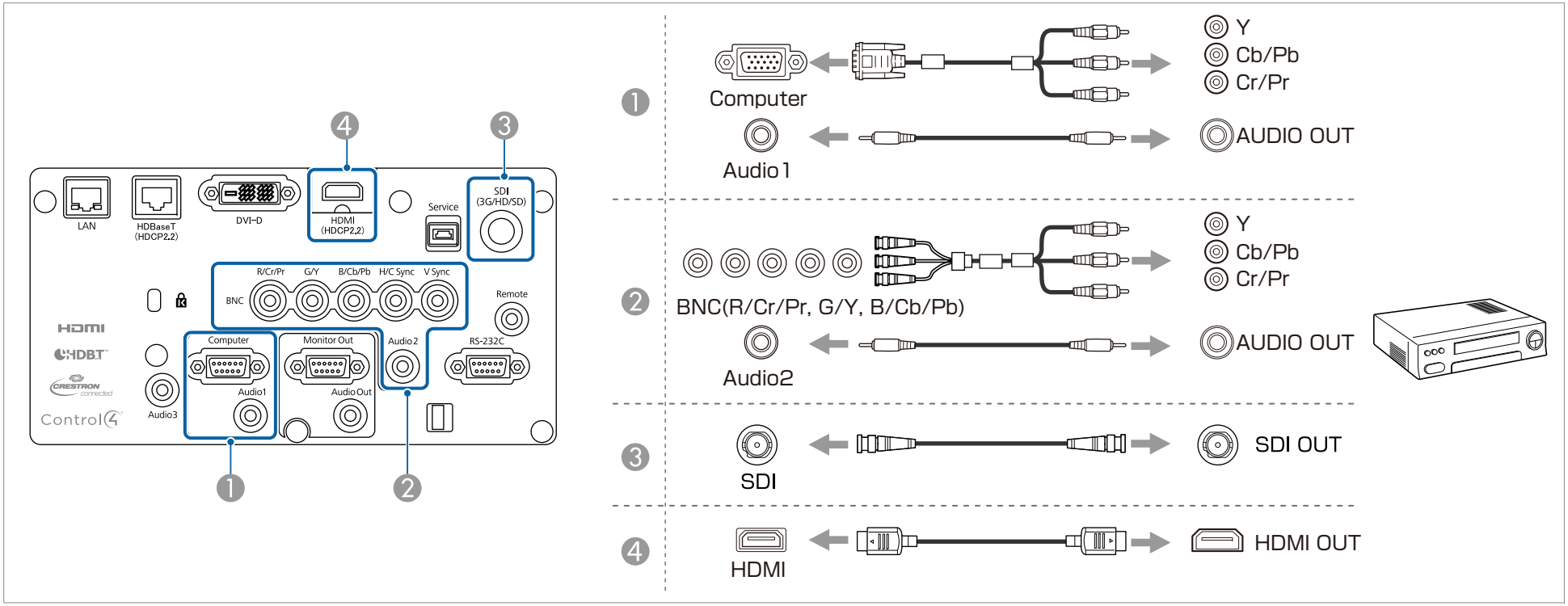


- Change the audio output from **Audio Settings**.
  ☛ **Extended** - **A/V Settings** - **Audio Settings** p.133
- If audio is not sent using an HDMI cable, connect a commercially available audio cable to the Audio3 port to send the audio. Set **HDMI Audio Output** to **Audio3**.
  ☛ **Extended** - **A/V Settings** - **Audio Settings** - **HDMI Audio Output** p.133

Connecting Image Sources

To project video images, connect to the projector using one of the following methods.

1. **When using an optional component video cable (D-sub/component converter)**
   ☛ "Optional Accessories" p.211
   Connect the component output port on the image source to the projector's Computer port.
   You can output audio from the projector's speaker or Audio Out port by connecting the audio output port on the video equipment to the projector's Audio1 port using a commercially available audio cable.
2. **When using a commercially available component video cable (RCA) and a BNC/RCA adapter**
   Connect the component output port on the video equipment to the projector's BNC port (R/Cr/Pr, G/Y, B/Cb/Pb).
   You can output audio from the projector's speaker or Audio Out port by connecting the audio output port on the video equipment to the projector's Audio2 port using a commercially available audio cable.
3. **When using a commercially available BNC video cable** (SDI input, EB-L1505U/EB-L1500U/EB-L1405U only)
   Connect the SDI port on the image source to the projector's SDI input port.
4. **When using a commercially available HDMI cable**
   Connect the HDMI port on the image source to the projector's HDMI port.
   You can send the image source's audio with the projected image.



Attention

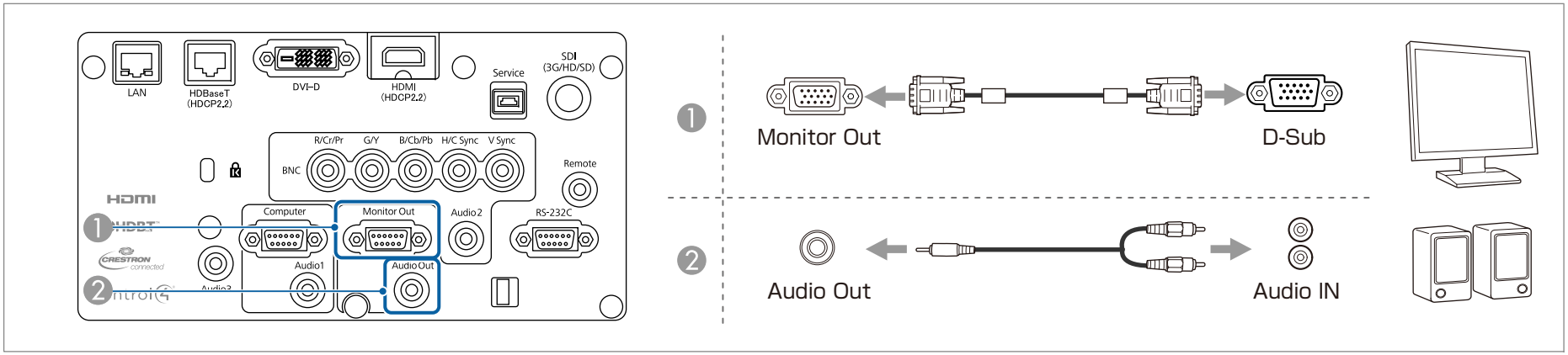
- If the input source is on when you connect it to the projector, it could cause a malfunction.
- If the orientation or shape of the plug differs, do not try to force it in. The device could be damaged or could malfunction.

- Change the audio output from **Audio Settings**.
  ☛ **Extended** - **A/V Settings** - **Audio Settings** p.133
- If audio is not sent using an HDMI cable, connect a commercially available audio cable to the Audio3 port to send the audio. Set **HDMI Audio Output** to **Audio3**.
  ☛ **Extended** - **A/V Settings** - **Audio Settings** - **HDMI Audio Output** p.133
- 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.

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.

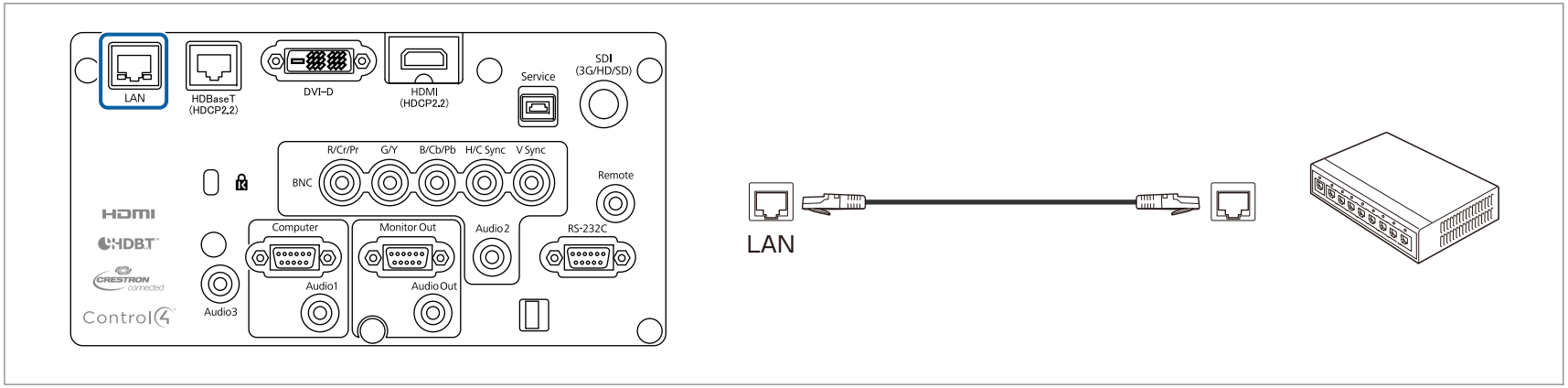


- Set **A/V Output** to **Always On** to output image even when the projector is in standby mode.
  ☛ **Extended** - **A/V Settings** - **A/V Output** p.133
- Only analog RGB signals from the Computer port or BNC port can be output to an external monitor. You can set which signals to output in **Monitor Out**.
  ☛ **Extended** - **A/V Settings** - **Monitor Out** p.133
- When the audio cable jack is inserted into the Audio Out port, audio stops being output from the projector's built-in speakers and switches to external output.

Connecting a LAN Cable

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

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

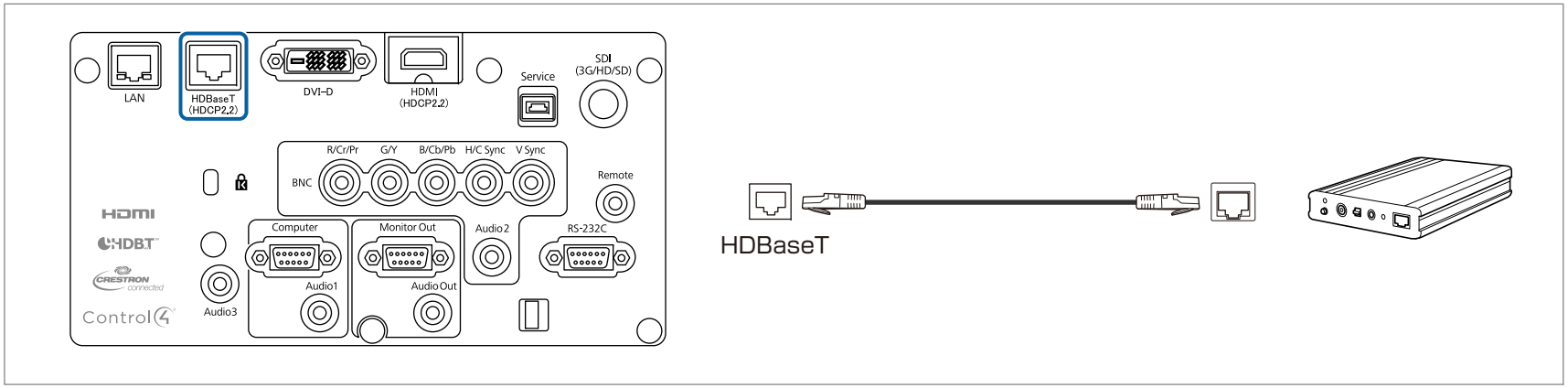


To prevent malfunctions, use a category 5 or higher shielded LAN cable.

Connecting an HDBaseT Transmitter

Connect the optional HDBaseT Transmitter with a commercially available 100BASE-TX LAN cable.

☛ "Optional Accessories" p.211



- Make sure you read the User's Guide supplied with the HDBaseT Transmitter carefully before use.
- For the LAN cable, use an HDBaseT Alliance-recommended STP cable (straight) of category 5e or higher. However, operation is not guaranteed for all input/output devices and environments.
- When connecting or disconnecting the LAN cable, make sure you turn off the power for the projector and the HDBaseT Transmitter.
- When performing Ethernet communication or serial communication, or when using the wired remote control via HDBaseT port, set **Control Communications** to **On** from the Configuration menu.

  ☛ **Extended** - **HDBaseT** - **Control Communications** p.133

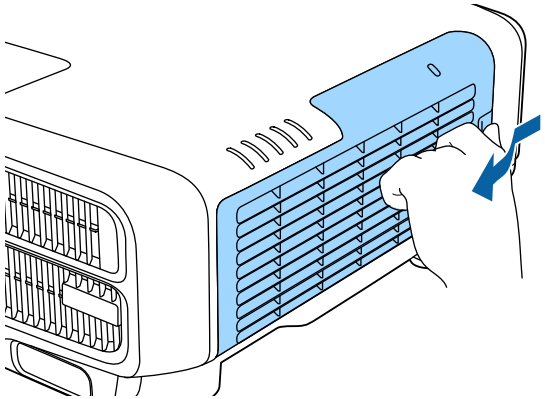
  Note that when **Control Communications** is set to **On**, the projector's LAN port, RS-232C port, and Remote port are disabled.
- When using the Extron XTP transmitter or switcher, connect to the projector's HDBaseT port. Set **Extron XTP** to **On** (**Standby Mode** and **Control Communications** are automatically set to **On**).

  ☛ **Extended** - **HDBaseT** - **Extron XTP** p.133

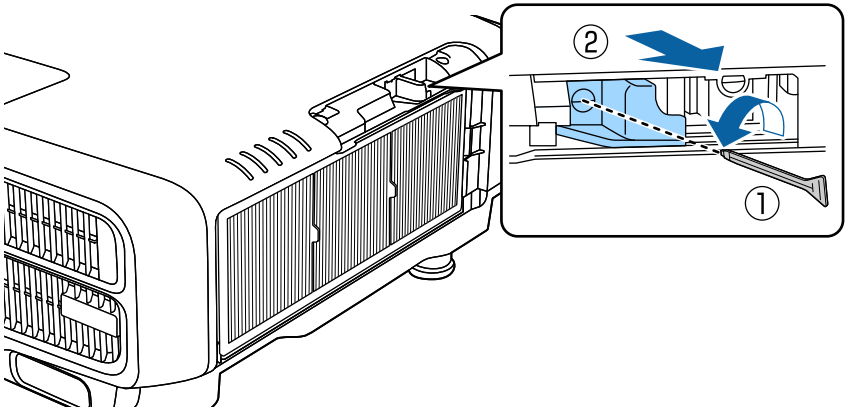
Installing the Wireless LAN Unit

1 Remove the air filter cover.

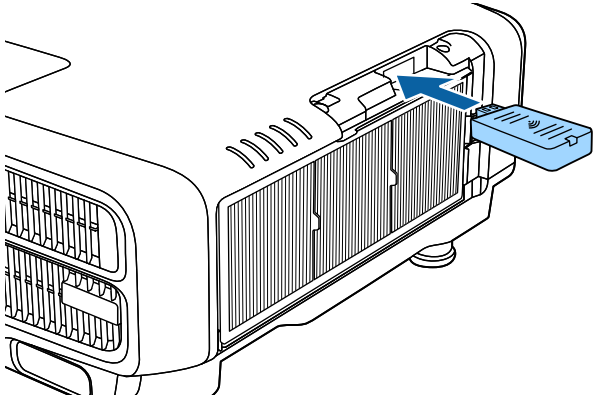
Grip the air filter cover tab between your fingers, and pull up and remove the cover while pressing the tab.



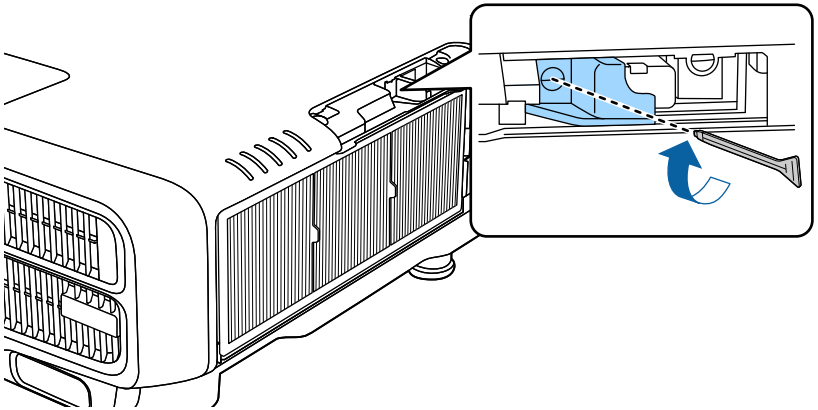
2 Remove the stopper for the Wireless LAN unit.



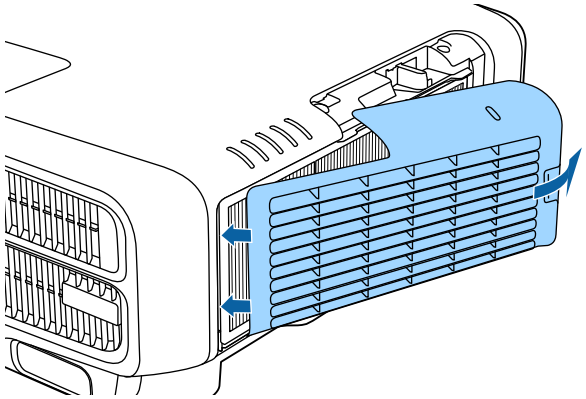
3 Install the Wireless LAN unit.



4 Secure the stopper with a screw.



5 Attach the air filter cover.



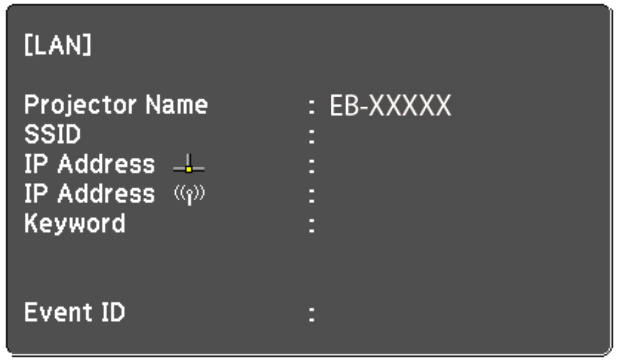
Using the Quick Wireless Connection USB Key

Connect the optional Quick Wireless Connection USB Key to the wireless LAN unit installation section. Check the following points when connecting a computer to the projector using wireless LAN.

- The wireless LAN unit (ELPAP10) is connected to the projector.
- The projector is setup to connect to the network using wireless LAN.
  ☛ "Wireless LAN menu" p.140

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

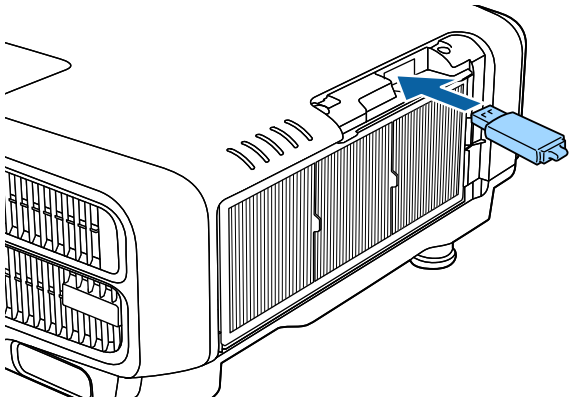
The following screen is displayed.



2 Check that the SSID and IP address information are displayed, and then remove the wireless LAN unit.

☛ "Installing the Wireless LAN Unit" p.52

3 Insert the Quick Wireless Connection USB Key in the wireless LAN unit installation section.



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

After removing the Quick Wireless Connection USB Key, reattach the wireless LAN unit.

5 Connect the Quick Wireless Connection USB Key to the computer.

From this point on, see the user's guide supplied with the Quick Wireless Connection USB Key.

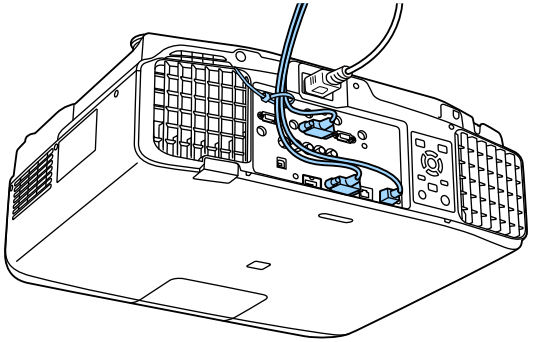
Attaching the Cable Cover

By attaching the cable cover, you can hide the connected cables giving a nice, clean finish to the projector installation. (The illustrations are of a projector installed on a ceiling.)

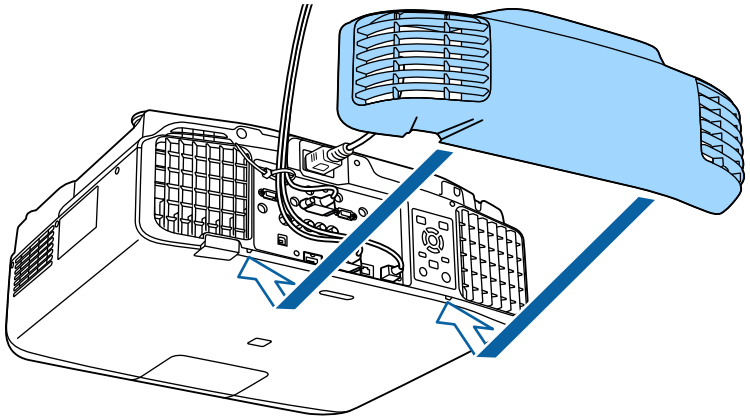
> **Warning**
>
> Do not tie the power cord and other connection cables together. Otherwise, it could cause a fire.

Attaching

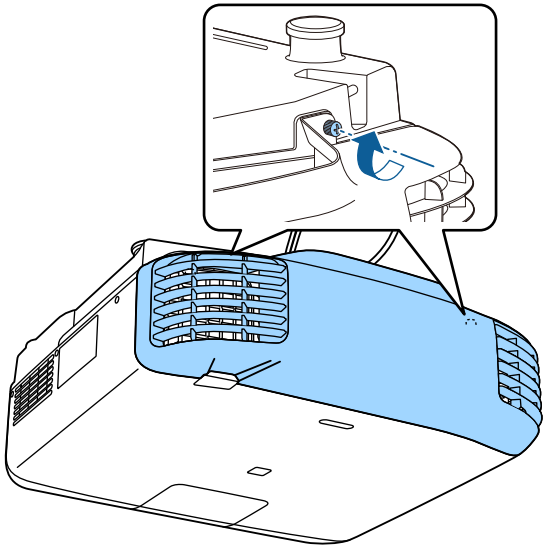
1 Run a commercially available cable tie through the cable holder and tie the cables together.



2 Insert the tabs on the cable cover into the two slots on the back of the projector.



3 Tighten the two screws on the cable cover. (You can tighten the screws with your fingers.)



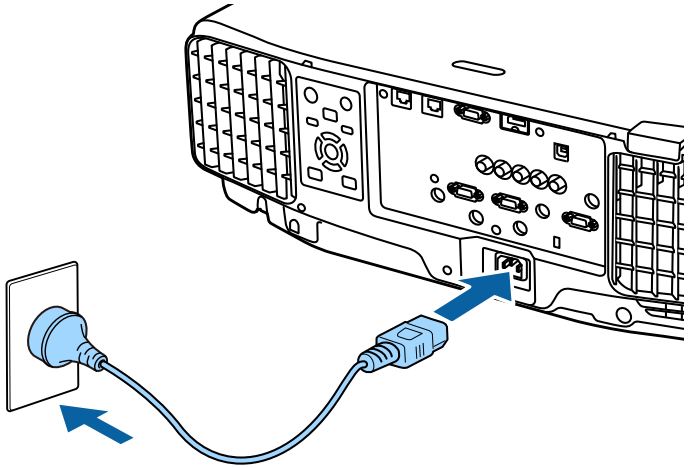
Basic Usage

This chapter explains how to project and adjust images.

Before turning on the projector, connect your computer or video equipment to the projector.

☛ "Connecting Equipment" p.45

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



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

2 Press the [⏻] button on the control panel or remote control to turn on the projector.

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

If the image is not projected, try the following.

- Turn on the connected computer or video equipment.
- When using a laptop computer, change the screen output of the computer.
- Insert media such as a DVD and play it back.
- Press the [Search] button on the control panel or the remote control to detect the input source.
- Press the button for the input source that you want to project by using the remote control.
- If the Home screen is displayed, select the input source that you want to project.

Warning

- Do not look into the projector's lens during projection. Doing so may damage your eyes. Be especially careful if children are present.
- During projection, do not block the light from the projector with a book and so on. If the light from the projector is blocked for a long time, the area on which the light shines becomes hot which could cause it to melt, burn, or start a fire. Also, the lens may get hot due to the reflected light which could cause the projector to malfunction. To stop projection, use the A/V Mute function or turn off the projector.

- If **Direct Power On** is set to **On** in the **Extended** menu, the projector automatically turns on when the power cord is connected to it. When the power cord is plugged in, note that the projector turns on automatically in cases such as recovery from a power outage.

  ☛ **Extended** - **Operation** - **Direct Power On** p.133

- If an image signal from the source selected in **Auto Power On** is input, the projector automatically turns on.

  ☛ **Extended** - **Operation** - **Auto Power On** p.133

Home Screen

You can use the Home screen to easily select input sources or frequently used functions. The Home screen is displayed in the following situations.

- When the [🏠] button on the remote control is pressed

- When the projector is turned on while **Home Screen Auto Disp.** is set to **On**
  ☛ **Extended** - **Home Screen** - **Home Screen Auto Disp.** p.133
- When there is no signal from the selected input source when the projector is turned on

When the Home screen is displayed, use the [▲][▼][◀][▶] buttons on the control panel or remote control to select an item, and then press the [↵] button.

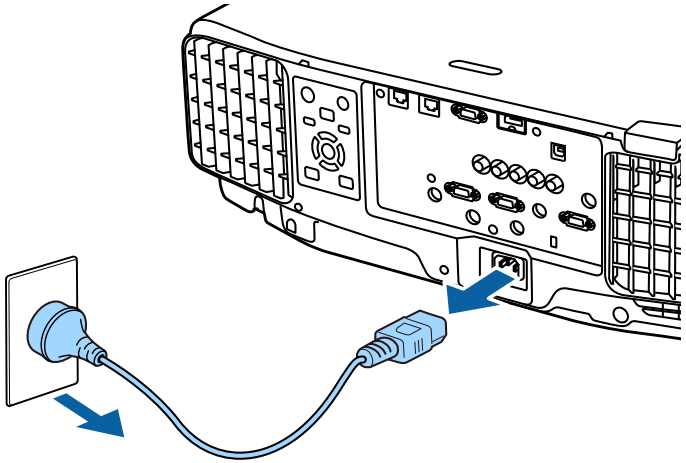
To hide the Home screen, press the [⌂] button on the remote control again.

1	Select the input source that you want to project.
2	Displays the QR code and projects the data of a smartphone or tablet.
3	Displays the Help screen. ☛ "Using the Help" p.155
4	Displays the Configuration menu.
5	Executes the function assigned to **Custom Function 1** or **Custom Function 2** in the **Extended** menu. ☛ **Extended** - **Home Screen** - **Custom Function 1**, **Custom Function 2** p.133
6	Select Light Source Mode. ☛ "Setting the Brightness" p.74
7	Select Color Mode. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.74

The Home screen disappears after 10 minutes of inactivity.

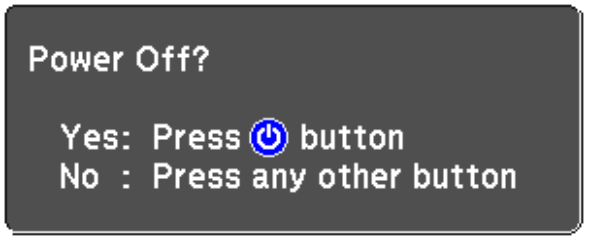
- To ensure a long projector service life, turn off the projector when you are not using it. The light source's operating life varies depending on the Configuration menu settings, environmental conditions, and usage conditions. The brightness of the projected image drops as projection time elapses.
- The projector can be powered off directly by the breaker because it supports the direct shutdown function.
- When the projector is used continuously for more than 24 hours, or when direct shutdown is used regularly, set **Light Source Calibration** using the scheduling function to adjust the light source periodically.

☛ "Scheduling Function" p.113



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

The shutdown confirmation screen is displayed.



2 Press the [⏻] button again. (To cancel, press any other button.)

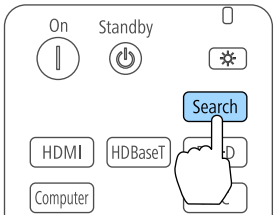
After the buzzer beeps twice, the projected image disappears, and the status indicator turns off.

3 Disconnect the power cord.

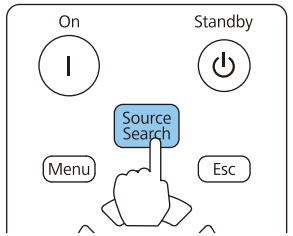
Automatically Detecting Input Signals and Changing the Projected Image (Source Search)

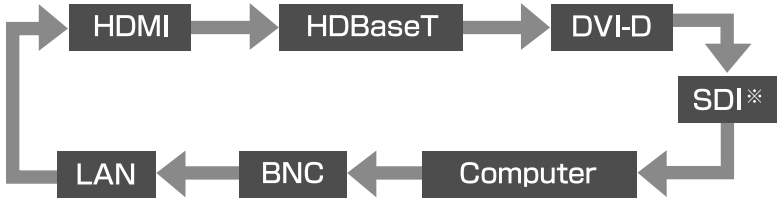
Press the [Search] button to project images from the port currently receiving an image.

Using the remote control



Using the control panel



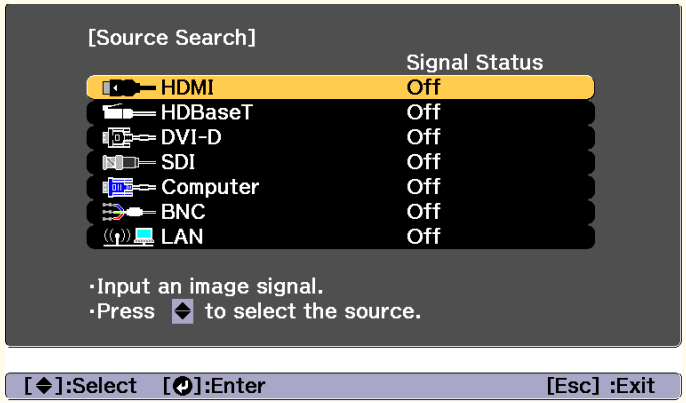


* EB-L1505U/EB-L1500U/EB-L1405U only

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

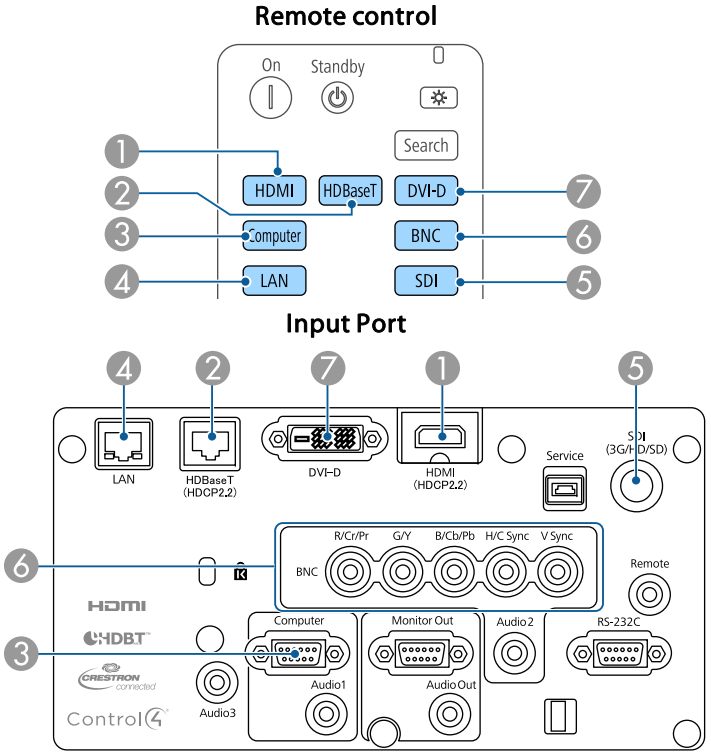
When your video equipment is connected, start playback before beginning this operation.

- You can set up the projector so that it automatically detects an image signal from another input source and projects the image when there is no image signal from the current input source.
  ☛ **Extended - Operation - Auto Source Search** p.133
- The following screen is displayed while no image signals are input.



Switching to the Target Image by Remote Control

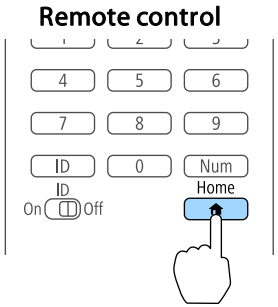
- Press the button of the input source that you want to project. The input ports for the buttons are shown below.



4 Changes to images from a computer connected via the network.

5 For EB-L1505U/EB-L1500U/EB-L1405U only

- Press the [⌂] button.



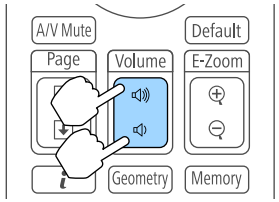
Select the input source to be projected, and then press the [↵] button.

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

Remote control



- Adjust the volume from the Configuration menu.
  ☛ **Settings** - **Volume** p.131

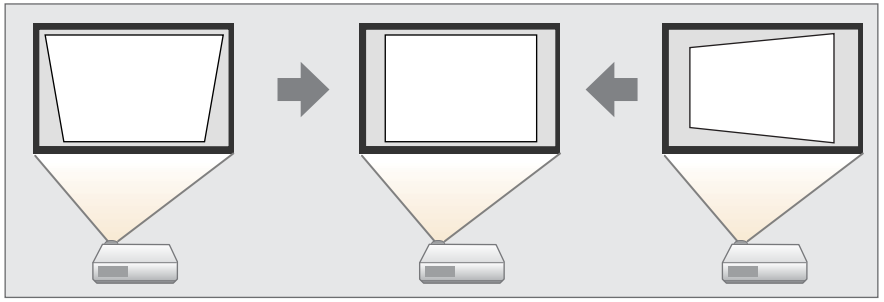
⚠ Caution

Do not start at high volume.
A sudden excessive volume may cause loss of hearing. Always lower the volume before powering off, so that you can power on and then gradually increase the volume.

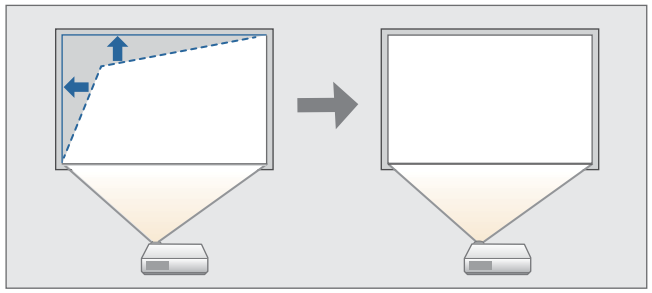
Correcting Distortion in the Projected Image

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

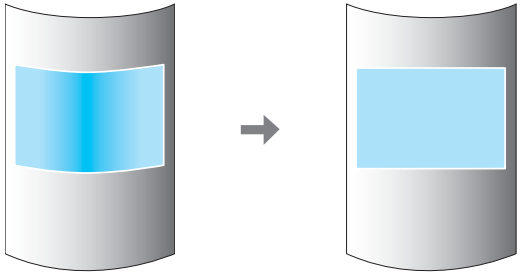
- H/V-Keystone
  This allows you to correct distortion in the horizontal and vertical directions independently.
  ☛ "H/V-Keystone" p.63



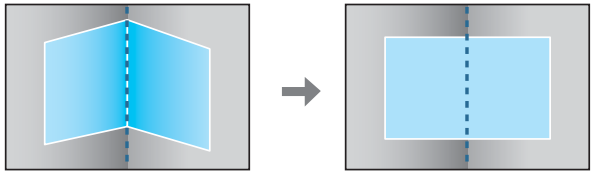
- Quick Corner
  Correct the four corners independently.
  ☛ "Quick Corner" p.64



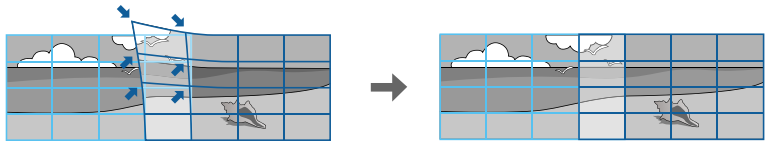
- Curved Surface
  Correct distortion that occurs when projecting on a curved surface, and adjust the amount of expansion and contraction.
  ☛ "Curved Surface" p.65



- Corner Wall
  This allows you to correct distortion that occurs when projecting on a surface with right angles, such as a square pillar or the corner of a room, and adjust the amount of expansion and contraction.
  ☛ "Corner Wall" p.69



- Point Correction
  Corrects slight distortion which occurs partially, or adjusts the image position in an overlapping area when projecting from multiple projectors.
  ☛ "Point Correction" p.72



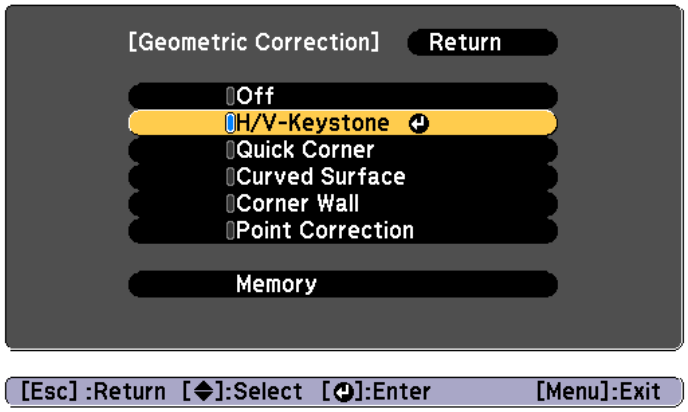
- By pressing the [Geometry] button on the remote control or the [ ] button on the control panel, you can perform the selected adjustment method directly.
- When you want to re-adjust the projection position and so on, if you want to release the correction status temporarily, set the **Geometry Correction** to **Off**. Even when it is set to **Off**, the correction values are saved.
  ☛ **Settings - Geometry Correction** p.131
- You can save the geometry correction settings using **Memory** in **Geometry Correction**, and load them when needed.
  ☛ "Memory Function" p.111

H/V-Keystone

This allows you to correct distortion in the horizontal and vertical directions independently.

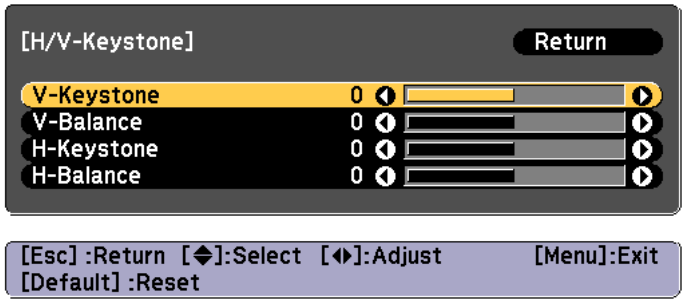
Use the following to check the adjustment range for the image.
☛ "H/V-Keystone" p.229

1. Press the [Menu] button while projecting.
2. Select **Geometry Correction** from **Settings**.
3. Select **H/V-Keystone**, and then press the [↵] button.

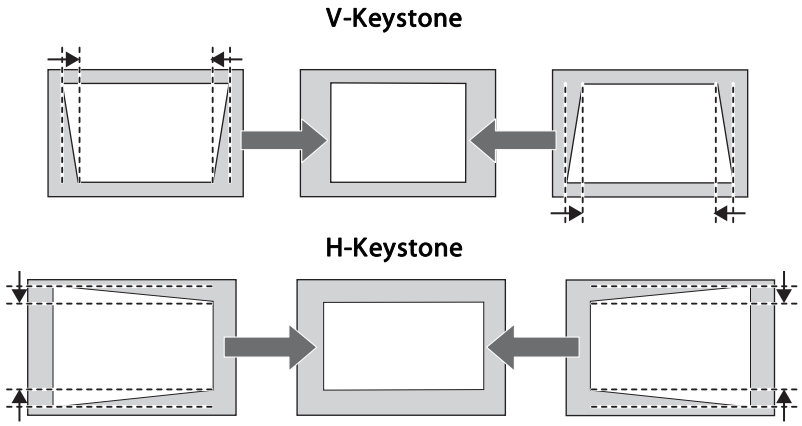


"If this setting is changed, the image may be distorted." is displayed, press the [↵] button again.

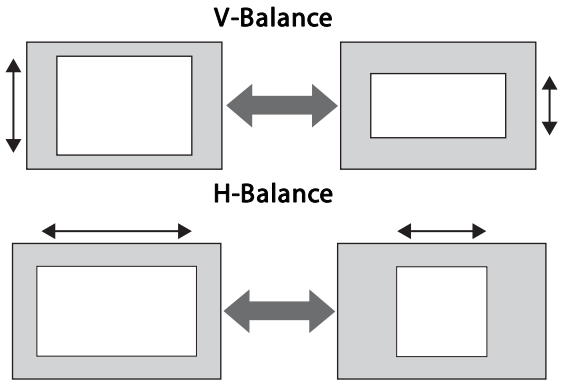
4. Use the [▲][▼] buttons to select the correction method, and then use the [◀][▶] buttons to make the corrections.



Correct the keystone distortion by using **V-Keystone** and **H-Keystone**.



If the image aspect is incorrect, adjust the image balance by using **V-Balance** and **H-Balance**.



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

5 To complete the corrections, press the [Menu] button.

You cannot combine with other correction methods.

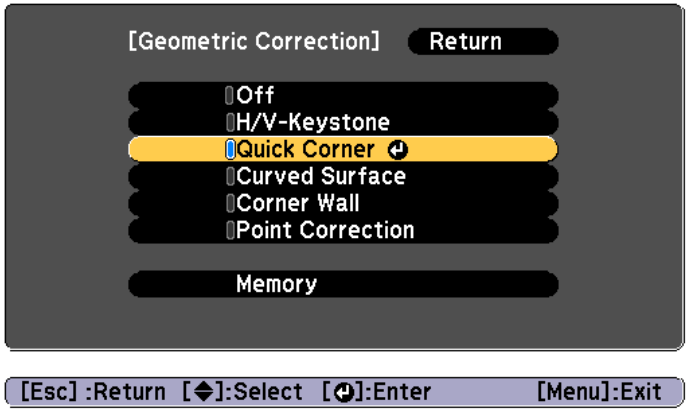
Quick Corner

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

1 Press the [Menu] button while projecting.

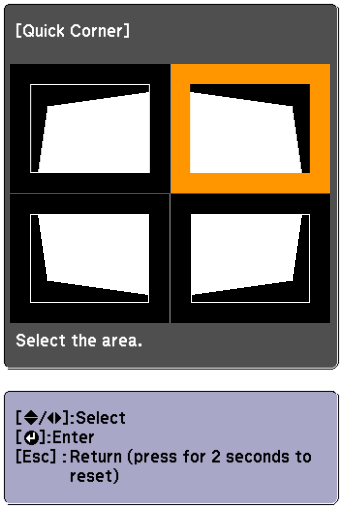
2 Select **Geometry Correction** from **Settings**.

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



"If this setting is changed, the image may be distorted." is displayed, press the [↵] button again.

4 Use the [▲], [▼], [◀], and [▶] buttons to select the corner you want to adjust, and then press the [↵] button.



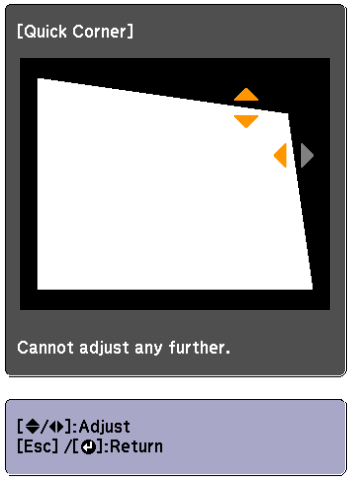
If the [Esc] button is pressed for approximately two seconds, the confirm default reset screen is displayed.

Select **Yes** to reset the result of Quick Corner corrections.

5 Use the [▲], [▼], [◀], and [▶] buttons to correct the position of the corner.

When you press the [⏎] button, the screen shown in step 4 that allows you to select the area to be corrected 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 steps 4 and 5 as needed to adjust any remaining corners.

7 To complete the corrections, press the [Menu] button.

Curved Surface

This allows you to correct distortion that occurs when projecting on a curved surface, and adjust the amount of expansion and contraction.

Face the projector directly opposing the screen with the lens position moved to the home position.

☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33

- Project onto an arc surface with the same radius.
- If a large amount of adjustment is performed, the focus may not be uniform even after making adjustments.
- If **4K Enhancement** is enabled, a message is displayed. Select **Yes** to disable **4K Enhancement**.

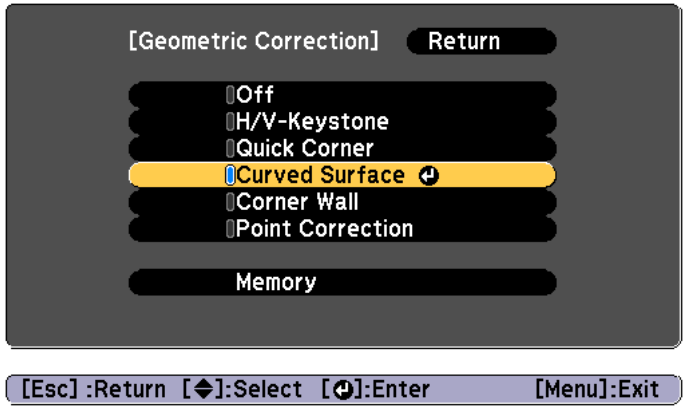
  ☛ **Image** - **Image Enhancement** - **4K Enhancement** p.127

Use the following to check the adjustment range for the image.
☛ "Curved Surface" p.229

1 Press the [Menu] button while projecting.

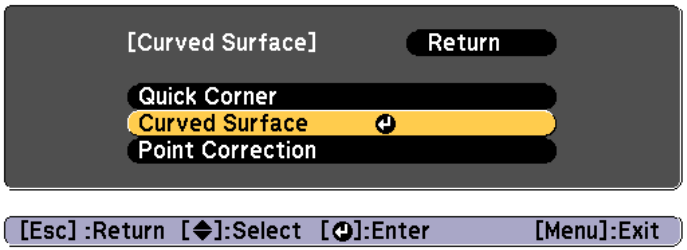
2 Select **Geometry Correction** from **Settings**.

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

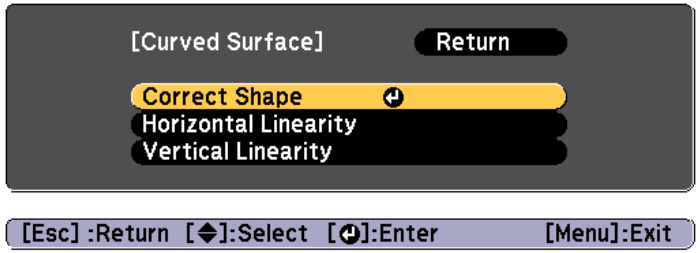


"If this setting is changed, the image may be distorted." is displayed, press the [↵] button again.

