EPSON
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User's Guide

Multimedia Projector

EB-W28

Notations Used in This Guide

- **Safety indications**

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

Warning	This symbol indicates information that, if ignored, could possibly result in personal injury
Caution	This symbol indicates information that, if ignored, could possibly result in personal injury

- **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 top
☛	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 app section of the "Appendix". ☛ "Glossary" p.139
[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**

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Introduction

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

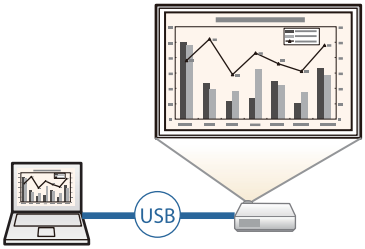
Quick and Easy Set up, Projection, and Storage

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

Connecting with a USB cable and projecting (USB Display)

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

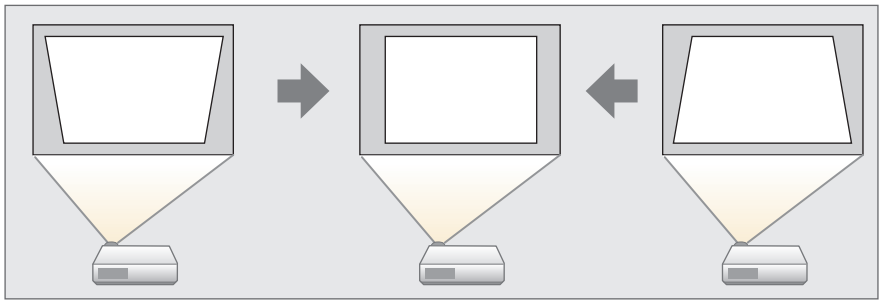
☛ "Projecting with USB Display" p.33



Detecting projector movements and automatically correcting image distortion

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

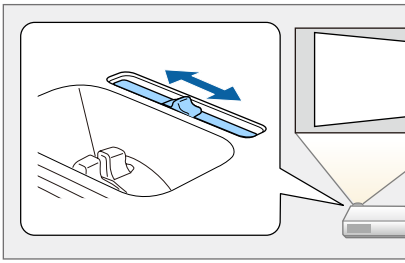
☛ "Correcting automatically" p.37



Horizontal keystone adjuster

This allows you to quickly corre
image. This is useful if you can
screen.

☛ "Correcting manually" p.38



Useful Functions for Pr

Project two images simultaneo

This function divides the projected sc
two and projects two types of image s
side. By simultaneously projecting im
two sources on one screen, you can ra
impact of your message or propositio
video conferences or presentations.

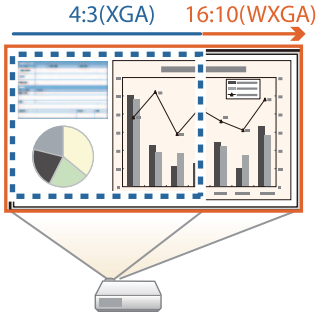
☛ "Projecting Two Images Simultan
(Split Screen)" p.47

Projector Features

Increasing projection content in wide (WXGA) screen

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

☛ "Changing the Aspect Ratio of the Projected Image" p.44



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

You can connect USB storage devices or digital cameras to the projector and project saved images.

A wide range of file formats are supported such as movies or images.

☛ "Projecting Without a Computer (PC Free)" p.50

Various functions for excellent power saving

- Various functions to prevent wasting electricity
  The projector comes with a number of built-in functions to save power such as dimming the projected image, an auto power off timer, and adjusting power consumption while the projector is standing by.
  ☛ "ECO Menu" p.94
- Function for displaying the power-saving status on the projected screen
  When ECO Display is set to **On** from the Configuration menu, leaf icons ( ) that indicate the power-saving status are displayed at the bottom-left of the projected screen when the lamp brightness has switched to low brightness.
  ☛ **ECO - ECO Display** p.94

Making the most of the remot

You can use the remote control part of the image. You can also u attention to specific points, or a

☛ "Pointer Function (Pointer)"

☛ "Enlarging Part of the Image

☛ "Using the Remote Control Mouse)" p.60

Enlarge and project your files

You can project paper documents Camera.

By connecting to a computer an make full use of the projector's

☛ "Optional Accessories" p.129

Enhanced security functions

- **Password Protect to restrict a**
  By setting a Password you can
  ☛ "Managing Users (Passwor
- **Control Panel Lock to restric**
  You can use this to prevent p permission at events, in schoo
  ☛ "Restricting Operation (Co

- **Equipped with various anti-theft devices**
  The projector is equipped with the following types of anti-theft security devices.
  - Security slot
  - Security cable installation point

  ☛ "Anti-Theft Lock" p.70

Connecting to a wireless LAN and projecting images

By installing the supplied or optional wireless LAN unit and connecting to a wireless LAN network, the following functions become available.