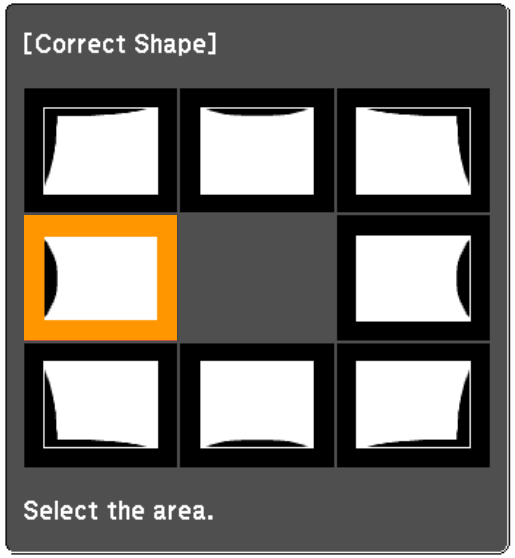
4 Select **Curved Surface**, and then press the [↵] button.



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



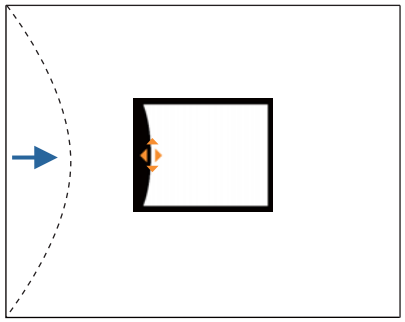
6 Use the [▲], [▼], [◀], and [▶] buttons to select the area you want to adjust, and then press the [↵] button.



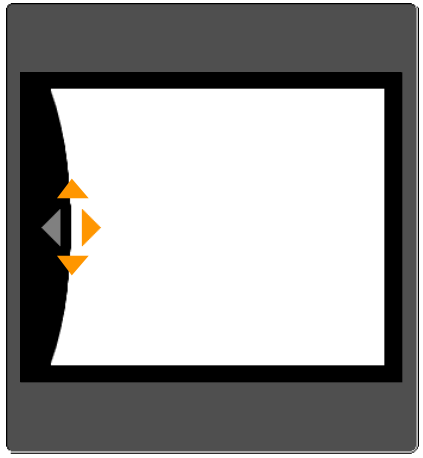
When selecting a corner, you can adjust the two sides next to the corner.

> If the [Esc] button is pressed for approximately two seconds, the confirm default reset screen is displayed.
>
> Select **Yes** to reset the result of Curved Surface.

7 Use the [▲], [▼], [◀], and [▶] buttons to adjust the shape.



If the triangle in the direction you are adjusting the shape turns gray, as shown in the screenshot below, you cannot adjust the shape any further in that direction.

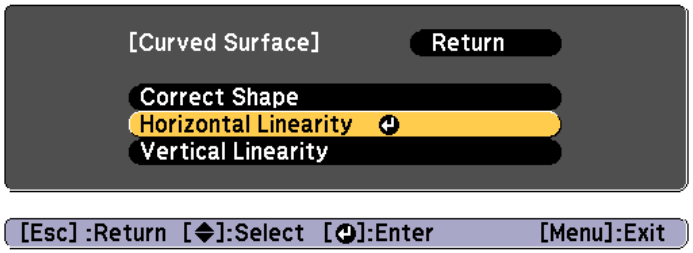


8 Press the [Esc] button to return to the previous screen.

9 Repeat steps from 6 to 8 as needed to adjust any remaining parts.

If the image expands or contracts, go to the next step and adjust the linearity.

10 Press the [Esc] button to display the screen from step 5. Select **Horizontal Linearity** or **Vertical Linearity**, and then press the [↵] button.



Select **Horizontal Linearity** to adjust the horizontal expansion or contraction, and select **Vertical Linearity** to adjust the vertical expansion or contraction.

11 Select the standard line for the adjustments, and then press the [↵] button.

Press the [◀][▶] buttons when selecting **Horizontal Linearity**, and the [▲][▼] buttons when selecting **Vertical Linearity**, and then press [↵].

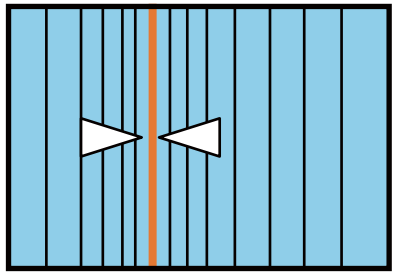
The selected standard line is displayed in flashing orange and white.

12 Adjust the linearity.

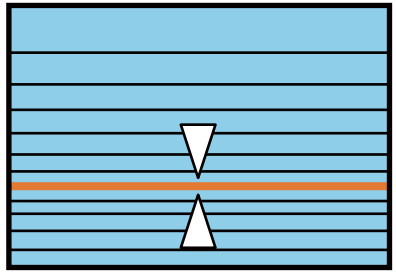
Correct it so that the distance between lines is equal.

When pressing the [◀] button

When **Horizontal Linearity** is selected

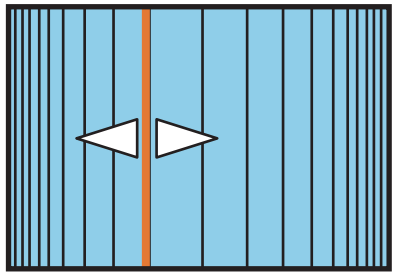


When **Vertical Linearity** is selected

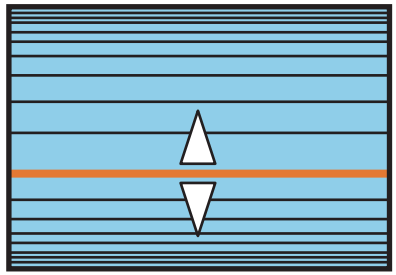


When pressing the [▶] button

When **Horizontal Linearity** is selected



When **Vertical Linearity** is selected



13 To complete the corrections, press the [Menu] button.

You can fine tune the corrected results. Use **Quick Corner** to adjust the tilt of the image, and then use **Point Correction** for fine tuning. Select **Quick Corner** or **Point Correction** on the screen from step 4.

☛ "Quick Corner" p.64
☛ "Point Correction" p.72

Corner Wall

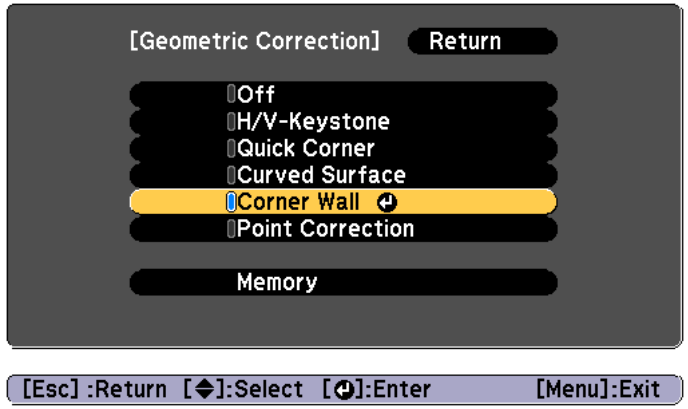
This allows you to correct distortion that occurs when projecting on a surface with right angles, such as a square pillar or the corner of a room, and adjust the amount of expansion and contraction.

Face the projector directly opposing the screen with the lens position moved to the home position.
☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33

- Project onto a surface with a right angle.
- If a large amount of adjustment is performed, the focus may not be uniform even after making adjustments.
- If **4K Enhancement** is enabled, a message is displayed. Select **Yes** to disable **4K Enhancement**.
  ☛ **Image - Image Enhancement - 4K Enhancement** p.127
- This is not available for ELPLX01.

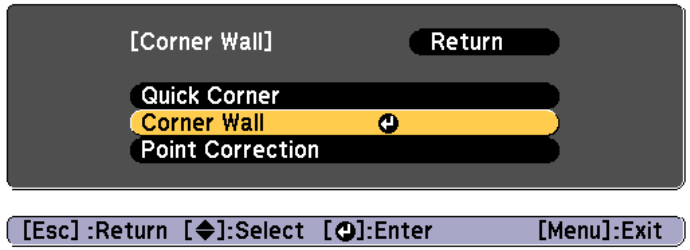
Use the following to check the adjustment range for the image.
☛ "Corner Wall" p.234

1. Press the [Menu] button while projecting.
2. Select **Geometry Correction** from **Settings**.
3. Select **Corner Wall**, and then press the [↵] button.

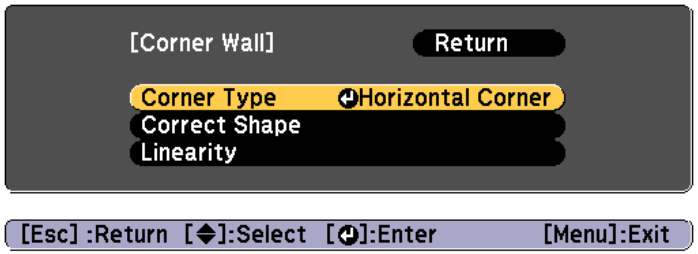


"If this setting is changed, the image may be distorted." is displayed, press the [↵] button again.

4. Select **Corner Wall**, and then press the [↵] button.



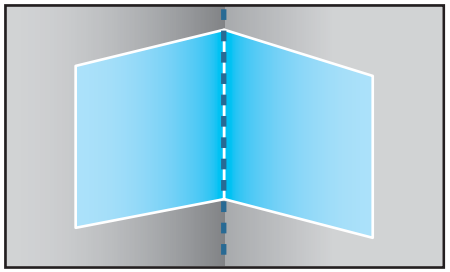
5. Select **Corner Type**, and then press the [↵] button.



6 According to the projection area, select **Horizontal Corner** or **Vertical Corner**, and then press the [↵] button.

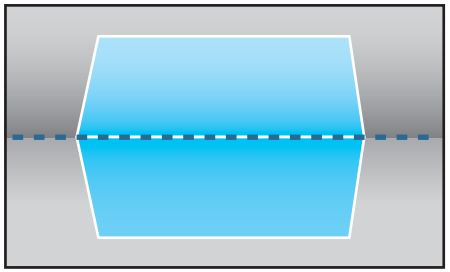
When the surfaces line up horizontally:

Select **Horizontal Corner**.



When the surfaces line up vertically:

Select **Vertical Corner**.

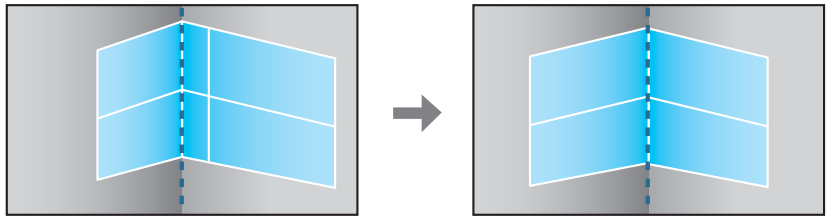


From here on, steps are explained using **Horizontal Corner** as an example.

7 Press the [Esc] button to display the screen from step 5. Select **Correct Shape**, and then press the [↵] button.

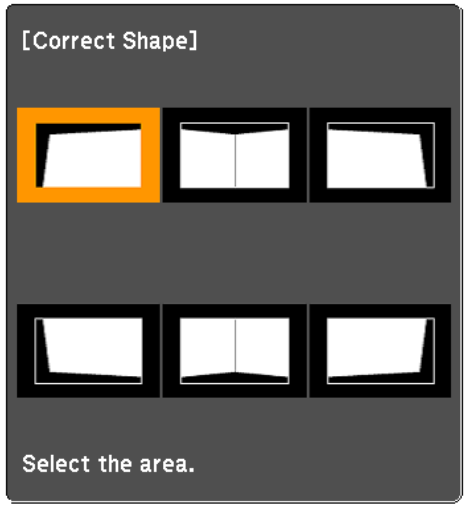
8 Adjust the position of the projector and the lens shift so that the line in the center of the screen matches the corner (the point where the two surfaces meet).

☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33



Each time you press the [↵] button, you can show or hide the image and the grid.

9 Use the [▲], [▼], [◀], and [▶] buttons to select the area you want to adjust, and then press the [↵] button.

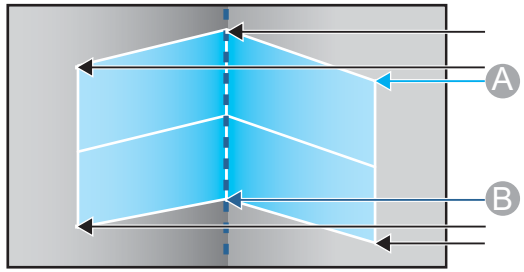


Adjustment tips

When **Horizontal Corner** is selected:

Adjust the upper area based on the lowest point (indicated by the Ⓐ arrow).

Adjust the lower area based on the highest point (indicated by the Ⓑ arrow).



When **Vertical Corner** is selected:

Adjust the left and right based on the point nearest to the vertical line in the center of the screen.

> If the [Esc] button is pressed for approximately two seconds, the confirm default reset screen is displayed.
>
> Select **Yes** to reset the result of **Corner Wall**.

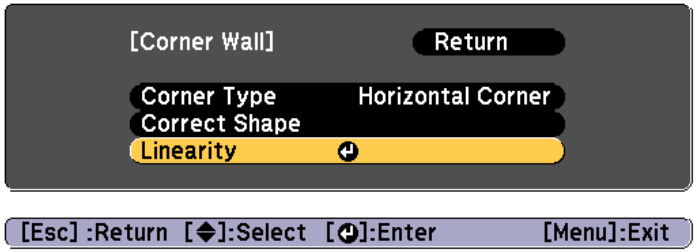
10 Press the [▲][▼][◀][▶] buttons to adjust the shape.

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.

11 Repeat steps 9 and 10 as needed to adjust any remaining parts.

If the image expands or contracts, go to the next step and adjust the linearity.

12 Press the [Esc] button to display the screen from step 4. Select **Linearity**, and then press the [↵] button.

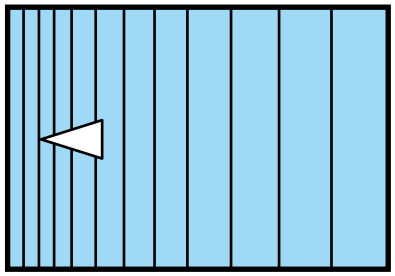


13 Press the [◀][▶] buttons to adjust the linearity.

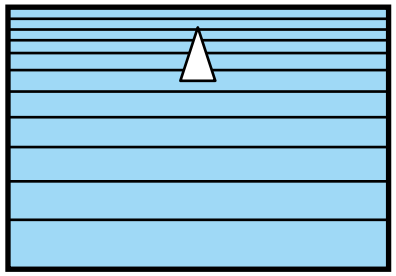
Correct it so that the distance between lines is equal.

When pressing the [◀] button

When **Horizontal Corner** is selected

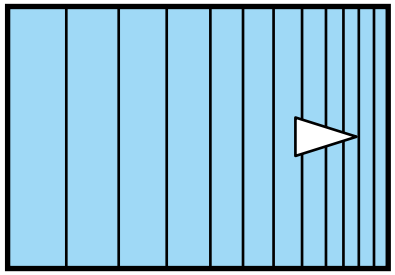


When **Vertical Corner** is selected

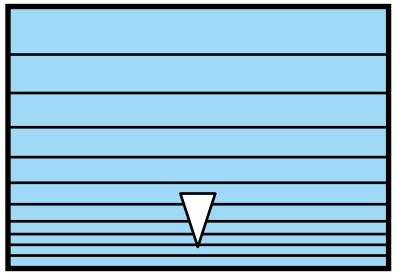


When pressing the [▶] button

When **Horizontal Corner** is selected



When **Vertical Corner** is selected



14 To complete the corrections, press the [Menu] button.

> You can fine tune the corrected results. Use **Quick Corner** to adjust the tilt of the image, and then use **Point Correction** for fine tuning. Select **Quick Corner** or **Point Correction** on the screen from step 4.
>
> ☛ "Quick Corner" p.64
> ☛ "Point Correction" p.72

Point Correction

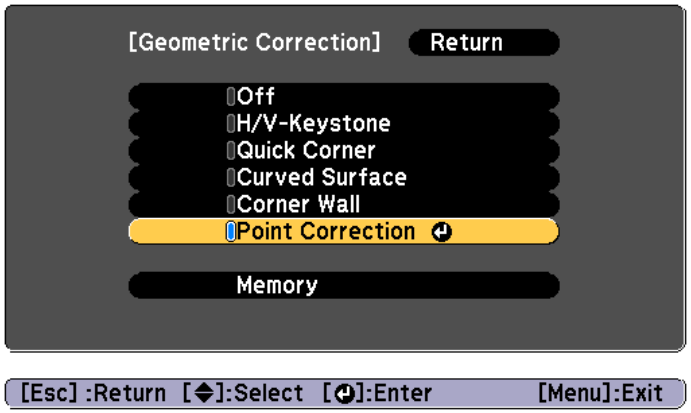
Divides the projected image by the grid and corrects the distortion by moving the point of intersection from side to side and up and down.

> - You can make corrections by 0.5 pixels in each direction up to a maximum of 32 pixels.
> - If **4K Enhancement** is enabled, a message is displayed. Select **Yes** to disable **4K Enhancement**.
>
> ☛ **Image - Image Enhancement - 4K Enhancement** p.127

1 Press the [Menu] button while projecting.

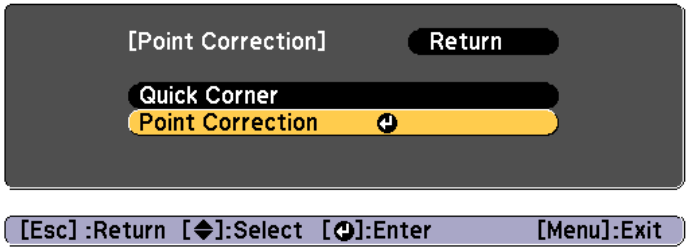
2 Select **Geometry Correction** from **Settings**.

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

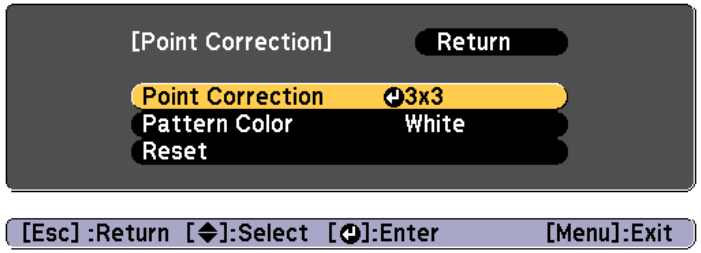


"If this setting is changed, the image may be distorted." is displayed, press the [↵] button again.

4 Select **Point Correction**, and then press the [↵] button.



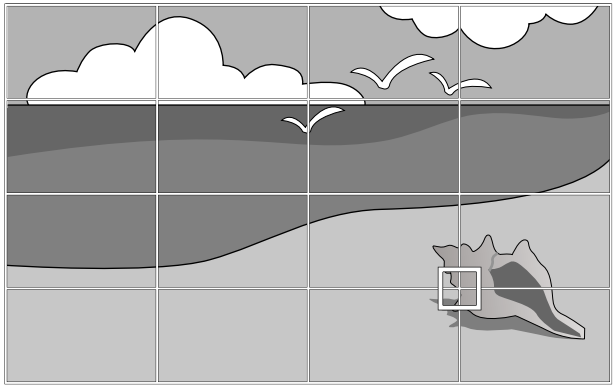
5 Select **Point Correction**, and then press the [↵] button.



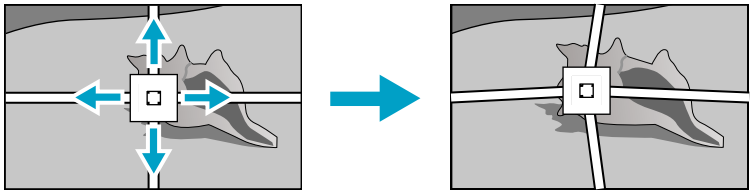
Point Correction	Select the point number (**3x3**, **5x5**, **9x9**, **17x17**), and then make the Point Correction setting.
Pattern Color	Select the color of the grid when performing corrections.
Reset	Resets all corrections for **Point Correction** to their default values.

6 Select the point number (**3x3**, **5x5**, **9x9**, or **17x17**), and then press the [↵] button.

7 Use the [▲], [▼], [◀], and [▶] buttons to move to the point you want to correct, and then press the [↵] button.



8 Use the [▲], [▼], [◀], and [▶] buttons to correct distortion.



To continue to correct another point, press the [Esc] button to return to the previous screen, then repeat the steps 7 and 8.

> Each time you press the [↵] button, you can show or hide the image and the grid.

9 To complete the corrections, press the [Menu] button.

You can fine tune the corrected results. Select **Quick Corner** on the screen from step 4 to adjust the tilt of the image.

☛ "Quick Corner" p.64

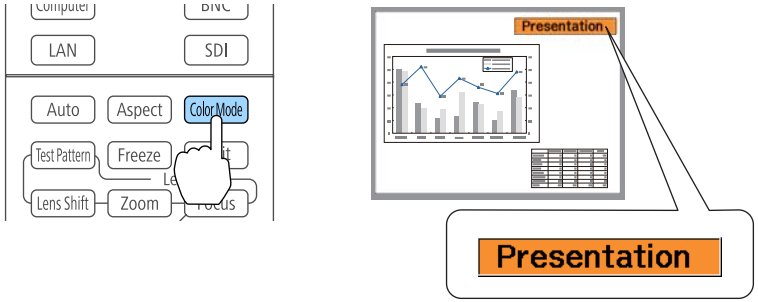
Selecting the Projection Quality (Selecting Color Mode)

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	This is the brightest mode. Ideal for use in a bright room.
Presentation	The images are vivid and brought to life. Ideal for making presentations or watching a TV program in a bright room.
Cinema	Gives images a natural tone. Ideal for watching films in a dark room.
sRGB	This produces the images that conform to the sRGB color standard and the colors are reproduced faithfully. Ideal for projecting still pictures such as photos.
DICOM SIM	This produces images with clear shadows. Ideal for projecting X-ray photographs and other medical images. The projector is not a medical device and cannot be used for medical diagnosis.
Multi-Projection	Minimize the color tone difference between each projected image. Ideal for projecting from multiple projectors.

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

Remote control



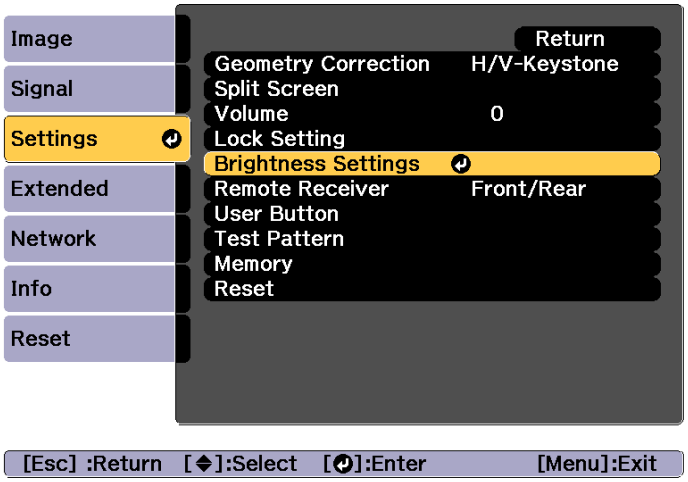
You can set Color Mode from the Configuration menu.

☛ **Image - Color Mode** p.127

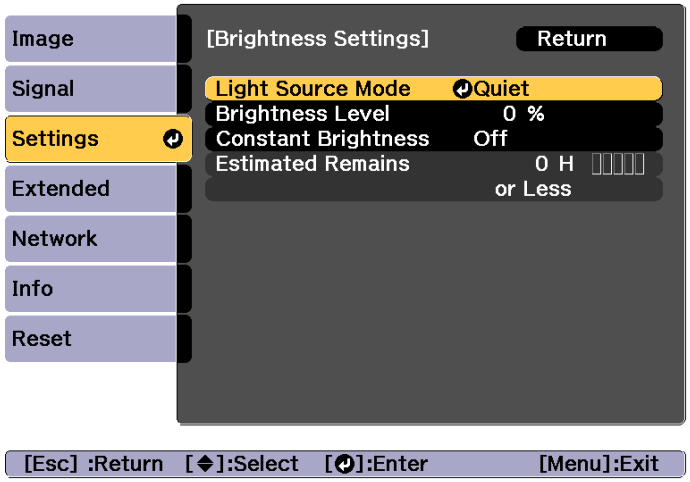
Setting the Brightness

Set the brightness for the light source.

1. Press the [Menu] button while projecting.
2. Select **Brightness Settings** from **Settings**.



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



4 Select the item you want to set, and then press the [↵] button.

Normal: Select this if you do not want to decrease the brightness. This makes the target usage time approximately 20,000 hours.

Quiet: Select this if you are concerned about the noise made by the fan, This sets the brightness at 70%. This makes the target usage time approximately 20,000 hours.

Extended: Select this to extend the life expectancy of the light source. This sets the brightness at 70%. This makes the target usage time approximately 30,000 hours.

Custom: Select this to set the **Brightness Level** manually. When **Custom** is selected, **Constant Brightness** is available.

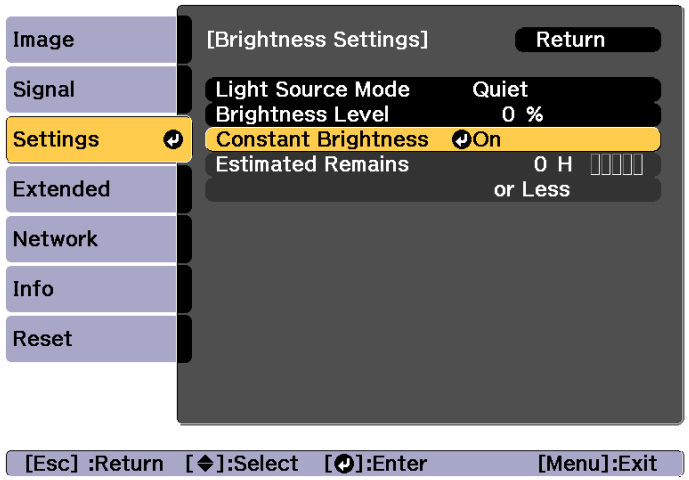
5 When **Light Source Mode** is set to **Custom**, select **Brightness Level**, and then use the [◀][▶] buttons to set the brightness.

6 To maintain a fixed brightness, select **Constant Brightness**, and set it to **On**.

- When **Constant Brightness** is set to **On**, you cannot change the settings for **Light Source Mode** and **Brightness Level**. When you want to change these settings, set **Constant Brightness** to **Off**.
- When **Constant Brightness** is set to **Off**, the value for **Brightness Level** changes depending on the current status of the light source.
- There may be a margin of error in the **Brightness Level**.
- When the projector is used continuously for more than 24 hours, or when direct shutdown is used regularly, set **Light Source Calibration** using the scheduling function. If this is not set, the Constant Brightness function does not work.
  ☛ "Scheduling Function" p.113

Guide to Estimated Remains

When **Constant Brightness** is set to **On**, the Estimated Remains is displayed. Estimated Remains indicates the amount of time for which constant brightness can be maintained.



Display Level	Estimated Remains
▮▮▮▮▮	10,000 hours or more
▮▮▮▮▮	8,000 to 9,999 hours
▮▮▮▮▮	6,000 to 7,999 hours
▮▮▮▮▮	4,000 to 5,999 hours
▮▮▮▮▮	2,000 to 3,999 hours
▮▮▮▮▮	0 to 1,999 hours

The time displayed on the screen is just a guide. 30,000 hours or more is displayed in units of 10,000; 2,000 to 29,999 hours is displayed in units of 1,000; and up to 1,999 hours is displayed in units of 100.

Relationship between Brightness Level and usage time

The following shows the relationship between Brightness Level and usage time.

Make settings according to your desired usage time and the brightness of the projected image.

When Constant Brightness is set to Off

❶: Brightness Level

❷: Approximate time until light source brightness is reduced by half

❶	❷	Illustration
100%	20,000 hours	❶×1/2 ❷
90%	21,000 hours	
80%	24,000 hours	
70%	30,000 hours	
60%	37,000 hours	
50%	47,000 hours	
40%	61,000 hours	
30%	71,000 hours	

When Constant Brightness is set to On

❶: Brightness Level

❷: Approximate time for which constant brightness of the light source can be maintained

❶	❷	Illustration
90%	6,000 hours	
80%	10,000 hours	
70%	19,000 hours	
60%	29,000 hours	
50%	41,000 hours	
40%	56,000 hours	
30%	78,000 hours	

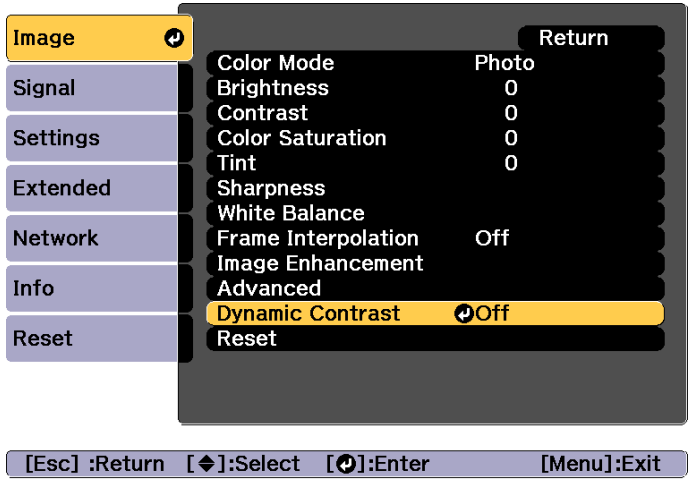
- This is an approximate guide only and may change depending on usage and surroundings.
- The times above are the target hours when using the projector continuously without changing the **Brightness Level** or **Constant Brightness** settings and are not guaranteed.
- When the usage time exceeds 20,000 hours, you may need to replace parts inside the projector.
- When **Constant Brightness** is set to **On**, and the approximate constant time has been exceeded, you may not be able to set a high value for **Brightness Level**.

Setting the Amount of Light of the Projected Image

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

Dynamic Contrast can only be set when the **Color Mode** is set to **Dynamic** or **Cinema**.

1. Press the [Menu] button while projecting.
2. Select **Dynamic Contrast** from **Image**, and then press the [↵] button.



3. Select **Normal** or **High Speed**, and then press the [↵] button.
   The setting is stored for each color mode.
4. Press the [Menu] button to finish making settings.

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.

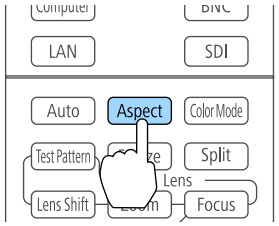
Available aspect modes vary depending on the Screen Type currently set.

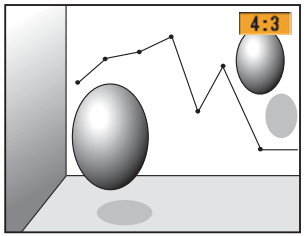
Set the **Screen Type** before changing the aspect ratio.
☛ "Screen Settings" p.30

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





Aspect Mode	Explanation
Auto	Projects in an appropriate aspect ratio based on information from the signal being input.
Normal	Projects while retaining the aspect ratio of the input image.
4:3	Projects at an aspect ratio of 4:3.
16:9	Projects at an aspect ratio of 16:9.
Full	Projects at the full size of the projected screen.
H-Zoom	Projects by enlarging the input image to the full width of the projected screen while retaining the aspect ratio. Areas that exceed the edges of the projected screen are not projected.
V-Zoom	Projects by enlarging the input image to the full height of the projected screen while retaining the aspect ratio. Areas that exceed the edges of the projected screen are not projected.
Native	Projects to the center of the projected screen at the resolution of the input image. Areas that exceed the edges of the projected screen are not projected.

- You can also set the aspect ratio from the Configuration menu.
  ☛ **Signal** - **Aspect** p.129
- If parts of the computer image are missing, set the **Resolution** setting to **Wide** or **Normal** from the Configuration menu, according to the resolution of the computer.
  ☛ **Signal** - **Resolution** p.129

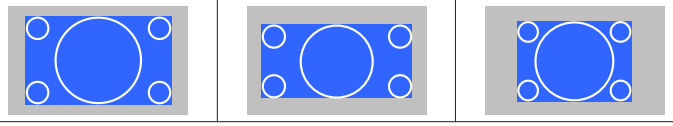
The aspect mode changes as shown in the tables below.

The following colors in screen images in the tables indicate areas that are not displayed.

■: The area where the image is not displayed depending on the screen type setting.

□: The area where the image is not displayed depending on the aspect mode setting.

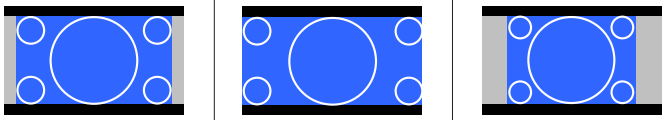
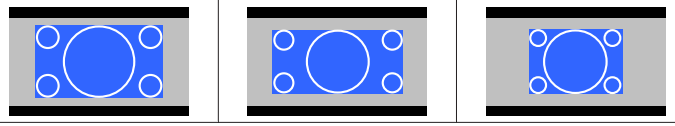
Screen type setting: 16:10

	Aspect Ratio of Input Signal		
	16:10	16:9	4:3
Auto or Normal			
16:9			
Full			
H-Zoom			
V-Zoom			
Native*			

* The image may differ depending on the resolution of the input signal.

Screen type setting: 16:9

	Aspect Ratio of Input Signal		
	16:10	16:9	4:3
Auto or Normal			

	Aspect Ratio of Input Signal		
	16:10	16:9	4:3
Full			
H-Zoom			
V-Zoom			
Native*			

* The image may differ depending on the resolution of the input signal.

Screen type setting: 4:3

	Aspect Ratio of Input Signal		
	16:10	16:9	4:3
Auto or Normal			
4:3			
16:9			

	Aspect Ratio of Input Signal		
	16:10	16:9	4:3
H-Zoom			
V-Zoom			
Native*			

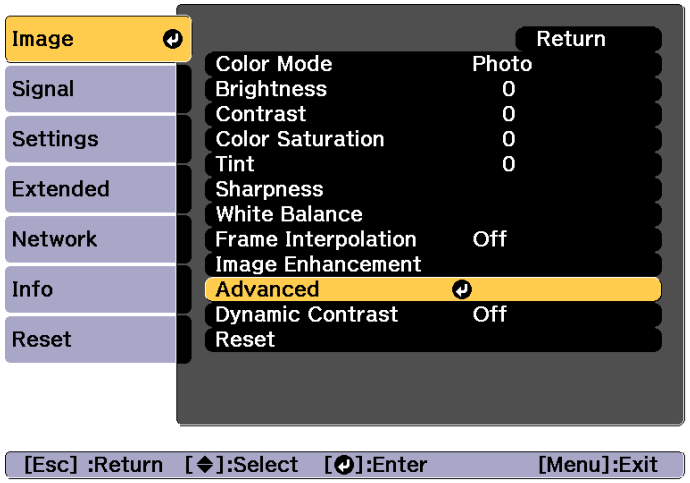
* Only computer images and images from the HDMI port/HDBaseT port. The image may differ depending on the resolution of the input signal.

Adjusting the Image

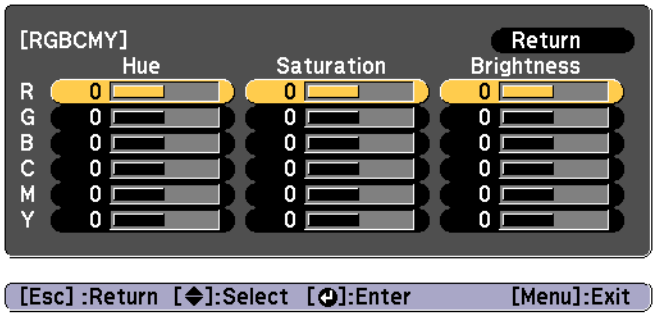
Hue, Saturation, and Brightness adjustment

You can adjust the **Hue** (tint), **Saturation** (vividness), and **Brightness** of the six axes R (red), G (green), B (blue), C (cyan), M (magenta), and Y (yellow) according to your preferences.

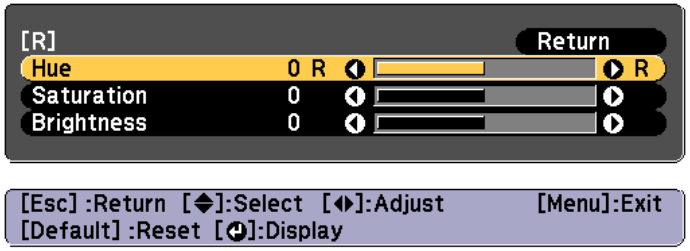
1. Press the [Menu] button while projecting.
2. Select **Advanced** from **Image**, and then press the [↵] button.



3. Select **RGBCMY**, and then press the [↵] button.
4. Use the [▲][▼] buttons to select the color you want to adjust, and then press the [↵] button.



5. Use the [▲][▼] buttons to select the item, and then use the [◀][▶] buttons to make the adjustments.



Each time you press the [↵] button, the adjustment screen changes.

6 To complete the corrections, press the [Menu] button.

Gamma adjustment

You can adjust differences in the halftone brightness that occurs depending on the connected device.

You can set it by using one of the following three methods.

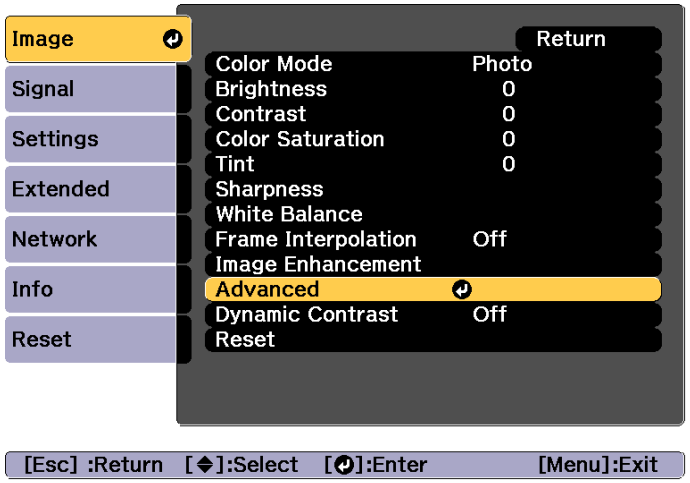
- Select and adjust the correction value
- Adjust while viewing the image
- Adjust using the gamma adjustment graph

> Adjust by projecting a still picture. Gamma cannot be adjusted correctly by using movies.

Select and adjust the correction value

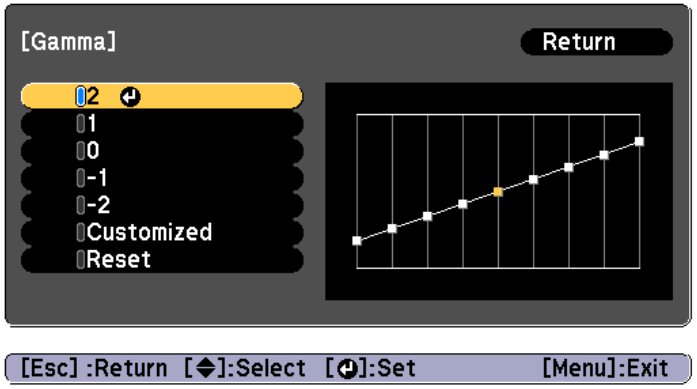
1 Press the [Menu] button while projecting.

2 Select **Advanced** from **Image**, and then press the [↵] button.



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

4 Use the [▲][▼] buttons to select the correction value, and then use the [↵] button to confirm the selection.



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.

If you select **DICOM SIM** from **Color Mode** on the **Image** menu, select the adjustment value according to the projection size.

EB-L1505U/EB-L1500U

- If the projection size is 150 inches or less, select a small value.
- If the projection size is 150 inches or more, select a large value.

EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U

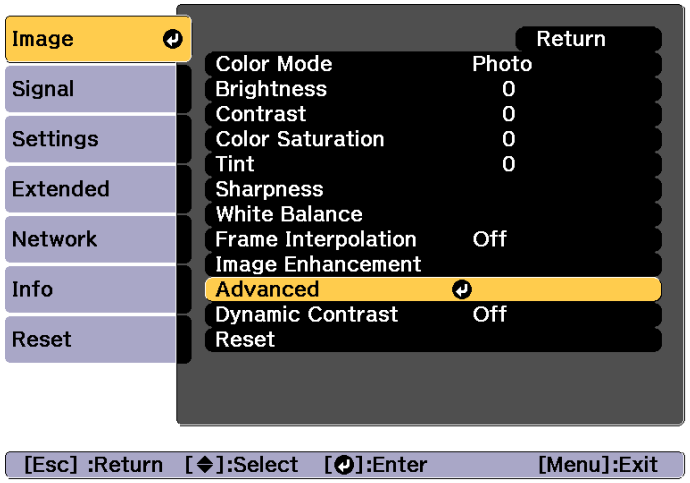
- If the projection size is 120 inches or less, select a small value.
- If the projection size is 120 inches or more, select a large value.

> Medical images may not be reproduced correctly according to your installation environment and screen specifications.

Adjust while viewing the image

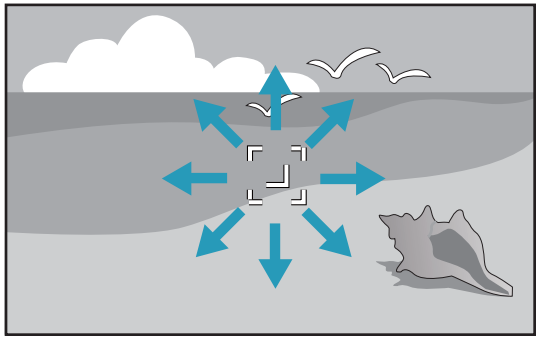
Select a point on the image where you want to adjust the brightness, and adjust only the selected tone.

1. Press the [Menu] button while projecting.
2. Select **Advanced** from **Image**, and then press the [↵] button.

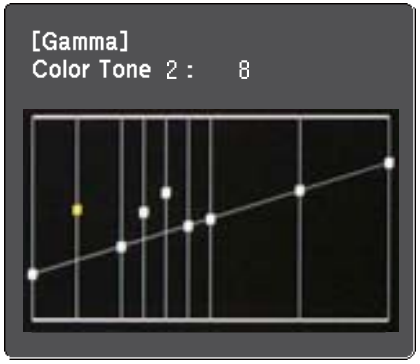


3. Select **Gamma**, and then press the [↵] button.
4. Select **Customized**, and confirm using the [↵] button.
5. Select **Adjust it from the image**, and confirm using the [↵] button.
6. Move the cursor on the projected image to the part where you want to change the brightness, and then press the [↵] button.

   If you press [↵], the image flashes and you can check the tone area of the adjustment target.



7 Use the [▲][▼] buttons to make adjustments, and then confirm using the [↵] button.



8 When **Do you want to continue adjusting the setting?** is displayed, select **Yes** or **No**.

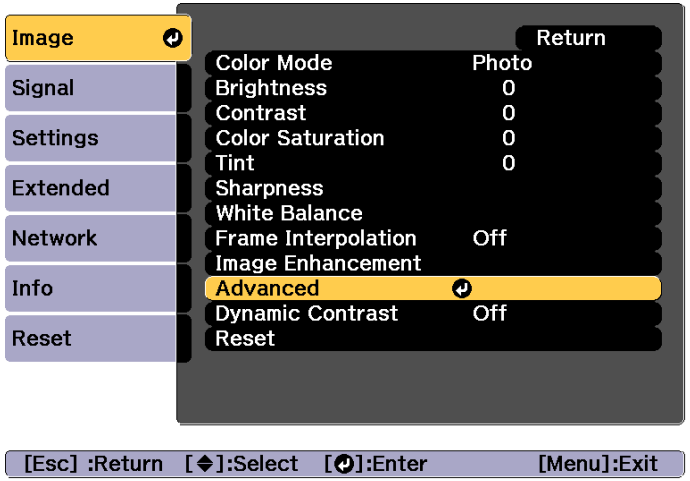
To adjust another location, select **Yes**, and repeat the procedure from step 6.

Adjust using the gamma adjustment graph

Select a tone point on the graph and make adjustments.

1 Press the [Menu] button while projecting.

2 Select **Advanced** from **Image**, and then press the [↵] button.



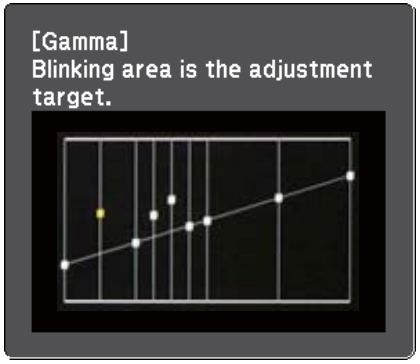
3 Select **Gamma**, and then press the [↵] button.

4 Select **Customized**, and confirm using the [↵] button.

5 Select **Adjust it from the graph**, and confirm using the [↵] button.

6 Use the [◀][▶] buttons to select the tone that you want to change, and then use the [▲][▼] buttons to make the adjustments. When you have finished making changes, confirm by using the [↵] button.

If you use the [◀][▶] buttons to select the tone that you want to change, the image flashes and you can check the tone area of the adjustment target.

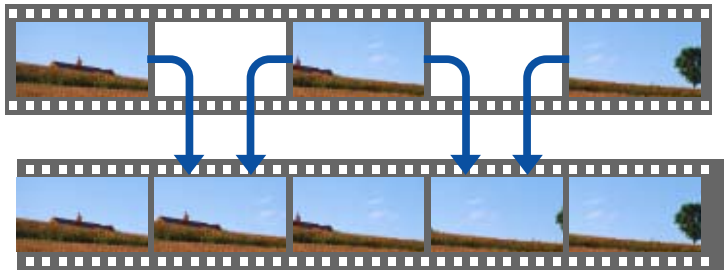


7 When **Do you want to continue adjusting the setting?** is displayed, select **Yes** or **No**.

To adjust another tone, select **Yes**, and repeat the procedure from step 6.

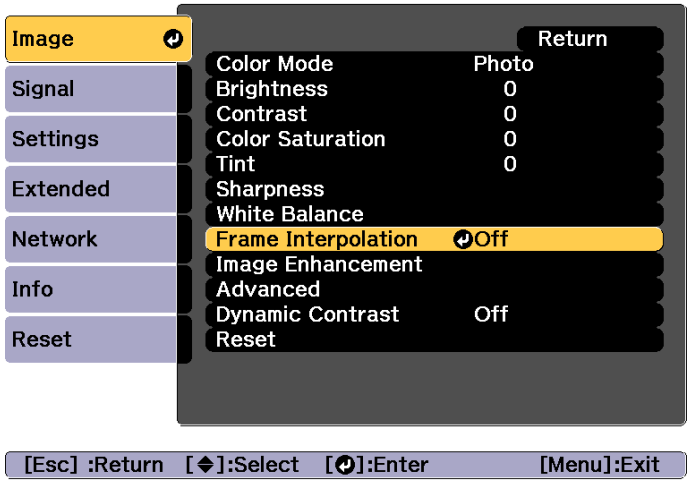
Frame Interpolation

The current and previous frames are used to create intermediate frames, interpolating to produce smooth-moving images. You can resolve clumsy-moving images, such as frame skipping when projecting a fast moving image.



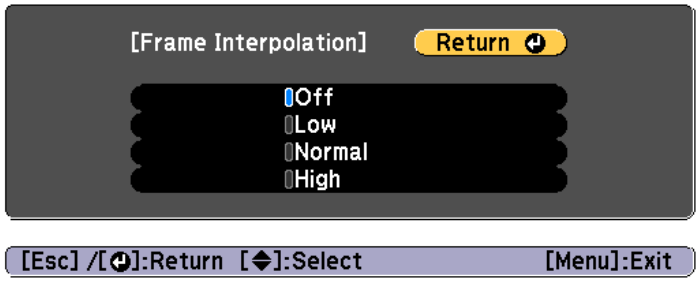
1 Press the [Menu] button while projecting.

2 Select **Frame Interpolation** from **Image**, and then press the [↵] button.



3 Select the level of interpolation from **Low**, **Normal** or **High**.

Set to **Off** if noise occurs after setting them.



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

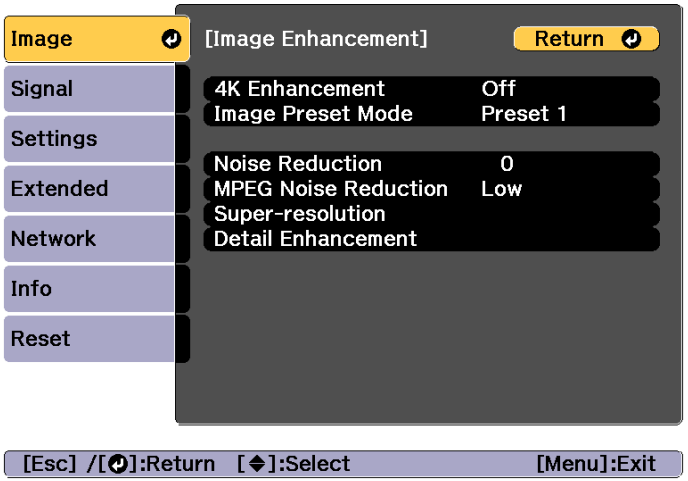
Adjusting Image Resolution (Image Enhancement)

You can adjust the resolution of the image using **Image Enhancement** to reproduce a clear image with an emphatic texture and material feel.

1 Press the [Menu] button while projecting.

2 Select **Image Enhancement** from **Image**, and then press the [↵] button.

The following screen is displayed.



4K Enhancement

4K Enhancement is a function that projects an image at a doubled resolution by diagonally shifting 1 pixel in increments of 0.5 pixels.

A high-resolution image signal is projected in fine detail.

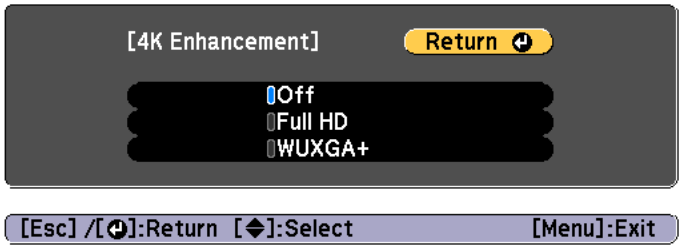
1 Select **4K Enhancement** from **Image Enhancement**, and then press the [↵] button.

2 Select one of the following, and then press the [↵] button.

Off: Disables 4K Enhancement. If a signal that exceeds the panel resolution of this projector is input, the image is displayed according to the panel resolution of this projector.

Full HD: If a signal with a resolution of 1080i/1080p/WUXGA or higher is input, 4K Enhancement is enabled.

WUXGA+: If a signal with a resolution that exceeds WUXGA is input, 4K Enhancement is enabled. To project a high-resolution movie, you can project a high-definition image by using this setting with **Image Preset Mode**.



- To project from multiple projectors, select **Off** to unify each image.
- **Off** is ideal for projecting presentation materials from computers and so on.
- If set to **Full HD** or **WUXGA+**, the status corrected using the following function is canceled.
  Edge Blending, Scale, Curved Surface, Point Correction, Corner Wall
  When **4K Enhancement** is set to **Off**, the settings return to their previous state.

3 Press the [Esc] button to return to the previous screen.

Image Preset Mode

Select the optimal setting according to the projected image from five presets prepared in advance.

The following settings are saved in the presets.

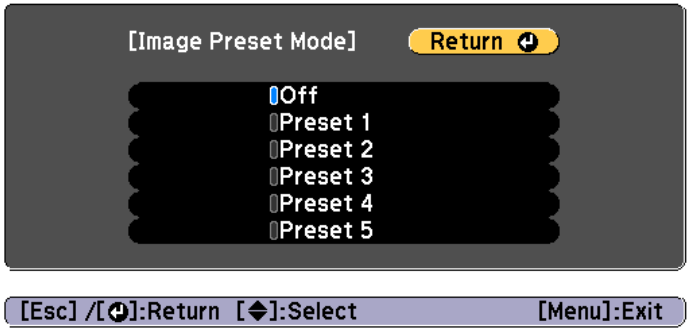
Noise Reduction, **MPEG Noise Reduction**, **Super-resolution**, **Detail Enhancement**

1. Select **Image Preset Mode** from **Image Enhancement**, and then press the [↵] button.

2. Select one of the following, and then press the [↵] button.

   Preset 1 to **Preset 5**: The settings saved in advance are applied to the image.

   Off: Select this to turn off presets.



- After selecting **Preset 1** to **Preset 5**, you can fine tune each setting individually. The setting after adjustment will be overwritten.
- The setting after adjustment will be overwritten separately when **4K Enhancement** is enabled and disabled.

3. Press the [Esc] button to return to the previous screen.

Noise Reduction

You can smooth out rough images for softer image quality when inputting progressive signals or progressive interlace signals.

This is disabled in the following cases.
- When **Image Processing** is set to **Fast 2**
- When **4K Enhancement** is enabled
- When a signal with a resolution that exceeds WUXGA is input

1. Select **Noise Reduction** from **Image Enhancement**, and then press the [↵] button.

2. Use the [◀][▶] buttons to adjust the value.

3. Press the [Esc] button to return to the previous screen.

MPEG Noise Reduction

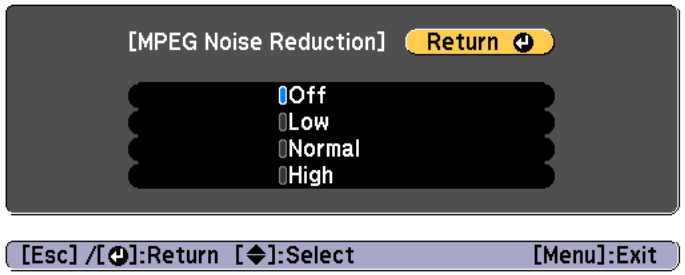
You can reduce dot and block noise that occurs in outlines when projecting MPEG movies.

This is disabled in the following cases.
- When **4K Enhancement** is enabled
- When a signal with a resolution that exceeds WUXGA is input

1 Select **MPEG Noise Reduction** from **Image Enhancement**, and then press the [↵] button.

2 Select a level to reduce noise from **Low**, **Normal**, or **High**, and then press the [↵] button.

If **Off** is selected, **MPEG Noise Reduction** is disabled.



3 Press the [Esc] button to return to the previous screen.

Super-resolution

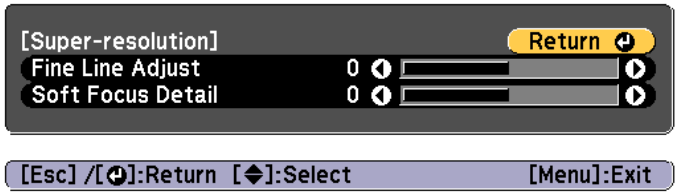
To display a crisp image, you can reduce the blurring that is created on the edge when the resolution of the image signal is scaled up and projected.

1 Select **Super-resolution** from **Image Enhancement**, and then press the [↵] button.

2 Use the [▲][▼] buttons to select the item, and then use the [◀][▶] buttons to make the adjustments.

Fine Line Adjust: If this parameter is set to a positive value, details such as hair or fabric patterns will be enhanced.

Soft Focus Detail: If this parameter is set to a positive value, the outline, background, and the other main parts of the objects in the image will be enhanced to show them clearly.



3 Press the [Esc] button to return to the previous screen.

Detail Enhancement

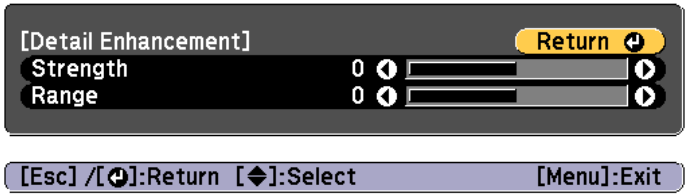
You can enhance the contrast in detailed areas of an image to create a more emphatic texture and material feel.

1 Select **Detail Enhancement** from **Image Enhancement**, and then press the [↵] button.

2 Use the [▲][▼] buttons to select the item, and then use the [◀][▶] buttons to make the adjustments.

Strength: The larger the value, the more the contrast is enhanced.

Range: The larger the value, the wider the range of detail enhancement becomes.



Depending on the image, a highlight may be noticeable at the border between colors. If this bothers you, set a smaller value.

3 Press the [Esc] button to return to the previous screen.

Projecting 3D Images

By using two projectors, you can project passive 3D images. The following are required to project and view 3D images.

- Polarizer
- Passive 3D glasses
- Mount for stacking
- Silver screen for passive 3D

This projector arranges the direction of polarizing projection for R (red), G (green), and B (blue). It is not necessary to inverse left and right eye G (green) image signals.

Useful Functions

This section describes the Multi-Projection, Split Screen, Memory, Schedule, and Security functions.

You can setup multiple projectors to project one large and wide image. You can adjust the difference of brightness and color tone between each projected image to create a seamless screen.

- Set **4K Enhancement** to **Off**.
- We recommend setting the focus, zoom, and lens shift at least 20 minutes after you start the projection, because images are not stable right after turning on the projector.
- If the values for **Geometry Correction** are large, the image position adjustment for overlapping images becomes difficult.
- The Test Pattern can be displayed to adjust the projection status without connecting video equipment.
  ☛ "Displaying a Test Pattern" p.31
- If you project a dot by dot image that can be projected without being enlarged or reduced, you can make adjustments precisely.

Adjustment Procedure

Adjusting automatically online

Images from multiple projectors can be automatically adjusted to match the image from the projector set as the master projector (Screen Matching).

Before selecting the master projector, set **Light Source Mode** to **Custom** for all projectors, and set **Brightness Level** to the maximum. Set the projector with the darkest projected image as the master projector.
☛ **Settings** - **Brightness Settings** - **Light Source Mode** - **Brightness Level** p.131

Advance preparation

(1) Connect all projectors to a network hub using LAN cables.

(2) Turning on the master projector.

(3) Set an ID for the master projector and the remote control.
☛ "Set the projector ID" p.40

(4) Turn on all projectors.

(5) Set the **DHCP** to **On** for all projectors, or check that IP addresses have been assigned.
☛ **Network** - **Network Configuration** - **Wired LAN** - **IP Settings** p.142

(6) Make sure that **Sleep Mode** is set to **Off** so that it does not turn off while adjusting.

Adjusting the projected position

(1) Adjust the position (angle) of the projector.
☛ "Installation Settings" p.29

(2) Adjust the arrangement of the images.
☛ "Performing tiling automatically" p.91

Adjusting the projected images

(1) Adjust the aspect ratio of the images.
☛ "Screen Settings" p.30
☛ "Changing the Aspect Ratio of the Projected Image " p.78

(2) Adjust the lens shift.
☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33

(3) Adjust the zoom and focus.
☛ "Adjusting the Image Size" p.35
☛ "Correcting the Focus" p.36

(4) Adjust small differences in the images.
☛ "Point Correction" p.72

(5) Adjust the edges of the images.
☛ "Edge Blending" p.93
☛ "Black Level" p.95

(6) Adjust the brightness and tint of the images.
☛ "Screen Matching" p.99

(7) Select the sections of the images.
☛ "Displaying a Scaled Image" p.102

Adjusting manually offline

Adjust the images from all projectors manually.

Advance preparation

(1) Turn on all projectors.
(2) Set an ID for all projectors and the remote controls.
☛ "Set the projector ID" p.40

Adjusting the projected position

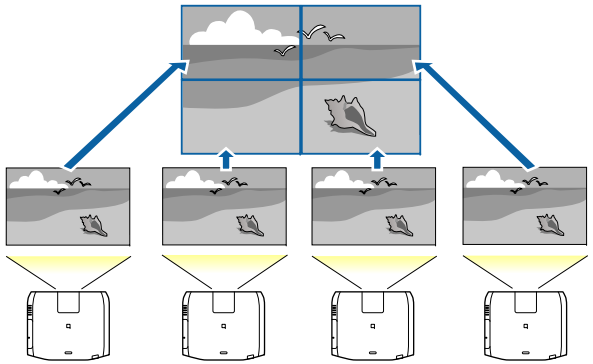
(1) Adjust the position (angle) of the projector.
☛ "Installation Settings" p.29
(2) Adjust the arrangement of the images.
☛ "Performing tiling manually" p.93

Adjusting the projected images

☛ "Adjusting the projected images" p.90

Tiling

Project the same image from multiple projectors to create one large image. You can project by using up to nine projectors.



Before performing tiling, adjust the projected image so that it is a rectangle. Also, adjust the size and focus of the images.
☛ "Adjusting the Image Size" p.35
☛ "Correcting the Focus" p.36

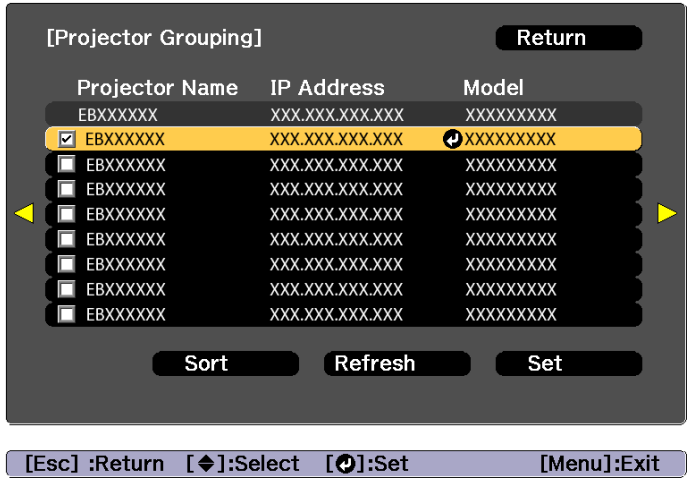
Performing tiling automatically

This section explains how to select the projector being used in **Projector Grouping**, and then automatically configure the images being projected.

Location Setup is performed using the camera built into the front of the projector. Do not block the camera or the projected images.

1. Press the [Menu] button while projecting.
2. Select **Multi-Projection** from **Extended**, and then press the [↵] button.
3. Select **Projector Grouping**, and then press the [↵] button.

4 Select the projectors that will be used for tiling, and then press the [↵] button.

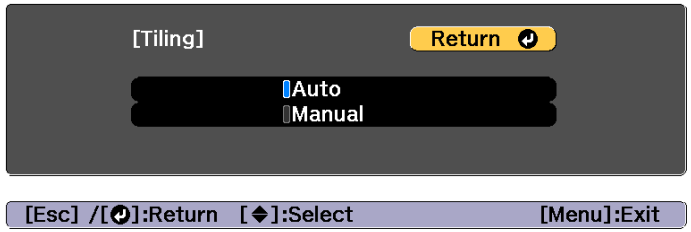


(1) Select the projectors you want to use to enter a checkmark.
Select **Refresh** to update the list. Select **Sort** to sort the projector order.

(2) Select **Set**, and then press the [↵] button.

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

6 Select **Tiling**. Select **Auto**, and then press the [Esc] button.

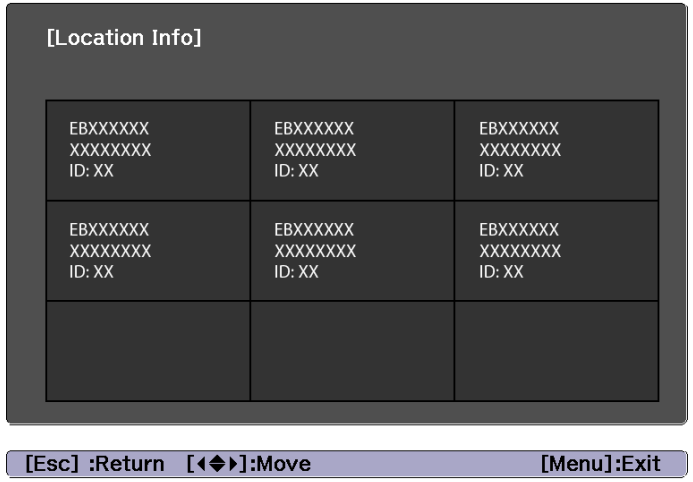


7 Select **Location Setup**, and then press the [↵] button.

The image is positioned automatically.

When the message "Assign IDs to projectors that have been located. Do you want to continue?" is displayed, select **Yes**.

When setup is complete, the following screen is displayed.



If the image is not located correctly, select **Manual** in step 6, and then follow the steps below to locate the image manually.

(1) Set **Row** and **Column** in **Layout**.

(2) Select **Set**, and then press the [↵] button.

(3) Select the location in **Location Setup**, and then press the [↵] button.

(4) Repeat step (3) to reposition the location of all projectors.

(5) Select **Set**, and then press the [↵] button.

8 Input the image signal to display the image.

☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59

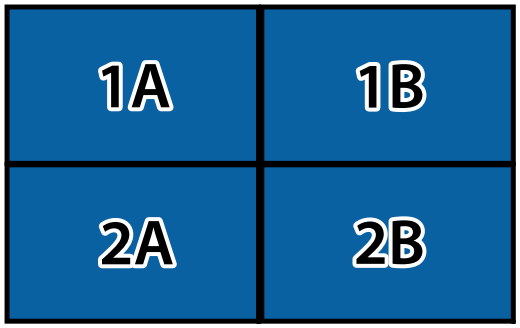
When tiling is complete, adjust any positional gaps and the tint of the projected images.
☛ "Adjusting the projected images" p.90

- After tiling is complete, do not change the IP addresses or projector names of the projectors. Otherwise the image will not be adjusted automatically.
- After tiling is complete, you can set each projector with one remote control. Select the projector ID for the projector you want to set with the remote control. You can check the projector ID in **Tiling - Location Info**.
  ☛ "Setting the remote control ID" p.41

Performing tiling manually

This section explains how to perform location settings for the image manually without performing **Projector Grouping**.

1. Press the [Menu] button while projecting.
2. Select **Multi-Projection** from **Extended**, and then press the [↵] button.
3. Select **Tiling**, and then press the [↵] button.
4. Select **Layout**, and then press the [↵] button.
   (1) Set the number of projectors in **Row** and **Column**.
   (2) Select **Set**, and then press the [↵] button.
5. Repeat steps 1 to 4 for each projector to be used for tiling.
6. Select **Location Setup**, and then press the [↵] button.
   (1) Set the positions of the projected images in **Row Order** and **Column Order**.
   Row Order: Place screens from top to bottom in the order of **1**, **2**, **3**.
   Column Order: Place screens from left to right in the order of **A**, **B**, **C**.

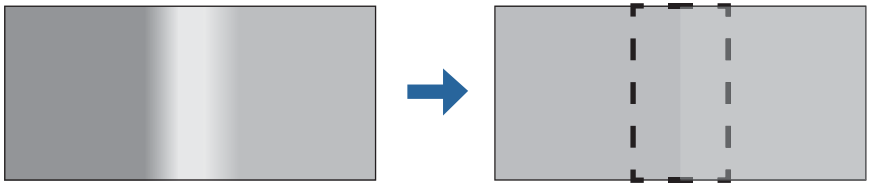


   (2) Select **Set**, and then press the [↵] button.
7. Repeat step 6 for each projector.
8. Input the image signal to display the image.
   ☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59

When tiling is complete, adjust any positional gaps and the tint of the projected images.
☛ "Adjusting the projected images" p.90

Edge Blending

You can fine tune the overlapping areas to make seamless screen.



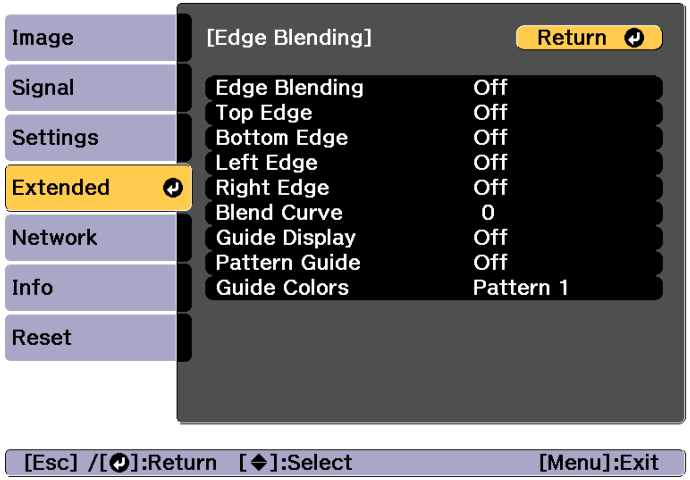
Before performing edge blending to raise the precision of adjustments, press the [Color Mode] button on the remote control, and then set **Color Mode** to **Multi-Projection**.

1 Press the [Menu] button while projecting.

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

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

The following screen is displayed.



Submenu	Function
Edge Blending	Set to **On** to activate Edge Blending. Set to **Off** when not projecting from multiple projectors.
Top Edge/Bottom Edge/Left Edge/Right Edge	**Blending**: Set to **On** to activate Edge Blending towards your settings, and the blend range will be shaded. **Blend Start Position**: Displays blending start position as a red line, and adjusts at the level of one pixel. **Blend Range**: Adjusts the range to be shaded. Adjustment is possible at the level of one pixel. The maximum range is 45% of the resolution.
Blend Curve	You can select from three ways of shading.
Guide Display	Set to **On** to display a guide on the Edge Blending setting range.
Pattern Guide	Set to **On** to display a guide to match the position of the Edge Blending setting range.
Guide Colors	Select a combination of guide colors from the three provided.

4 Turn on Edge Blending.

(1) Select **Edge Blending**, and then press the [↵] button.

(2) Select **On**, and then press the [↵] button.

(3) Press the [Esc] button.

5 Set **Guide Display** to **On**.

(1) Select **Guide Display**, and then press the [↵] button.

(2) Select **On**, and then press the [↵] button.

(3) Press the [Esc] button.

If the guide is not clear, you can change the color of the guide on **Guide Colors**.

6 Set **Pattern Guide** to **On**.

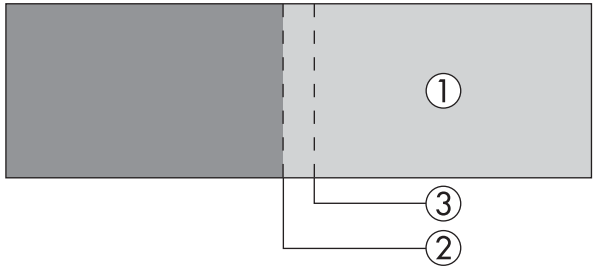
(1) Select **Pattern Guide**, and then press the [↵] button.

(2) Select **On**, and then press the [↵] button.

(3) Press the [Esc] button.

7 Set **Top Edge**, **Bottom Edge**, **Left Edge**, or **Right Edge** according to the parts of the image that are overlapped.

The following shows how to set screen (1) as an example.



In the example above, you need to adjust the **Left Edge** because you can see the overlapping areas on the left side of the image (1).

(1) Select **Left Edge**, and then press the [↵] button.

(2) Select **Blending**, and then press the [↵] button.

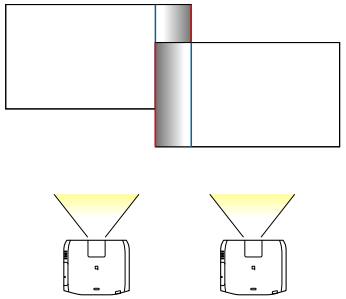
(3) Select **On**, and then press the [↵] button.

(4) Press the [Esc] button.

(5) In **Blend Start Position**, align the blending start position with the edge (2) of the image.

(6) Press the [Esc] button.

(7) In **Blend Range**, adjust the range (3) to be shaded.
The value for when the overlapped range and the guide are in the same position is the best.



(8) Press the [Esc] button.

8 Set **Blend Curve**.

(1) Select **Blend Curve**, and then press the [↵] button.

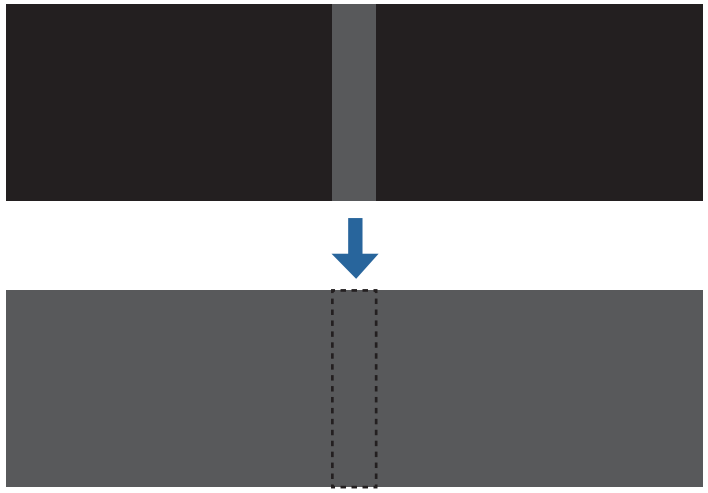
(2) Select the amount of shading from **1** to **3**, and then press the [↵] button.

(3) Press the [Esc] button.

9 After the settings are complete, set **Guide Display** and **Pattern Guide** to **Off** to finish.

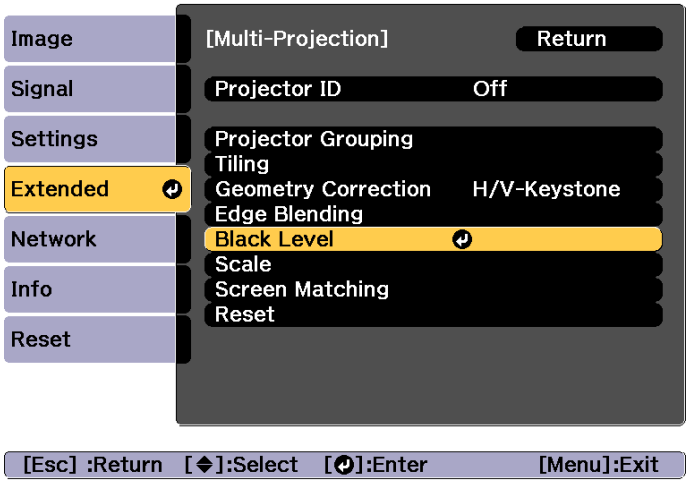
Black Level

When a black image is displayed, only areas where the images overlap stands out. The black level function allows you to match the brightness and tone for areas where the images do not overlap with areas where the images overlap, to make the difference less noticeable.

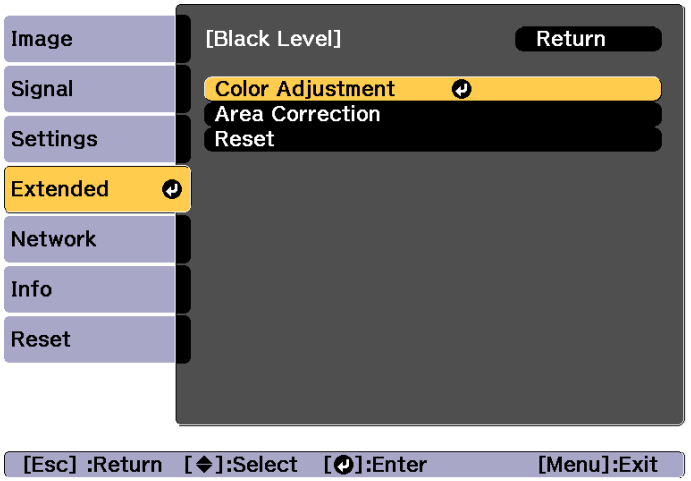


- You cannot adjust the Black Level when a test pattern is displayed.
- If the **Geometry Correction** value is large, you may not be able to adjust correctly.
- The brightness and tone may differ in areas where the images overlap as well as in other areas even after performing black level adjustment.
- If you change the **Top Edge/Bottom Edge/Right Edge/Left Edge** setting, the Black Level is returned to its default value.
  ☛ "Edge Blending" p.93
- When auto adjustment starts for Screen Matching, the settings for Color Adjustment are automatically adjusted.
  ☛ "Automatically correct the brightness and tint for multiple projectors" p.100

1 Select **Black Level** from **Multi-Projection**, and then press the [↵] button.



2 Select **Color Adjustment**, and then press the [↵] button.

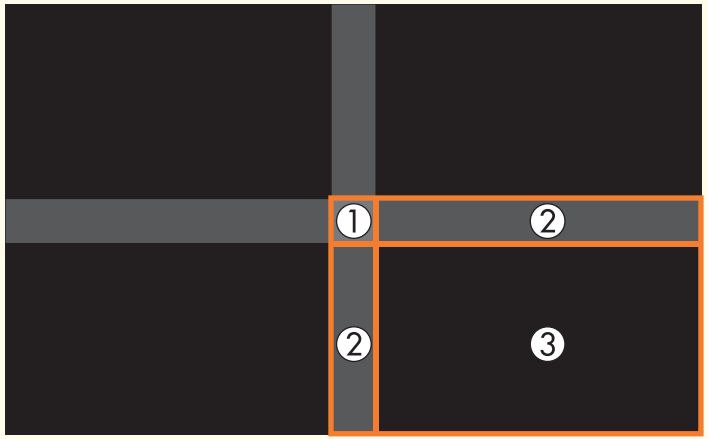


The areas are displayed based on the settings for **Top Edge/Bottom Edge/Right Edge/Left Edge**.

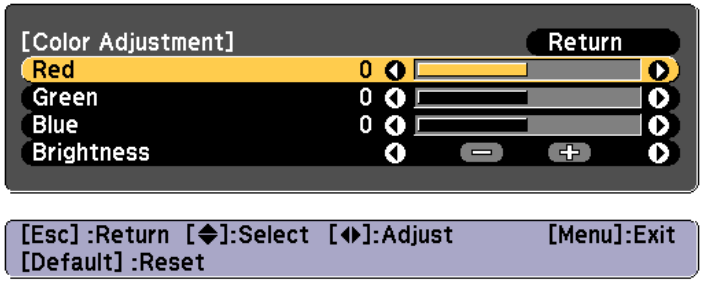
3 Select the area you want to adjust, and then press the [↵] button.

The selected area is displayed in orange.

When multiple screens are overlapping, adjust based on the area with the most overlap (the brightest area). In the illustration below, first align (2) with (1), and then adjust so that (3) aligns with (2).



4 Adjust the black tone and brightness.

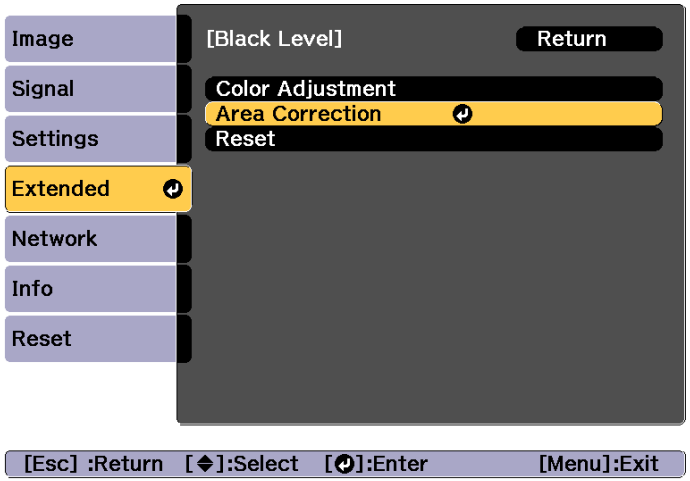


5 Repeat steps 3 and 4 as needed to adjust any remaining parts.

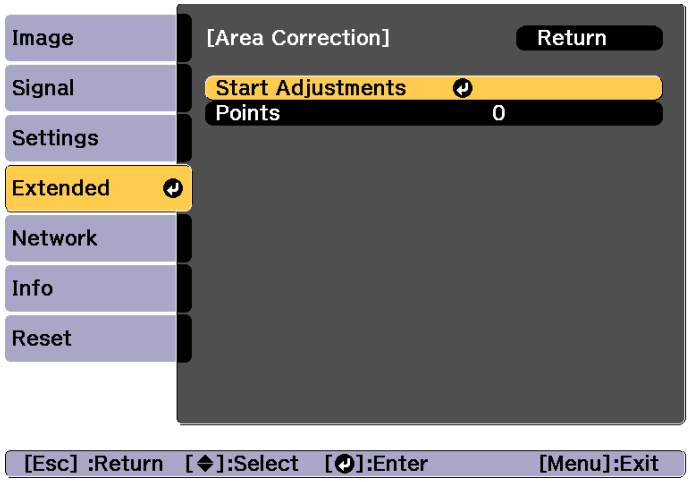
After this, if the tone for some areas do not match, adjust them by **Area Correction**.

6 Press the [Esc] button, to return to the screen displayed in step 2.

7 Select **Area Correction**, and then press the [↵] button.



8 Select **Start Adjustments**, and then press the [↵] button.



Boundary lines that indicate areas where images overlap are displayed.

The boundary lines are displayed based on the settings for **Top Edge/Bottom Edge/Right Edge/Left Edge**.

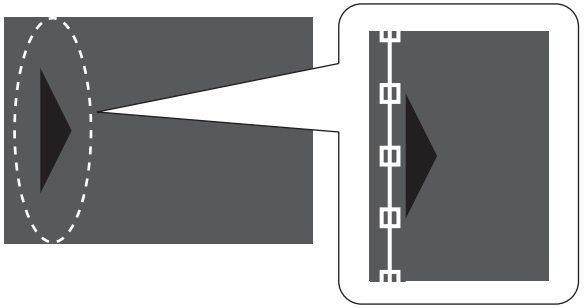
9 Use the [▲][▼][◀][▶] buttons to select a boundary line of the area you want to adjust.

The selected line is displayed in orange.

10 Press the [↵] button to confirm the selection.

The points where you want to set the range for adjustment are displayed.

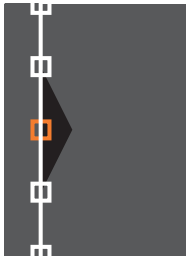
You can change the number of points displayed on one side in **Points** on the screen from step 8.



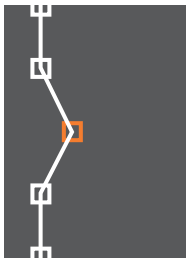
11 Use the [▲][▼][◀][▶] buttons to adjust the boundary line positions, and then press the [↵] button.

12 Press the [▲][▼][◀][▶] buttons to select the point you want to move, and then press the [↵] button.

The selected point is displayed in orange.



13 Press the [▲][▼][◀][▶] buttons to move the point.



To continue to move another point, press the [Esc] button to return to step 12, and then repeat steps 12 and 13.

To adjust another boundary line, press the [Esc] button until the screen for selecting a boundary line from step 9 is displayed.

To return **Black Level** to its default value, press the [Esc] button to return to the screen from step 7, select [Reset], and then press the [↵] button.

14 To complete the adjustment, press the [Menu] button.

Screen Matching

Adjust the tint and brightness for multiple projectors.

When projectors are connected to a network, the tint and brightness for multiple projectors are auto adjusted based on the master projector's adjustment values.

When projectors are not connected to a network, or if auto adjustment does not work, you can adjust the tint and brightness for all projectors manually.

- We recommend performing Screen Matching 20 minutes after turning on the projector or canceling A/V mute.
- To increase the accuracy of adjustments, we recommend darkening the room while projecting images and then making adjustments.
- Perform the following on the master projector before starting adjustments.
  - Set the **Color Mode** to **Multi-Projection** with the remote control's [Color Mode] button.
  - Press the [A/V Mute] button on the remote control to cancel A/V Mute.
  - Adjust the following items on the Image menu as necessary. Brightness, Contrast, Color Saturation, Tint, White Balance, Advanced
  ☛ "Image Menu" p.127
  - Set the brightness of the projected image.
  ☛ "Setting the Brightness" p.74
- When there are large differences in the brightness for each projector due to aging light sources, perform Screen Matching again.
- By using the scheduling function, you can automatically adjust the tint and brightness at the time you set.
  ☛ "Scheduling Function" p.113
- See the following if Screen Matching does not work correctly.
  ☛ "Automatic adjustments are not performed correctly" p.176

Operating conditions for auto adjustment functions

The auto adjustment functions for Screen Matching are enabled when the following conditions are met.

- The screen surface is not uneven
- Using a matte white diffusion screen
- The projection size is 80 to 200 inches
- The projected image after tiling is rectangular

- Auto adjustment is not available when using the following lenses.
  - EB-L1505U/EB-L1500U: ELPLR04, ELPLL08, ELPLL07
  - EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U: ELPLX01, ELPLR04, ELPLM11, ELPLM07, ELPLL08, ELPLL07
- After auto adjustment, the movement range for lens shift is reduced for some lenses.
  ☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33

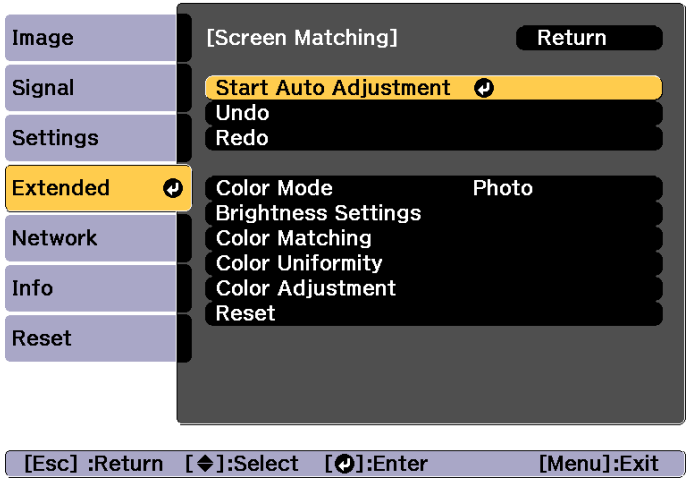
Automatically correct the brightness and tint for multiple projectors

Automatically correct the brightness and tint for the projectors selected in **Projector Grouping** based on the brightness and tint on the master projector.

- Check the following before starting auto adjustment.
  - The projector is connected to the network
  - The **Location Setup** for the projector has already been set
- Auto adjustment is performed using the camera built into the front of the projector. Do not block the camera or the projected images.
- The time necessary for auto adjustment varies according to the location and number of projectors and can take up to approximately seven minutes.
- Settings are auto adjusted for Brightness Settings and Black Level (**Color Adjustment** only).
- After making automatic adjustments, Color Uniformity and Color Matching are returned to their defaults.

1 Select **Screen Matching** from **Multi-Projection**, and then press the [↵] button.

2 Select **Start Auto Adjustment**, and then press the [↵] button.



The adjustment pattern is displayed, and adjustment starts. If the projected image is displayed before the adjusting, the procedure is complete.

- See the following if an error occurs.
  ☛ "Automatic adjustments are not performed correctly" p.176
- To return to the status before auto adjustment, select **Undo**. When you select **Redo** after selecting **Undo**, it returns the image to the status after auto adjustment.
- To return **Screen Matching** to its default value, select **Reset**.

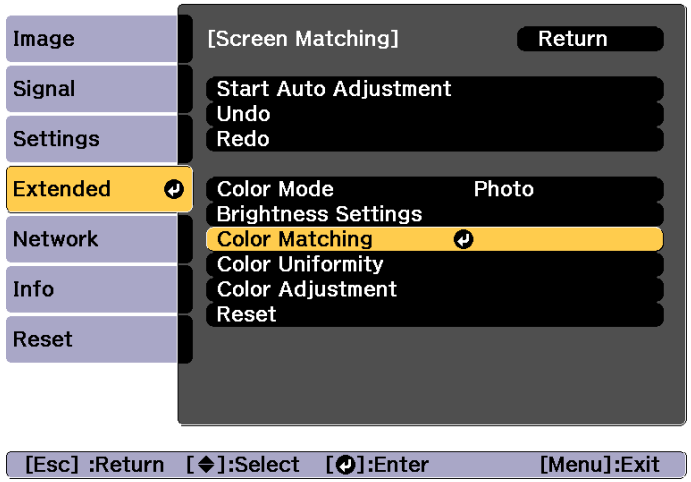
Color Matching

You can fine tune the color balance and brightness from black to white for each color tone.

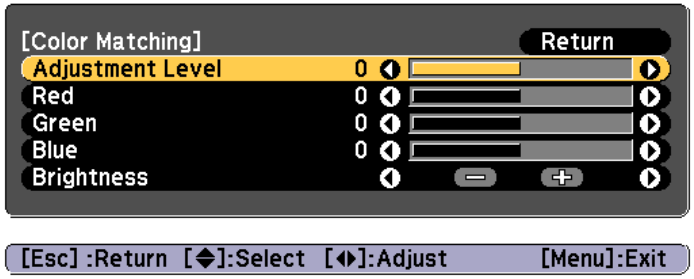
When the projectors are not connected to a network, or if you want to adjust manually after the automatic adjustments, perform the following steps on all projectors.

1 Select **Screen Matching** from **Multi-Projection**, and then press the [↵] button.

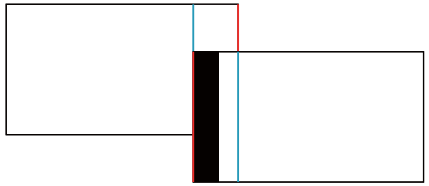
2 Select **Color Matching**, and then press the [↵] button.



The following screen is displayed.



Half of the overlapped area is displayed in black so that it is easy to check the edge of the image.



Adjustment Level: There are eight levels from white, through gray, and up to black. You can adjust each level individually.

Red, Green, Blue: Adjusts the tone for each color.

Brightness: Adjusts the image brightness.

> Whenever the [↵] button is pressed, the screen changes between the projected image and the adjustment screen.

3 Select **Adjustment Level**, and then use the [◀][▶] buttons to set the adjustment level.

4 Select **Red**, **Green**, or **Blue**, and then press the [◀][▶] buttons to adjust the color tone.

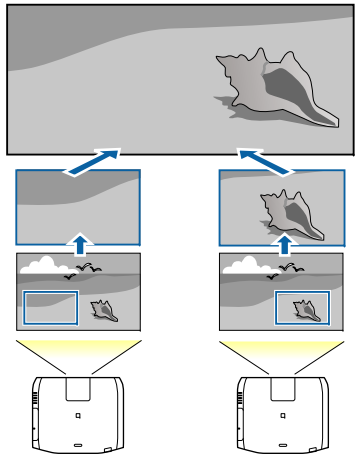
5 Select **Brightness**, and then use the [◀][▶] buttons to adjust the brightness.

6 Return to step 2 and adjust each level.

7 Press the [Esc] button to return to the previous screen.

Displaying a Scaled Image

A section of the image is cropped and displayed. This allows you to create one large image by combining images projected from multiple projectors.



1 Project the image, and then press the [Menu] button.

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

> You can also perform the same operation from **Scale** in **Signal**.

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

4 Turn on **Scale**.

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

(2) Select **Auto** or **Manual**, and then press the [↵] button.

Auto: Automatically adjusts the clipped area according to the adjustment values in Edge Blending and Tiling. You do not need to perform any steps after step 6.
Manual: Allows you to adjust the clipped area manually.

(3) Press the [Esc] button to return to the previous screen.

> If auto adjustment does not work for the clipped image, adjust the aspect ratio, and then select **Auto**.
> ☛ "Changing the Aspect Ratio of the Projected Image " p.78

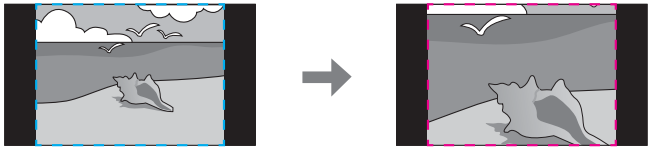
5 Set **Scale Mode**.

(1) Select **Scale Mode**, and then press the [↵] button.

(2) Select **Zoom Display** or **Full Display**, and then press the [↵] button.

Zoom Display: Adjusts according to the image currently displayed.

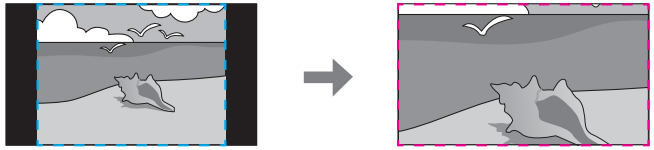
Enlarge



Move

Full Display: Adjusts according to the projector's panel size (the maximum area in which an image can be displayed).

Enlarge



Move

(3) Press the [Esc] button to return to the previous screen.

6 Adjust the scale.

Select the adjustment method with the [▲][▼] buttons, then adjust using the [◀][▶] buttons.

-+: Enlarges or reduces an image horizontally and vertically at the same time.

Scale Vertically: Enlarges or reduces an image vertically.

Scale Horizontally: Enlarges or reduces an image horizontally.

7 The image is clipped and adjusted.

(1) Select **Clip Adjustment**, and then press the [↵] button.
If you select **Clip Range**, the range and coordinates of the image that the projector will project is displayed.

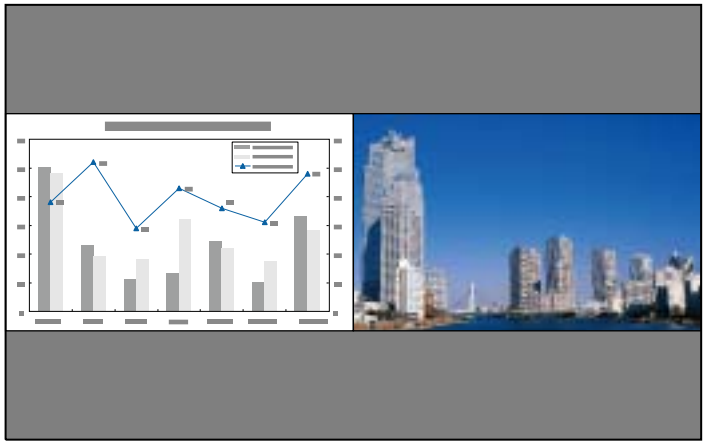
(2) Use the [▲], [▼], [◀], and [▶] buttons to scroll the image.
Adjust the coordinates and size of each image while viewing the screen.

(3) Press the [Menu] button to finish making settings.

> You can check the displayed area after clipping for the entire image from **Clip Range**.