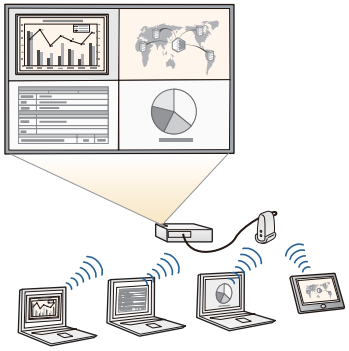
☛ "Installing the Wireless LAN Unit" p.28

- Wirelessly projecting your computer's screen

  You can project your computer's screen over a network by using EasyMP Network Projection.
  You can download EasyMP Network Projection from the following Web site.
  http://www.epson.com

- Projecting multiple computer screens at the same time

  By using EasyMP Multi PC Projection, you can project up to four screens at the same time from a computer on the network, or from smartphones or tablet devices on which Epson iProjection is installed.
  You can download EasyMP Multi PC Projection from the following Web site.
  http://www.epson.com



- Using Quick Wireless Connect for your computer (Windows

  By simply connecting the optional Qu Wireless Connection USB Key to a co you can connect the projector and the using the wireless communication an images from the computer.

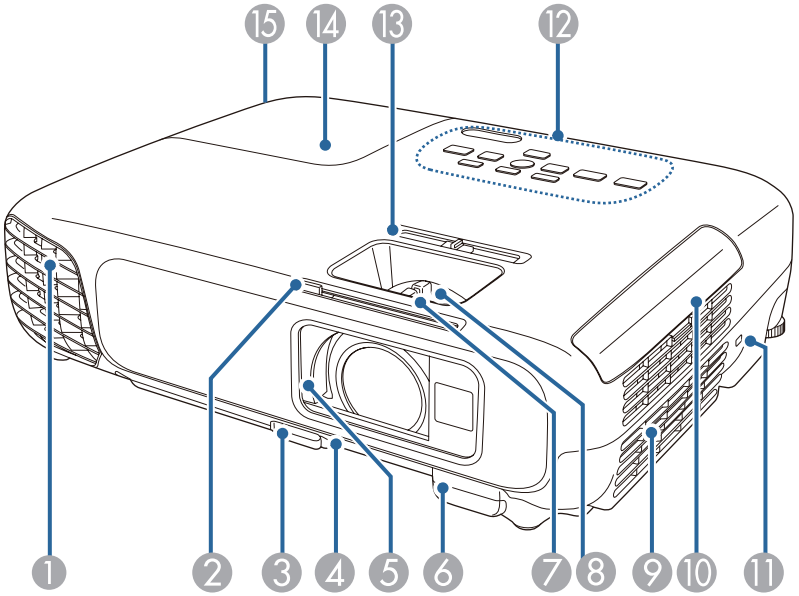
  ☛ "Installing the Quick Wireless Co USB Key" p.28

- Projecting images from portab

  If Epson iProjection is installed on yo phone or tablet device, you can wirele project data from the device. Because operate these devices from any locatio vary the way in which conferences or presentations are made.

  You can download Epson iProj Google play. Any fees incurred or Google play are the respon

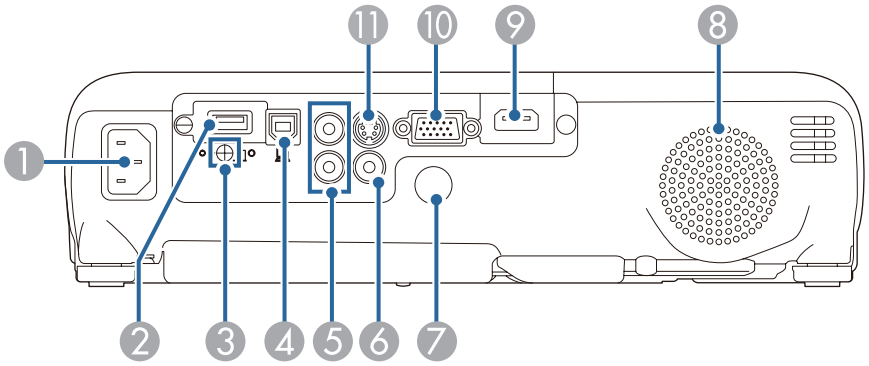
Front/Top



	Name	Function
1	Air exhaust vent	Exhaust vent for air used to cool the projector internally. **Caution** While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent. Hot air from the air exhaust vent could cause burns, warping, or accidents to occur.
2	A/V mute slide knob	Slide the knob to open and close the A/V mute slide.
3	Foot adjust lever	Press the foot adjust lever to extend and retract the front adjustable foot. ☛ "Adjusting the Image Position" p.41

	Name	
4	Front adjustable foot	When se adjust th ☛ "Adju
5	A/V mute slide	Close wh closing d sound. ☛ "Hid Mute)" p
6	Remote receiver	Receives
7	Focus ring	Adjusts t ☛ "Cor
8	Zoom ring	Adjusts t ☛ "Adju
9	Air intake vent (air filter)	Takes in ☛ "Clea
10	Air filter cover	Opens ar ☛ "Repl
11	Security slot	The secu Security ☛ "Anti
12	Control panel	Operates ☛ "Con
13	Horizontal keystone adjuster	Corrects ☛ "Cor
14	Lamp cover	Open wh ☛ "Repl
15	Lamp Cover Fixing Screw	Screw to