Projecting Two Images Simultaneously (Split Screen)

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



Input Sources for Split Screen Projection

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

Left Screen	Right Screen						
	HDMI	HDBa-seT	DVI-D	SDI*	Com-puter	BNC	LAN
HDMI	-	✓	✓	✓	✓	✓	✓
HDBaseT	✓	-	✓	✓	✓	✓	✓
DVI-D	✓	✓	-	✓	✓	✓	✓
SDI*	✓	✓	✓	-	-	-	-
Computer	✓	✓	✓	-	-	-	-
BNC	✓	✓	✓	-	-	-	-
LAN	✓	✓	✓	-	-	-	-

* EB-L1505U/EB-L1500U/EB-L1405U only

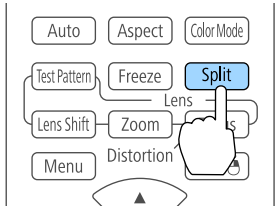
- Signals that exceed WUXGA are not supported.
- If **4K Enhancement** is enabled, a message is displayed. Select **Yes** to disable **4K Enhancement**.
  ☛ **Image** - **Image Enhancement** - **4K Enhancement** p.127

Operating procedures

Projecting on a split screen

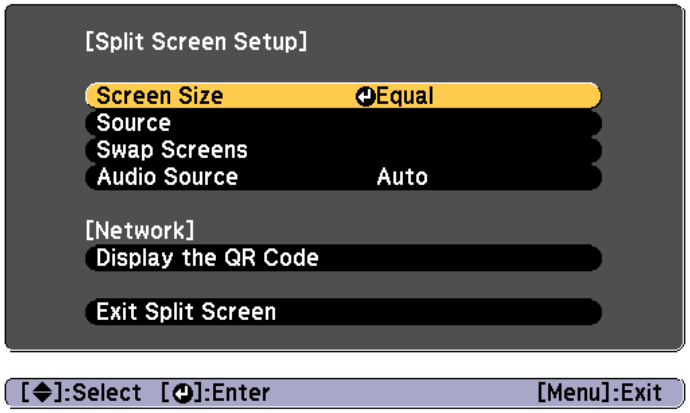
1 Press the [Split] button on the remote control while projecting.
The currently selected input source is projected on the left of the screen.

Remote control



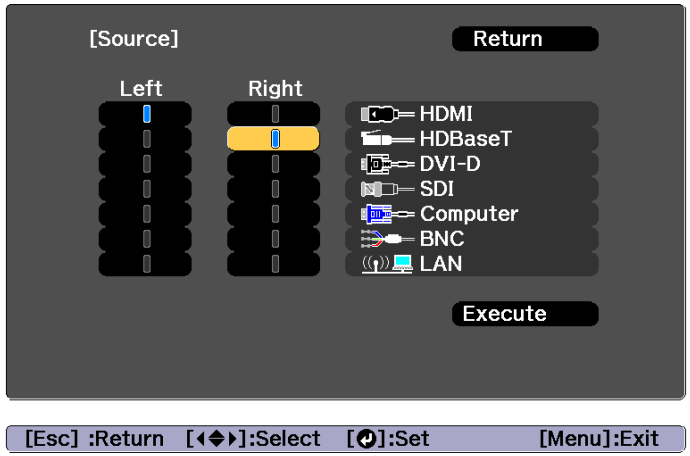
> You can perform the same operations from the configuration menu.
> ☛ **Settings - Split Screen** p.131

2 Press the [Menu] button.
The Split Screen Setup screen is displayed.



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

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



> You can perform the same operations using the following procedure.
> ☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59
> ☛ "Switching to the Target Image by Remote Control" p.60

5 Select **Execute**, and then press the [↵] button.
To switch the source during split screen projection, start the procedure from step 2.

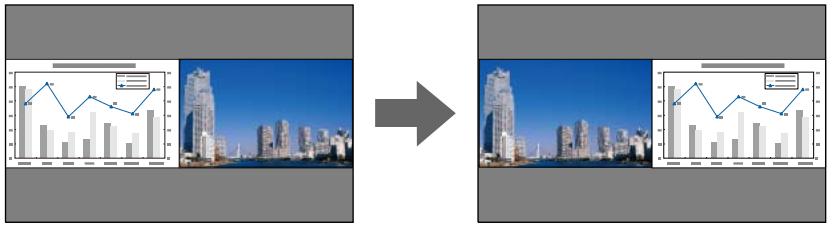
Switching the left and right screens

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.

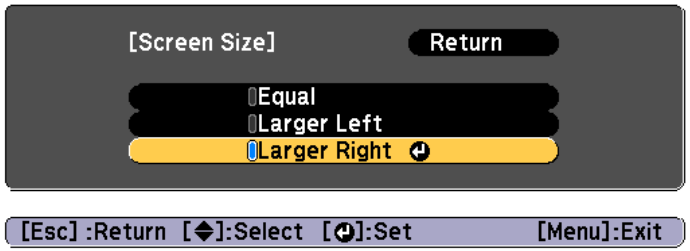


Switching the left and right image sizes

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

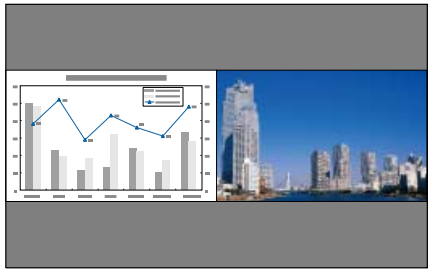
2 Select **Screen Size**, and then press the [↵] button.

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

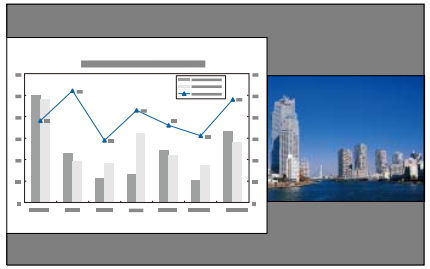


The projected images will appear as shown below after setting the screen size.

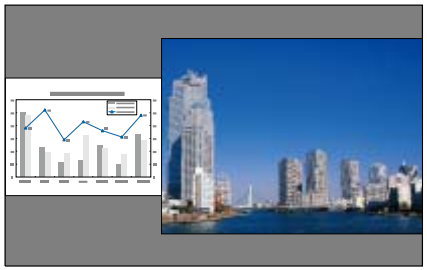
Equal



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.

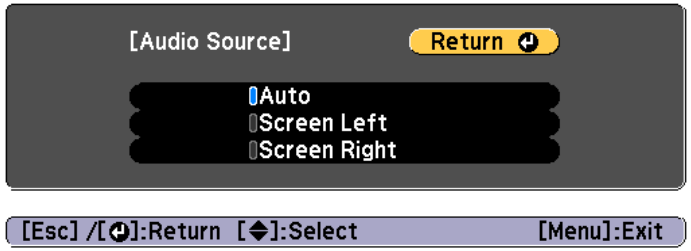
Changing the audio

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

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

3 Select the audio you want to output, and then press the [↵] button.

When you select **Auto**, audio is output for the enlarged screen. If the screen sizes are **Equal**, audio is output for the screen on the left.



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** on the Split Screen Setup screen. ☛ p.105

Restrictions during split screen projection

Operating restrictions

The following operations cannot be performed during split screen projection.

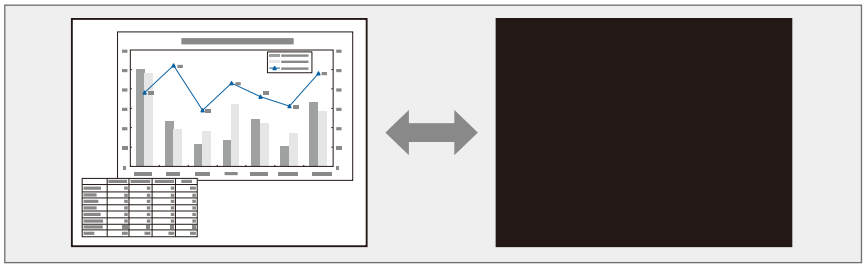
- Setting the configuration menu
- E-Zoom
- Changing the aspect mode
- Using the [User1], [User2], or [User3] button on the remote control
- Help can be displayed only when image signals are not input or when an error or warning notification is displayed.
- The user's logo is not displayed.

Restriction relating to images

- For the image on the right screen, the default values for the **Image** menu are applied. However, the settings for the image projected on the left screen are applied to the image on the right screen for **Color Mode**, **Color Temp.**, and **Super-resolution**.
- **Dynamic Contrast** and **Frame Interpolation** are not available.

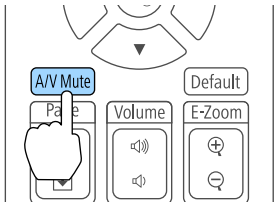
Hiding the Image and Sound Temporarily (A/V Mute)

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



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

Remote control



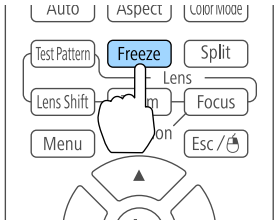
- If you want to fade out or fade in when turning the video on or off, set the desired number of seconds in **Fade-out** and **Fade-in**.
  ☛ **Extended** - **Operation** - **A/V Mute Settings** - **Fade-out**, **Fade-in** p.133
- When A/V mute is activated and no operations are performed for about 2 hours, the projector turns off automatically. If you do not want to turn off the power, set **A/V Mute Timer** to **Off**.
  ☛ **Extended** - **Operation** - **A/V Mute Settings** - **A/V Mute Timer** p.133
- When **A/V Mute Release** is set to **A/V Mute** from the configuration menu, the following operations can still be performed without releasing A/V mute.
  - Change the source with the change input buttons on the remote control.
  - Control the projector from a computer using communication commands.
  ☛ **Extended** - **Operation** - **A/V Mute Settings** - **A/V Mute Release** p.133
  A/V mute is only released by pressing the [A/V Mute] button, or by sending an A/V mute Off command.
- When projecting moving images, the images and sound continue to be played back while A/V Mute is on. It is not possible to resume projection from the point where A/V Mute was activated.

Freezing the Image (Freeze)

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

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

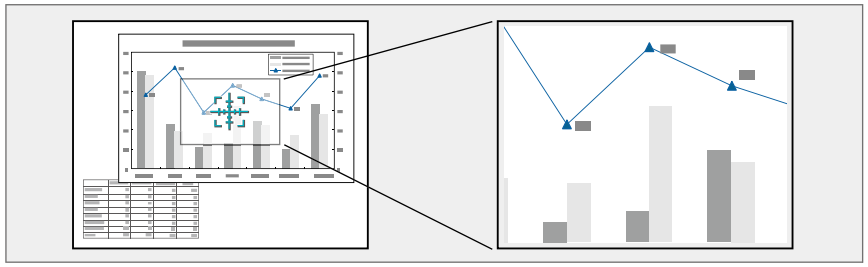
Remote control



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

Enlarging Part of the Image (E-Zoom)

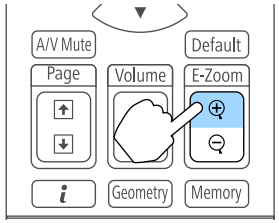
This is useful when you want to expand images to see them in greater detail, such as graphs and tables.



1 Start E-Zoom.

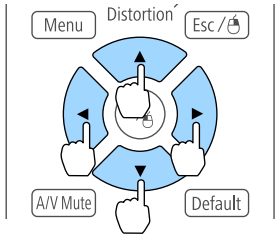
Press the [⊕] button to display the Cross ( ).

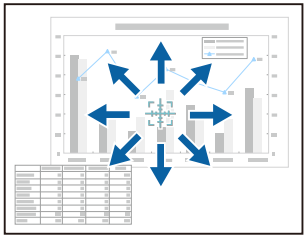
Remote control



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

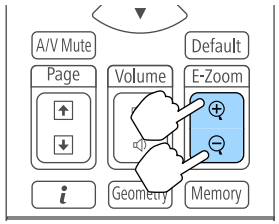
Remote control





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.

- During enlarged projection, press the [▲], [▼], [◀], or [▶] buttons to scroll the image.
- E-Zoom is unavailable when **Scale** is on.
  ☛ **Signal** - **Scale** p.129
- If **4K Enhancement** is enabled, a message is displayed. Select **Yes** to disable **4K Enhancement**.
  ☛ **Image** - **Image Enhancement** - **4K Enhancement** p.127

Saving a User's Logo

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

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

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

☛ "Using the Configuration Menu" p.124

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. Perform operations after setting **User's Logo Protection** to **Off**.
  ☛ "Managing Users (Password Protection)" p.117
- If **User's Logo** is selected when Geometry Correction, E-Zoom or Aspect are being performed, the function currently being performed is temporarily cancelled.

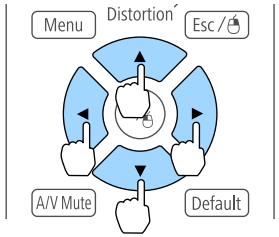
3 When the message "Choose this image as the User's Logo?" is displayed, select **Yes**.

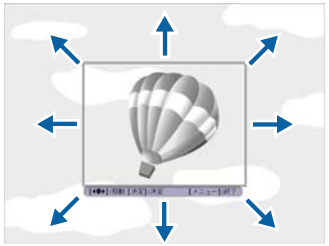
> When you press the [↵] button, the screen size may change depending on the signal to match the actual resolution of the image signal.

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.

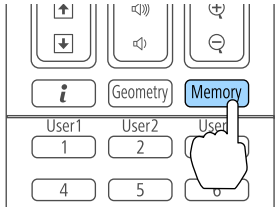
> When a User's Logo is saved, the previous User's Logo is erased.

The settings for the image currently displayed and values for geometry correction are saved as a memory, allowing you to load them when necessary.

Saving/Loading/Erasing/Resetting the Memory

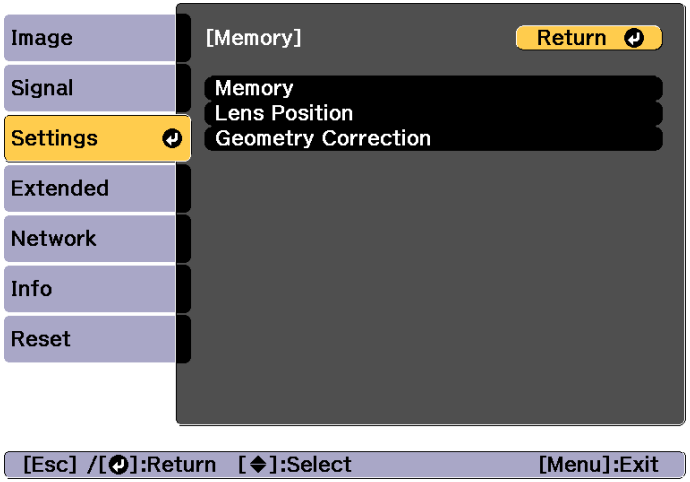
1 Press the [Memory] button while projecting.

Remote control



You can also operate from the Configuration menu.
☛ **Settings - Memory** p.131

2 Select a memory type, and then press the [↵] button.



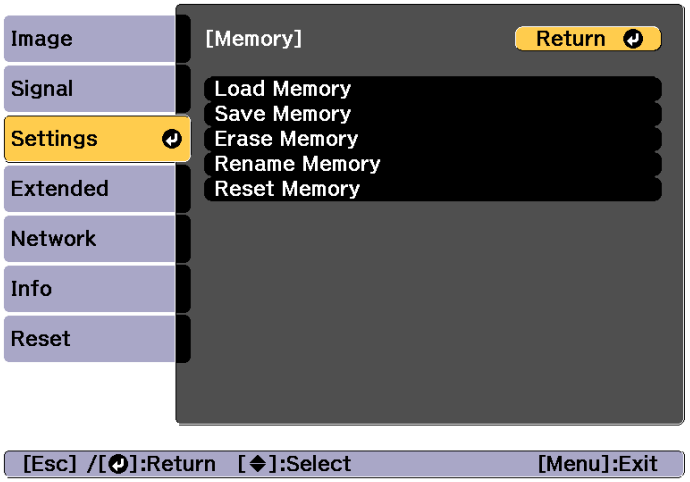
Memory: Settings for the following menu items are saved in the memory. You can register up to 10 values.

Top Menu	Submenu
Image	All setting items
Signal	Scale
Extended	Edge Blending Black Level Color Matching

Lens Position: Registers the position of the lens adjusted using lens shift, zoom, focus, and distortion. You can register up to 10 values.
☛ "Registering and Loading Lens Adjustment Values" p.38

Geometry Correction: Adjustment value of the geometry correction is saved. You can register up to 3 values.

3 Select the function you want to perform, then press the [↵] button.



Function	Explanation
Load Memory	Loads the saved memory. When you select a memory and press the [↵] button, the settings applied to the current image are replaced with the settings from the memory.
Save Memory	Registers current settings in the memory. When you select a memory name and press the [↵] button, the settings are saved.
Erase Memory	Erases the registered memory. When you select a memory name and press the [↵] button, a message is displayed. Select **Yes**, and then press the [↵] button to erase the selected memory.
Rename Memory	Changes the memory name. Select the memory name you want to change, and then press the [↵] button. Enter the memory name using the soft keyboard. ☛ "Soft keyboard operations" p.139 When you have finished, move the cursor over **Finish**, and then press the [↵] button.

Function	Explanation
Reset Memory	Resets the name and settings of a saved memory. To reset all memories saved in **Memory**, **Lens Position**, and **Geometry Correction**, use **Reset All Memories**. ☛ **Reset - Reset All Memories** p.146

If the mark on the left of the memory name is turned blue, it means the memory has already been registered. When you select a registered memory, a message is displayed asking you to confirm that you want to overwrite the memory. If you select **Yes**, the previous settings are deleted and the current settings are registered.

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 in **Schedule**, and one event in **Extended Schedule**.

Saving an Event

Setting an Event

1. Press the [Menu] button while projecting.
   ☛ "Using the Configuration Menu" p.124

2. Select **Schedule Settings** from **Extended**.

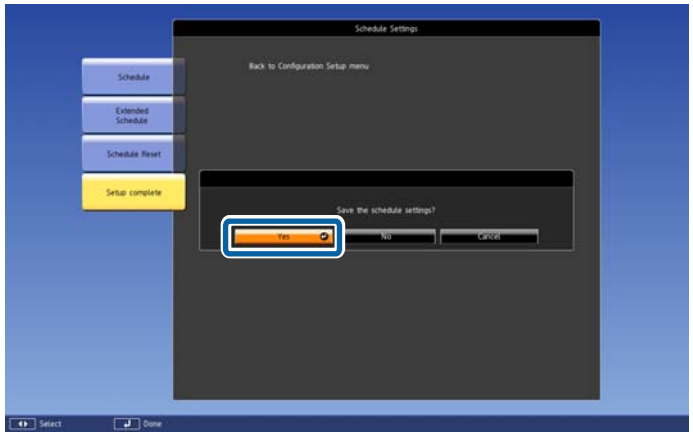
3. Select **Add New** from **Schedule** or **Extended Schedule**.

4. Set the schedule.

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. **Schedule** • Power • Source • Light Source Mode • A/V Mute • Volume • Light Source Calibration **Extended Schedule** • Color Calibration • Screen Matching
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.139

5. Select **Save**, and then press the [↵] button.
   To register additional events, repeat steps 3 to 5.

6. Select **Setup complete**, and then select **Yes** to finish saving.



- Light source calibration does not start automatically when the projector is used continuously for more than 24 hours, or when direct shutdown is used regularly. Set **Light Source Calibration** to enable this function after every 100 hours of usage.
- You cannot register a schedule in which Schedule events conflict with an Extended Schedule event.
- You cannot set other events before the following times.
  - Five minutes before or after executing a Color Calibration event.
  - Five minutes before and 30 minutes after executing a Screen Matching event.

Checking an Event

This section explains how to check a Schedule event.

1. Press the [Menu] button while projecting.
2. Select **Schedule Settings** from **Extended**.
   The indicator turns on when an event is saved.

- (Aqua): Single event
- (Orange): Regular event
- (Green): Communication monitoring On/Off
- (Gray): Disabled event

3 Press the [◀][▶] buttons to highlight the date you want to check.

The details of the events registered on the selected date are displayed.

(Blue): Enabled event

(Gray): Disabled event

: Regular event

Editing an Event

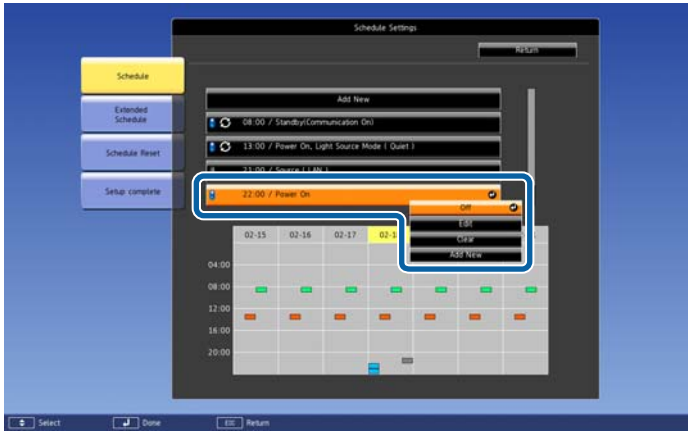
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.124

2 Select **Schedule Settings** from **Extended**.

3 Use the [◀][▶] buttons to highlight the date containing the event you want to edit.

4 Highlight the event you want to edit, and then press the [Esc] button.

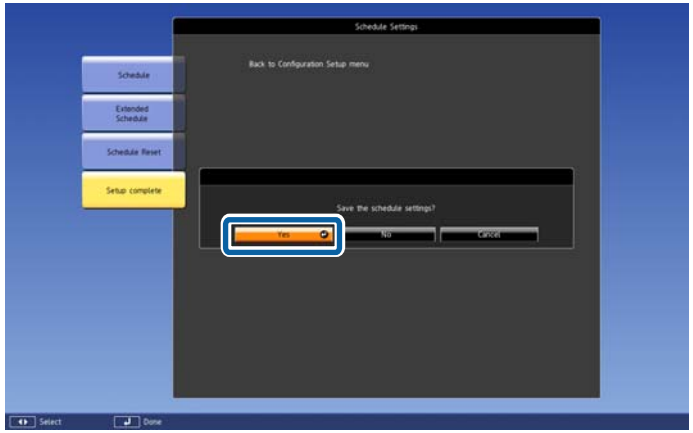


5 Edit the event.

Submenu Name	Function
On/Disabled	Enable or disable the selected event.

Submenu Name	Function
Edit	Edits the content of the selected event. Select **Save**, and then press the [↵] button to complete the editing.
Clear	Deletes the selected event.
Add New	Saves a new event. Select **Save**, and then press the [↵] button to complete the registration.

6 Select **Setup complete**, and then select **Yes** to finish editing.



To delete all registered events, select **Schedule Reset**, and then select **Yes**. Select **Setup complete**, and then select **Yes** to delete the events.

The projector has the following enhanced security functions.

- Password protect
  You can limit who can use the projector.
- Control Panel Lock/Remote Control Button Lock
  You can prevent people changing the settings on the projector without permission.
  ☛ "Restricting Operation" p.119
- Anti-Theft Lock
  The projector is equipped with the following anti-theft security device.
  ☛ "Anti-Theft Lock" p.121

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 function 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 four 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** or **Startup Screen** from **Display**
    ☛ **Extended** - **Display** p.133
- **Network Protection**
  When **Network Protection** is set to **On**, changing the settings for **Network** is prohibited.
  ☛ "Network Menu" p.137
- **Schedule Protection**
  When **Schedule Protection** is set to **On**, changing settings for the projector's system time or schedules is prohibited.

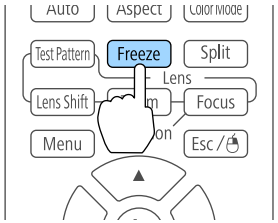
Setting Password Protection

Use the following procedure to set Password Protect.

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

The Password Protection setting menu is displayed.

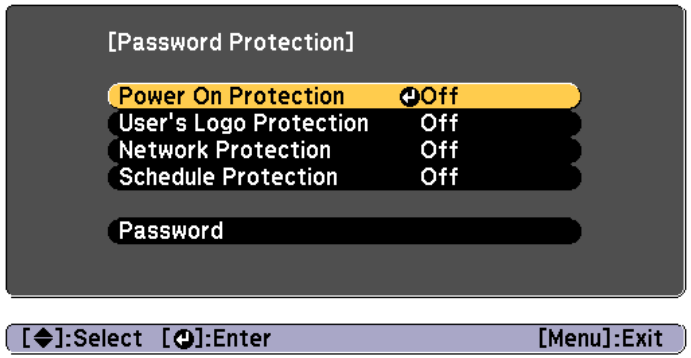
Remote control



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.118

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



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

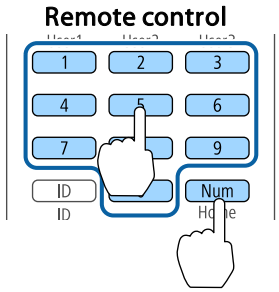
Press the [Esc] button to return to the screen in step 2.

4 Set the password.

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

(2) When the message "Change the password?" is displayed, select **Yes** and then press the [↵] button. The default password is set to "0000". Change this to your own desired password. If you select **No**, the screen displayed in step 2 is displayed again.

(3) While holding down the [Num] button, enter a four digit number using the numeric buttons. The number entered is displayed as "* * * *". When you enter the fourth digit, the confirmation screen is displayed.

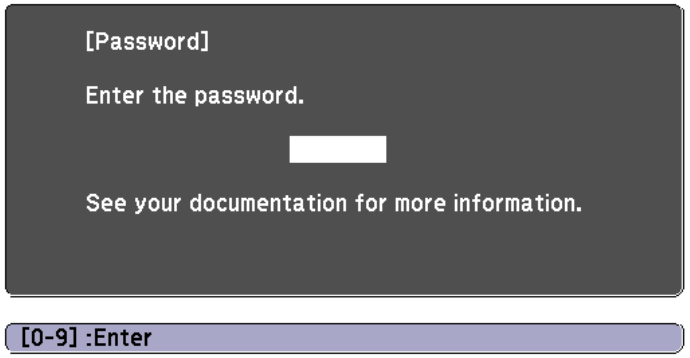


(4) Re-enter the password.
"Password accepted." is displayed.
If you enter the password incorrectly, a message is displayed prompting you to re-enter the password.

Entering the password

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

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



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

Attention

- If an incorrect password is entered three times in succession, the message "The projector's operation will be locked." is displayed for approximately five minutes, and then the projector switches to standby mode. If this happens, disconnect the power plug from the electrical outlet and then reinsert it and turn the projector's power back on. The projector displays the password entry screen again so that you can enter the correct password.
- If you have forgotten the password, make a note of the "**Request Code**: xxxxx" number that appears on the screen and contact the nearest address provided in the Epson Projector Contact List.
  ☛ *Epson Projector Contact List*
- If you continue to repeat the above operation and 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

The following three kinds of operation restriction functions are available with the projector.

- Control Panel Lock
  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.
- Lens Lock
  This function deactivates all buttons on the remote control related to the lens operation to prevent improper lens adjustment after it is properly adjusted.
- Remote control button lock
  This function deactivates buttons except for main buttons needed for basic remote control operation, to prevent mistakes in operations.

Control Panel Lock

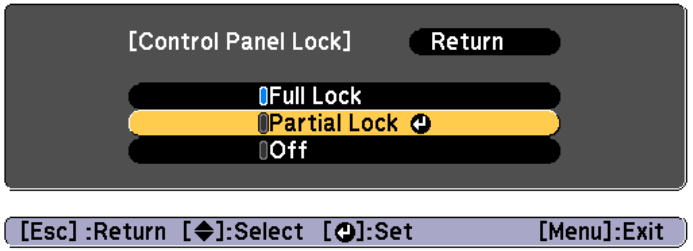
Perform one of the following to lock the operation buttons on the control panel. Even if the control panel is locked, you can still use the remote control as usual.

- 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.

1 Press the [🔒] button on the control panel during projection to display the Control Panel Lock screen.

> You can also make settings in **Control Panel Lock** from the configuration menu.
> ☛ **Settings - Lock Setting - Control Panel Lock** p.131

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



3 Select **Yes** when the confirmation message is displayed.

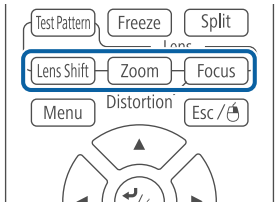
The control panel buttons are locked according to the setting you chose.

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

- Use the remote control to set **Control Panel Lock** to **Off** from the configuration menu.
  ☛ **Settings** - **Lock Setting** - **Control Panel Lock** p.131
- Press and hold down the [↵] button on the control panel for about seven seconds, a message is displayed and the lock is released.

Lens Lock

This function locks the following buttons on the remote control related to the lens operation.

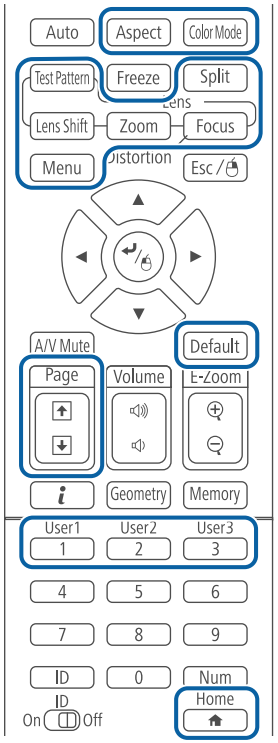


Set the **Lens Lock** to **On** in the Configuration menu.

☛ **Settings** - **Lock Setting** - **Lens Lock** p.131

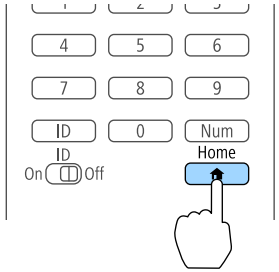
Remote control button lock

This function locks the following buttons on the remote control.



Each time the [⌂] button is pressed for approximately 5 seconds, the remote control button lock turns on or off.

Remote control



Even if the remote control button lock is on, the following operations are possible.

- Resetting default for the Remote Receiver setting
- Releasing the remote control button lock

Anti-Theft Lock

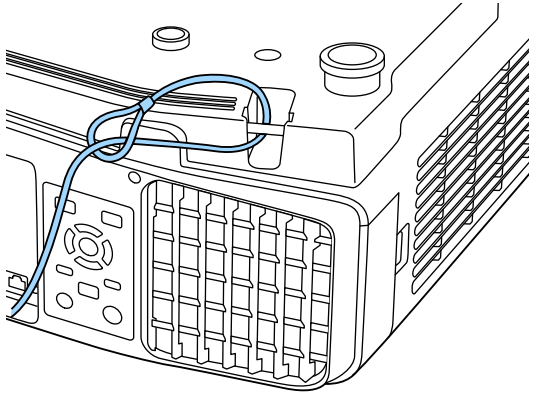
The projector is equipped with the following types of anti-theft security devices.

- Security slot
  The security slot is compatible with the Microsaver Security System manufactured by Kensington.
  See the following for more details on the Microsaver Security System.
  ☛ http://www.kensington.com/
- Security cable installation point
  A commercially available theft-prevention wire lock can be passed through the installation point to secure the projector to a desk or pillar.

Installing the wire lock

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

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



Attention

Do not pass drop-prevention wires through the security cable installation point.

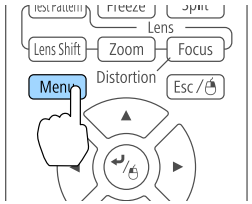
Configuration Menu

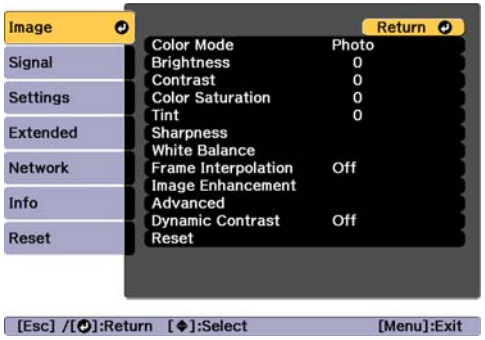
This chapter explains how to use the Configuration menu and its functions.

This section explains how to use the Configuration menu.

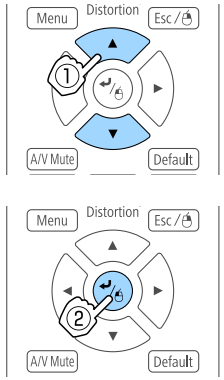
Although steps are explained using the remote control as an example, you can perform the same operations from the control panel. Check the guide under the menu for the available buttons and their operations.

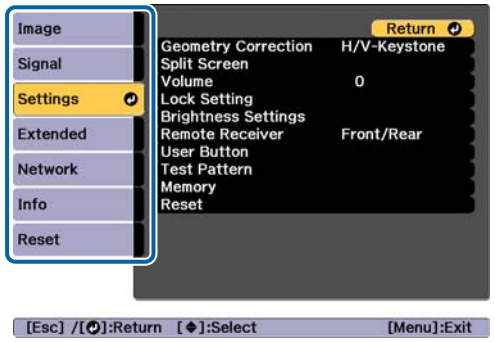
1 Display the Configuration menu screen.



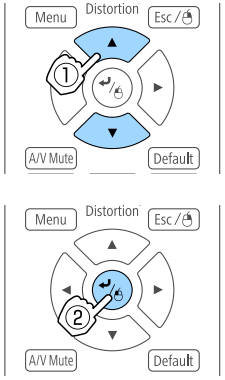


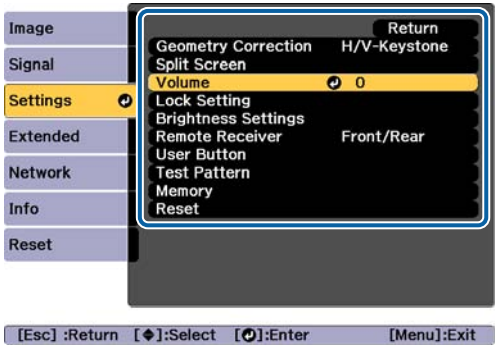
2 Select a top menu item.



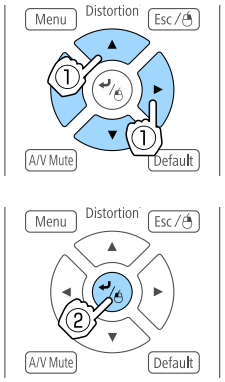


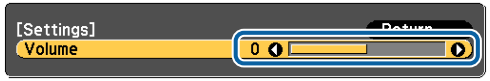
3 Select a submenu item.

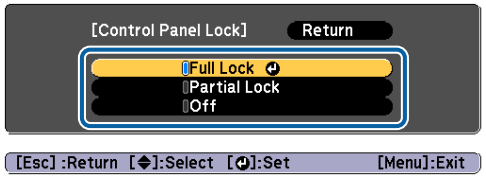




4 Change settings.







> When "[Default]: Reset" is displayed on the guide under the menu, pressing the [Default] button on the remote control returns the settings being adjusted to their default values.

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.127	Color Mode	Dynamic, Presentation, Cinema, sRGB, DICOM SIM, Multi-Projection
	Brightness	0 - 100
	Contrast	0 - 100
	Color Saturation	0 - 100
	Tint	0 - 100
	Sharpness	Standard, Thin Line Enhancement, Thick Line Enhancement
	White Balance	Color Temp., G-M Correction, Customized
	Frame Interpolation	Off, Low, Normal, and High
	Image Enhancement	4K Enhancement, Image Preset Mode, Noise Reduction, MPEG Noise Reduction, Super-resolution, Detail Enhancement
	Advanced	Gamma, RGBCMY, Deinterlacing
	Dynamic Contrast	Off, Normal, and High Speed
Signal menu ☛ p.129	Resolution	Auto, Wide, Normal, and Manual
	Aspect	Auto, Normal, 4:3, 16:9, Full, H-Zoom, V-Zoom, Native
	Tracking	-
	Sync.	0 - 31
	Position	-128 - 127
	Auto Setup	On, Off
	Overscan	Auto, Off, 4%, and 8%
	Blanking	Top, Bottom, Left, and Right
	Advanced	Video Range, Input Signal, Image Processing
	Scale	Scale, Scale Mode, Scale Vertically, Scale Horizontally, Clip Adjustment, Clip Range
Settings menu ☛ p.131	Geometry Correction	Off, H/V-Keystone, Quick Corner, Curved Surface, Corner Wall, Point Correction, Memory
	Split Screen	-
	Volume	0 - 20
	Lock Setting	Control Panel Lock, Lens Lock
	Brightness Settings	Light Source Mode, Brightness Level, Constant Brightness, Estimated Remains
	Remote Receiver	Front/Rear, Front, Rear, and Off
	User Button	User Button 1, User Button 2, and User Button 3
	Test Pattern	Standard, Cross-hatching, Color Bars V, Color Bars H, Grayscale, Gray Bars V, Gray Bars H, Checkerboard 1, Checkerboard 2, White, Black, Aspect Frame
	Memory	Memory, Lens Position, Geometry Correction
Extended menu ☛ p.133	Home Screen	Home Screen Auto Disp., Custom Function 1, Custom Function 2

Top Menu Name	Submenu Name	Items or Setting Values
	Display	Menu Position, Message Position, Messages, Display Background, Startup Screen, Standby Confirmation, Air Filter Notice, Screen, Panel Alignment, Color Uniformity, OSD Rotation
	User's Logo	-
	Projection	Front, Front/Ceiling, Rear, and Rear/Ceiling
	Operation	Direct Power On, Sleep Mode, Sleep Mode Timer, High Altitude Mode, Auto Source Search, Auto Power On, A/V Mute Settings, Advanced, Date & Time, Lens Calibration
	A/V Settings	A/V Output, Monitor Out, and Audio Settings
	Standby Mode	Communication On and Communication Off
	HDBaseT	Control Communications, Extron XTP
	Color Calibration	Start Auto Adjustment, Undo, Redo, Color Uniformity
	Multi-Projection	Projector ID, Projector Grouping, Tiling, Geometry Correction, Edge Blending, Black Level, Scale, Screen Matching
	Schedule Settings	-
	Language	27 languages

Top Menu Name	Submenu Name	Items or Setting Values
Info menu ☛ p.145	Projector Info	Total Op. Time, Operation Hours, Sources, Input Signal, Resolution, Refresh Rate, Sync Info, Status, Serial Number, Lens Type, Event ID, HDBaseT Signal Level
	Light Source Info	Light Source Hours, Estimated Remains
	Version	Main, Video2
	Status Information	Status Information, Source, Signal Information, Network Wired, Network Wireless, Maintenance, Version
Reset Menu ☛ p.146	Reset All Memories	-
	Reset All Config	-

Network menu

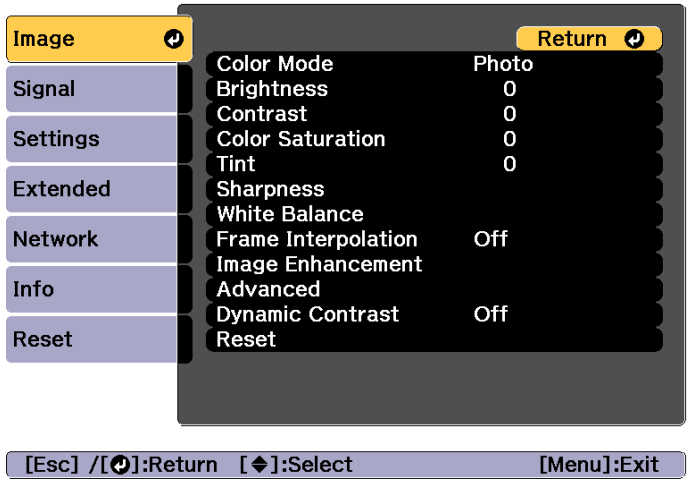
Top Menu Name	Submenu Name	Items or Setting Values
Basic menu ☛ p.139	Projector Name	-
	PJLink Password	-
	Remote Password	-
	Web Control Password	-
	Projector Keyword	On, Off
	Display LAN Info.	Text & QR Code, Text
Wireless LAN menu ☛ p.140	Connection Mode	Quick, Advanced
	Search Access Point	-
	SSID	-
	Security	Open, WPA2-PSK, WPA/WPA2-PSK

Top Menu Name	Submenu Name	Items or Setting Values
	Passphrase	-
	Channel	1ch, 6ch, and 11ch
	IP Settings	DHCP, IP Address, Subnet Mask, Gateway Address
	SSID Display	On, Off
	IP Address Display	On, Off
Wired LAN menu ☛ p.142	IP Settings	DHCP, IP Address, Subnet Mask, Gateway Address
	IP Address Display	On, Off
Notifications menu ☛ p.144	Mail Notification	On, Off
	SMTP Server	-
	Port Number	-
	From	-
	Address 1 Setting, Address 2 Setting, Address 3 Setting	Email Address, No Signal, System Error, Laser Error, High Temp Error, Air Filter Error, Laser Warning, High Temp Warning, Air Filter Warning, Air Filter Notice
	SNMP	On, Off
	Trap IP Address 1, Trap IP Address 2	-
	Community Name	-
Others menu ☛ p.144	Priority Gateway	Wired LAN, Wireless LAN
	AMX Device Discovery	On, Off
	Crestron RoomView	On, Off
	Control4 SDDP	On, Off
	Art-Net	Art-Net, Net, Sub-Net, Universe, Start Channel
	Message Broadcasting	On, Off

Image Menu

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

☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59



Submenu	Function
Color Mode	You can select the quality of the image to suit your surroundings. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.74

Submenu	Function
Brightness	Adjusts the image brightness.
Contrast	Adjusts the difference between light and shade in the images.
Color Saturation	Adjusts the color saturation for the images.
Tint	You can adjust the image tint.
Sharpness	**Standard**: You can adjust the image sharpness. **Thin Line Enhancement**: If this parameter is set to a positive value, details such as hair or fabric patterns will be enhanced. **Thick Line Enhancement**: If this parameter is set to a positive value, the outline, background, and the other main parts of the objects in the image will be enhanced to show them clearly.
White Balance	You can adjust the overall tint of the image. **Color Temp.**: You can adjust the overall tint of the image. When the **Color Mode** is set to **sRGB** or **DICOM SIM**, adjust to 11 steps in 3200K, 5000K to 10000K. When the **Color Mode** is set to anything other than **sRGB** and **DICOM SIM**, you can adjust it in a range of 0 to 10. The image is tinted blue when a high value is selected and tinted red when a low value is selected. **G-M Correction**: The color tone is tinted red when set to a negative value, and tinted green when set to a positive value. **Customized**: You can adjust the offset and gain of each color R (red), G (green), and B (blue) individually.
Frame Interpo-la-tion *1, 2, 3, 4, 5, 6, 7	You can play fast moving images smoothly by producing intermediate frames between the original frames.

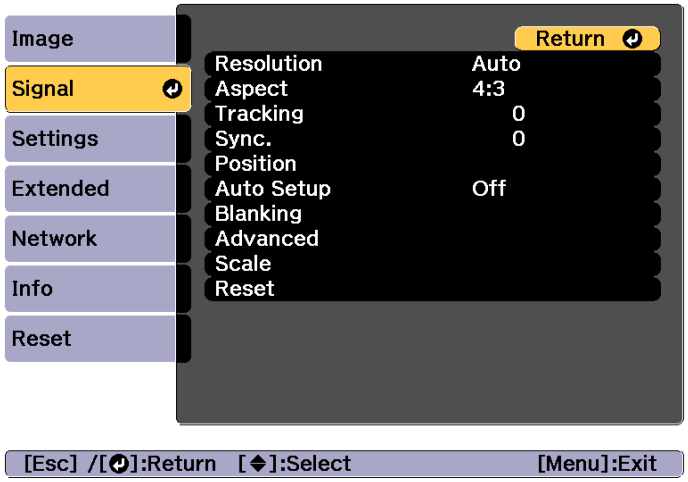
Submenu	Function
Image Enhance-ment	You can adjust the image resolution. ☛ "Adjusting Image Resolution (Image Enhancement)" p.84 **4K Enhancement**: You can project at a doubled resolution. **Image Preset Mode**: You can select the optimal setting according to the projected image from five presets prepared in advance. **Noise Reduction***2, 3, 7: You can smooth out the roughness in progressive images. **MPEG Noise Reduction***2, 3: You can reduce dot and block noise that occurs in outlines when projecting MPEG movies. **Super-resolution**: To display a crisp image, you can reduce the blurring that is created on the edge when the resolution of the image signal is scaled up and projected. **Detail Enhancement**: You can enhance the contrast of details in an image.
Advanced	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. **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. **Deinterlacing***7, 9: You can convert interlace signals into progressive signals. (IP conversion) **Off** is ideal for images with a large amount of movement, **Video** for general video images, and **Film/Auto** for movie films, computer graphics, and animation.
Dynamic Con-trast *8	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.

Submenu	Function
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.146

*1 This cannot be set when E-Zoom is used.
*2 This cannot be set when the signal input exceeds WUXGA.
*3 This cannot be set when 4K Enhancement is enabled.
*4 This cannot be set when **Edge Blending** is **On**.
*5 This cannot be set when **Scale** is enabled.
*6 This cannot be set when **Image Processing** is set to **Fast 1**.
*7 This cannot be set when **Image Processing** is set to **Fast 2**.
*8 This can be set only if **Color Mode** is set to **Dynamic** or **Cinema**.
*9 This can be set only when the input signal is 480i, 576i, or 1080i.

Signal Menu

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

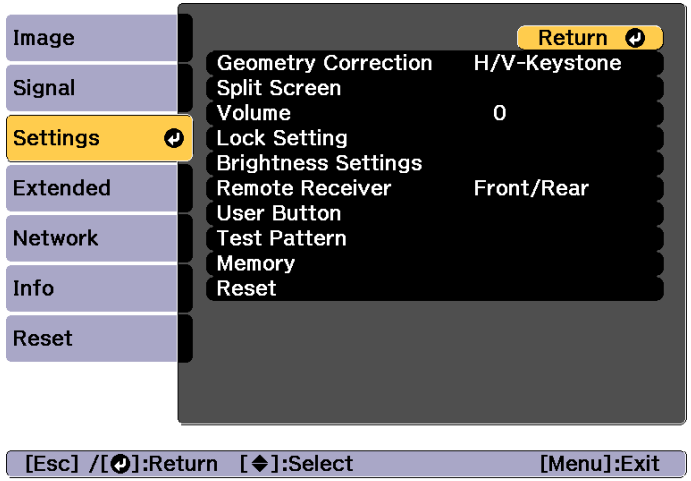


Submenu	Function
Resolution	(Only available when an analog RGB computer signal is being input.) Set to **Auto** to automatically identify the resolution of the input signal. If images are not projected correctly when set to **Auto**, for example if some of the image is missing, set to **Wide** for wide screens, or set to **Normal** for 4:3 or 5:4 screens depending on the connected computer. **Manual** allows you to specify the resolution. This is ideal when connected computer is fixed.
Aspect	You can set the Aspect Ratio for projected images. ☛ "Changing the Aspect Ratio of the Projected Image " p.78
Tracking	(Only available when an analog RGB computer signal is being input.) You can adjust computer images when vertical stripes appear in the images.
Sync.	(Only available when an analog RGB computer signal is being input.) You can adjust computer images when flickering, fuzziness, or interference appear in the images.

Submenu	Function
Position	You can adjust the display position up, down, left, and right when a part of the image is missing so that the whole image is projected.
Auto Setup	(Only available when an analog RGB computer signal is being input.) Set to **On** to automatically adjust Tracking, Sync., and Position to the optimum state when the input signal changes.
Overscan	Changes the output image ratio (the range of the projected image). You can set the cropping range to **4%** or **8%**. When set to **Auto**, this is automatically adjusted according to the input signal.
Blanking	You can hide images in the set area. Use the [◀][▶] buttons to adjust the area. You can adjust by using a combination of **Top**, **Bottom**, **Left**, and **Right**.
Advanced	You can set by choosing the following items. **Video Range**: Select the video range for the input signal from the HDMI port, DVI-D port, HDBaseT port, or SDI. Set to **Expanded** if you are concerned about misadjusted black levels or blown out highlights in the image. **Input Signal**: Select an input signal from the Computer port or BNC 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. **Image Processing**: Changes settings for image processing. • **Fine**: When **Frame Interpolation** is **On**, Frame Interpolation is enabled. • **Fast 1**: Images are displayed quicker without any loss in image quality. • **Fast 2**: Images are displayed quicker than **Fast 1**.
Scale	When using multiple projectors to project one image, adjust the range of the image displayed by each projector. ☛ "Displaying a Scaled Image" p.102

Submenu	Function
Reset	You can reset all adjustment values on the **Signal** menu to their default settings, except for **Input Signal**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.146

Settings Menu

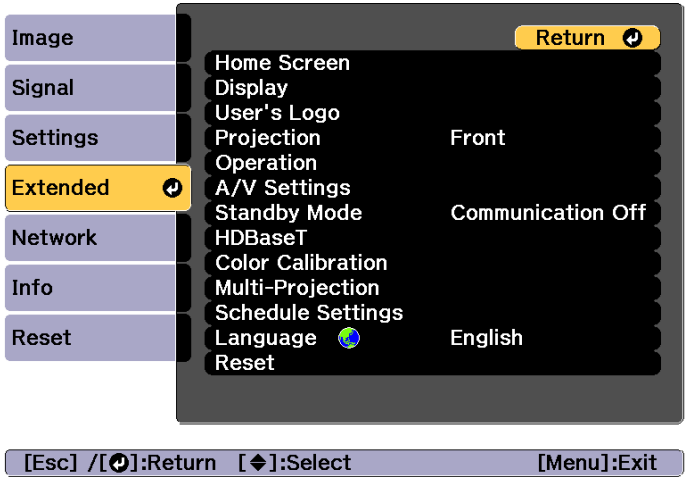


Submenu	Function
Geometry Correction	You can correct distortion. ☛ "Correcting Distortion in the Projected Image" p.62 • **Off**: Temporarily cancels the geometry correction. • **H/V-Keystone**: Adjust **V-Keystone**, **V-Balance**, **H-Keystone**, and **H-Balance** to correct vertical and horizontal keystone distortion. • **Quick Corner**: Select and correct the four corners of the projected image. • **Curved Surface**: Corrects distortion that occurs when projecting on a curved surface. • **Corner Wall**: Corrects distortion that occurs when projecting on a surface with right angles. • **Point Correction**: Divides the projected image into a grid and corrects the distortion by moving the selected point of intersection from side to side and up and down. • **Memory**: You can save the adjustment value of the geometry correction and load it when needed. ☛ "Memory Function" p.111
Split Screen	You can split the screen into two screens. ☛ "Projecting Two Images Simultaneously (Split Screen)" p.104
Volume	You can adjust the volume. Setting values are saved for each source.

Submenu	Function
Lock Setting	**Control Panel Lock**: You can use this to restrict operation of the projector's control panel. ☛ "Control Panel Lock" p.119 **Lens Lock**: When set to **On**, [Lens Shift], [Zoom], and [Focus] button operations on the remote control are disabled. ☛ "Lens Lock" p.120
Brightness Settings	**Light Source Mode**: Set the brightness for the light source. • **Normal**: Select this if you do not want to decrease the brightness. This makes the target usage time approximately 20,000 hours. • **Quiet**: Select this if you are concerned about the noise made by the fan, This sets the brightness at 70%. This makes the target usage time 20,000 hours. • **Extended**: Select this to extend the life expectancy of the light source. This sets the brightness at 70%. This makes the target usage time approximately 30,000 hours. • **Custom**: Select this to set the brightness level within a range of 30 to 100%. **Brightness Level**: (Only available when **Light Source Mode** is set to **Custom**) Sets the brightness for the light source. **Constant Brightness**: (Only available when **Light Source Mode** is set to **Custom**) When set to **On**, the brightness of the light source set in **Brightness Level** is maintained as it is. When **Constant Brightness** is set to **On**, you cannot change the settings for **Light Source Mode** and **Brightness Level**. ☛ "Setting the Brightness" p.74 **Estimated Remains**: When **Constant Brightness** is set to **On**, this indicates the amount of time for which constant brightness can be maintained. ☛ "Guide to Estimated Remains" p.76

Submenu	Function
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	Select the items in the Configuration menu that you want to assign to the [User1], [User2], and [User3] buttons on the remote control. The following items can be assigned. **Light Source Mode**, **Multi-Projection**, **Resolution**, **Image Processing**, **On-Screen Display**, **Display the QR Code**, **Image Enhancement**, **Frame Interpolation**, **Screen Matching**, **Color Calibration**
Test Pattern	You can display a test pattern to adjust the projection without connecting other equipment when you set up the projector. ☛ "Displaying a Test Pattern" p.31
Memory	Perform operations and make settings for the memory function. ☛ "Memory Function" p.111
Reset	You can reset all adjustment values on the **Settings** menu to their default settings, except for **User Button** and **Memory**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.146

Extended Menu



Submenu	Function
Home Screen	**Home Screen Auto Disp.**: When set to **On**, the Home screen is displayed when the projector turns on. The Home screen is not displayed when the selected source has an image signal when the projector turns on. **Custom Function 1**, **Custom Function 2**: Select functions to be assigned to the Home screen from the following five functions. **Network Settings**, **Info**, **Image Enhancement**, **Frame Interpolation**, **Split Screen**

Submenu	Function
Display	You can make settings related to the projector's display. **Menu Position**: Select the position to display the menu on the projected screen. **Message Position**: Select the position to display the message on the projected screen. **Messages**: When set to **Off**, the following items will not be displayed. Item names when the Source, Color Mode, or Aspect is changed, messages when no signal is being input, and warnings such as High Temp Warning. **Display Background***: You can set the screen background to **Black**, **Blue**, or **Logo** when no image signal is available. **Startup Screen***: Set to **On** to display the **User's Logo** when you turn on the projector. **Standby Confirmation**: (This is unavailable when the **Remote Control Type** is set to **Simple**.) If it is set to **Off**, you can turn off the power simply by pressing the [⏻] button once. **Air Filter Notice**: You can set whether or not (**On**/**Off**) to enable Air Filter Notice. When this is set to **On** and a clog in the air filter is detected, the message is displayed on the screen. **Screen**: (This is unavailable when projecting images from a computer over a network.) Set the aspect ratio and position of the projected screen according to the screen being used. ☛ "Screen Settings" p.30 **Panel Alignment**: Correct color misalignments (red and blue) in the screen. ☛ "Panel Alignment" p.189 **Color Uniformity**: Adjusts the color tone balance for the whole screen. ☛ "Color Uniformity" p.191 **OSD Rotation**: Rotates the menu direction by 90 degrees.

Submenu	Function
User's Logo *	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.109
Projection	Select from one of the following projection methods depending on how the projector is installed. **Front**, **Front/Ceiling**, **Rear**, and **Rear/Ceiling** You can change the setting as follows by pressing down the [A/V Mute] button for about five seconds. **Front↔Front/Ceiling** **Rear↔Rear/Ceiling**

Submenu	Function
Operation	**Direct Power On**: Set to **On** to turn on the projector simply by plugging it in. When the power cord is plugged in, note that the projector turns on automatically in cases such as a power outage being restored. **Sleep Mode**: When set to **On**, this automatically stops projection when no image signal is being input and no operations are carried out. **Sleep Mode Timer**: When **Sleep Mode** is set to **On**, you can set the time before the projector automatically turns off within a range of 1 to 30 minutes. **High Altitude Mode**: Set to **On** when using the projector above an altitude of 1,500 m. **Auto Source Search**: Set to **On** to automatically detect an image signal from another source and project the image when there is no image signal from the current source. **Auto Power On**: If it is set to **Computer** or **BNC**, the projector is turned on when the signals are received from the Computer port or BNC port, even when the projector is in standby status. **A/V Mute Settings**: Perform settings related to A/V mute. • **Fade-in**: Specify the number of seconds for fade-in when displaying an image. • **Fade-out**: Specify the number of seconds for fade-out when hiding an image. • **A/V Mute Timer**: When it is set to **On**, if no operations are performed for about 2 hours after A/V mute is activated, the projector turns off automatically. • **A/V Mute Release**: When it is set to **A/V Mute**, you can release A/V mute only by pressing the [A/V Mute] button (or by sending an A/V mute Off command). When set to **Any Button**, A/V mute is released when any operation is performed on the projector.

Submenu	Function
	☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.107 **Advanced**: The following items can be set. • **BNC Sync Termination**: Set the termination for the signal from the BNC port. This should usually be set to **Off**. Set to **On** when analog (75Ω) termination such as for switchers is necessary. • **Remote Control Type**: You can select **Normal** or **Simple** depending on the type of remote control. Set this item to **Normal** to use the remote control provided with this projector. When **Simple** is selected, you can use the remote control provided with other Epson projectors to operate this projector. This is useful if you want to use a remote control that you are already familiar with to operate the projector. However, you cannot use the remote control provided with this projector if this is set to **Simple**. Make sure that the setting is correct because, if the projector is mounted on the ceiling or somewhere hard to reach, changing it back to **Normal** may be difficult. Additionally, you cannot use the functions that are not equipped with this projector or the remote control which you use. • **Beep**: When this is set to **On**, the confirmation buzzer beeps to notify you that the power turns on or off, or cooling down is finished. • **Indicators**: When set to **Off**, the projector's indicators are turned off, except for abnormality or warning. • **Instant Off**: When set to **Enabled**, the projector goes into standby status in approximately three seconds after Power Off. If you turn the power on immediately after turning it off, command communication may be cut off. To stabilize command communication, set this to **Disabled**. When set to **Disabled**, the projector goes into standby status in approximately 75 seconds after power off. • **Inv Direction Button**: Set this to **On** when the projector is installed on a ceiling. • **HDMI DDC Buffer**: If the image from a device connected using an HDMI extension cable is not displayed correctly, turning this **On** may improve the image. • **DVI-D DDC Buffer**: If the image from a device connected using a DVI extension cable is not displayed correctly, turning this **On** may improve the image. • **Lens Type**: When using the following lens, select the model number of the lens. ELPLS04, ELPLU02, ELPLR04, ELPLW04, ELPLM06, ELPLM07, ELPLL07 **Date & Time**: Make system time settings for the projector. ☛ "Setting the Time" p.41 **Lens Calibration**: Acquires the information of the lens installed on the projector.

Submenu	Function
A/V Settings	**A/V Output**: Set this to **Always On** if you want to output audio and images to an external device even when the projector is in standby status. **Monitor Out**: Select the image source output to an external monitor when the projector is in standby status. When set to **Auto**, analog RGB signals from the Computer port or the BNC port are output depending on which source was selected when the projector was turned off. **Audio Settings**: Performs the following audio related settings. • **Audio Output**: Select the audio to be output when projecting images from the Computer port, BNC port, or DVI-D port. When set to **Auto**, audio is output from the audio input port corresponding to each image input port. ☛ "Connecting Equipment" p.45 • **HDMI Audio Output**: Select the audio source when projecting images from the HDMI port. If you select **HDMI**, audio for the image is output as it is. If you select **Audio3**, audio is output from the Audio3 port.
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 over a network. • Output audio and images to an external device. (Only when **A/V Output** is set to **Always On**.) • Communication from the HDBaseT port is enabled. (Only when **Control Communications** is set to **On**.) When monitoring or controlling the projector using wireless LAN, set **Connection Mode** to **Advanced**. ☛ **Network - Wireless LAN - Connection Mode** p.140

Submenu	Function
HDBaseT	**Control Communications** (This cannot be set when **Extron XTP** is set to **On**.) When set to **On**, Ethernet communication, serial communication, and the wired remote control through the HDBaseT Transmitter connected to the HDBaseT port are all enabled. **Extron XTP**: Set to **On** when you connect the Extron XTP transmitter or switcher to the HDBaseT port. See the following Extron Web site for more details on the XTP system. http://www.extron.com/ • When **Control Communications** or **Extron XTP** is set to **On**, **Standby Mode** is automatically set to **Communication On**. • When **Control Communications** or **Extron XTP** is **On**, the projector's LAN port, RS-232 port, and Remote port are disabled. • When **Extron XTP** is set to **On**, the fan may rotate in standby mode but this is not abnormal.
Color Calibration	**Start Auto Adjustment**: Automatically adjusts the color tone for the whole screen. ☛ "Color Calibration" p.188 **Undo**: Undoes the auto adjustment. **Redo**: Redoes the auto adjustment. **Color Uniformity**: Adjusts the color tone balance for the whole screen. ☛ "Color Uniformity" p.191 **Reset**: You can reset all adjustment values for **Color Calibration** to their default values.

Submenu	Function
Multi-Projection	Make settings when projecting from multiple projectors. ☛ "Multi-Projection Function" p.90 **Projector ID**: Set the ID from 1 to 30. **Off** indicates that no ID is set. ☛ "ID Settings" p.40 **Projector Grouping**: When using multiple projectors to project one image, select the projectors being used. **Tiling**: Set the number of split screens and positions of each projected image. ☛ "Tiling" p.91 **Geometry Correction**: Corrects distortion in the projected image. ☛ "Correcting Distortion in the Projected Image" p.62 **Edge Blending**: Corrects a border between multiple images to create a seamless screen. ☛ "Edge Blending" p.93 **Black Level**: Adjusts the differences in brightness and tone for areas where images overlap and areas where the images do not overlap. ☛ "Black Level" p.95 **Scale**: When using multiple projectors to project one image, adjust the range of the image displayed by each projector. ☛ "Displaying a Scaled Image" p.102 **Screen Matching**: Adjusts the tint and brightness for each projector. ☛ "Screen Matching" p.99 **Reset**: You can reset all adjustment values for the **Multi-Projection** menu to their default settings.
Schedule Settings	You can set the projector's schedule so that it performs a specific operation at a pre-scheduled time. ☛ "Scheduling Function" p.113
Language	You can set the language for messages and menus.

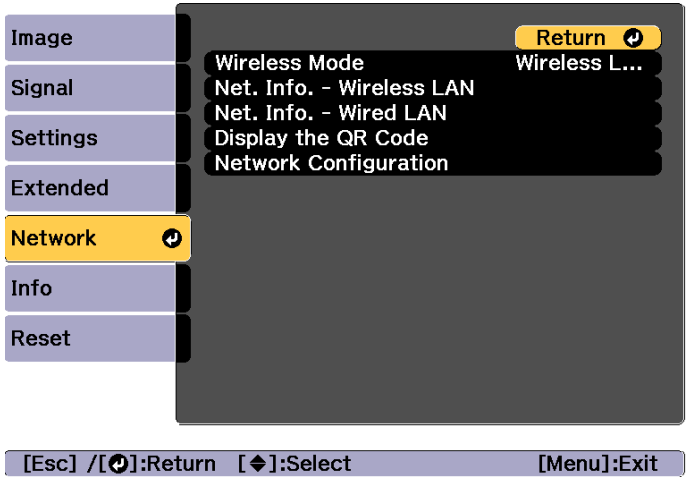
Submenu	Function
Reset	You can reset all adjustment values for the **Extended** menu to their default settings. However, the following items are not reset. **Screen Type**, **Screen Position**, **Projection**, **High Altitude Mode**, **Auto Source Search**, **A/V Mute Release**, **Remote Control Type**, **Inv Direction Button**, **Lens Type**, **Date & Time**, **Lens Calibration**, **A/V Output**, **Monitor Out**, **Standby Mode**, **Control Communications**, **Extron XTP**, **Projector ID**, **Color Calibration**, **Projector Grouping**, **Screen Matching**, **Color Matching**, and **Language** See the following to return all menu items to their default settings. ☛ "Reset Menu" p.146

* When **User's Logo Protection** is set to **On** in **Password Protection**, you cannot change settings related to user's logo. You can make changes after setting **User's Logo Protection** to **Off**.
☛ "Managing Users (Password Protection)" p.117

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.117



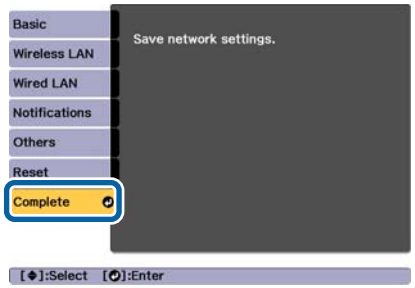
Submenu	Function
Wireless Mode	Set this to **Wireless LAN On** when connecting the projector and a computer via a wireless LAN. If you do not want to connect via wireless LAN, turn it **Off** to prevent unauthorized access by others.
Net. Info. - Wireless LAN	Displays the following network setting status information. • Connection Mode • Wireless LAN Sys. • Antenna Level • Projector Name • SSID • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address • Region Code

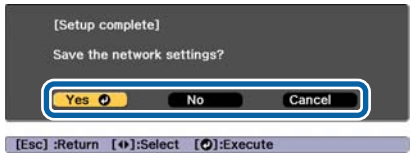
Submenu	Function
Net. Info. - Wired LAN	Displays the following network setting status information. • Projector Name • DHCP • IP Address • Subnet Mask • Gateway Address • MAC Address
Display the QR Code	Displays the QR code.
Network Configuration	The following menus are available for setting Network items. **Basic**, **Wireless LAN**, **Wired LAN**, **Notifications**, **Others**, **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 **Complete** menu, and select **Yes**, **No**, or **Cancel**. When you select **Yes** or **No**, you are returned to the Configuration menu.





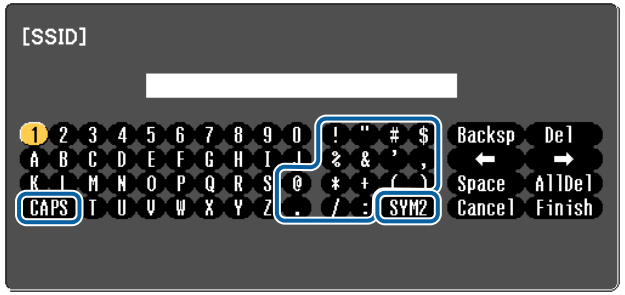
Yes: Saves the settings and exits the Network menu.

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 [▲][▼][◀][▶]buttons to move the cursor to the desired key, and then press the [↵] button to enter the selected character. Enter figures by holding down the [Num] button on the remote control, and pressing the numeric buttons. After inputting, press **Finish** on the keyboard to confirm your input. Press **Cancel** on the keyboard to cancel your input.

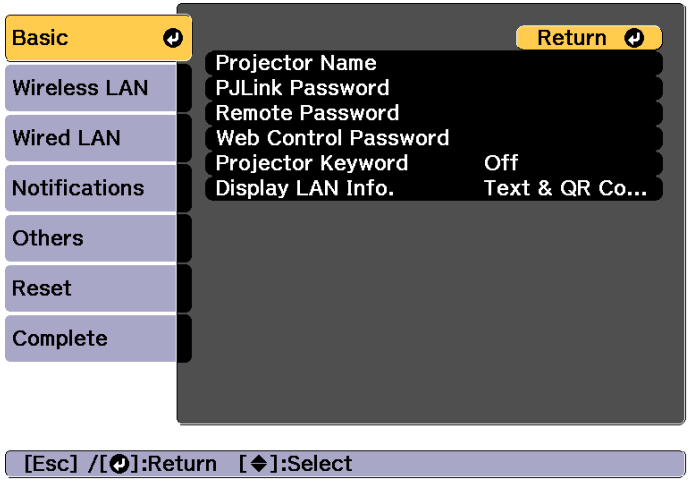


- Each time the **CAPS** key is selected and the [↵] button is pressed, it sets and changes between upper case and lower case letters.
- Each time the **SYM1/2** key is selected and the [↵] button is pressed, it sets and changes the symbol keys for the section enclosed by the frame.

The following types of character can be entered.

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

Basic menu



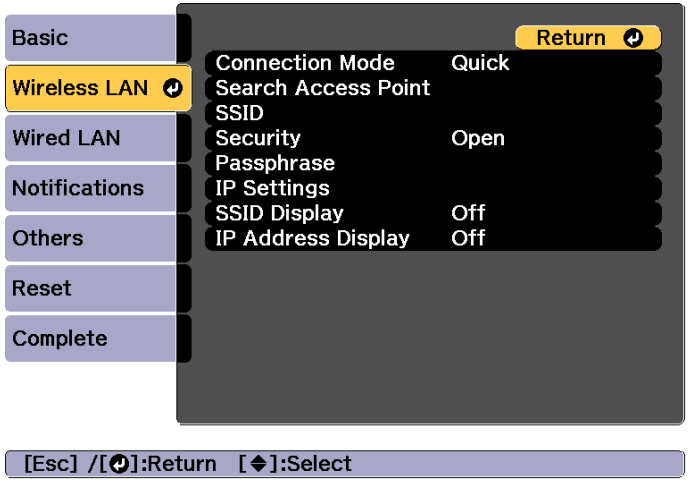
Submenu	Function
Projector Name	The projector's name is displayed when using the supplied application EasyMP Multi PC Projection. When editing, you can enter up to 16 single-byte alphanumeric characters.(" * + , / : ; < = > ? [\ ] ` | and spaces cannot be used.)
PJLink Password	Set a password to use when you access the projector using compatible PJLink software. You can enter up to 32 single-byte alphanumeric characters. (Spaces and symbols other than @ cannot be used.) ☛ "About PJLink" p.201
Remote Pass-word	Set a password to use Remote in Epson Web Control. You can enter up to 8 single-byte alphanumeric characters. (* : and spaces cannot be used.) The default user name is "EPSONREMOTE" and the default password is "guest". ☛ "Changing Settings Using a Web Browser (Epson Web Control)" p.194

Submenu	Function
Web Control Password	Set a password for authentication to use when making settings and controlling the projector using Web Control in Epson Web Control. You can enter up to eight single-byte alphanumeric characters (* : and spaces cannot be used). The default user name is "EPSONWEB" and the default password is "admin". ☛ "Changing Settings Using a Web Browser (Epson Web Control)" p.194
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 Multi PC Projection Operation Guide*
Display LAN Info.	Set the display format for the projector's network information. If you display the QR code, you can connect to a network just by reading the QR code in Epson iProjection. **Text & QR Code** is set by default.

Wireless LAN menu

To connect the projector to a computer using a wireless LAN, install the Wireless LAN unit (ELPAP10).

☛ "Installing the Wireless LAN Unit" p.52



Submenu	Function
Connection Mode	Set the connection mode to use when connecting the projector and a computer via a wireless LAN. **Quick**: Lets you directly connect to a smartphone, tablet, or computer via a wireless LAN. **Advanced**: Lets you connect to a smartphone, tablet, or computer over a wireless LAN access point. The connection is established in infrastructure mode.
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. ☛ "Search Access Point screen" p.142
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.

Submenu	Function
Security	Select the security type according to the wireless LAN settings. When setting security, follow the instructions of your network administrator.
Passphrase	Enter a passphrase used to connect to the network when **Security** is set to **WPA2-PSK** or **WPA/WPA2-PSK**. You can enter at least 8 and up to 63 single-byte alphanumeric characters. 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 (Epson Web Control)" p.194 When Connection Mode is set to **Quick**, the initial passphrase is set.
Channel	You can select the channels used to connect in Quick mode. If interference from other signals occurs, use a different channel.

Submenu	Function
IP Settings	(This can only be set if Connection Mode is set to **Advanced**.) Configure the network. **DHCP**: Set to **On** to configure the network using DHCP. If this is set to **On**, you cannot set any more addresses. **IP Address**: You can enter the IP address assigned to the projector. You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255) **Subnet Mask**: You can enter 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 enter 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 Address cannot be used. 0.0.0.0, 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
SSID Display	To prevent the SSID from being displayed on the LAN Standby screen, set this to **Off**.
IP Address Display	To prevent the IP address from being displayed on the LAN Standby screen, set this to **Off**.

Type of security

When the optional wireless LAN unit is attached and being used in Advanced connection mode, it is strongly recommended that you set security.

WPA is an encryption standard that improves the security for wireless networks. The projector supports TKIP and AES encryption methods.

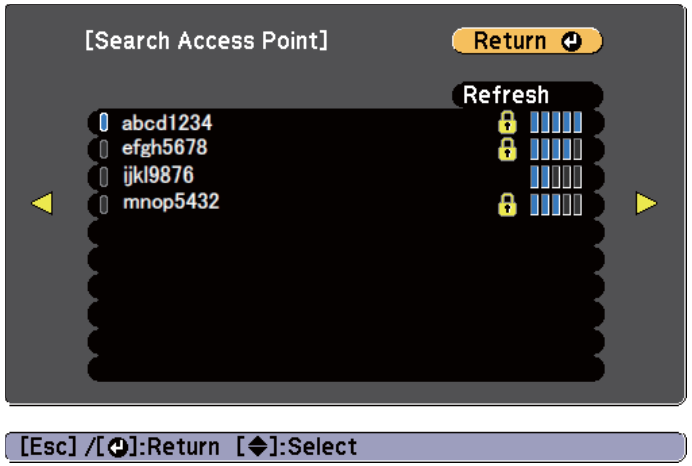
WPA also includes user authentication functions. WPA authentication provides two methods: using an authentication server, or authenticating

between a computer and an access point without using a server. This projector supports the latter method, without a server.

For setting details, follow the instructions from your network administrator.

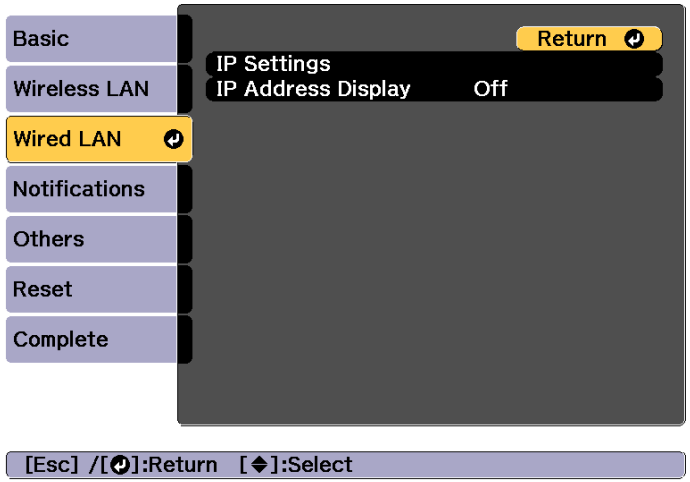
Search Access Point screen

Detected access points are displayed in a list.



Submenu	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.

Wired LAN menu



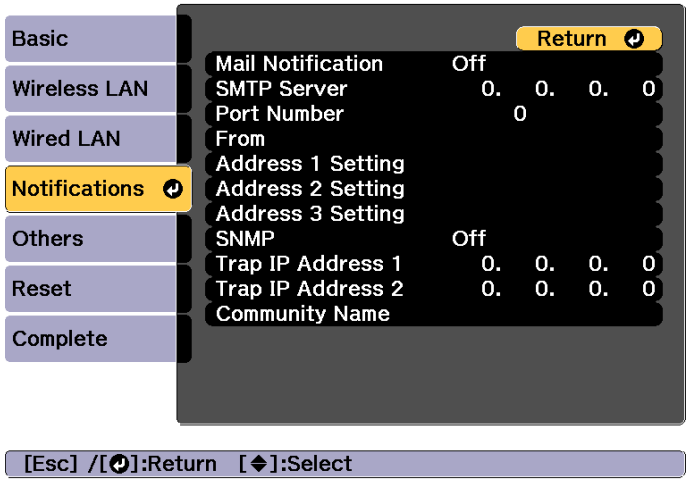
Submenu	Function
IP Settings	You can make settings related to the following addresses. **DHCP**: Set to **On** to configure the network using DHCP. If this is set to **On**, you cannot set any more addresses. **IP Address**: You can enter the IP address assigned to the projector. You can enter a number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

Submenu	Function
IP Address Display	To prevent the IP address from being displayed on the LAN Standby screen, set this to **Off**.

Notifications menu

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

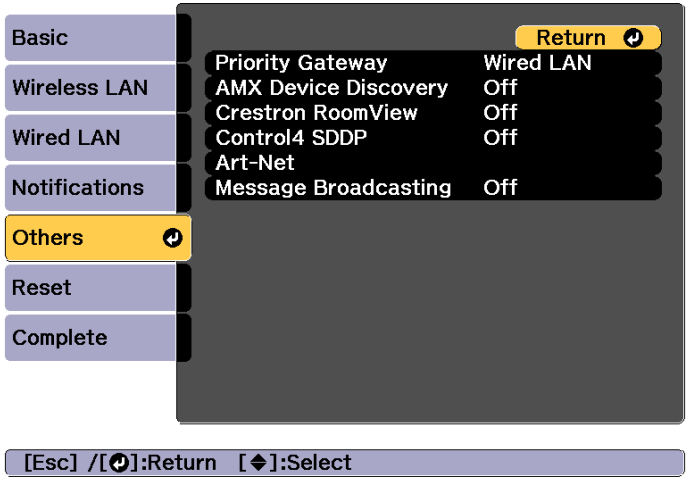
☛ "Reading error notification mail" p.199



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

Submenu	Function
Port Number	You can input the port number for the SMTP server. The default value is 25. You can input numbers between 1 to 65535.
From	Enter the email address of the sender.
Address 1 Setting/Address 2 Setting/Address 3 Setting	Set the destination email addresses for the notification email, and the notification content. You can register up to three destinations. You can enter up to 32 single-byte alphanumeric characters for the email addresses.(" ( ) , : ; < > [\ ] and spaces cannot be used.)
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, 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. (Spaces and symbols other than @ cannot be used.)

Others menu

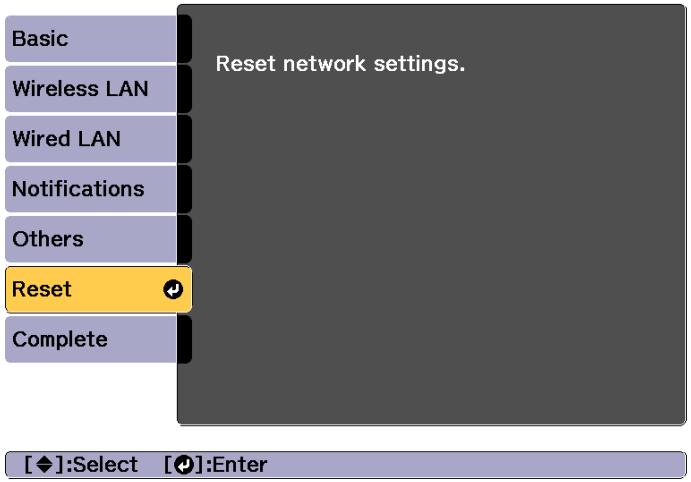


Submenu	Function
Priority Gateway	For the priority gateway, select either **Wired** or **Wireless**.
AMX Device Discovery	When you want to allow the projector to be detected by AMX Device Discovery, set this to **On**. Set this to **Off** if you are not connected to an environment controlled by a controller 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.202 Changes in projector settings take effect upon restarting. When this is set to **On**, the following functions are not available. • Epson Web Control • Message Broadcasting (EasyMP Monitor plugin)
Control4 SDDP	Set to **On** if you want to enable the acquisition of the device information by Control4®Simple Device Discovery Protocol (SDDP).
Art-Net*	**Art-Net**: Set this to **On** to control the projector using Art-Net. ☛ "About Art-Net (EB-L1505U/EB-L1500U/EB-L1405U only)" p.206 **Net/Sub-Net/Universe**: Sets the projector's Net/Sub-Net/Universe. **Start Channel**: Sets the start channel that handles Art-Net. ☛ "Channel definitions" p.206
Message Broadcasting	You can switch the 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

* EB-L1505U/EB-L1500U/EB-L1405U only

Reset menu

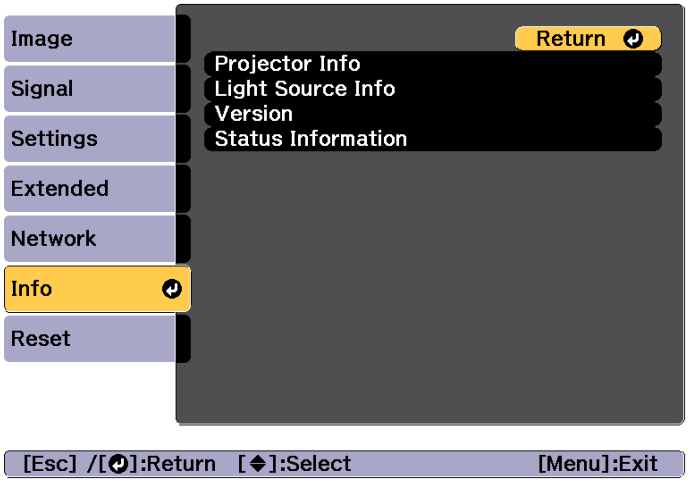
Resets all of the network settings.



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

Info Menu (Display Only)

Lets you check the status of the image signals being projected and the status of the projector. Items that can be displayed vary depending on the source currently being projected.

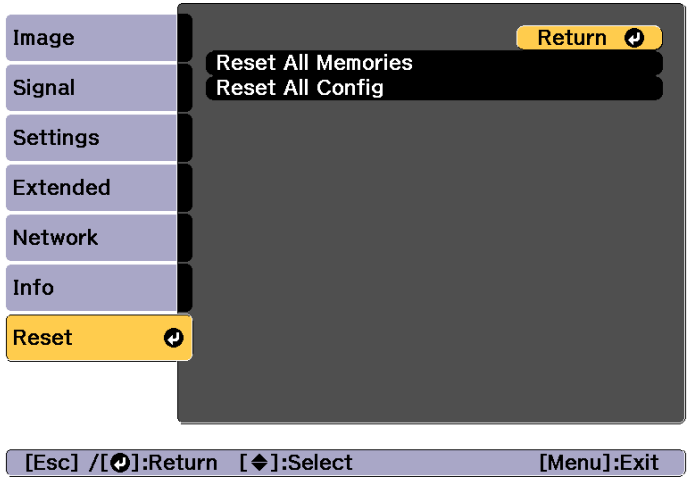


Submenu		Function
Projector Info	Total Op. Time*	Displays the projector's cumulative operating time.
	Operation Hours	Displays the operation time after turning on the projector.
	Source	You can display the source name for the connected equipment currently being projected.
	Input Signal	You can display the content of **Input Signal** set in the **Signal** menu according to the source.
	Resolution	You can display the resolution.
	Refresh Rate	You can display the Refresh Rate.
	Sync Info	You can display the image signal information. This information may be needed if service is required.

Submenu		Function
	Status	This is information about errors that have occurred on the projector. This information may be needed if service is required.
	Serial Number	Displays the projector's serial number.
	Lens Type	Displays the model number of your lens.
	Event ID	When problems occur when the projector and computer are connected through the network, information on the problem is displayed using an Event ID. See the following page for information on interpreting the Event ID. ☛ "About Event ID" p.181
	HDBaseT Signal Level	You can display the image signal information from the HDBaseT port.
Light Source Info	Light Source Hours	Displays the operating time for each Light Source Mode.
	Estimated Remains	When **Constant Brightness** is set to **On**, this displays the amount of time for which the brightness of the light source can be maintained.
Version	Main Video2	Displays the projector's firmware version information.
Status Information		Displays the projector's status. ☛ "Reading the Status Display" p.163

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

Reset Menu



Submenu	Function
Reset All Memories	Resets all names and settings saved in **Memory**, **Lens Position**, and **Geometry Correction**. ☛ "Memory Function" p.111
Reset All Config	You can reset all items in the Configuration menu to their default settings. The following items are not reset to their defaults: **Input Signal**, **Memory**, **User's Logo**, all items for **Network** menus, **Language**, **Date & Time**, **Panel Alignment**, **Color Uniformity**, **Lens Calibration**, **Color Calibration**, **Projector Grouping**, **Screen Matching**, and **Color Matching**.

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). The batch setup function is only for projectors with the same model number.

Use one of the following methods.

- Setup using a USB flash drive.
- Setup by connecting the computer and projector with a USB cable.
- Setup using EasyMP Network Updater.

This manual explains the USB flash drive and the USB cable methods.

- The following content is not reflected by the batch setup function.
  - The Network menu settings (except for the Notifications menu and the Others menu)
  - Status and Light Source Info in the Info menu
- Perform batch setup before adjusting the projected image. Adjustment values for the projected image, such as Geometry Correction are reflected by the batch setup function. If batch setup is performed after adjusting the projected image, the adjustments you made may change.
- By 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.

Caution

Performing batch setup is the customers responsibility. If batch setup fails due to a power failure, communication error, and so on, the customer is responsible for any repair costs incurred.

Setup Using a USB Flash Drive

This section explains how to perform batch setup using a USB flash drive.

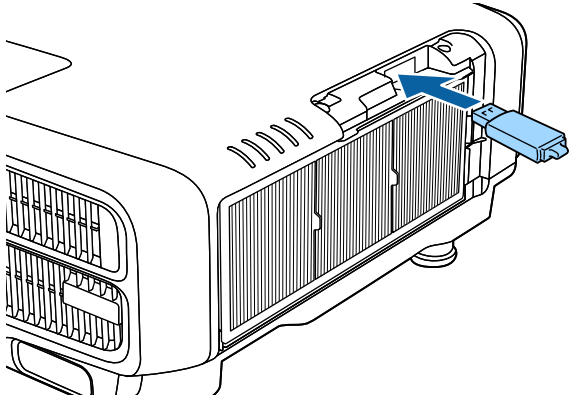
- Use a FAT format USB flash drive.
- The batch setup function cannot be used by USB flash drives that incorporate security functions. Use a USB flash drive that does not incorporate security functions.
- The batch setup function cannot be used by USB card readers or USB hard disks.

Saving settings to the USB flash drive

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

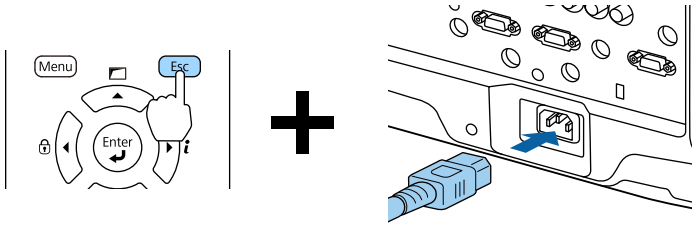
2. Connect the USB flash drive to the projector's wireless LAN unit port.

☛ "Installing the Wireless LAN Unit" p.52

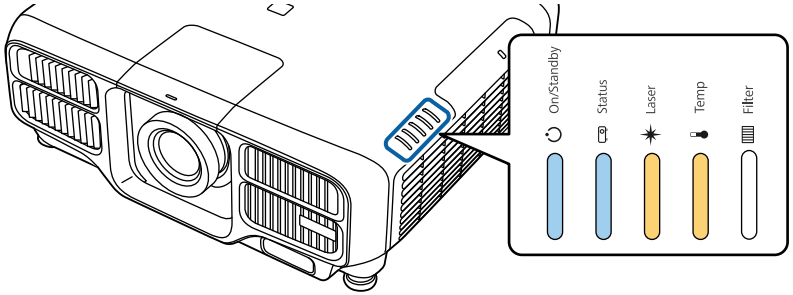


- Connect the USB flash drive directly to the projector. If the USB flash drive is connected to the projector through a USB hub, the settings may not be saved correctly.
- Connect an empty USB flash drive. If the USB flash drive contains data other than the batch setup file, the settings may not be saved correctly.
- If you have saved a batch setup file from another projector to the USB flash drive, delete the file or change the file name. The batch setup function cannot overwrite a batch setup file.
- The file name for the batch setup file is PJCONFDATA.bin. If you need to change the file name, add text after PJCONFDATA. If you change the file name in any other way, the projector may not be able to recognize the file correctly.
- You can only use single-byte characters for the file name.

3 While holding down the [Esc] button on the remote control or the control panel, connect the power cord to the projector.



When the projector's indicators turn on as follows, release the [Esc] button.



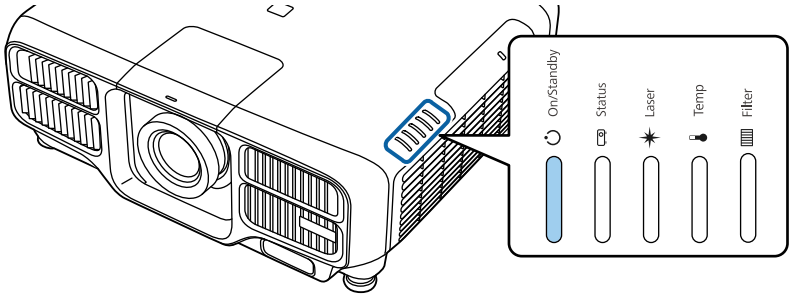
Power supply	Status	Laser	Temp
Blue - On	Blue - On	Orange - On	Orange - On

When all of the indicators start flashing, the batch setup file is being written.

Caution

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

When writing completes normally, the projector enters standby status.



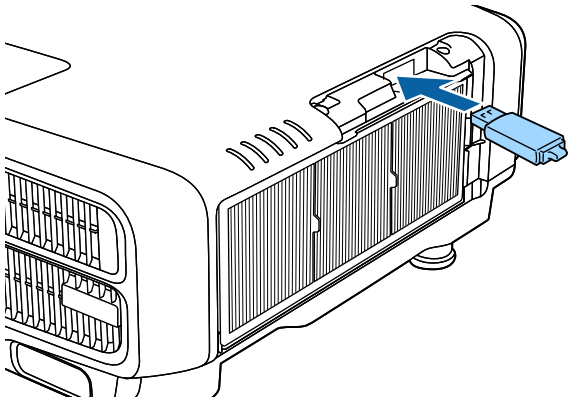
Power supply
Blue - On

When the projector is in standby status, remove the USB flash drive.

Reflecting saved settings to other projectors

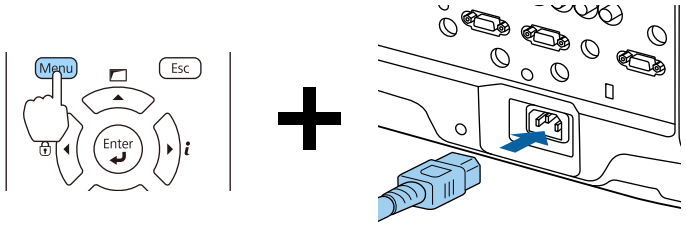
1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.

2. Connect the USB flash drive containing the saved batch setup file to the projector's wireless LAN unit port.

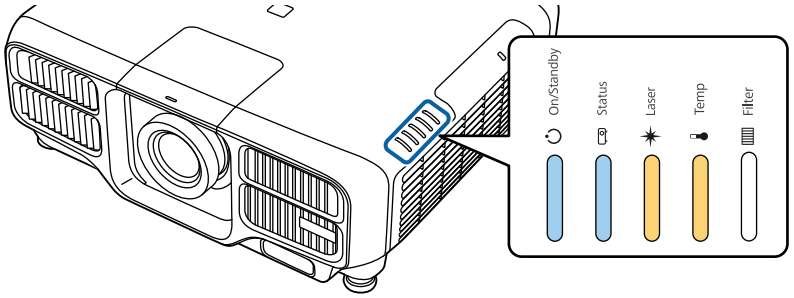


- When the USB flash drive contains 1 to 3 types of batch setup files, the file is reflected to the projector with the same model number. If there are multiple files for a projector with the same model number, the settings may not be reflected correctly.
- When there are four or more types of batch setup files on the USB flash drive, the settings may not be reflected correctly.
- Do not store any data except for the batch setup file on the USB flash drive. If the USB flash drive contains data other than the batch setup file, the settings may not be reflected correctly.

3 While holding down the [Menu] on the remote control or the control panel, connect the power cord to the projector.



When the projector's indicators turn on as follows, release the [Menu] button.



Power supply	Status	Laser	Temp
Blue - On	Blue - On	Orange - On	Orange - On

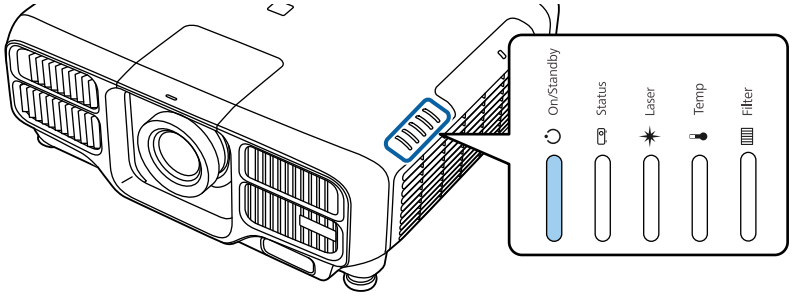
The indicators remain on for about 75 seconds.

When all of the indicators start flashing, the settings are being written.

Caution

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

4 When writing completes normally, the projector enters standby status.



Power supply
Blue - On

When the projector is in standby status, remove the USB flash drive.

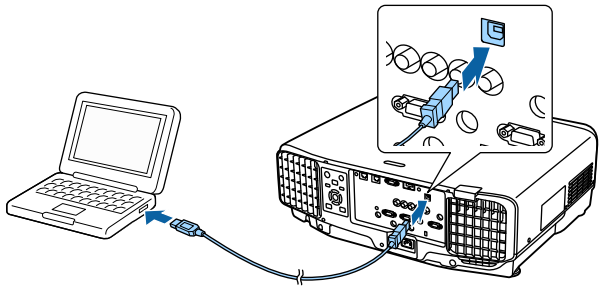
Setup by Connecting the Computer and Projector with a USB Cable

The following operating systems support the batch setup function.
- Windows Vista or later
- Mac OS X 10.5.3 or later

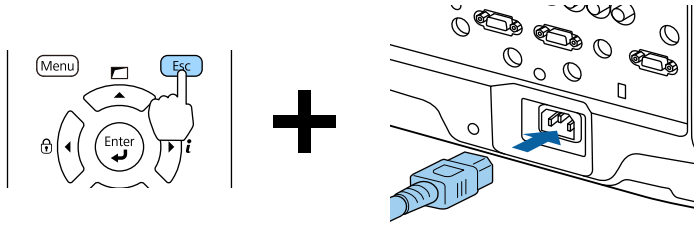
Saving settings to a computer

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

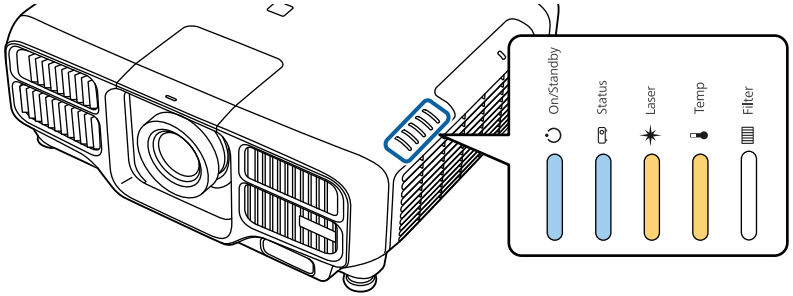
2. Connect the computer's USB port to the projector's Service port with a USB cable.



3. While holding down the [Esc] button on the remote control or the control panel, connect the power cord to the projector.



When the projector's indicators turn on as follows, release the [Esc] button.



Power supply	Status	Laser	Temp
Blue - On	Blue - On	Orange - On	Orange - On

The projector is recognized as a removable disk by the computer.

4. Open the removable disk, and save the batch setup file (PJCONFDATA.bin) to the computer.

If you need to change the name of the batch setup file, add text after PJCONFDATA. If you change the file name, the projector may not be able to recognize the file correctly.

5. Perform "Remove USB device" on your computer, and then disconnect the USB cable.

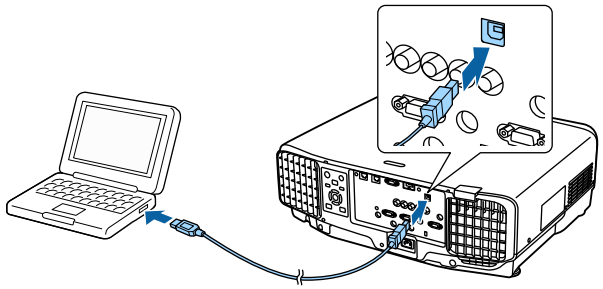
When using OS X, perform "Remove EPSON_PJ".

The projector enters standby status.

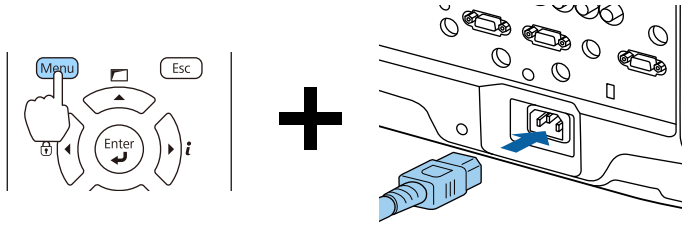
Reflecting saved settings to other projectors

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

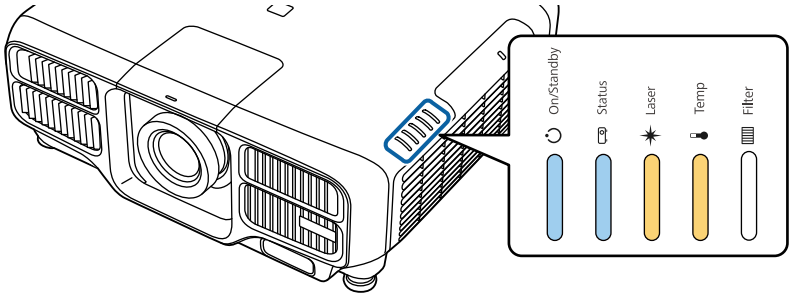
2. Connect the computer's USB port to the projector's Service port with a USB cable.



3. While holding down the [Menu] on the remote control or the control panel, connect the power cord to the projector.



When the projector's indicators turn on as follows, release the [Menu] button.



Power supply	Status	Laser	Temp
Blue - On	Blue - On	Orange - On	Orange - On

The projector is recognized as a removable disk by the computer.

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

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

5. Perform "Remove USB device" on your computer, and then disconnect the USB cable.

When using OS X, perform "Remove EPSON_PJ".

When all of the indicators start flashing, the settings are being written.

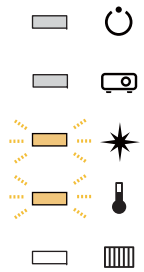
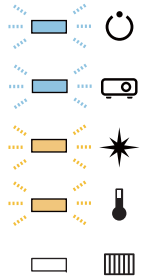
Caution

Do not disconnect the power cord from the projector while the settings are being written. If the power cord is disconnected, the projector may not start correctly.

When writing completes normally, the projector enters standby status.

When Setup Fails

The Indicators notify you if an error occurs. Check the status of the indicators.

Status of the Indicators	Remedy
 Laser: Orange - flashing fast Temp: Orange - flashing fast	The batch setup file may be corrupt, or the USB flash drive may not be connected correctly. Disconnect the USB flash drive, unplug and then plug in the projector's power cord, and then try again.
 Power: Blue - flashing fast Status: Blue - flashing fast Laser: Orange - flashing fast Temp: Orange - flashing fast	Writing the settings may have failed and an error may have occurred in the projector's firmware. Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*

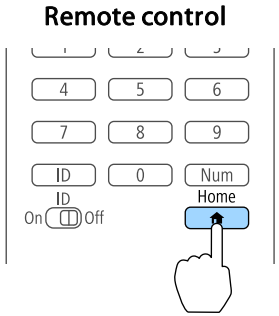
Troubleshooting

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

If a problem occurs with the projector, you can display the Help screen to assist you. You can also set the projector to an appropriate state by answering the questions.

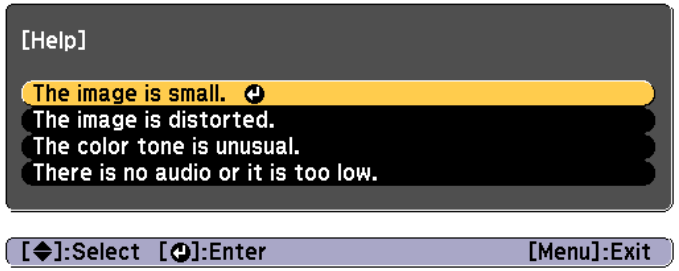
1 Press the [⌂] button.

The Home screen is displayed.

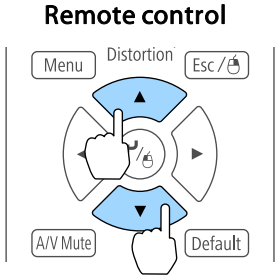


2 Select Help, and then press the [↵] button.

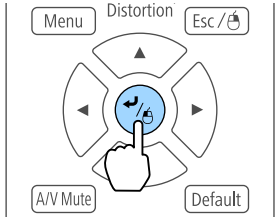
The Help screen is displayed.



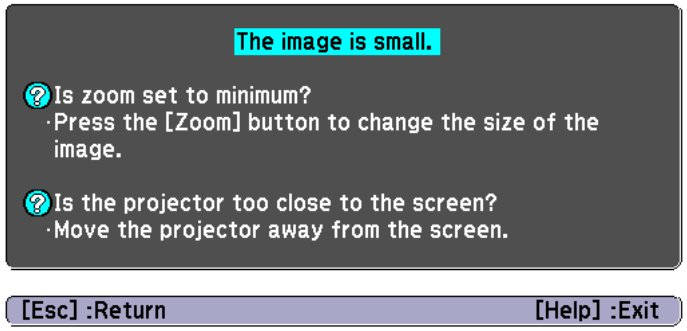
3 Select a menu item.



4 Confirm the selection.



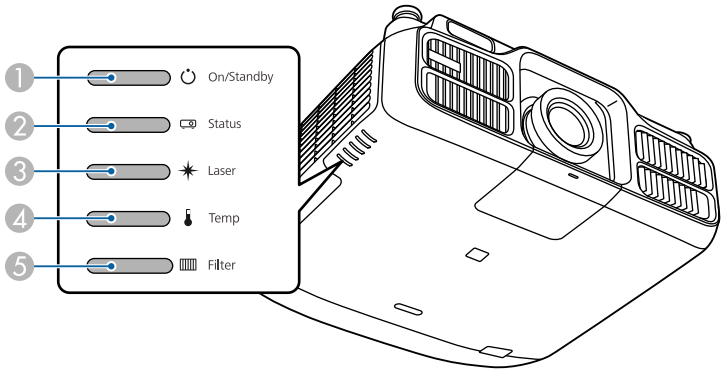
Questions and solutions are displayed as shown on the screen below. Press the [Menu] button to exit Help.



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

☛ "Reading the Indicators" p.157

This projector has the following five indicators to indicate the projector's status.



1. Power indicator
   Indicates the projector's status.
2. Status indicator
   Indicates the projector's status.
3. Laser indicator
   Indicates the light source status.
4. Temp indicator
   Indicates the internal temperature status. This is normally turned off.
5. Filter indicator
   Indicates the air filter status. This is normally turned off.

The following indicator status are used during regular operation.

Indicator					Projector's Status	Explanation
Power supply	Status	Laser	Temp	Filter		
Blue - On	Off	Off	Off	Off	Standby condition	Power is being supplied to the projector. In this status, you can start projecting by pressing the [⏻] button on the remote control or control panel. (Sometimes, when the power cord is unplugged, the power indicator remains lit for a short period, but this is not a fault.)
					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 - On	Blue - Flashing	Status varies	Off	Off	Warm-up status	This is the status immediately after turning on the projector. Warm-up takes approximately 30 seconds after the light source turns on. The [⏻] button is disabled during warm-up.

Indicator					Projector's Status	Explanation
Power supply	Status	Laser	Temp	Filter		
Blue - On	Blue - On	Status varies	Off	Off	Projecting	The projector is projecting.
Blue - On	Blue - Flashing	Off	Off	Off	Cool down status	This is the status immediately after turning off the power. In this status, all buttons are disabled.
Blue - Flashing	Off	Off	Off	Off	Preparing Network monitoring	Preparing to monitor and control this projector over a network. During network monitoring preparation, all button operations are disabled.
Blue - On	Blue - On	Blue - Flashing	Off	Off	A/V Mute activated	A/V Mute is active.

When an error has occurred in the projector, the error status is indicated by the indicator's color and combination of flashing or lit.

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

Indicator					Cause	Remedy or Status
Power supply	Status	Laser	Temp	Filter		
Off	Blue - Flashing	Orange - Flashing	Off	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	Off	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*
Off	Blue - Flashing	Off	Orange - On	Off	High Temp Error (Overheating)	The light source turns off automatically and projection stops. Wait for about five minutes. After about five minutes the projector switches to standby mode, so check the following two points. • Check that the air filter and air exhaust vents are clear, and that the projector is not positioned against a wall. • If the air filter are clogged, remove the power cord from the electrical outlet, and then clean or replace them. ☛ "Cleaning the Air Filter" p.183 ☛ "Replacing the Air Filter" p.186 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.133
Off	Blue - Flashing	Orange - On	Off	Off	Laser Error Retardation Plate 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*

Indicator					Cause	Remedy or Status
Power supply	Status	Laser	Temp	Filter		
Off	Blue - Flashing	Off	Off	Orange - On	Filter Airflow Error	Check the following two points. • Check that the air filter and air exhaust vents are clear, and that the projector is not positioned against a wall. • If the air filter is clogged, turn off the power, remove the power cord from the electrical outlet, and then clean or replace them. ☛ "Cleaning the Air Filter" p.183 ☛ "Replacing the Air Filter" p.186 After checking, connect the power cord to the electrical outlet. 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*
Off	Blue - Flashing	Orange - On	Orange - On	Off	Lens Shift 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*
Blue - Flashing	Status varies	Status varies	Orange - Flashing	Status varies	High Temp Warning	This is not an error. However, if the temperature rises too high again, projection stops automatically. Check the following two points. • Check that the air filter and air exhaust vents are clear, and that the projector is not positioned against a wall. • If the air filter is clogged, turn off the power, remove the power cord from the electrical outlet, and then clean or replace them. ☛ "Cleaning the Air Filter" p.183 ☛ "Replacing the Air Filter" p.186
Blue - Flashing	Status varies	Orange - Flashing	Status varies	Status varies	Laser Warning	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*

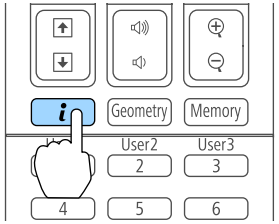
Indicator					Cause	Remedy or Status
Power supply	Status	Laser	Temp	Filter		
Blue - Flashing	Status varies	Orange - Flashing	Status varies	Status varies	Lens Warning (EB-L1505U/EB-L1500U only)	An unsupported lens is attached. Use a supported lens. ☛ "Optional Accessories and Consumables" p.211
Blue - Flashing	Status varies	Status varies	Status varies	Orange - On	Low Air Flow	This is not an error. However, projection stops automatically if the airflow falls any further. "The air filter is clogged. Clean or replace the air filter." is displayed. Check the following points. • Check that the air filter and air exhaust vents are clear, and that the projector is not positioned against a wall. • If the air filter is clogged, turn off the power, remove the power cord from the electrical outlet, and then clean or replace them. ☛ "Cleaning the Air Filter" p.183 ☛ "Replacing the Air Filter" p.186 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*
Status varies	Status varies	Status varies	Status varies	Orange - Flashing	Air Filter Notice	"Time to clean the air filter. Clean or replace the air filter." is displayed. Turn off the projector's power, unplug the power cord from the electrical outlet, and then clean the air filter. ☛ "Cleaning the Air Filter" p.183 The indicators or messages regarding air filter notice are displayed only when **Air Filter Notice** is set to **On** in the Configuration menu. ☛ **Extended** - **Display** - **Air Filter Notice** p.133

- See the following if the projector is not operating properly, even though the indicators are all showing normal.
  ☛ "Problem Solving" p.170
- 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*

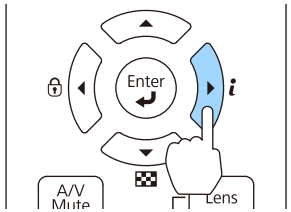
You can display the operating status of the projector on the projected image. You can check the detailed status of the projector by using button operations.

1 Press the [i] button while projecting.

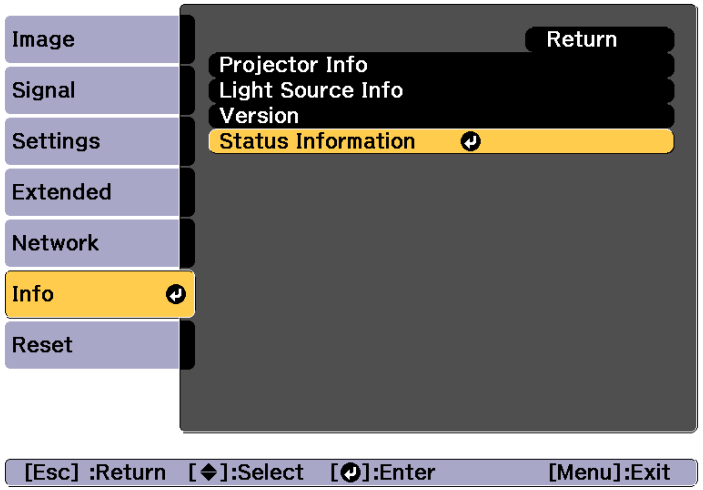
Remote control



Control panel

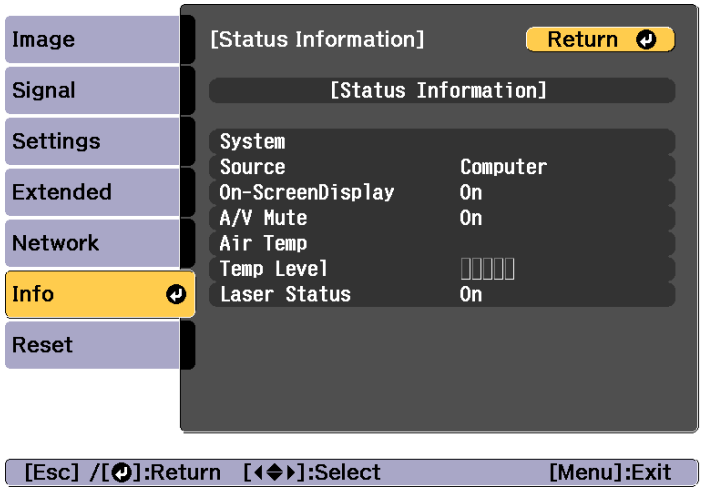


2 Select **Status Information**, and then press the [↵] button.



You can also operate from the Configuration menu.
☛ **Info - Status Information** p.145

3 Use the [◀][▶] buttons or the [▲][▼] buttons to select a category.



Each display category contains the following information.

Status Information	:	Operating status of the projector
Source	:	Input signal information
Signal Information	:	Input digital signal information
Network Wired	:	Wired LAN settings
Network Wireless	:	Wireless LAN settings
Maintenance	:	Operating time for the projector and light source
Version	:	Projector's firmware version

Explanations of the Display Content

Category	Item	Status Display	Explanation
Status Information	System	Displays the projector's status. See the following for more information on how to remedy the errors and warnings. ☛ "Reading the Indicators" p.157	
		OK	The projector is in normal status.
		Warm-Up	The projector is warming up.
		Standby	The projector is in standby status.
		Cool Down	The projector is in cool down status.
		Temp Error	A high temp error has occurred.
		Fan Error	A fan error has occurred.
		Sensor Error	A sensor error has occurred.
		Power Error	A power error (Ballast) has occurred.
		Internal Error	An internal error has occurred.
		Airflow Error	A filter airflow error has occurred.
		Temp Warning	A high temp warning has occurred.
		Internal Warning	A warning about the internal system has occurred.
		Airflow Decline	A low air flow error has occurred.
		Power Warning	A power warning (Ballast) has occurred.
		Clean Filter	An air filter notice has occurred.
		Lens Error	A lens error has occurred.
		Laser Error	A laser error has occurred.
		Laser Warning	A laser warning has occurred.

Category	Item	Status Display	Explanation
Status Information	Source	HDMI	Displays the source name for the connected equipment currently being projected.
		HDBaseT	
		DVI-D	
		SDI	
		Computer	
		BNC	
		LAN	
	On-Screen Display	On	Displays the settings for the **On-Screen Display**. When set to **Off**, the menus or messages are not displayed on the projected images.
		Off	
	A/V Mute	On	Displays the operating status of A/V mute.
		Off	
	Air Temp	-	Displays the usage environment temperature.
	Temp Level	-	
	Laser Status	On	Displays the operating status of the light source.
		Off	
Source	Source	HDMI	Displays the source name for the connected equipment currently being projected.
		HDBaseT	
		DVI-D	
		SDI	
		Computer	
		BNC	
		LAN	
	Resolution	-	Displays the resolution of the current input signal. No Signal: No signals are being input. Not Supported: The projector does not support the current input signal.

Category	Item	Status Display	Explanation
Source	Video Signal	-	Displays the current input video signal.
	Color Space	RGB	Displays the color space of the current input signal.
		YCbCr	
		YPbPr	
	H-Frequency	-	Displays the horizontal frequency of the current input signal.
	V-Frequency	-	Displays the vertical frequency of the current input signal.
	Sync Polarity	H:Posi / V:Posi	Displays the Sync polarity.
		H:Posi / V:Nega	
		H:Nega / V:Posi	
		H:Nega / V:Nega	
	Sync Mode	Composite Sync	Displays the sync type.
		Separate Sync	
		Sync On Green	
	Detected Mode	-	Displays the discriminant resolution of the current input signal.
	Video Level	Auto (Normal)	Displays the video level of the projector.
		Auto (Expanded)	
		Normal	
		Expanded	

Items displayed for source vary depending on the model being used and the image signal and source being projected.

Category	Item	Status Display	Explanation
Signal Information	5V Detection	Detected	Displays the detection results of 5V signals.
		Not Detect	
	TMDS Clock	-	Displays the TMDS frequency of the current input signal.
	TMDS H-Frequency	-	Displays the horizontal frequency of the current input signal.
	TMDS V-Frequency	-	Displays the vertical frequency of the current input signal.
	DetChg 5CFHMP123	-	Displays the factors of signal changes.
	Stable Time	-	Displays the operating time since the input source is determined.
	HDCP Status	Non-HDCP	Displays the HDCP status.
		Passed	
		Failed	
	HDCP Ver	-	Displays the HDCP version.
	AVI Info VIC	-	Displays the VIC information (AVI) of the current input signal.
	AVI InfoChecksum	OK	Displays the checksum result for AVI.
		NG	
	Signal Mode	HDMI	Displays the signal mode.
		DVI	
	Pixel Encoding	RGB	Displays the color space information (AVI) of the current input signal.
		YUV4:4:4	
		YUV4:2:2	
		YUV4:2:0	
	HDBaseT Level	-	You can display the image signal information from the HDBaseT port.

Items displayed for Signal Information vary depending on the model being used and the image signal and source being projected.

Category	Item	Status Display	Explanation
Network Wired	Projector Name	-	Displays the projector name used to identify the projector when connected to a network.
	Connection Mode	HDBaseT	Displays the connection path for LAN.
		LAN	
	DHCP	On	Displays the DHCP settings.
		Off	
	IP Display	On	Displays the IP address display settings.
		Off	
	IP Address	-	Displays the IP address.
	MAC Address	-	Displays the MAC address.
Network Wireless	Projector Name	-	Displays the projector name used to identify the projector when connected to a network.
	Connection Mode	Quick	Displays the connection mode to use when connecting the projector and a computer over a wireless LAN.
		Advanced	
	SSID Display	On	Displays the SSID display settings.
		Off	
	IP Display	On	Displays the IP address display settings.
		Off	
	SSID	-	Displays the SSID.
	IP Address	-	Displays the IP address.
	DHCP	On	Displays the DHCP settings.
		Off	
	MAC Address	-	Displays the MAC address.
	Security	No	Displays the security settings.
		WPA2-PSK	
		WPA/WPA2-PSK	
	Antenna Level	LEVEL 0-5	Displays the reception status for Wi-Fi.

Category	Item	Status Display	Explanation
Maintenance	Operation Time	-	Displays the total operation time of the projector.
	Laser Op.Time	-	Displays the laser operating time for each setting in Light Source Mode.
Version	Serial No.	-	Displays the projector's serial number.
	Main	-	Displays the projector's firmware version information.
	Video2	-	
	Sub	-	
	Sub2	-	
	HDBaseT	-	

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

Problems Relating to Images

• **No images appear** Projection does not start, the projection area is completely black, or the projection area is completely blue.	☛ p.171
• **Moving images are not displayed** Videos played back on a computer are black or no image is projected, or the video is not played back on the computer.	☛ p.171
• **Projection stops automatically**	☛ p.172
• **The message "Not supported" is displayed**	☛ p.172
• **The message "No Signal" is displayed**	☛ p.172
• **Images are fuzzy, out of focus, or distorted**	☛ p.173
• **Interference or distortion appear in images**	☛ p.173
• **The image is truncated (large) or small, the aspect ratio is not suitable, or the image has been reversed** Only part of the image is displayed, the height and width ratios of the image are not correct, or the image may appear reversed from top to bottom or left to right.	☛ p.174
• **Image colors are not right** The whole image appears purplish or greenish, images are black & white, or colors appear dull.	☛ p.175
• **Images appear dark**	☛ p.175
• **Automatic adjustments are not performed correctly**	☛ p.176

Problems when Projection Starts

• **The projector does not turn on**	☛ p.177

Other Problems

• **No sound can be heard or the sound is faint**	☛ p.178
• **The remote control does not work**	☛ p.178
• **Nothing appears on the external monitor**	☛ p.179
• **I want to change the language for messages and menus**	☛ p.180
• **Email is not received even if a problem occurs in the projector**	☛ p.180
• **"The battery that saves your clock settings is running low." is displayed**	☛ p.180

Problems Relating to Images

No images appear

Check	Remedy
Did you press the [⏻] button on the remote control or control panel?	Press the [⏻] button to turn on the power.
Are the indicators switched off?	The power cord is not connected correctly or power is not being supplied. Connect the projector's power cord correctly. Check that your electrical outlet or power source is functioning correctly.
Is A/V Mute active?	Press the [A/V Mute] button to release A/V Mute. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.107
Are the Configuration menu settings correct?	Reset all of the settings. ☛ **Reset** - **Reset All Config** p.146
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 Windows Media Center displayed in full screen? (Only during network connection)	When Windows Media Center is displayed at full screen, you cannot project using a network connection. Reduce the screen size.
Is an application using the Windows DirectX function displayed? (Only during network connection)	Applications using the Windows DirectX function may not display images correctly.

Moving images are not displayed

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

Projection stops automatically

Check	Remedy
Is **Sleep Mode** set to **On**?	Press the [⏻] button to turn on the power. If you do not want to use Sleep Mode, change the setting to **Off**. ☛ **Extended** - **Operation** - **Sleep Mode** p.133

"Not supported." is displayed

Check	Remedy
Do the image signal resolution and the refresh rate correspond to the mode? (Only when projecting computer images)	Refer to the computer's documentation for how to change the image signal resolution and the refresh rate output from the computer. ☛ "Supported Monitor Displays" p.239

"No Signal." is displayed

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. Check that no cables are disconnected and that there are no poor contacts in the cables.
Is the correct port selected?	Change the image by pressing the [Search] button. ☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59
Is the power for the computer or video source turned on?	Turn the power on for the equipment.
Are the image signals being output to the projector? (Only when projecting images from a laptop computer or a computer with a built-in LCD screen)	If the image signals are only being output to the computer's LCD monitor or to the accessory monitor, you need to change the output to an external destination as well as the computer's own monitor. For some computer models, when the image signals are output externally, they no longer appear on the LCD monitor or accessory monitor. If the connection is made while the power of the projector or computer is already turned on, the Fn key (Function key) that changes the computer's image signal to external output may not work. Turn the power for the computer and the projector off and then back on again. ☛ Computer's documentation

Images are fuzzy, out of focus, or distorted

Check	Remedy
Is the focus adjusted correctly?	Make sure that at least 20 minutes has passed after the projection starts, and press the [Focus] button on the remote control to adjust the focus. ☛ "Correcting the Focus" p.36
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.212
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
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "Connecting Equipment" p.45
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.239 ☛ 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.129
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.129

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

Check	Remedy
Have the **Screen** been set correctly?	Make the appropriate **Screen** for the screen being used. ☛ "Screen Settings" p.30
Is the aspect adjusted correctly?	Press the [Aspect] button to select an aspect suitable for the input source. ☛ "Changing the Aspect Ratio of the Projected Image " p.78
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.129
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.108
Is **Scale** turned on?	Set **Scale** to **Off** on the configuration menu. ☛ **Signal** - **Scale Scale** p.129
Is the display range restricted by **Blanking**?	Appropriately set **Blanking** in the configuration menu. ☛ **Signal** - **Blanking** p.129
Is the image 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.129
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.239 ☛ Computer's documentation
Is the image direction correct?	Make the correct settings in **Projection** from the Configuration menu. ☛ "Installation Settings" p.29

Image colors are not right

Check	Remedy
Do the input signal settings match the signals from the connected device?	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Advanced** - **Input Signal** p.129
Is the image brightness adjusted correctly?	Adjust the **Brightness** setting from the Configuration menu. ☛ **Image** - **Brightness** p.127
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. Check that no cables are disconnected and that there are no poor contacts in the cables. ☛ "Connecting Equipment" p.45
Is the Contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.127
Is the color adjustment set correctly?	Adjust the **Gamma** or **RGBCMY** setting from the Configuration menu. ☛ **Image** - **Advanced** p.127 ☛ "Adjusting the Image" p.80
Are the color saturation and tint adjusted correctly?	Adjust the **Color Saturation** and **Tint** settings from the Configuration menu. ☛ **Image** - **Color Saturation**, **Tint** p.127
Is the brightness of the room appropriate?	If the room is darker than when the auto adjustment was performed, the tint of the projected images may not be displayed correctly. Make the room darker and then perform auto adjustment again. ☛ "Screen Matching" p.99 ☛ "Color Calibration" p.188

Images appear dark

Check	Remedy
Is the image brightness set correctly?	Check the **Brightness** and **Brightness Settings** values from the Configuration menu. ☛ **Image** - **Brightness** p.127 ☛ **Settings** - **Brightness Settings** p.131
Is the Contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.127

Check	Remedy
Is only one projector being used?	Check if the following item is set to dark. ☛ **Extended** - **Multi-Projection** - **Screen Matching** - **Brightness Settings** p.133

Automatic adjustments are not performed correctly

Check	Remedy
Have at least 20 minutes passed since the power was turned on?	Auto adjustment does not work correctly until the temperature of the projector is stable. Perform auto adjustment 20 minutes after turning on the projector or canceling A/V Mute.
Do the **Lens Type** and the lens being used match?	When using the following lenses, check that the **Lens Type** and the lens being used match. If a different lens is selected, auto adjustment does not work correctly. ELPLS04, ELPLU02, ELPLW04, ELPLM06, ELPLM07 ☛ **Extended** - **Operation** - **Advanced** - **Lens Type** p.133
Is the cover of the built-in camera clean?	Make sure that the cover of the built-in camera is clean. Clean the cover if it is dirty.
Is an analog signal being input?	When inputting an analog signal, the color and brightness of the input image changes, and the results of adjustment may not be applied correctly.
Has the image been corrected using Geometry Correction?	Auto adjustment may not work for images corrected using Geometry Correction. Set **Geometry Correction** to **Off** or reduce the correction range. ☛ **Settings** - **Geometry Correction** p.131
Is the brightness of the surroundings appropriate?	If a powerful spotlight or natural light shines into the area during auto adjustment, the brightness of the surroundings changes and auto adjustment does not operate correctly. Make sure the brightness of the surroundings does not change.
Is the blending width 15 to 45%?	If the blending width in Edge Blending is 15% or less, or 45% or more, the Screen Matching function may not operate correctly. Check the blending width. ☛ **Extended** - **Multi-Projection** - **Edge Blending** p.133

Problems when Projection Starts

The projector does not turn on

Check	Remedy
Did you press the [⏻] button on the remote control or control panel?	Press the [⏻] button to turn on the power.
Are the indicators switched off?	The power cord is not connected correctly or power is not being supplied. Disconnect and then reconnect the power cord. Check that your electrical outlet or power source is functioning correctly.
Do the indicators turn on and off when the power cord is touched?	There is probably a poor contact in the power cable, or the power cable may be defective. Reinsert the power cable. If this does not solve the problem, stop using the projector, disconnect the power cable 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**. ☛ "Control Panel Lock" p.119
Is the correct setting for the remote receiver selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.131
Was the power cord plugged back in or was the breaker turned on immediately after direct power off?	If one of these is performed when **Direct Power On** is set to **On**, the power may not turn back on. Press the [⏻] button to turn on the power.
Is the [ID] switch on the remote control set to On?	When the switch is set to On, you can use the remote control to operate only a projector with a matching ID. Set the [ID] switch to Off. ☛ "Setting the remote control ID" p.41

Other Problems

No sound can be heard or the sound is faint

Check	Remedy
Check that the audio/video cable is securely attached to both the projector and audio source.	Disconnect the cable from the Audio port, and then reconnect the cable.
Is the projector volume set to the minimum?	Adjust the volume so that sound can be heard. ☛ **Settings** - **Volume** p.131 ☛ "Adjusting the Volume" p.60
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 to release A/V Mute. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.107
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 the correct audio input selected?	Check the **Audio Settings** from the configuration menu. ☛ **Extended** - **A/V Settings** - **Audio Settings** p.133

The remote control does not work

Check	Remedy
Is the remote control light-emitting area pointing towards the remote receiver on the projector during operation?	Point the remote control towards the remote receiver. ☛ "Remote control operating range" p.24
Is the remote control too far from the projector?	Check the operating range. ☛ "Remote control operating range" p.24
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.
Is the correct setting for the **Remote Receiver** selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.131

Check	Remedy
Are the batteries dead or have the batteries been inserted correctly?	Make sure the batteries are inserted correctly or replace the batteries with new ones if necessary. ☛ "Replacing the remote control batteries" p.23
Are the remote control ID and the projector ID matched?	Make sure the ID for the projector you want to operate and the ID for the remote control match. To operate all projectors by remote control regardless of the ID setting, set the [ID] switch on the remote control to Off. ☛ "ID Settings" p.40
Does **Remote Control Type** match the remote control that you are using?	Check the **Remote Control Type** on the configuration menu. ☛ **Extended** - **Operation** - **Advanced** - **Remote Control Type** p.133
Is the optional remote control cable connected to the projector's Remote port?	When the remote control cable is connected, the projector's remote receiver is disabled. When not using the remote control cable set, disconnect it from the Remote port.
Is **Control Communications** or **Extron XTP** set to **On**?	The Remote port is disabled. When using the optional remote control cable set, set **Control Communications** or **Extron XTP** to **Off**. ☛ **Extended** - **HDBaseT** p.133
Is the remote control button lock set?	When the remote control button lock is set, buttons except for those needed for basic remote control operations are deactivated. Hold down the [⌂] button to cancel the remote control button lock. ☛ "Remote control button lock" p.120

Nothing appears on the external monitor

Check	Remedy
Are images input from a port other than the Computer port or BNC port?	Only RGB signals from the Computer port or the BNC port can be displayed on an external monitor.
Are you projecting a split screen?	Only RGB signals projected on the left screen from the Computer port or the BNC port can be displayed on an external monitor. ☛ "Projecting Two Images Simultaneously (Split Screen)" p.104
Is the projector in standby status?	Check that **Standby Mode**, **A/V Output**, and **Monitor Out** from the Configuration menu are set correctly. ☛ **Extended** - **Standby Mode**, **A/V Settings** p.133

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.133

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

Check	Remedy
Is **Standby Mode** set to **Communication On**?	To use the Mail Notification function when the projector is in standby, set **Communication On** in **Standby Mode** from the Configuration menu. ☛ **Extended** - **Standby Mode** p.133
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 **Notifications** settings in the Configuration menu. Check if it is set correctly. ☛ "Notifications menu" p.143

"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*

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 start the network software.	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 the network software.
0481	Communication was disconnected from the computer.	
0483 04FE	The network software ended unexpectedly.	Check the status of network communications. 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. ☛ **Network - Wireless LAN** p.140
0893	The TKIP/AES encryption types do 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 - Wireless LAN** p.140, **Wired LAN** p.142
0899	Other communication errors	If restarting the projector or network software does not solve the problem, contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*

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

When cleaning, unplug the power cable from the electric outlet. Otherwise, it could cause an electric shock.

Cleaning the Projector's Surface

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

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

Attention

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

Cleaning the Lens

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

Warning

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

Attention

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

Cleaning the Air Filter

When the following message is displayed and the filter indicator flashes orange, clean the air filter and the air intake vent.

"Time to clean the air filter. Clean or replace the air filter."

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

"The air filter is clogged. Clean or replace the air filter."

Attention

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

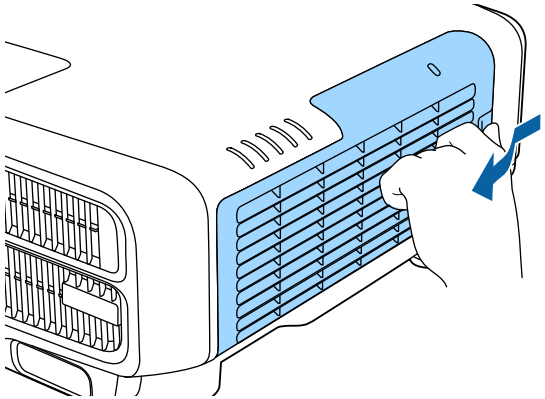
Cleaning the air filter

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

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

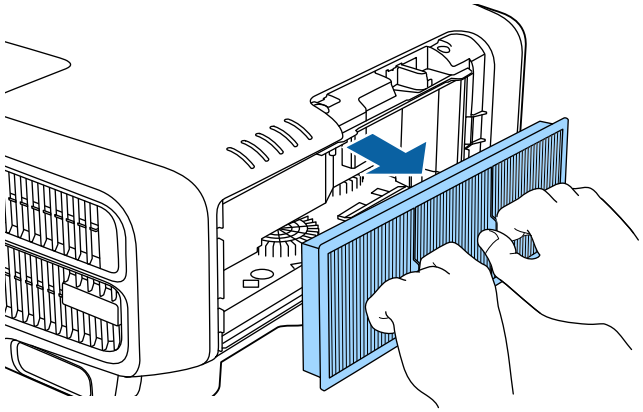
2 Remove the air filter cover.

Grip the air filter cover tab between your fingers, and pull up and remove the cover while pressing the tab.



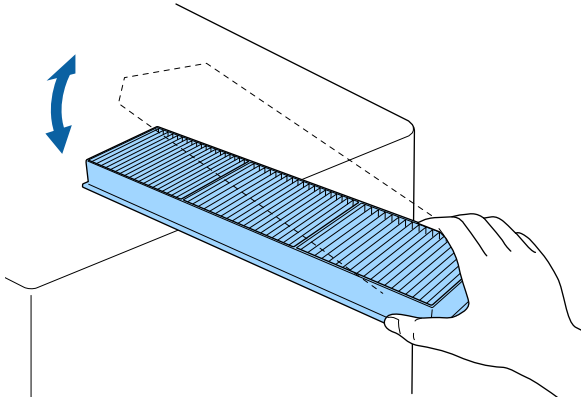
3 Remove the air filter.

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



4 With the front (the side with tabs) of the air filter facing down, tap the air filter four or five times to shake off the dust.

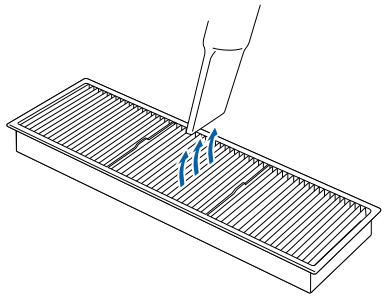
Turn it over and tap the other side in the same way.



Attention

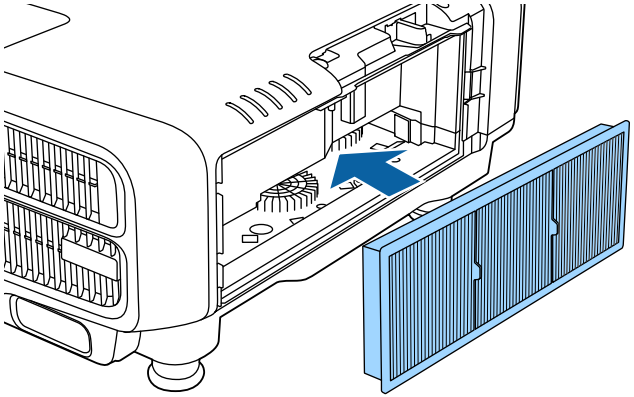
If the air filter is hit too hard, it may become unusable due to deformities and cracks.

5 Remove any dust remaining on the air filter by using a vacuum cleaner from the front side.

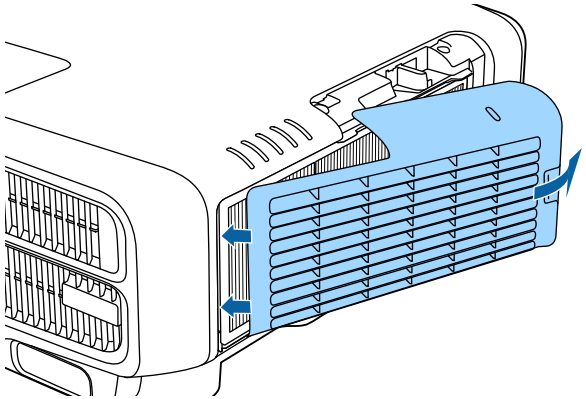


6 Replace the air filter.

Press until it clicks into place.



7 Attach 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.186
- It is recommended that you clean the air filter every 20,000 hours. Clean it more often than this if using the projector in a particularly dusty environment.
- The indicators or messages regarding Air Filter Notice are displayed only when **Air Filter Notice** is set to **On** from the Configuration menu.
  ☛ **Extended** - **Display** - **Air Filter Notice** p.133

This section explains how to replace the air filter.

Replacing the Air Filter

Air filter replacement period

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

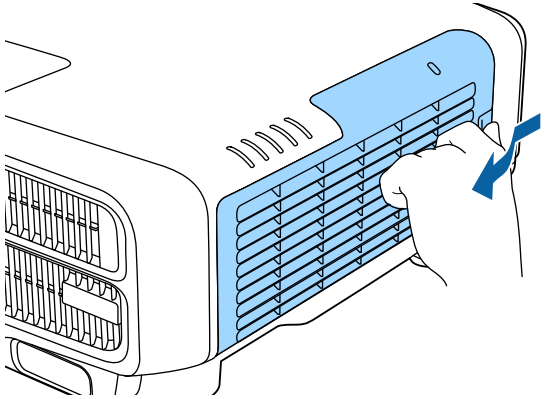
How to replace the air filter

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

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

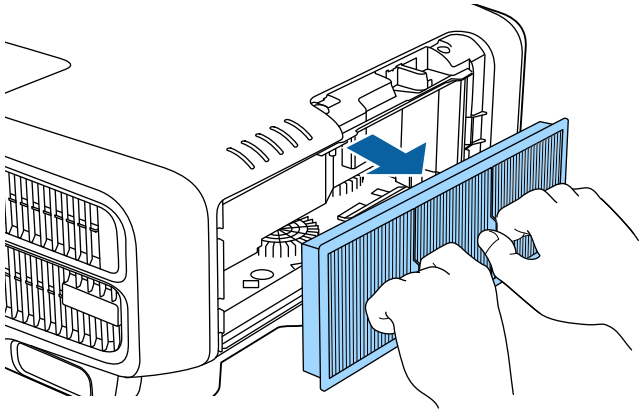
2. Remove the air filter cover.

   Grip the air filter cover tab between your fingers, and pull up and remove the cover while pressing the tab.



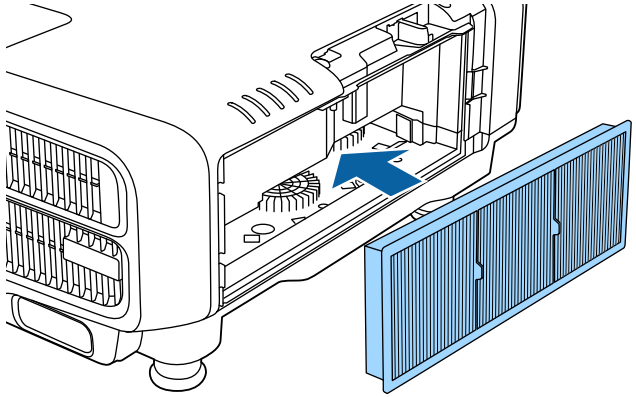
3. Remove the air filter.

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

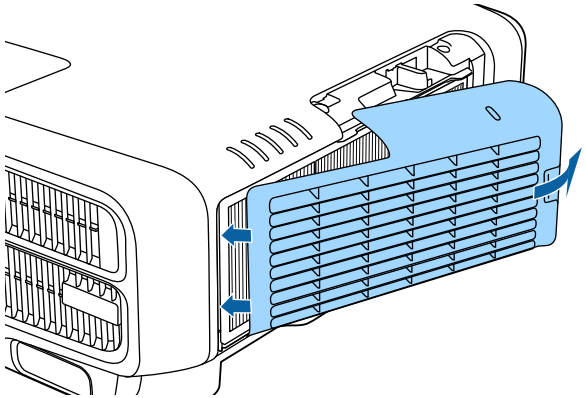


4. Install the new air filter.

   Press until it clicks into place.



5. Attach 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

Color Calibration

Automatically adjusts aging deterioration of the color tone for the whole screen based on the default color settings.

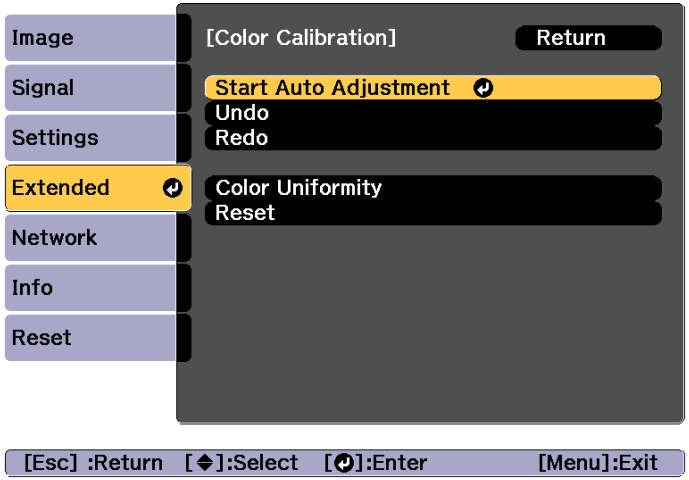
Operating conditions for auto adjustment functions

The auto adjustment function for Color Calibration works under the following conditions:

- The screen surface is not uneven
- Using a matte white diffusion screen
- The projection size is 80 to 200 inches

- Auto adjustment is not available when using the following lenses.
  - EB-L1505U/EB-L1500U: ELPLR04, ELPLL08, ELPLL07
  - EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U: ELPLX01, ELPLR04, ELPLM11, ELPLM07, ELPLL08, ELPLL07
- After auto adjustment, the movement range for lens shift is reduced for some lenses.
  ☛ "Adjusting the Position of the Projected Image (Lens Shift)" p.33
- We recommend performing Color Calibration 20 minutes after turning on the projector or canceling A/V mute.
- To increase the accuracy of adjustments, we recommend darkening the room while projecting images and then making adjustments.
- Auto adjustment is performed using the camera built into the front of the projector. Do not block the camera or the projected images.
- Auto adjustment takes approximately one minute and 30 seconds.
- After making automatic adjustments, Color Uniformity and Color Calibration are returned to their defaults.
- By using the scheduling function, you can automatically adjust the color for the whole screen at the time you set.
  ☛ "Scheduling Function" p.113
- See the following if Color Calibration does not work correctly.
  ☛ "Automatic adjustments are not performed correctly" p.176

1. Press the [Menu] button while projecting.
2. Select **Color Calibration** from **Extended**.
3. Select **Start Auto Adjustment**, and then press the [↵] button.



The adjustment pattern is displayed, and adjustment starts. If the projected image is displayed before the adjusting, the procedure is complete.

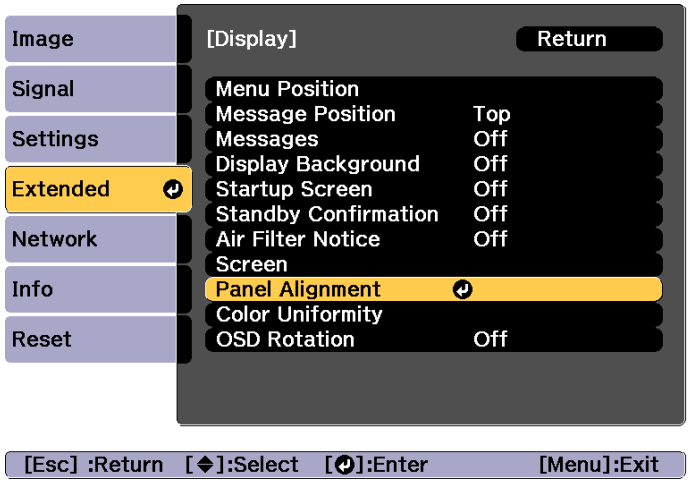
- See the following if an error occurs.
  ☛ "Automatic adjustments are not performed correctly" p.176
- To return to the status before auto adjustment, select **Undo**. When you select **Redo** after selecting **Undo**, it returns the image to the status after auto adjustment.
- To return **Color Calibration** to its default value, select **Reset**.

Panel Alignment

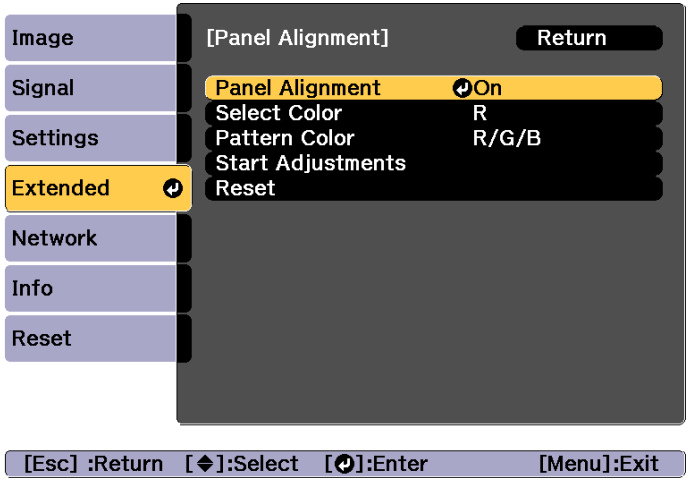
Adjusts the pixel color shift for the LCD panel. You can adjust the pixels horizontally and vertically by 0.25 pixel within a range of ±1 pixel.

- Image quality may decline after performing LCD alignment.
- Images for pixels that extend beyond the edge of the projected screen are not displayed.

1. Press the [Menu] button while projecting.
2. Select **Display** from **Extended**.
3. Select **Panel Alignment**, and then press the [⏎] button.



4. Enable **Panel Alignment**.



(1) Select **Panel Alignment**, and then press the [↵] button.

(2) Select **On**, and then press the [↵] button.

(3) Press the [Esc] button to return to the previous screen.

5 Select the color you want to adjust.

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

(2) Select **R** (red) or **B** (blue), and then press the [↵] button.

(3) Press the [Esc] button to return to the previous screen.

6 Select the grid color displayed when making adjustments from **Pattern Color**.

(1) Select **Pattern Color**, and then press the [↵] button.

(2) Select a combination of R (red), G (green), and B (blue) for the grid color.

R/G/B: Displays a combination all three colors; red, green and blue. The actual color of the grid is white.

R/G: This is available when **R** is selected from **Select Color**. Displays a combination of two colors; red and green. The actual color of the grid is yellow.

G/B: This is available when **B** is selected from **Select Color**. Displays a combination of two colors; green and blue. The actual color of the grid is cyan.

(3) Press the [Esc] button to return to the previous screen.

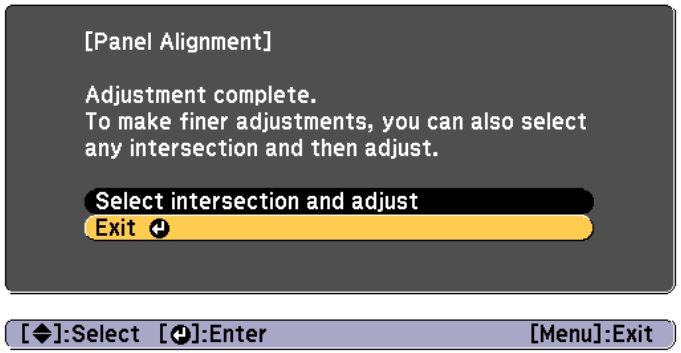
7 Select **Start Adjustments**, and then press the [↵] button. When the message is displayed, press the [↵] button again.

Adjustment starts. All four corners are adjusted in order starting at the top left.

> The image may become distorted while adjusting. The image is restored once adjustments are complete.

8 Use the [▲], [▼], [◀], and [▶] buttons to make adjustments, and then press the [↵] button to move to the next adjustment point.

9 When you have adjusted all four corners, select **Exit**, and then press the [↵] button.



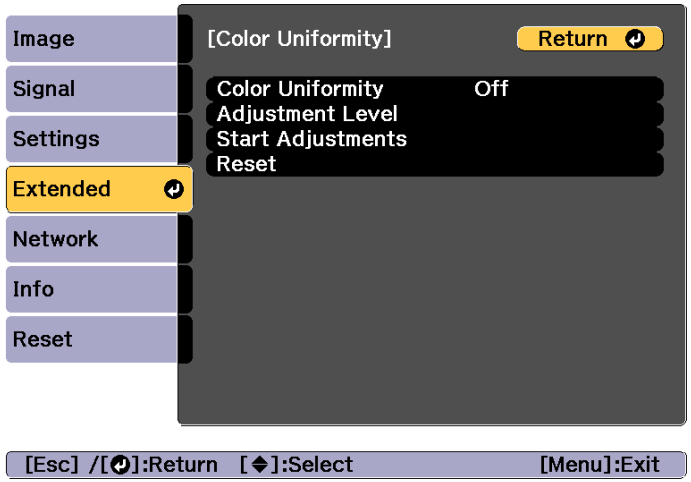
If you feel you still need to make adjustments after correcting all four points, select **Select intersection and adjust** and then continue making adjustments.

Color Uniformity

Adjusts the color tone for the whole screen.

> The color tone may not be uniform even after performing color uniformity.

1. Press the [Menu] button while projecting.
2. Select **Display** from **Extended**.
3. Select **Color Uniformity**, and then press the [⏎] button.
   The following screen is displayed.



Color Uniformity: Turns color uniformity on or off.

Adjustment Level: There are eight levels from white, through gray, and up to black. You can adjust each level individually.

Start Adjustments: Starts adjusting color uniformity.

Reset: Resets all adjustments and settings for **Color Uniformity** to their default values.

> The image may become distorted while adjusting **Color Uniformity**. The image is restored once adjustments are complete.

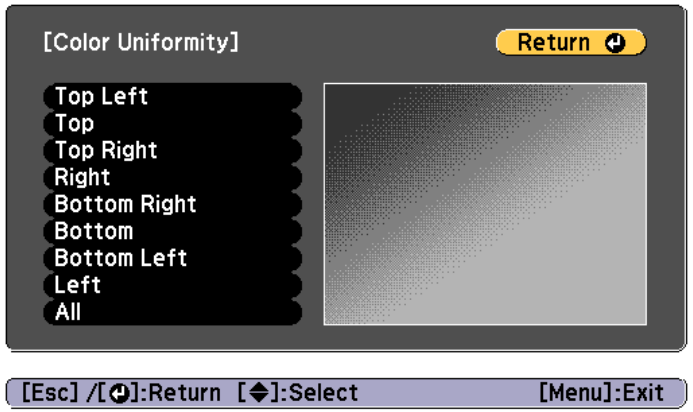
4. Select **Color Uniformity**, and then press the [⏎] button.
5. Set to **On**, and then press the [Esc] button.
6. Select **Adjustment Level**, and then press the [⏎] button.
7. Use the [◀][▶] buttons to set the adjustment level.

8 Press the [Esc] button to return to the previous screen.

9 Select **Start Adjustments**, and then press the [↵] button.

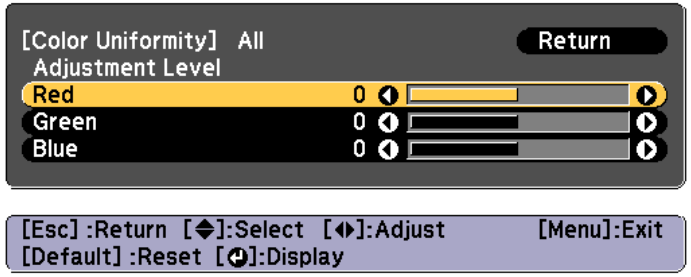
10 Select the area you want to adjust, and then press the [↵] button.

Adjust the outer areas first, and then adjust the whole screen.



11 Use the [▲][▼] buttons to select the color you want to adjust, and then use the [◀][▶] buttons to adjust.

Press the [◀] button to weaken the color tone. Press the [▶] button to strengthen the color tone.



12 Return to step 6 and adjust each level.

13 To complete the adjustment, press the [Menu] button.

Appendix

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

About 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 website.

http://www.epson.com

Changing Settings Using a Web Browser (Epson Web Control)

By using a Web browser of a computer or mobile device connected to the projector on a network, you can set functions and control the projector. This function allows you to perform setup and control operations remotely. Also, you can operate a specific projector when using multiple projectors.

Use Internet Explorer 9.0 or later as the Web browser. Use Safari for OS X.

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

☛ **Extended** - **Standby Mode** p.133

Displaying the Epson Web Control Screen

Use the following procedure to display the Epson Web Control screen.

Make sure your device and projector are ready for the network connection.

If your Web browser is set up to connect via a proxy server, the Epson 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. Connect your device to the same network as the connected projector.

   The connection method varies depending on the device. See the manual supplied with your device for details. When using a tablet, check the Wi-Fi settings.

2. Start the Web browser on your device.

3. Connect by entering the address of the connected projector in the URL field of the Web browser.

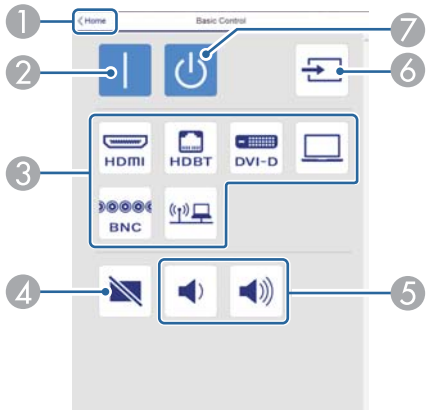
   The Home screen is displayed.

1. **Basic Control**
   ☛ "Basic Control Screen" p.195
2. **OSD Control Pad**
   ☛ "OSD Control Pad Screen" p.196
3. **Test Pattern**
   ☛ "Test Pattern Operation Screen" p.198
4. **Advanced**
   You are moved to the Advanced screen.
5. **Status Information**
   ☛ "Status Information Screen" p.198
6. **Lens Control**
   ☛ "Lens Control Screen" p.196

- When performing the functions from the Home screen, you may be prompted to enter the user name and password.
  The following two types of user names and passwords are available.
  Remote: The user name is "EPSONREMOTE" and the default password is "guest".
  Web Control: The user name is "EPSONWEB" and the default password is "admin".
- You cannot change the user name. You can change the password in the Network menu from the Configuration menu.
  ☛ **Network - Basic - Remote Password, Web Control Password** p.139
- You must enter the user name for Web Control Password even when the password is disabled.

Basic Control Screen

You can perform basic projector operations.

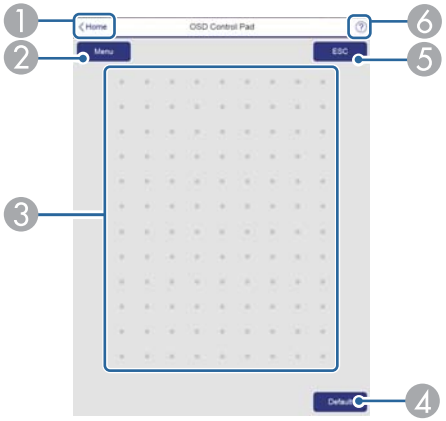


1. Moves to the Home screen.
2. Turns the projector on.
3. Switches to the target image.

4 Turns the video and audio on or off.
5 You can adjust the volume.
6 Automatically detects the input signal.
7 Turns the projector off.

OSD Control Pad Screen

You can operate the Configuration menu of the projector.



1 Moves to the Home screen.
2 Displays and closes the Configuration menu.
3 You can operate the Configuration menu using your finger or mouse.
Flick to select an item, and tap to confirm the selection.
4 When "[**Default**] :Reset" is displayed on the Configuration menu guide, selecting this icon returns the settings to their default values.
5 Returns to the previous menu level in the Configuration menu.
6 Displays information on using the OSD Control Pad.

Items in the Configuration menu that cannot be set in Epson Web Control are listed below.

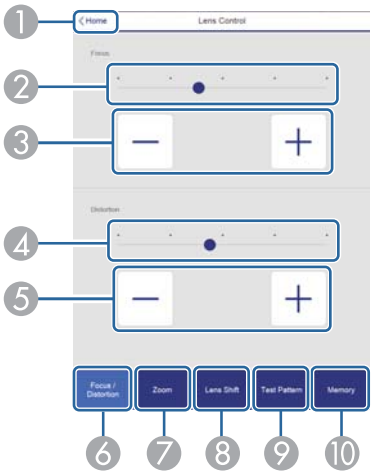
- Settings Menu - User Button
- Extended menu - Display - Message Position
- Extended Menu - User's Logo
- Extended menu - Operation - Advanced - BNC Sync Termination, HDMI DDC Buffer, DVI-D DDC Buffer, Lens Type
- Extended menu - Operation - Lens Calibration
- Extended Menu - Language

The settings for items on each menu are the same as the projector's Configuration menu.
☛ "Configuration Menu" p.123

Lens Control Screen

You can operate the lens of the projector.

Focus/Distortion Operation Screen

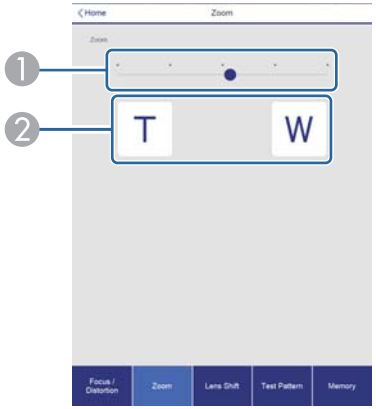


1 Moves to the Home screen.

❷ Move the slider to adjust the focus.
❸ Press the buttons to adjust the focus.
❹ Move the slider to adjust image warping.*
❺ Press the buttons to adjust image warping.*
❻ Displays the Focus / Distortion operation screen.
❼ Displays the Zoom operation screen.
❽ Displays the Lens Shift operation screen.
❾ Displays the Test Pattern operation screen.
❿ Displays the Memory operation screen.
* This is not available for ELPLU02.

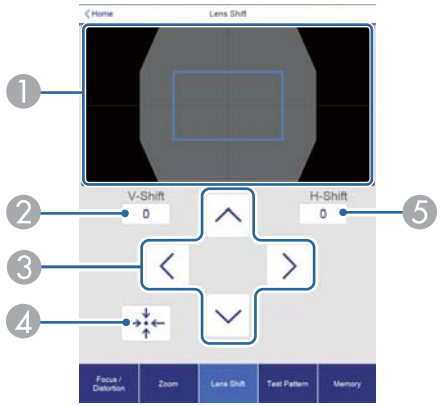
Zoom Operation Screen

This is not available for ELPLX01 and ELPLR04.



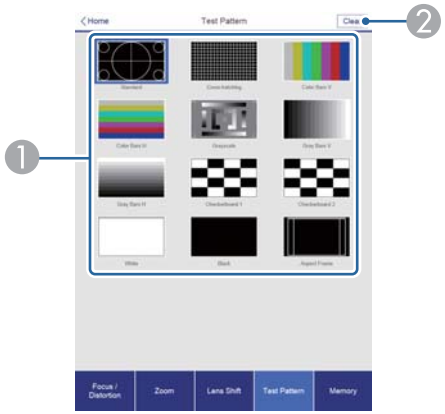
❶ Move the slider to adjust the zoom.
❷ Press the buttons to adjust the zoom.

Lens Shift Operation Screen



❶ Displays the position of the image as a blue square. When you move the image position, a red square is displayed at the destination.
❷ Displays the vertical image position. You can directly specify the position by tapping it and entering a number.
❸ Moves the image position up, down, left, or right.
❹ Moves the lens position to the home position if you press the **OK** button in the confirmation screen.
❺ Displays the horizontal image position. You can directly specify the position by tapping it and entering a number.

Test Pattern Operation Screen



1. Displays a test pattern.
2. Closes the test pattern.

Memory Operation Screen

See the following for memory function details.

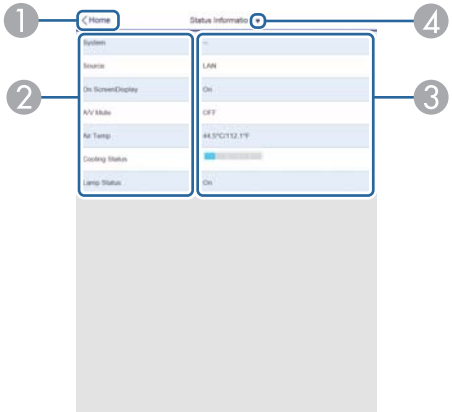
☛ "Memory Function" p.111

1. Loads a memory.
2. Saves a memory.
3. Displays a list of memories.
4. Erases a memory.
5. Changes a memory name.

Status Information Screen

You can check the projector's status. See the following for display details.

☛ "Reading the Status Display" p.163



1. Moves to the Home screen.
2. Displays the item name.
3. Displays the status of each item.
4. Selects a category from the following.
   Status Information, Source, Signal Information, Network Wired, Network Wireless, Maintenance, Version

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** - **Notifications** - **Mail Notification** p.143

- Up to a maximum of three notification destinations (addresses) can be registered, and notification messages can be sent to all three destinations at once.
- If a projector develops a critical problem and suddenly stops working, it may not be able to send a message notifying an operator of the problem.
- If you set **Standby Mode** to **Communication On**, you can control the projector even if it is in standby mode (when the power is off).
  ☛ **Extended** - **Standby Mode** p.133

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: The email address set in **From**

Subject: EPSON Projector

Line 1: The projector name where the problem has occurred

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

Line 3 and on: Details of the problem

The details of the problem are listed line by line. The main message contents are listed below.

- Clean Air Filter
- Internal error
- Fan related error
- Sensor error
- Laser error
- Laser warning
- Retardation Plate Error
- Internal temperature error
- High-speed cooling in progress
- Low Air Flow
- Low Air Flow Error
- 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.
- Lens shift error
- No lens
- Peltier Device error

See the following to deal with problems or warnings.

☛ "Reading the Indicators" p.157

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 allows you to check for problems with projectors even at locations away from the projectors.

☛ **Network - Notifications - SNMP** p.143

- 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 over 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
	BNC	Auto	SOURCE BF
		RGB	SOURCE B1
		Component	SOURCE B4
	HDMI		SOURCE 30
	LAN		SOURCE 53
	SDI (EB-L1505U/EB-L1500U/EB-L1405U only)		SOURCE 60
	DVI-D		SOURCE A0
	HDBaseT		SOURCE 80
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.

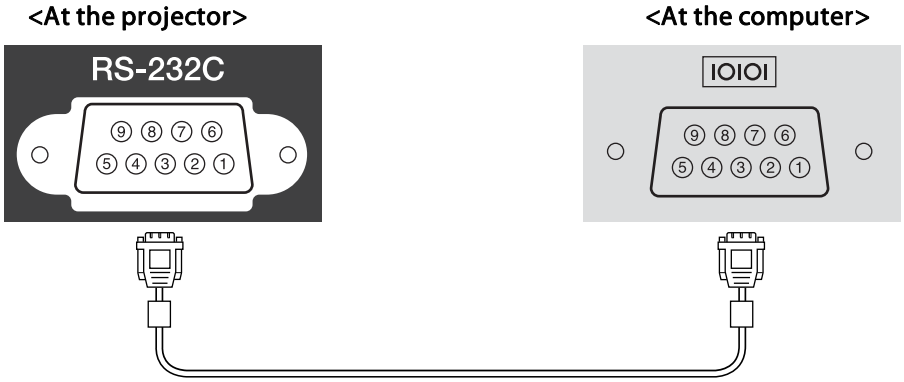
For more details, contact your local dealer or the nearest address provided in the Epson Projector Contact List.

☛ *Epson Projector Contact List*

Cable layouts

Serial connection

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



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.137

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
BNC	INPT 13

Source	PJLink Command
DVI-D	INPT 31
HDMI	INPT 32
SDI (EB-L1505U/EB-L1500U/EB-L1405U only)	INPT 34
LAN	INPT 52
HDBaseT	INPT 56

- Manufacturer name displayed for "Manufacture name information query"
  EPSON

- Model name displayed for "Product name information query"
  EPSON L1505U/L1500U
  EPSON L1405U
  EPSON L1300U
  EPSON L1200U
  EPSON L1100U

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 (Epson Web Control)" p.194
  Message Broadcasting (EasyMP Monitor plug-in)
- If you set **Standby Mode** to **Communication On**, you can control the projector even if it is in standby mode (when the power is off).
  ☛ **Extended** - **Standby Mode** p.133

Operating a projector from your computer

Displaying the operation window

Check the following before carrying out any operations.

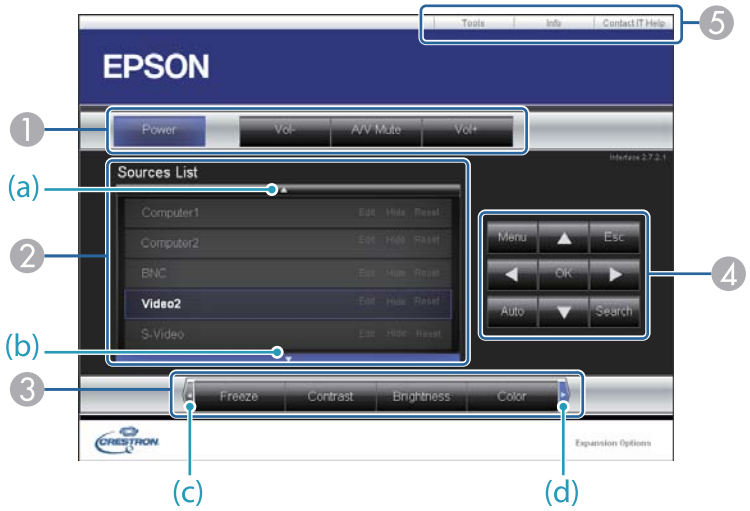
- Make sure the computer and projector are connected to the network.
- Set **Crestron RoomView** to **On** from the **Network** menu.
  ☛ **Network** - **Others** - **Crestron RoomView** p.144

1 Start the 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



❶ 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.107

❷ Switch to the image from the selected input source. To display input sources that are not shown in Source List, click (a) or (b) to scroll up or down. The current video signal input source is displayed in blue.

You can change the source name if necessary.

❸ You can perform the following operations when you click the buttons. To display buttons that are not shown in Source List, click (c) or (d) to scroll left or right.

Button	Function
Freeze	Images are paused or unpaused. ☛ "Freezing the Image (Freeze)" p.108
Contrast	Adjusts the difference between light and shade in the images.
Brightness	Adjusts the image brightness.
Color	Adjusts the color saturation for the images.
Sharpness	Adjusts 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 [▲] [▼] [◀] [▶] buttons to change the position of an enlarged image. ☛ "Enlarging Part of the Image (E-Zoom)" p.108

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

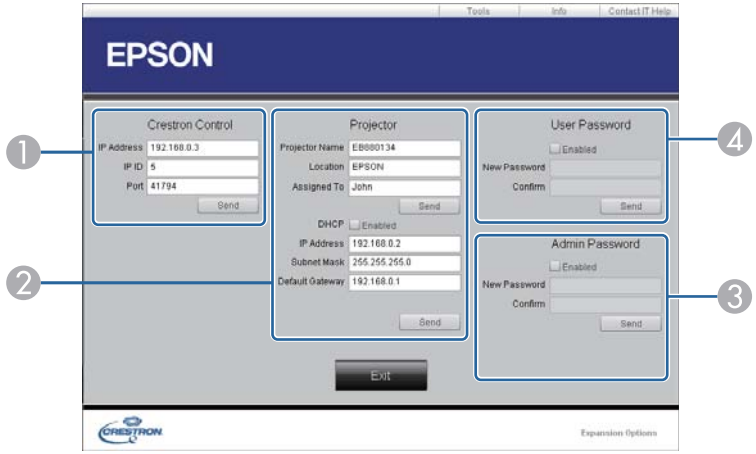
Button	Function
OK	Performs the same operation as the [↵] button on the remote control. ☛ "Remote Control" p.20
Menu	Displays and closes the Configuration menu.
Auto	If clicked while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.
Search	Changes to the next input source that is sending an image. ☛ "Automatically Detecting Input Signals and Changing the Projected Image (Source Search)" p.59
Esc	Performs the same operation as the [Esc] button on the remote control. ☛ "Remote Control" p.20

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

About Art-Net (EB-L1505U/EB-L1500U/EB-L1405U only)

Art-Net is an Ethernet communication protocol based on the TCP/IP protocol.

You can control the projector by using a DMX controller or an application system.

Channel definitions

The following explains the channel definitions used when controlling the projector in Art-Net.

Channel	Function	Operation		Parameters	Default	Operation Content
1	Adjusting light (Dimming)	0% - 100%		0 - 255	0	Sets the image brightness.
2	Shutter control	Shutter	Closed	0 - 63	128	Enables/disables A/V Mute.
		Non-operational		64 - 191		
		Shutter	Open	192 - 255		
3	Switch source	Non-operational		0 - 7	0	Changes to the specified source.
		HDMI		8 - 15		
		Non-operational		16 - 23		
		HDBaseT		24 - 31		
		DVI-D		32 - 39		
		Non-operational		40 - 47		
		SDI		48 - 55		
		Computer		56 - 63		
		Non-operational		64 - 71		
		BNC		72 - 79		
		LAN		80 - 87		
		Non-operational		88 - 95		
		Non-operational		96 - 255		

Channel	Function	Operation		Parameters	Default	Operation Content
4	Lens position	Non-operational		0 - 31	0	Moves the lens shift to the home position.
		Move to home position		32 - 63		
		Non-operational		64 - 255		
5	Horizontal lens shift	(+) lens adjustment	Movement - Large	0 - 31	128	Performs horizontal lens shift using the amount of movement specified.
			Movement - Medium	32 - 63		
			Movement - Small	64 - 95		
		Non-operational		96 -159		
		(-) lens adjustment	Movement - Small	160 - 191		
			Movement - Medium	192 - 223		
			Movement - Large	224 - 255		
6	Vertical lens shift	(+) lens adjustment	Movement - Large	0 - 31	128	Performs vertical lens shift using the amount of movement specified.
			Movement - Medium	32 - 63		
			Movement - Small	64 - 95		
		Non-operational		96 -159		
		(-) lens adjustment	Movement - Small	160 - 191		
			Movement - Medium	192 - 223		
			Movement - Large	224 - 255		
7	Electronic zoom	(+) lens adjustment	Movement - Large	0 - 31	128	Performs electronic zoom using the amount of movement specified.
			Movement - Medium	32 - 63		
			Movement - Small	64 - 95		
		Non-operational		96 -159		

Channel	Function	Operation		Parameters	Default	Operation Content
		(-) lens adjustment	Movement - Small	160 - 191		
			Movement - Medium	192 - 223		
			Movement - Large	224 - 255		
8	Electronic focus	(+) lens adjustment	Movement - Large	0 - 31	128	Performs electronic focus using the amount of movement specified.
			Movement - Medium	32 - 63		
			Movement - Small	64 - 95		
		Non-operational		96 -159		
		(-) lens adjustment	Movement - Small	160 - 191		
			Movement - Medium	192 - 223		
			Movement - Large	224 - 255		
9	Electronic distortion	(+) lens adjustment	Movement - Large	0 - 31	128	Performs electronic distortion using the amount of movement specified.
			Movement - Medium	32 - 63		
			Movement - Small	64 - 95		
		Non-operational		96 -159		
		(-) lens adjustment	Movement - Small	160 - 191		
			Movement - Medium	192 - 223		
			Movement - Large	224 - 255		
10	Load lens memory	Non-operational		0 - 15	0	Loads the specified lens memory.
		Load lens memory 1		16 - 31		
		Load lens memory 2		32 - 47		
		Load lens memory 3		48 - 63		

Chan-nel	Function	Operation	Parameters	Default	Operation Content
		Load lens memory 4	64 - 79		
		Load lens memory 5	80 - 95		
		Load lens memory 6	96 - 111		
		Load lens memory 7	112 - 127		
		Load lens memory 8	128 - 143		
		Load lens memory 9	144 - 159		
		Load lens memory 10	160 - 175		
		Non-operational	176 - 255		
11	Power control	Power off	0 - 63	128	Turns the projector power on or off.
		Non-operational	64 - 191		
		Power on	192 - 255		
12	Geometry correction	Off	0 - 15	255	Performs geometry correction.
		Horizontal/vertical distortion (Keystone)	16 - 31		
		Quick Corner	32 - 47		
		Point Correction	48 - 63		
		Curved Surface	64 - 79		
		Corner Wall	80 - 95		
		Load geometry correction memory 1	96 - 111		Loads a geometry correction memory.
		Load geometry correction memory 2	112 - 127		
		Load geometry correction memory 3	128 - 143		
		Non-operational	144 - 175		
13	Lock	Cannot control	0 - 127	0	Enables/disables Art-Net operations.
		Can control	128 - 255		

While controlling the projector using Art-Net and performing operations from the remote control or control panel, settings made by the DMX controller or application software may differ from the actual projector's status. When you want to apply all the channel controls to the projector, set Channel 13 to "Cannot control", then set it back to "Can control".

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: April, 2016. Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

Optional Accessories

Lens unit **ELPLX01*1, ELPLU03, ELPLU04, ELPLW05, ELPLW06, ELPLM08*1, ELPLM09, ELPLM10, ELPLM11, ELPLL08** See the following for more information on the projection distance for each lens. ☛ "Screen Size and Projection Distance" p.212
Computer cable ELPKC02 **(1.8 m - for mini D-Sub15-pin/mini D-Sub 15pin)** This is the same as the computer cable supplied with the projector.
Computer cable ELPKC09 **(3 m - for mini D-Sub15-pin/mini D-Sub 15pin)** **Computer cable ELPKC10** **(20 m - for mini D-Sub15-pin/mini D-Sub 15pin)** Use one of these longer cables if the computer cable supplied with the projector is too short.
Component video cable ELPKC19 **(3 m - for mini D-Sub 15-pin/RCA male×3)** Use to connect a Component Video source.
Remote control cable set ELPKC28 **(10 m 2 piece set)** Use this to guarantee operation from the remote control from a distance.
Wireless mouse receiver ELPST16 Use this to use the projector's remote control to control the mouse pointer on the computer or to page up and down.
HDBaseT Transmitter ELPHD01 This transmitter performs long distance transmissions for HDMI signals and control signals for 1 LAN cable. Based on the HDBaseT standard. (HDCP 2.2 is not supported.)
Wireless LAN unit ELPAP10 Use when connecting the projector to a computer wirelessly and projecting.
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.
Polarizer ELPPL01 Use this when stacking two projectors and projecting 3D images.
Passive 3D Glasses (standard five piece set) ELPGS02A **Passive 3D Glasses (five piece set for children) ELPGS02B** Passive polarized 3D glasses. Use these when viewing 3D images with two projectors.
Document Camera ELPDC13, ELPDC21 Use when projecting images such as books, OHP documents, or slides.
Low ceiling mount*2 ELPMB47 **High ceiling mount*2 ELPMB48** Use when installing the projector on a ceiling.

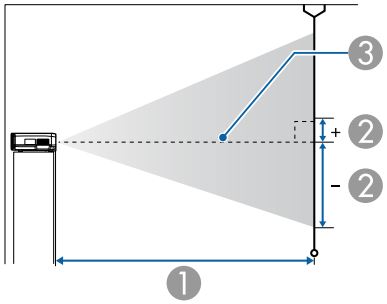
*1 Not available for EB-L1505U/EB-L1500U

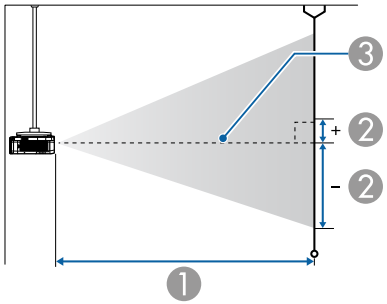
*2 Special expertise is required to suspend the projector from a ceiling. Contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*

Consumables

Air Filter ELPAF51 Use as a replacement for used air filters.

Projection Distance for EB-L1505U/EB-L1500U





1. Projection distance
2. is the distance from the center of the lens to the base of the screen. This changes depending on the setting for vertical lens shift.
3. Center of lens

ELPLM09/ELPLS04

This section shows the projection distances for models equipped with standard lenses.

Unit: cm

4:3 Screen Size		1 Minimum (Wide) to Maximum (Tele)	2 Vertical Lens Shift Top to Bottom
53"	108x81	199 - 326	-89 - +8
60"	122x91	226 - 370	-101 - +9
80"	163x122	304 - 497	-134 - +12
100"	203x152	383 - 623	-168 - +15
120"	244x183	461 - 749	-201 - +18
150"	305x229	578 - 938	-252 - +23
200"	406x305	773 - 1253	-335 - +31
250"	508x381	969 - 1569	-419 - +38
441"	896x671	1715 - 2773	-740 - +68

Unit: cm

16:9 Screen Size		1 Minimum (Wide) to Maximum (Tele)	2 Vertical Lens Shift Top to Bottom
59"	131x73	201 - 330	-86 - +12
60"	133x75	205 - 336	-87 - +13
80"	177x100	276 - 450	-116 - +17
100"	221x125	347 - 565	-145 - +21
120"	266x149	417 - 679	-174 - +25
150"	332x187	524 - 851	-218 - +31
200"	443x249	701 - 1137	-291 - +42
250"	553x311	879 - 1423	-363 - +52
486"	1076x605	1716 - 2775	-706 - +101

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	130x81	199 - 326	-89 - +8
80"	172x108	268 - 438	-119 - +11
100"	215x135	337 - 549	-148 - +14
120"	258x162	406 - 661	-178 - +16
150"	323x202	509 - 828	-222 - +20
200"	431x269	682 - 1106	-296 - +27
250"	538x337	855 - 1385	-370 - +34
500"	1077x673	1717 - 2777	-741 - +68

ELPLU03

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
98"	199x149	113 - 136	-111 - -39
100"	203x152	115 - 139	-113 - -40
120"	244x183	139 - 168	-135 - -47
150"	305x229	175 - 211	-169 - -59
200"	406x305	234 - 282	-226 - -79
250"	508x381	293 - 353	-282 - -99
353"	717x538	416 - 500	-398 - -140

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
108"	239x134	113 - 136	-103 - -31
120"	266x149	126 - 152	-115 - -35
150"	332x187	158 - 191	-143 - -43
200"	443x249	212 - 256	-191 - -58
250"	553x311	266 - 320	-239 - -72
389"	861x484	416 - 500	-372 - -113

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
110"	237x148	112 - 135	-110 - -38
120"	258x162	122 - 148	-120 - -42
150"	323x202	154 - 186	-150 - -52
200"	431x269	206 - 249	-199 - -70
250"	538x337	259 - 312	-249 - -87
400"	862x539	416 - 500	-399 - -140

ELPLU04/ELPLU02

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
53"	108x81	80 - 97	-89 - +8

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	122x91	91 - 110	-101 - +9
80"	163x122	123 - 149	-134 - +12
100"	203x152	155 - 188	-168 - +15
120"	244x183	187 - 226	-201 - +18
150"	305x229	236 - 284	-252 - +23
200"	406x305	316 - 381	-335 - +31
250"	508x381	396 - 478	-419 - +38
441"	896x672	703 - 847	-740 - +68

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
59"	131x73	80 - 98	-86 - +12
60"	133x75	82 - 100	-87 - +13
80"	177x100	111 - 135	-116 - +17
100"	221x125	140 - 170	-145 - +21
120"	266x149	170 - 205	-174 - +25
150"	332x187	213 - 258	-218 - +31
200"	443x249	286 - 346	-291 - +42
250"	553x311	359 - 433	-363 - +52
486"	1076x605	704 - 848	-706 - +101

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	130x81	80 - 97	-89 - +8
80"	172x108	108 - 131	-119 - +11
100"	215x135	136 - 165	-148 - +14
120"	258x162	165 - 199	-178 - +16
150"	323x202	207 - 251	-222 - +20
200"	431x269	278 - 336	-296 - +27
250"	538x337	349 - 421	-370 - +34
500"	1077x673	704 - 848	-741 - +68

ELPLW05

Unit: cm

4:3 Screen Size		❶	❷
62"	126x94	112 - 159	-70 - -25
80"	163x122	147 - 207	-90 - -32
100"	203x152	185 - 260	-113 - -40
120"	244x183	224 - 313	-135 - -47
150"	305x229	282 - 393	-169 - -59
200"	406x305	378 - 526	-226 - -79
250"	508x381	475 - 659	-282 - -99
353"	717x538	673 - 933	-398 - -140

Unit: cm

16:9 Screen Size		❶	❷
69"	153x86	113 - 161	-66 - -20

16:9 Screen Size		❶	❷
80"	177x100	132 - 187	-76 - -23
100"	221x125	167 - 236	-96 - -29
120"	266x149	202 - 284	-115 - -35
150"	332x187	255 - 357	-143 - -43
200"	443x249	343 - 477	-191 - -58
250"	553x311	430 - 598	-239 - -72
389"	861x484	674 - 934	-372 - -113

Unit: cm

16:10 Screen Size		❶	❷
70"	151x94	111 - 159	-70 - -24
80"	172x108	129 - 182	-80 - -28
100"	215x135	163 - 229	-100 - -35
120"	258x162	197 - 276	-120 - -42
150"	323x202	248 - 347	-150 - -52
200"	431x269	333 - 464	-199 - -70
250"	538x337	418 - 582	-249 - -87
400"	862x539	674 - 934	-399 - -140

ELPLW06/ELPLW04

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
53"	108x81	149 - 206	-89 - +8
60"	122x91	170 - 234	-101 - +9
80"	163x122	229 - 315	-134 - +12
100"	203x152	288 - 395	-168 - +15
120"	244x183	348 - 475	-201 - +18
150"	305x229	436 - 596	-252 - +23
200"	406x305	584 - 797	-335 - +31
250"	508x381	732 - 998	-419 - +38
441"	896x672	1298 - 1766	-740 - +68

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
59"	131x73	151 - 208	-86 - +12
60"	133x75	154 - 212	-87 - +13
80"	177x100	207 - 285	-116 - +17
100"	221x125	261 - 358	-145 - +21
120"	266x149	315 - 431	-174 - +25
150"	332x187	395 - 540	-218 - +31
200"	443x249	530 - 723	-291 - +42
250"	553x311	664 - 905	-363 - +52
486"	1076x605	1298 - 1767	-706 - +101

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	130x81	149 - 206	-89 - +8

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
80"	172x108	202 - 277	-119 - +11
100"	215x135	254 - 348	-148 - +14
120"	258x162	306 - 419	-178 - +16
150"	323x202	385 - 526	-222 - +20
200"	431x269	515 - 703	-296 - +27
250"	538x337	646 - 881	-370 - +34
500"	1077x673	1299 - 1769	-741 - +68

ELPLM10/ELPLM06

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
53"	108x81	306 - 473	-89 - +8
60"	122x91	349 - 537	-101 - +9
80"	163x122	469 - 720	-134 - +12
100"	203x152	590 - 904	-168 - +15
120"	244x183	710 - 1087	-201 - +18
150"	305x229	891 - 1362	-252 - +23
200"	406x305	1193 - 1821	-335 - +31
250"	508x381	1494 - 2279	-419 - +38
441"	896x672	2646 - 4030	-740 - +68

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
59"	131x73	310 - 478	-86 - +12
60"	133x75	315 - 486	-87 - +13
80"	177x100	425 - 653	-116 - +17
100"	221x125	534 - 819	-145 - +21
120"	266x149	664 - 986	-174 - +25
150"	332x187	808 - 1236	-218 - +31
200"	443x249	1082 - 1652	-291 - +42
250"	553x311	1355 - 2068	-363 - +52
486"	1076x605	2647 - 4032	-706 - +101

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	130x81	306 - 473	-89 - +8
80"	172x108	413 - 635	-119 - +11
100"	215x135	519 - 797	-148 - +14
120"	258x162	626 - 959	-178 - +16
150"	323x202	786 - 1202	-222 - +20
200"	431x269	1052 - 1607	-296 - +27
250"	538x337	1318 - 2012	-370 - +34
500"	1077x673	2650 - 4036	-741 - +68

ELPLM11/ELPLM07

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
53"	108x81	445 - 686	-89 - +8
60"	122x91	507 - 780	-101 - +9
80"	163x122	683 - 1048	-134 - +12
100"	203x152	860 - 1316	-168 - +15
120"	244x183	1037 - 1584	-201 - +18
150"	305x229	1302 - 1985	-252 - +23
200"	406x305	1744 - 2655	-335 - +31
250"	508x381	2186 - 3325	-419 - +38
441"	896x672	3875 - 5883	-740 - +68

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
59"	131x73	450 - 694	-86 - +12
60"	133x75	458 - 706	-87 - +13
80"	177x100	618 - 949	-116 - +17
100"	221x125	779 - 1192	-145 - +21
120"	266x149	939 - 1436	-174 - +25
150"	332x187	1180 - 1800	-218 - +31
200"	443x249	1581 - 2408	-291 - +42
250"	553x311	1983 - 3016	-363 - +52
486"	1076x605	3877 - 5886	-706 - +101

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	130x81	445 - 686	-89 - +8
80"	172x108	601 - 923	-119 - +11
100"	215x135	757 - 1160	-148 - +14
120"	258x162	913 - 1396	-178 - +16
150"	323x202	1147 - 1751	-222 - +20
200"	431x269	1538 - 2343	-296 - +27
250"	538x337	1928 - 2934	-370 - +34
500"	1077x673	3881 - 5892	-741 - +68

ELPLL08/ELPLL07

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
53"	108x81	664 - 941	-89 - +8
60"	122x91	756 - 1069	-101 - +9
80"	163x122	1019 - 1436	-134 - +12
100"	203x152	1281 - 1803	-168 - +15
120"	244x183	1544 - 2170	-201 - +18
150"	305x229	1937 - 2720	-252 - +23
200"	406x305	2594 - 3637	-335 - +31
250"	508x381	3250 - 4555	-419 - +38
441"	896x672	5757 - 8059	-740 - +68

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
59"	131x73	672 - 951	-86 - +12
60"	133x75	683 - 968	-87 - +13
80"	177x100	922 - 1301	-116 - +17
100"	221x125	1160 - 1634	-145 - +21
120"	266x149	1398 - 1967	-174 - +25
150"	332x187	1756 - 2467	-218 - +31
200"	443x249	2352 - 3300	-291 - +42
250"	553x311	2948 - 4132	-363 - +52
486"	1076x605	5760 - 8063	-706 - +101

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
60"	130x81	664 - 941	-89 - +8
80"	172x108	896 - 1265	-119 - +11
100"	215x135	1128 - 1589	-148 - +14
120"	258x162	1360 - 1913	-178 - +16
150"	323x202	1708 - 2399	-222 - +20
200"	431x269	2287 - 3209	-296 - +27
250"	538x337	2867 - 4020	-370 - +34
500"	1077x673	5765 - 8071	-741 - +68

ELPLR04

Lens shift is not supported.

Unit: cm

4:3 Screen Size		❶	❷
53"	108x81	87	-40
60"	122x91	99	-46
80"	163x122	134	-61
100"	203x152	169	-76
120"	244x183	205	-91
150"	305x229	257	-114
200"	406x305	345	-152
250"	508x381	433	-191
441"	896x672	770	-336

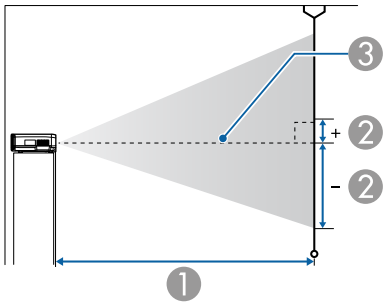
Unit: cm

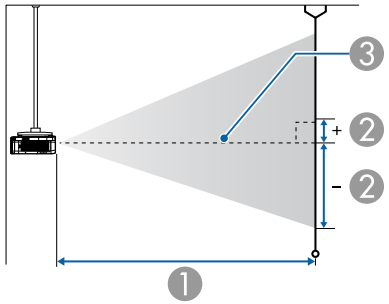
16:9 Screen Size		❶	❷
59"	131x74	88	-37
60"	133x75	89	-37
80"	177x100	121	-50
100"	221x125	153	-62
120"	266x149	185	-75
150"	332x187	233	-93
200"	443x249	313	-125
250"	553x311	393	-156
486"	1076x605	770	-303

Unit: cm

16:10 Screen Size		❶	❷
60"	130x81	87	-40
80"	172x108	118	-54
100"	215x135	149	-67
120"	258x162	180	-81
150"	323x202	227	-101
200"	431x269	304	-135
250"	538x337	382	-168
500"	1077x673	771	-337

Projection Distances for EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U





❶ Projection distance

❷ is the distance from the center of the lens to the base of the screen. This changes depending on the setting for vertical lens shift.

❸ Center of lens

ELPLM08

This section shows the projection distances for models equipped with standard lenses.

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	100x75	156 - 253	-81 - +12
50"	102x76	174 - 281	-90 - +13
60"	122x91	210 - 338	-108 - +16
80"	163x122	281 - 453	-143 - +22
100"	203x152	353 - 567	-179 - +27
120"	244x183	424 - 681	-215 - +32
150"	305x229	532 - 853	-269 - +40
200"	406x305	711 - 1139	-359 - +54

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
250"	508x381	890 - 1424	-448 - +67
265"	539x404	943 - 1510	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	154 - 250	-76 - +15
50"	111x62	157 - 255	-78 - +16
60"	133x75	190 - 307	-94 - +19
80"	177x100	255 - 411	-125 - +25
100"	221x125	320 - 514	-156 - +31
120"	266x149	385 - 618	-187 - +38
150"	332x187	482 - 774	-234 - +47
200"	443x249	645 - 1033	-312 - +63
250"	553x311	807 - 1293	-390 - +78
290"	642x361	937 - 1500	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	153 - 248	-79 - +12
60"	130x81	185 - 298	-95 - +14
80"	172x108	248 - 399	-127 - +19
100"	215x135	311 - 500	-158 - +24

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
120"	258x162	374 - 601	-190 - +29
150"	323x202	469 - 753	-238 - +36
200"	431x269	627 - 1005	-317 - +48
250"	538x337	785 - 1258	-396 - +59
300"	646x404	943 - 1510	-475 - +71

ELPLX01

See the user's guide supplied with the lens unit.

ELPLU03

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
71"	144x108	112 - 135	-127 - +19
80"	163x122	126 - 152	-143 - +22
100"	203x152	159 - 191	-179 - +27
120"	244x183	191 - 230	-215 - +32
150"	305x229	240 - 289	-269 - +40
200"	406x305	321 - 386	-359 - +54
250"	508x381	403 - 483	-448 - +67
265"	539x404	427 - 513	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
78"	173x97	111 - 134	-122 - +24
80"	177x100	114 - 138	-125 - +25
100"	221x125	144 - 173	-156 - +31
120"	266x149	173 - 209	-187 - +38
150"	332x187	218 - 262	-234 - +47
200"	443x249	291 - 350	-312 - +63
250"	553x311	365 - 439	-390 - +78
290"	642x361	424 - 509	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
80"	172x108	111 - 134	-127 - +19
100"	215x135	140 - 168	-158 - +24
120"	258x162	169 - 203	-190 - +29
150"	323x202	212 - 255	-238 - +36
200"	431x269	283 - 341	-317 - +48
250"	538x337	355 - 427	-396 - +59
300"	646x404	427 - 513	-475 - +71

ELPLU04/ELPLU02

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	100x75	93 - 113	-81 - +12
50"	102x76	104 - 126	-90 - +13
60"	122x91	126 - 153	-108 - +16
80"	163x122	170 - 205	-143 - +22
100"	203x152	214 - 258	-179 - +27
120"	244x183	258 - 311	-215 - +32
150"	305x229	324 - 390	-269 - +40
200"	406x305	434 - 522	-359 - +54
250"	508x381	543 - 654	-448 - +67
265"	539x404	576 - 693	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	92 - 112	-76 - +15
50"	111x62	94 - 114	-78 - +16
60"	133x75	114 - 138	-94 - +19
80"	177x100	154 - 186	-125 - +25
100"	221x125	194 - 234	-156 - +31
120"	266x149	234 - 282	-187 - +38
150"	332x187	293 - 354	-234 - +47
200"	443x249	393 - 473	-312 - +63

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
250"	553x311	493 - 593	-390 - +78
290"	642x361	573 - 689	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	91 - 111	-79 - +12
60"	130x81	111 - 134	-95 - +14
80"	172x108	149 - 181	-127 - +19
100"	215x135	188 - 227	-158 - +24
120"	258x162	227 - 274	-190 - +29
150"	323x202	285 - 344	-238 - +36
200"	431x269	382 - 460	-317 - +48
250"	538x337	479 - 577	-396 - +59
300"	646x404	576 - 693	-475 - +71

ELPLW05

Unit: cm

4:3 Screen Size		❶	❷
45"	100x75	111 - 158	-81 - +12
50"	102x76	124 - 176	-90 - +13
60"	122x91	150 - 212	-108 - +16
80"	163x122	203 - 285	-143 - +22
100"	203x152	255 - 357	-179 - +27

4:3 Screen Size		❶	❷
120"	244x183	308 - 430	-215 - +32
150"	305x229	387 - 539	-269 - +40
200"	406x305	519 - 720	-359 - +54
250"	508x381	650 - 902	-448 - +67
265"	539x404	690 - 956	-475 - +71

Unit: cm

16:9 Screen Size		❶	❷
49"	108x61	109 - 156	-76 - +15
50"	111x62	112 - 159	-78 - +16
60"	133x75	136 - 192	-94 - +19
80"	177x100	183 - 258	-125 - +25
100"	221x125	231 - 324	-156 - +31
120"	266x149	279 - 390	-187 - +38
150"	332x187	351 - 489	-234 - +47
200"	443x249	470 - 653	-312 - +63
250"	553x311	590 - 818	-390 - +78
290"	642x361	685 - 950	-452 - +91

Unit: cm

16:10 Screen Size		❶	❷
50"	108x67	109 - 155	-79 - +12
60"	130x81	132 - 187	-95 - +14
80"	172x108	178 - 251	-127 - +19
100"	215x135	225 - 315	-158 - +24
120"	258x162	271 - 379	-190 - +29
150"	323x202	341 - 475	-238 - +36

16:10 Screen Size		❶	❷
200"	431x269	457 - 636	-317 - +48
250"	538x337	573 - 796	-396 - +59
300"	646x404	690 - 956	-475 - +71

ELPLW06/ELPLW04

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	97x61	175 - 240	-81 - +12
50"	102x76	195 - 267	-90 - +13
60"	122x91	236 - 322	-108 - +16
80"	163x122	317 - 432	-143 - +22
100"	203x152	398 - 543	-179 - +27
120"	244x183	479 - 653	-215 - +32
150"	305x229	600 - 818	-269 - +40
200"	406x305	803 - 1094	-359 - +54
250"	508x381	1005 - 1369	-448 - +67
265"	539x404	1066 - 1452	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	173 - 237	-76 - +15
50"	111x62	176 - 242	-78 - +16
60"	133x75	213 - 292	-94 - +19

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
80"	177x100	287 - 392	-125 - +25
100"	221x125	360 - 492	-156 - +31
120"	266x149	434 - 592	-187 - +38
150"	332x187	544 - 742	-234 - +47
200"	443x249	728 - 992	-312 - +63
250"	553x311	912 - 1242	-390 - +78
290"	642x361	1059 - 1442	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	172 - 235	-79 - +12
60"	130x81	207 - 284	-95 - +14
80"	172x108	279 - 381	-127 - +19
100"	215x135	350 - 478	-158 - +24
120"	258x162	422 - 576	-190 - +29
150"	323x202	529 - 722	-238 - +36
200"	431x269	708 - 965	-317 - +48
250"	538x337	887 - 1208	-396 - +59
300"	646x404	1066 - 1452	-475 - +71

ELPLM09/ELPLS04

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	100x75	233 - 379	-81 - +12
50"	102x76	260 - 422	-90 - +13
60"	122x91	313 - 508	-108 - +16
80"	163x122	420 - 679	-143 - +22
100"	203x152	527 - 851	-179 - +27
120"	244x183	635 - 1023	-215 - +32
150"	305x229	795 - 1281	-269 - +40
200"	406x305	1063 - 1711	-359 - +54
250"	508x381	1331 - 2140	-448 - +67
265"	539x404	1411 - 2269	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	230 - 374	-76 - +15
50"	111x62	235 - 382	-78 - +16
60"	133x75	284 - 460	-94 - +19
80"	177x100	381 - 616	-125 - +25
100"	221x125	478 - 772	-156 - +31
120"	266x149	575 - 928	-187 - +38
150"	332x187	721 - 1162	-234 - +47
200"	443x249	964 - 1552	-312 - +63

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
250"	553x311	1207 - 1942	-390 - +78
290"	642x361	1402 - 2254	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	229 - 372	-79 - +12
60"	130x81	276 - 447	-95 - +14
80"	172x108	370 - 599	-127 - +19
100"	215x135	465 - 751	-158 - +24
120"	258x162	560 - 903	-190 - +29
150"	323x202	702 - 1131	-238 - +36
200"	431x269	938 - 1510	-317 - +48
250"	538x337	1175 - 1890	-396 - +59
300"	646x404	1411 - 2269	-475 - +71

ELPLM10/ELPLM06

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	100x75	359 - 549	-81 - +12
50"	102x76	400 - 611	-90 - +13
60"	122x91	483 - 736	-108 - +16

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
80"	163x122	648 - 986	-143 - +22
100"	203x152	813 - 1236	-179 - +27
120"	244x183	979 - 1485	-215 - +32
150"	305x229	1227 - 1860	-269 - +40
200"	406x305	1640 - 2484	-359 - +54
250"	508x381	2053 - 3109	-448 - +67
265"	539x404	2177 - 3296	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	355 - 542	-76 - +15
50"	111x62	362 - 554	-78 - +16
60"	133x75	437 - 667	-94 - +19
80"	177x100	587 - 894	-125 - +25
100"	221x125	737 - 1121	-156 - +31
120"	266x149	887 - 1347	-187 - +38
150"	332x187	1112 - 1687	-234 - +47
200"	443x249	1488 - 2254	-312 - +63
250"	553x311	1863 - 2821	-390 - +78
290"	642x361	2163 - 3275	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	352 - 538	-79 - +12
60"	130x81	425 - 649	-95 - +14
80"	172x108	571 - 869	-127 - +19
100"	215x135	717 - 1090	-158 - +24
120"	258x162	863 - 1311	-190 - +29
150"	323x202	1082 - 1641	-238 - +36
200"	431x269	1447 - 2193	-317 - +48
250"	538x337	1812 - 2744	-396 - +59
300"	646x404	2177 - 3296	-475 - +71

ELPLM11/ELPLM07

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	100x75	521 - 799	-81 - +12
50"	102x76	582 - 890	-90 - +13
60"	122x91	703 - 1073	-108 - +16
80"	163x122	945 - 1438	-143 - +22
100"	203x152	1188 - 1804	-179 - +27
120"	244x183	1430 - 2169	-215 - +32
150"	305x229	1793 - 2717	-269 - +40
200"	406x305	2399 - 3631	-359 - +54
250"	508x381	3005 - 4544	-448 - +67

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
265"	539x404	3186 - 4819	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	515 - 789	-76 - +15
50"	111x62	526 - 806	-78 - +16
60"	133x75	636 - 972	-94 - +19
80"	177x100	856 - 1304	-125 - +25
100"	221x125	1076 - 1635	-156 - +31
120"	266x149	1296 - 1967	-187 - +38
150"	332x187	1626 - 2465	-234 - +47
200"	443x249	2176 - 3294	-312 - +63
250"	553x311	2726 - 4124	-390 - +78
290"	642x361	3166 - 4787	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	511 - 784	-79 - +12
60"	130x81	618 - 945	-95 - +14
80"	172x108	832 - 1268	-127 - +19
100"	215x135	1046 - 1591	-158 - +24
120"	258x162	1260 - 1913	-190 - +29

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
150"	323x202	1581 - 2398	-238 - +36
200"	431x269	2116 - 3205	-317 - +48
250"	538x337	2651 - 4012	-396 - +59
300"	646x404	3186 - 4819	-475 - +71

ELPLL08/ELPLL07

Unit: cm

4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
45"	100x75	776 - 1095	-81 - +12
50"	102x76	866 - 1220	-90 - +13
60"	122x91	1046 - 1470	-108 - +16
80"	163x122	1405 - 1971	-143 - +22
100"	203x152	1764 - 2472	-179 - +27
120"	244x183	2124 - 2972	-215 - +32
150"	305x229	2662 - 3724	-269 - +40
200"	406x305	3561 - 4975	-359 - +54
250"	508x381	4459 - 6227	-448 - +67
265"	539x404	4728 - 6602	-475 - +71

Unit: cm

16:9 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
49"	108x61	767 - 1082	-76 - +15
50"	111x62	784 - 1105	-78 - +16
60"	133x75	947 - 1332	-94 - +19
80"	177x100	1273 - 1787	-125 - +25
100"	221x125	1599 - 2241	-156 - +31
120"	266x149	1925 - 2696	-187 - +38
150"	332x187	2414 - 3378	-234 - +47
200"	443x249	3230 - 4514	-312 - +63
250"	553x311	4045 - 5650	-390 - +78
290"	642x361	4697 - 6560	-452 - +91

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷ Vertical Lens Shift Top to Bottom
50"	108x67	761 - 1074	-79 - +12
60"	130x81	920 - 1295	-95 - +14
80"	172x108	1237 - 1737	-127 - +19
100"	215x135	1555 - 2180	-158 - +24
120"	258x162	1872 - 2622	-190 - +29
150"	323x202	2348 - 3285	-238 - +36
200"	431x269	3141 - 4391	-317 - +48
250"	538x337	3935 - 5497	-396 - +59
300"	646x404	4728 - 6602	-475 - +71

ELPLR04

Lens shift is not supported.

Unit: cm

4:3 Screen Size		❶	❷
45"	91x69	102	-34
50"	102x76	114	-38
60"	122x91	138	-46
80"	163x122	186	-61
100"	203x152	234	-76
120"	244x183	282	-91
150"	305x229	354	-114
200"	406x305	473	-152
250"	508x381	593	-191
265"	538x404	629	-202

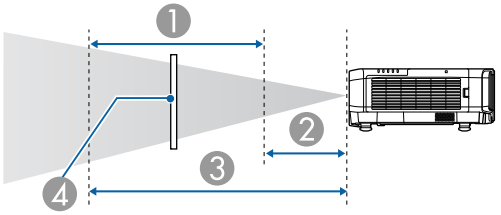
Unit: cm

16:9 Screen Size		❶	❷
49"	108x61	101	-30
50"	111x62	103	-31
60"	133x75	124	-37
80"	177x100	168	-50
100"	221x125	212	-62
120"	266x149	255	-75
150"	332x187	320	-93
200"	443x249	429	-125
250"	553x311	538	-156
290"	642x361	625	-181

Unit: cm

16:10 Screen Size		❶	❷
50"	108x67	100	-33
60"	130x81	121	-40
80"	172x108	163	-54
100"	215x135	206	-67
120"	258x162	248	-81
150"	323x202	312	-101
200"	431x269	417	-135
250"	538x337	523	-168
300"	646x404	629	-202

Polarizer (ELPPL01) Installation Distance



❶ Possible installation range of the polarizer
❷ Shortest distance from the projection lens to the polarizer
❸ Longest distance from the projection lens to the polarizer
❹ Polarizer (ELPPL01)

EB-L1505U/EB-L1500U

Units: mm

Lens type	❶	
	❷	❸
ELPLW06/ELPLW04	90	100
ELPLM09/ELPLS04	140	150

* The guaranteed operational environmental temperature is less than 35˚C.

EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U

Units: mm

Lens type	❶	
	❷	❸
ELPLW06/ELPLW04	130	170
ELPLM08	160	170
ELPLM09/ELPLS04	200	240
ELPLM10/ELPLM06	310	340

H/V-Keystone

☛ "H/V-Keystone" p.63

For projectors with a built-in lens, the lens varies depending on the model.
EB-L1505U/EB-L1500U: ELPLM09
EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U: ELPLM08

EB-L1505U/EB-L1500U

Lens type	Vertical	Horizontal
ELPLU03	-31° to 31°	-30° to 30°
ELPLU04/ELPLU02	-31° to 31°	-30° to 30°
ELPLR04	-31° to 31°	-30° to 30°
ELPLW05	-41° to 41°	-30° to 30°
ELPLW06/ELPLW04	-41° to 41°	-30° to 30°
ELPLM09/ELPLS04	-44° to 44°	-30° to 30°
ELPLM10/ELPLM06	-45° to 45°	-30° to 30°
ELPLM11/ELPLM07	-45° to 45°	-30° to 30°
ELPLL08/ELPLL07	-45° to 45°	-30° to 30°

EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U

Lens type	Vertical	Horizontal
ELPLX01	-16° to 16°	-16° to 16°
ELPLU03	-28° to 28°	-28° to 28°
ELPLU04/ELPLU02	-35° to 35°	-30° to 30°
ELPLR04	-34° to 34°	-30° to 30°
ELPLW05	-40° to 40°	-30° to 30°
ELPLW06/ELPLW04	-45° to 45°	-30° to 30°
ELPLM08	-45° to 45°	-30° to 30°
ELPLM09/ELPLS04	-45° to 45°	-30° to 30°
ELPLM10/ELPLM06	-45° to 45°	-30° to 30°
ELPLM11/ELPLM07	-45° to 45°	-30° to 30°
ELPLL08/ELPLL07	-45° to 45°	-30° to 30°

Curved Surface

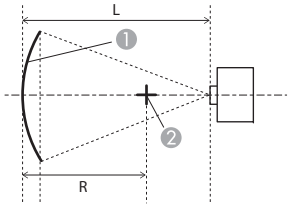
☛ "Curved Surface" p.65

For projectors with a built-in lens, the lens varies depending on the model.
EB-L1505U/EB-L1500U: ELPLM09
EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U: ELPLM08

The values in the table are the minimum values for R/L in the illustration. (Approximate value when projecting at maximum zoom. ELPLR04 does not support lens shift.)

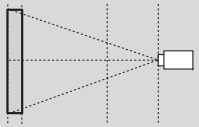
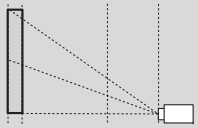
EB-L1505U/EB-L1500U

Horizontally curved surface (concave)

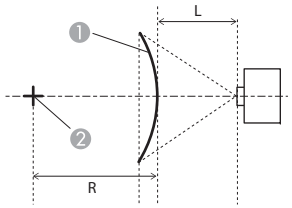


Top view

1 Screen
2 Center of the circle of which the curved surface is an arc
L Projection distance
R Radius of the circle of which the curved surface is an arc

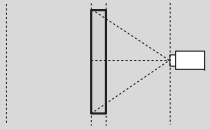
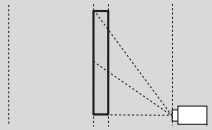
Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	0.27	0.28
ELPLU03	0.95	0.98
ELPLU04/ELPLU02	0.45	0.53
ELPLR04	0.43	-
ELPLW05	0.41	0.41
ELPLW06/ELPLW04	0.33	0.34
ELPLM10/ELPLM06	0.19	0.20
ELPLM11/ELPLM07	0.14	0.14
ELPLL08/ELPLL07	0.10	0.10

Horizontally curved surface (convex)

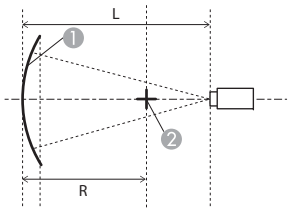


Top view

1 Screen
2 Center of the circle of which the curved surface is an arc
L Projection distance
R Radius of the circle of which the curved surface is an arc

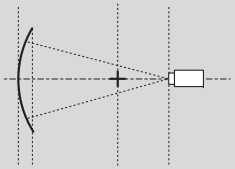
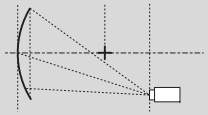
Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	0.52	0.54
ELPLU03	3.86	3.88
ELPLU04/ELPLU02	2.22	2.35
ELPLR04	1.89	-
ELPLW05	1.63	1.64
ELPLW06/ELPLW04	0.79	0.82
ELPLM10/ELPLM06	0.29	0.30
ELPLM11/ELPLM07	0.18	0.19
ELPLL08/ELPLL07	0.12	0.12

Vertically curved surface (concave)

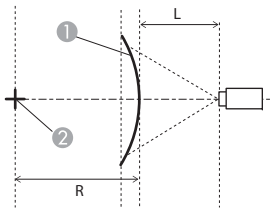


1 Screen
2 Center of the circle of which the curved surface is an arc
L Projection distance
R Radius of the circle of which the curved surface is an arc

Side view

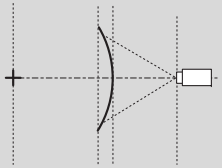
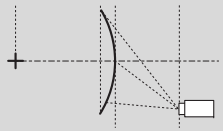
Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	0.19	0.22
ELPLU03	0.43	0.50
ELPLU04/ELPLU02	0.37	0.63
ELPLR04	0.35	-
ELPLW05	0.33	0.35
ELPLW06/ELPLW04	0.24	0.29
ELPLM10/ELPLM06	0.13	0.15
ELPLM11/ELPLM07	0.10	0.11
ELPLL08/ELPLL07	0.08	0.08

Vertically curved surface (convex)



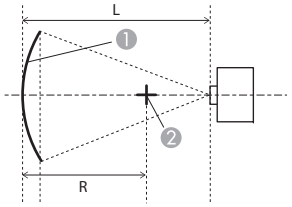
1 Screen
2 Center of the circle of which the curved surface is an arc
L Projection distance
R Radius of the circle of which the curved surface is an arc

Side view

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	0.28	0.33
ELPLU03	1.87	1.93
ELPLU04/ELPLU02	1.10	1.29
ELPLR04	0.94	-
ELPLW05	0.82	0.85
ELPLW06/ELPLW04	0.41	0.48
ELPLM10/ELPLM06	0.16	0.19
ELPLM11/ELPLM07	0.11	0.12
ELPLL08/ELPLL07	0.08	0.08

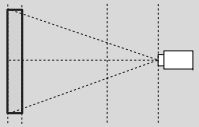
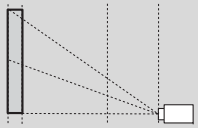
EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U

Horizontally curved surface (concave)

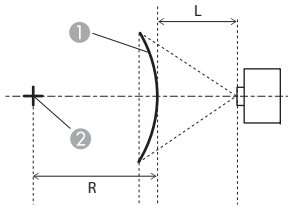


Top view

1 Screen
2 Center of the circle of which the curved surface is an arc
L Projection distance
R Radius of the circle of which the curved surface is an arc

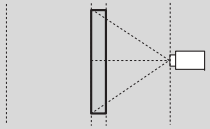
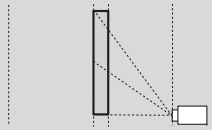
Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	0.29	0.30
ELPLX01	-	2.74
ELPLU03	0.45	0.56
ELPLU04/ELPLU02	0.39	0.40
ELPLR04	0.37	-
ELPLW05	0.35	0.37
ELPLW06/ELPLW04	0.26	0.27
ELPLM09/ELPLS04	0.21	0.22
ELPLM10/ELPLM06	0.15	0.15
ELPLM11/ELPLM07	0.11	0.11
ELPLL08/ELPLL07	0.08	0.08

Horizontally curved surface (convex)

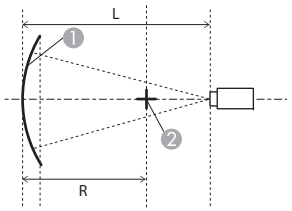


Top view

1 Screen
2 Center of the circle of which the curved surface is an arc
L Projection distance
R Radius of the circle of which the curved surface is an arc

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	0.58	0.62
ELPLX01	-	8.45
ELPLU03	2.13	2.31
ELPLU04/ELPLU02	1.27	1.37
ELPLR04	1.10	-
ELPLW05	0.95	1.01
ELPLW06/ELPLW04	0.49	0.52
ELPLM09/ELPLS04	0.33	0.35
ELPLM10/ELPLM06	0.20	0.20
ELPLM11/ELPLM07	0.13	0.13
ELPLL08/ELPLL07	0.09	0.09

Vertically curved surface (concave)

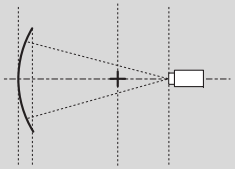
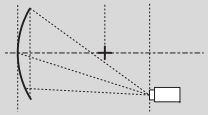


Side view

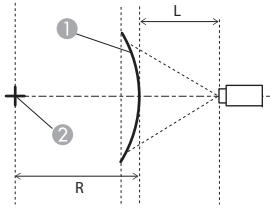
1. Screen
2. Center of the circle of which the curved surface is an arc

L Projection distance

R Radius of the circle of which the curved surface is an arc

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	0.21	0.25
ELPLX01	-	1.99
ELPLU03	0.37	0.68
ELPLU04/ELPLU02	0.31	0.44
ELPLR04	0.29	-
ELPLW05	0.27	0.35
ELPLW06/ELPLW04	0.19	0.22
ELPLM09/ELPLS04	0.15	0.17
ELPLM10/ELPLM06	0.11	0.11
ELPLM11/ELPLM07	0.08	0.08
ELPLL08/ELPLL07	0.06	0.06

Vertically curved surface (convex)

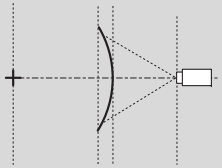
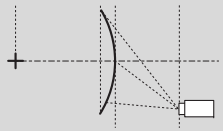


Side view

1. Screen
2. Center of the circle of which the curved surface is an arc

L Projection distance

R Radius of the circle of which the curved surface is an arc

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	0.31	0.37
ELPLX01	-	4.16
ELPLU03	1.07	1.29
ELPLU04/ELPLU02	0.66	0.79
ELPLR04	0.57	-
ELPLW05	0.49	0.59
ELPLW06/ELPLW04	0.26	0.32
ELPLM09/ELPLS04	0.18	0.22
ELPLM10/ELPLM06	0.12	0.13
ELPLM11/ELPLM07	0.08	0.08
ELPLL08/ELPLL07	0.06	0.06

Corner Wall

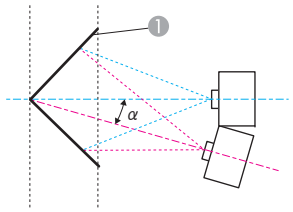
☛ "Corner Wall" p.69

For projectors with a built-in lens, the lens varies depending on the model.
EB-L1505U/EB-L1500U: ELPLM09
EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U: ELPLM08

The α in the figure is the maximum angle in which the projector can move. See the table below for detailed values. (Approximate value when projecting at maximum zoom. ELPLR04 does not support lens shift.)

EB-L1505U/EB-L1500U

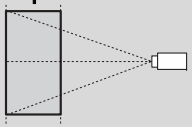
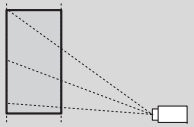
Concave horizontal corner correction (correction to bilateral symmetry by using corners as the center line)



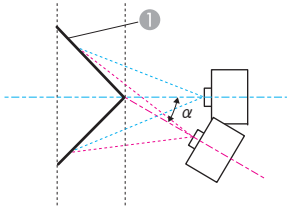
Top view

1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	31°	25°
ELPLU03	24°	18°
ELPLU04/ELPLU02	29°	11°
ELPLR04	30°	-
ELPLW05	30°	24°
ELPLW06/ELPLW04	32°	21°
ELPLM10/ELPLM06	30°	30°
ELPLM11/ELPLM07	29°	29°
ELPLL08/ELPLL07	29°	28°

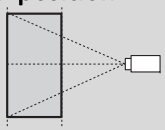
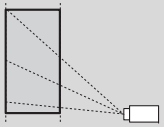
Convex horizontal corner correction (correction to bilateral symmetry by using corners as the center line)



Top view

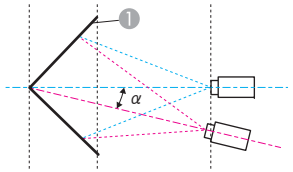
1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	15°	15°
ELPLU03	*	*
ELPLU04/ELPLU02	0°	*
ELPLR04	1°	-
ELPLW05	3°	3°
ELPLW06/ELPLW04	11°	11°
ELPLM10/ELPLM06	19°	19°
ELPLM11/ELPLM07	22°	21°
ELPLL08/ELPLL07	23°	23°

*Cannot be corrected accurately. Move the lens position to the home position.

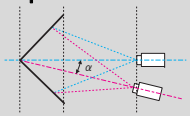
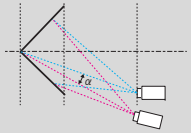
Concave vertical corner correction (correction to horizontal symmetry by using corners as the center line)



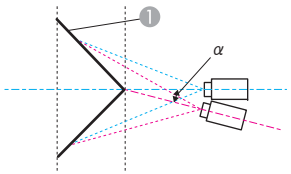
Side view

1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	29°	14°
ELPLU03	32°	16°
ELPLU04/ELPLU02	33°	2°
ELPLR04	32°	-
ELPLW05	32°	21°
ELPLW06/ELPLW04	31°	13°
ELPLM10/ELPLM06	25°	16°
ELPLM11/ELPLM07	24°	17°
ELPLL08/ELPLL07	23°	19°

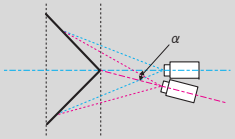
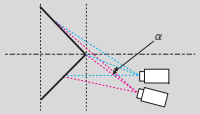
Convex vertical corner correction (correction to horizontal symmetry by using corners as the center line)



Side view

1 Screen

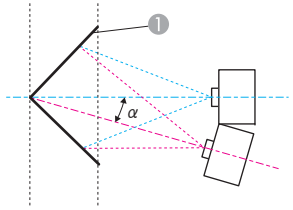
α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM09/ELPLS04	20°	8°
ELPLU03	3°	*
ELPLU04/ELPLU02	9°	*
ELPLR04	11°	-
ELPLW05	12°	3°
ELPLW06/ELPLW04	17°	3°
ELPLM10/ELPLM06	22°	13°
ELPLM11/ELPLM07	22°	16°
ELPLL08/ELPLL07	22°	17°

*Cannot be corrected accurately. Move the lens position to the home position.

EB-L1405U/EB-L1300U/EB-L1200U/EB-L1100U

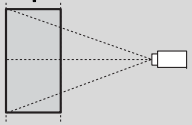
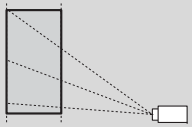
Concave horizontal corner correction (correction to bilateral symmetry by using corners as the center line)



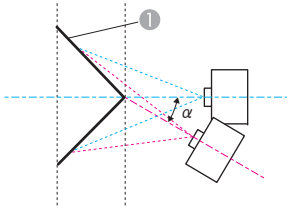
Top view

1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	31°	23°
ELPLX01	-	-
ELPLU03	29°	9°
ELPLU04/ELPLU02	31°	14°
ELPLR04	32°	-
ELPLW05	33°	18°
ELPLW06/ELPLW04	31°	25°
ELPLM09/ELPLS04	30°	29°
ELPLM10/ELPLM06	29°	29°
ELPLM11/ELPLM07	29°	28°
ELPLL08/ELPLL07	28°	28°

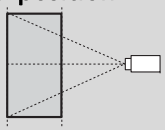
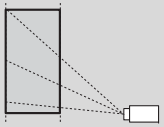
Convex horizontal corner correction (correction to bilateral symmetry by using corners as the center line)



Top view

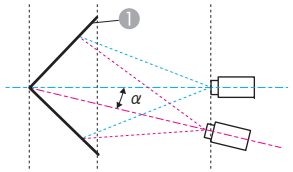
1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	14°	13°
ELPLX01	-	-
ELPLU03	0°	*
ELPLU04/ELPLU02	6°	4°
ELPLR04	8°	-
ELPLW05	9°	8°
ELPLW06/ELPLW04	16°	15°
ELPLM09/ELPLS04	18°	18°
ELPLM10/ELPLM06	22°	21°
ELPLM11/ELPLM07	23°	23°
ELPLL08/ELPLL07	24°	24°

*Cannot be corrected accurately. Move the lens position to the home position.

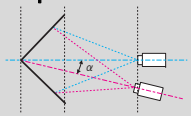
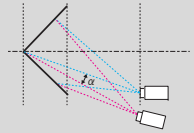
Concave vertical corner correction (correction to horizontal symmetry by using corners as the center line)



Side view

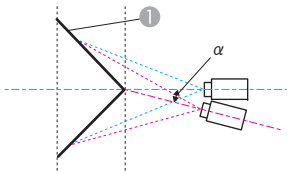
1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	30°	12°
ELPLX01	-	-
ELPLU03	33°	*
ELPLU04/ELPLU02	31°	6°
ELPLR04	31°	-
ELPLW05	31°	10°
ELPLW06/ELPLW04	28°	13°
ELPLM09/ELPLS04	26°	14°
ELPLM10/ELPLM06	24°	16°
ELPLM11/ELPLM07	23°	18°
ELPLL08/ELPLL07	23°	19°

*Cannot be corrected accurately. Move the lens position to the home position.

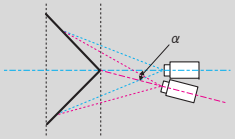
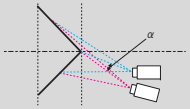
Convex vertical corner correction (correction to horizontal symmetry by using corners as the center line)



Side view

1 Screen

α Angle of possible projector motion

Lens type	Vertical lens shift: Home position  Side view	Vertical lens shift: Top  Side view
ELPLM08	19°	5°
ELPLX01	-	-
ELPLU03	9°	*
ELPLU04/ELPLU02	14°	*
ELPLR04	15°	-
ELPLW05	16°	*
ELPLW06/ELPLW04	20°	7°
ELPLM09/ELPLS04	22°	12°
ELPLM10/ELPLM06	22°	15°
ELPLM11/ELPLM07	22°	17°
ELPLL08/ELPLL07	22°	18°

*Cannot be corrected accurately. Move the lens position to the home position.

Supported Resolutions

When the resolution of the input signals is larger than the projector's panel resolution, the image quality may decline.

Computer signals (analog RGB)

Signal	Refresh Rate (Hz)	Resolution (Dots)
VGA	60/72/75/85	640x480
SVGA	60/72/75/85	800x600
XGA	60/70/75/85	1024x768
WXGA	60	1280x768
	60	1366x768
	60/75/85	1280x800
WXGA+	60/75/85	1440x900
WXGA++	60	1600x900
SXGA	70/75/85	1152x864
	60/75/85	1280x1024
	60/75/85	1280x960
SXGA+	60/75	1400x1050
WSXGA+*1	60	1680x1050
UXGA	60	1600x1200
WUXGA*2	60	1920x1200

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

*2 Only compatible when VESA CVT-RB (Reduced Blanking) signal is input.

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

Component video

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

* Only for the input signals from the Computer port.

Input signals from the DVI-D port, HDMI port, and HDBaseT 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
SXGA	60	1280x960
	60	1280x1024
SXGA+	60	1400x1050
UXGA	60	1600x1200
WUXGA*1	60	1920x1200

Signal	Refresh Rate (Hz)	Resolution (Dots)
QXGA*2	60	2048x1536
WQHD*2	60	2560x1440
WQXGA*1,2	60	2560x1600
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
4Kx2K*2	24/25/30/50/60	3840x2160
4Kx2K (SMPTE)*2	24/50/60	4096x2160

*1 Only compatible when VESA CVT-RB (Reduced Blanking) signal is input.
*2 Only for HDMI input.

Input signals from SDI input port*

Signal	Refresh Rate (Hz)	Resolution (Dots)	Mode	Color difference signals	Number of Bits	Level
SDTV (480i)	59.94	720x480	SD-SDI	YPbPr 4:2:2	10 bits	-
SDTV (576i)	50	720x576				
HDTV (720p)	50/59.94/60	1280x720	HD-SDI			
HDTV (1080i)	50/59.94/60	1920x1080				
HDTV (1080p)	23.98/24/25/29.97/30	1920x1080				
HDTV (1080p)	50/59.94/60	1920x1080	3G-SDI			A

* EB-L1505U/EB-L1500U/EB-L1405U only.

Projector General Specifications

Product name	EB-L1505U	EB-L1500U	EB-L1405U	EB-L1300U	EB-L1200U	EB-L1100U
Dimensions	586 (W) x 185 (H) x 492 (D) mm (not including raised section)					
LCD panel size	1.03" Wide		0.76" Wide			
Display method	Polysilicon TFT active matrix					
Resolution	2,304,000 WUXGA (1920 (W) x 1200 (H) dots) x 3					
Focus adjustment	Automatic					
Zoom adjustment	Automatic (1-1.6x)*1		Automatic (1-1.6x)*2			
Lens shift*3	Automatic (Maximum vertical direction of approx. 60%, Maximum horizontal direction of approx. 18%)*4		Automatic (Maximum vertical direction of approx. 67%, Maximum horizontal direction of approx. 30%)*5			
Light source	Laser diode					
Light source output power	252 W		162 W		144 W	108 W
Wavelength	450-460 nm					
Light source life expectancy*6	Approximately 20,000 hours (Light Source Mode: Normal, Quiet) Approximately 30,000 hours (Light Source Mode: Extended)					
Max. audio output	-			10 W monaural		
Speaker	-			1		
Power supply	100-240V AC±10% 50/60Hz 9.6-4.2 A		100-240V AC±10% 50/60Hz 6.7-3.0 A		100-240V AC±10% 50/60Hz 6.0-2.7 A	100-240V AC±10% 50/60Hz 4.9-2.2 A

Power consumption	100 to 120 V area	Rated power consumption: 955 W Standby power consumption (Communication On): 2.2 W Standby power consumption (Communication Off): 0.23 W	Rated power consumption: 658 W Standby power consumption (Communication On): 2.3 W Standby power consumption (Communication Off): 0.22 W	Rated power consumption: 594 W Standby power consumption (Communication On): 2.3 W Standby power consumption (Communication Off): 0.22 W	Rated power consumption: 479 W Standby power consumption (Communication On): 2.3 W Standby power consumption (Communication Off): 0.22 W
	220 to 240 V area	Rated power consumption: 908 W Standby power consumption (Communication On): 2.3 W Standby power consumption (Communication Off): 0.33 W	Rated power consumption: 625 W Standby power consumption (Communication On): 2.4 W Standby power consumption (Communication Off): 0.28 W	Rated power consumption: 566 W Standby power consumption (Communication On): 2.4 W Standby power consumption (Communication Off): 0.28 W	Rated power consumption: 454 W Standby power consumption (Communication On): 2.4 W Standby power consumption (Communication Off): 0.28 W
Operating altitude		Altitude 0 to 3,048 m			
Operating temperature		0 to +45˚C*7 (Altitude of 0 to 1,500 m, no condensation) 0 to +40˚C*7 (Altitude of 1,501 to 3,048 m, no condensation)			
Storage temperature		-10 to +60˚C (No condensation)			
Mass		Approx. 24 kg	Approx. 21 kg		Approx. 20 kg

*1 The specifications are when ELPLM09 is attached.

*2 The specifications are when ELPLM08 is attached.

*3 ELPLR04 does not support lens shift.

*4 ELPLU03/ELPLW05 has a maximum vertical direction of approx. 24% and a maximum horizontal direction of approx. 10%.

*5 ELPLX01 has a maximum upward direction of approx. 17% and a maximum horizontal direction of approx. 10%.

*6 Approximate time until light source brightness is reduced by half.

*7 If the surrounding temperature gets too high, the brightness is automatically dimmed.
(Approximately 40˚C at an altitude of 0 to 1500 m, and approximately 35˚C at an altitude of 1,501 to 3,048 m; however, this may vary depending on the surroundings and so on.)

Product name	EB-L1505U	EB-L1500U	EB-L1405U	EB-L1300U	EB-L1200U	EB-L1100U

Connec-tors	Computer Port	1	Mini D-Sub15-pin (female) blue
	Audio1 port	1	Stereo mini jack (3.5Φ)
	BNC port	1	5BNC (female)
	Audio2 port	1	Stereo mini jack (3.5Φ)
	DVI-D port	1	DVI-D 24pin Single link HDCP compatible
	HDMI port	1	HDMI HDCP2.2 supported (Audio is only supported by PCM)
	Audio3 port	1	Stereo mini jack (3.5Φ)
	Audio Out port	1	Stereo mini jack (3.5Φ)
	Monitor Out port	1	Mini D-Sub15-pin (female) black
	HDBaseT port	1	RJ-45 (HDCP2.2 supported)
	LAN port	1	RJ-45
	SDI input port	1	1BNC (female) / -
	Service port*	1	USB connector (Type B)
	RS-232C port	1	Mini D-Sub 9-pin (male)
	Remote port	1	Stereo mini jack (3.5Φ)
	USB port (Only for wireless LAN unit)*	1	USB connector (Type A)

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

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

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:	H733C/H734C/H735C/H739C/H792C

FCC Compliance Statement
For United States Users

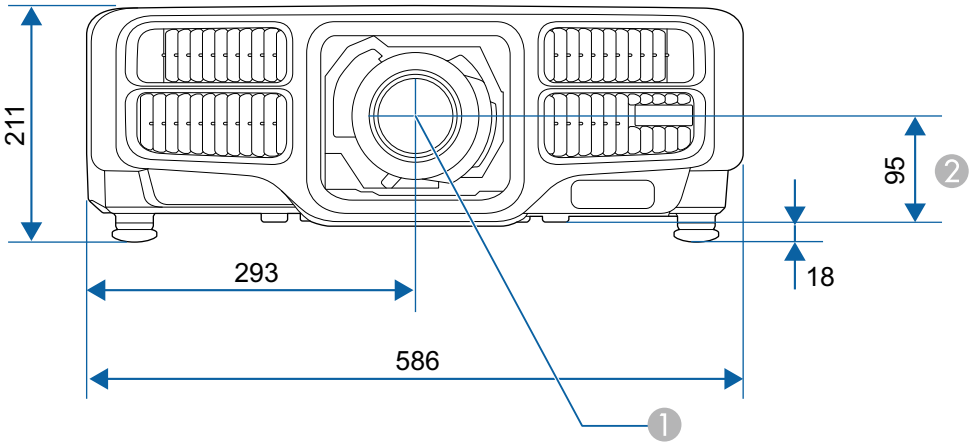
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate 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 or 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.

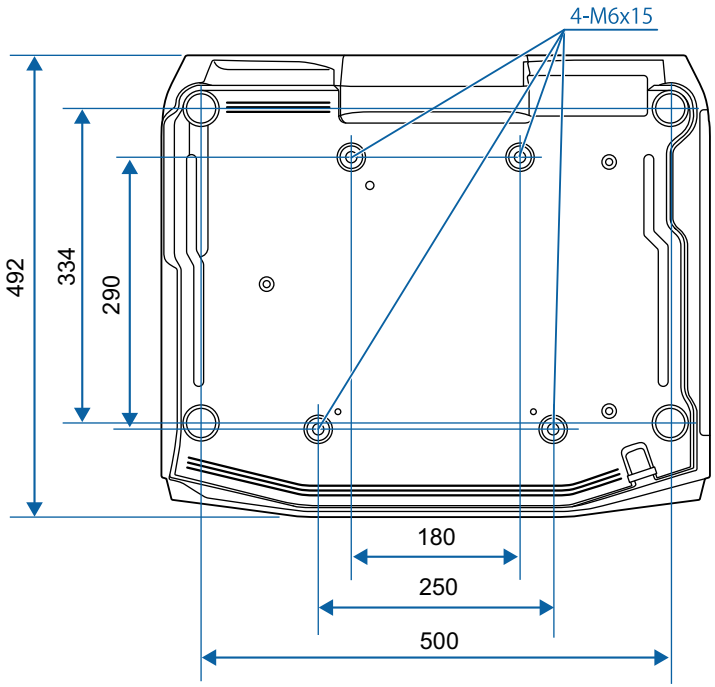
WARNING

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.

Units: mm



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



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

AMX Device 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.
Control4 Simple Device Discovery Protocol (SDDP)	Control4 SDDP is a technology developed by Control4 to allow Control4 control systems to acquire device information for the projector. Epson have implemented this protocol technology, and have provided a setting to enable the protocol function (ON). See the Control4 Web site for more details. URL: http://www.control4.com/
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.
HDBaseT	The connection standard for consumer electronics determined by the HDBaseT Alliance. Communicates various control signals such as uncompressed HD video, audio and 100BASE-TX Ethernet using a LAN cable.
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. HDCP2.2 is a copyright protection standard for 4K content.
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satisfy the following conditions. • Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace) • Screen Aspect Ratio of 16:9
Infrastructure mode	A method for wireless LAN connection in which devices communicate through access points.
Interlace	Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom. Images are more likely to flicker because one frame is displayed every other line.

IP Address	A number to identify a computer connected to a network.
Progressive	Projects information to create one screen at a time, displaying the image for one frame. Even though the number of scan lines is the same, the amount of flicker in images decreases because the volume of information has doubled compared with an interlace system.
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.
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.
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.

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

Illustrations in this guide and the actual projector may differ.

Restriction of Use

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

About Notations

Microsoft® Windows® 2000 operating system
Microsoft® Windows® XP operating system
Microsoft® Windows Vista® operating system
Microsoft® Windows® 7 operating system
Microsoft® Windows® 8 operating system
Microsoft® Windows® 8.1 operating system
Microsoft® Windows® 10 operating system

In this guide, the operating systems above are referred to as "Windows 2000", "Windows XP", "Windows Vista", "Windows 7", "Windows 8", "Windows 8.1", and "Windows 10". Furthermore, these may be referred to as the collective term Windows, and multiple versions of Windows may be referred to as, for example, Windows 2000/XP/Vista/7/8/8.1/10, 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
OS X 10.10.x
OS X 10.11.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", "OS X 10.9.x", "OS X 10.10.x", and "OS X 10.11.x". Furthermore, the collective term "OS X" is used to refer to them all.

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Indication of the manufacturer and the importer in accordance with requirements of directive 2011/65/EU (RoHS)

Manufacturer: SEIKO EPSON CORPORATION
Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan
Telephone: 81-266-52-3131
http://www.epson.com/

Importer: SEIKO EUROPE B.V.
Address: Azië building, Atlas ArenA, Hoogoorddreef 5, 1101 BA Amsterdam Zuidoost The Netherlands
Telephone: 31-20-314-5000
http://www.epson.com/europe.html

The following table lists the meaning of the safety symbols labeled on the equipment.

No.	Symbol mark	Approved standards	Meaning
❶		IEC60417 No. 5007	"ON" (power) To indicate connection to the mains.
❷		IEC60417 No. 5008	"OFF" (power) To indicate disconnection from the mains.
❸		IEC60417 No. 5009	Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
❹		ISO7000 No. 0434B IEC3864-B3.1	Caution To identify general caution when using the product.
❺		IEC60417 No. 5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
❻		IEC60417 No. 6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
❼		IEC60417 No. 5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
❽		IEC60417 No. 5926	Polarity of d.c. power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a d.c. power supply may be connected.

No.	Symbol mark	Approved standards	Meaning
❾		IEC60417 No. 5001B	Battery, general On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
❿		IEC60417 No. 5002	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
⓫		IEC60417 No. 5019	Protective earth To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
⓬		IEC60417 No. 5017	Earth To identify an earth (ground) terminal in cases where symbol No. 11 is not explicitly required.
⓭		IEC60417 No. 5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
⓮		IEC60417 No. 5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
⓯		IEC60417 No. 5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.

No.	Symbol mark	Approved standards	Meaning
⑯		ISO 3864	General prohibition To identify actions or operations that are prohibited.
⑰		ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
⑱		---	Never look into the projection lens while the projector is on.
⑲		---	To indicate that the marked item don't place anything on projector.
⑳		ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.
㉑		ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
㉒		---	Never look into the lens while the LED for lighting is on.
㉓		IEC60417 No. 5266	Standby, partial standby To indicate that part of the equipment is in the ready status.
㉔		ISO3864 IEC60417 No. 5057	Caution, movable parts To indicate that you must keep away from movable parts according to protection standards.

A

A/V Mute 19, 107
A/V Settings 136
Air exhaust vent 16
Air Filter Notice 133
Air filter replacement period 186
AMX Device Discovery 144
Art-Net 144
Aspect 78, 129
Audio Out port 17
Audio1 port 17
Audio2 port 17
Audio3 port 17
Auto Setup 130

B

Basic menu 139
Batch setup function 147
Beep 135
Black Level 137
BNC port 17
BNC Sync Termination 135
Brightness 128

C

Ceiling 134
Ceiling mount fixing points 19
Cinema 74
Cleaning 183
Cleaning the air filter and air intake vent 183
Cleaning the projector's surface 183
Color Adjustment 128
Color adjustment 128
Color Mode 74, 127
Color Saturation 128
Color Uniformity 133, 136
Computer Port 17
Configuration menu 124
Consumables 211
Contrast 128
Control panel 19
Control4 SDDP 144
Corner Wall 69
Crestron RoomView 144, 202
Cross 109

D

Date & Time 135
DHCP 141, 142
DICOM SIM 74
Direct Power On 134
Display 133
Display Background 133
Distance 212
Document Camera 211
Dynamic 74
Dynamic Contrast 128

E

EasyMP Monitor 194
Edge Blending 93, 137
Epson Web Control 194
Esc 20
ESC/VP21 200
Event ID 146
Extended menu 133
Extron XTP 136
E-Zoom 108

F

Filter Indicator 157
Focus 36
Freeze 108
Front 134
Front adjustable feet 18
Full Lock 119

G

Gateway Address 141, 142
Geometry Correction 131

H

H/V-Keystone 131
HDBaseT 136
HDBaseT port 18
HDBaseT Signal Quality 146
HDMI port 18
Help function 155
High Altitude Mode 134
Home Screen 56
How to replace the air filter 186

I

Image Menu 127
Indicators 157
Info menu 145

Input Signal 145
Installation requirements 29
Installation settings 29
IP Address 141, 142

L

Language 137
Lens Operation Lock 120
Lens Replacement Cover 27
Lens shift 33

M

Mail Notification 143, 199
Memory 132
Menu 19
Message Broadcasting 144, 194
Messages 133
Monitor displays 239
Monitor Out port 17
Multi-Projection 74, 137
Multi-Projection function 90

N

Network Configuration 138
Network information 138
Network menu 137
Notification email address 1/2/3 143

O

Operating Temperature 242
Operation 134
Optional accessories 211
Overheating 159
Overscan 130

P

Panel Alignment 133
Part names and functions 15
Password protect 117
PJLink 201
PJLink Password 139
Port Number 143
Position 130
Power inlet 16
Power On Protection 117
Presentation 74
Priority Gateway 144
Projection 134
Projection lens 27
Projector 56, 58
Projector ID 40
Projector keyword 140
Projector Name 139

Q

Quick Corner 131
Quick Wireless Connection USB Key 53

R

Reading mail 199
Rear 134
Rear feet 18
Refresh Rate 145
Remote control 20
Remote control button lock 120
Remote control ID 41
Remote port 18
Remote receiver 15
Replacing batteries 23
Reset All 146
Reset Memory 146
Reset menu 146
Resolution 129, 145
RoomView 202
RS-232C port 18

S

Scale 130, 137
Schedule 113
Schedule Settings 137
Screen 133
Screen settings 30
Screen Size 106
Screen size 212
Search Access Point 142
Serial Number 146
Settings menu 131
Sharpness 128
Signal menu 129
SMTP Server 143
SNMP 200
Soft keyboard 139
Source 105, 145
Source Search 19, 59
Specifications 241
Split Screen 131
Split Screen Setup 105
sRGB 74

Standby Mode 136
Startup Screen 133
Status 146
Status indicators 15
Storage temperature 242
Subnet Mask 141, 142
Supported monitor displays 239
Swap Screens 106
Sync Info 145
Sync. 129

T

Test Pattern 31, 132
Tint 128
Tracking 129
Trap IP Address 1/2 143

U

User Button 132
User's Logo 109
User's Logo Protection 117

V

Volume 131

W

Web browser 194
Web Control Password 140
White Balance 128
Wired LAN menu 142
Wireless LAN menu 140