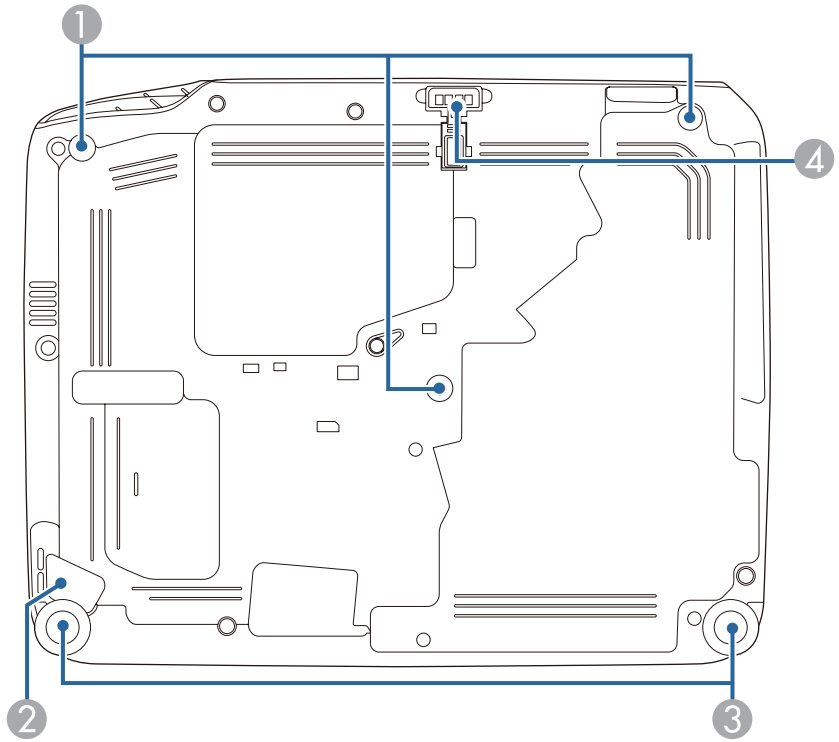
Rear



	Name	Function
1	**Power inlet**	Connects the power cord to the projector. ☛ "From Installation to Projection" p.31
2	**USB-A port**	• Connects a USB flash drive or a digital camera and projects movies or images using PC Free. ☛ "Projecting Without a Computer (PC Free)" p.50 • Connects the optional Document Camera. • Connects the supplied or optional Wireless LAN unit. ☛ "Installing the Wireless LAN Unit" p.28 • Connects the optional Quick Wireless Connection USB Key. ☛ "Installing the Quick Wireless Connection USB Key" p.28
3	**Wireless LAN unit fixing screw**	This screw secures the wireless LAN unit cover.

	Name	
4	**USB-B port**	• Conne and pr ☛ "P • Conne to use ☛ "U Mouse
5	**Audio port**	Inputs au port, the
6	**Video port**	Inputs co
7	**Remote receiver**	Receives
8	**Speaker**	Outputs
9	**HDMI/MHL port**	• Inputs equipn with H • Inputs suppor ☛ "Con
10	**Computer port**	Inputs in video sig
11	**S-Video port**	For S-vid

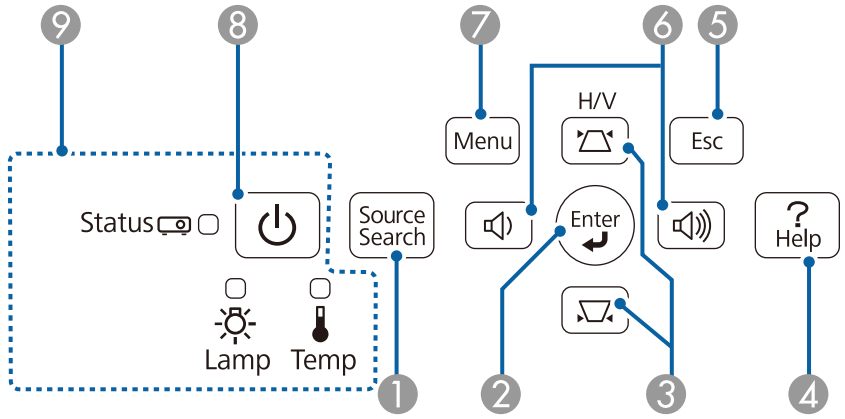
Base



	Name	Function
1	**Ceiling mount fixing points (three points)**	Attach the optional Ceiling Mount here when suspending the projector from a ceiling. ☛ "Installing the Projector" p.21 ☛ "Optional Accessories" p.129
2	**Security cable installation point**	Pass a commercially available wire lock through here and lock it in place. ☛ "Installing the wire lock" p.70

	Name	
3	**Rear feet**	When se retract to ☛ "Adju
4	**Front adjustable foot**	When se adjust th ☛ "Adju

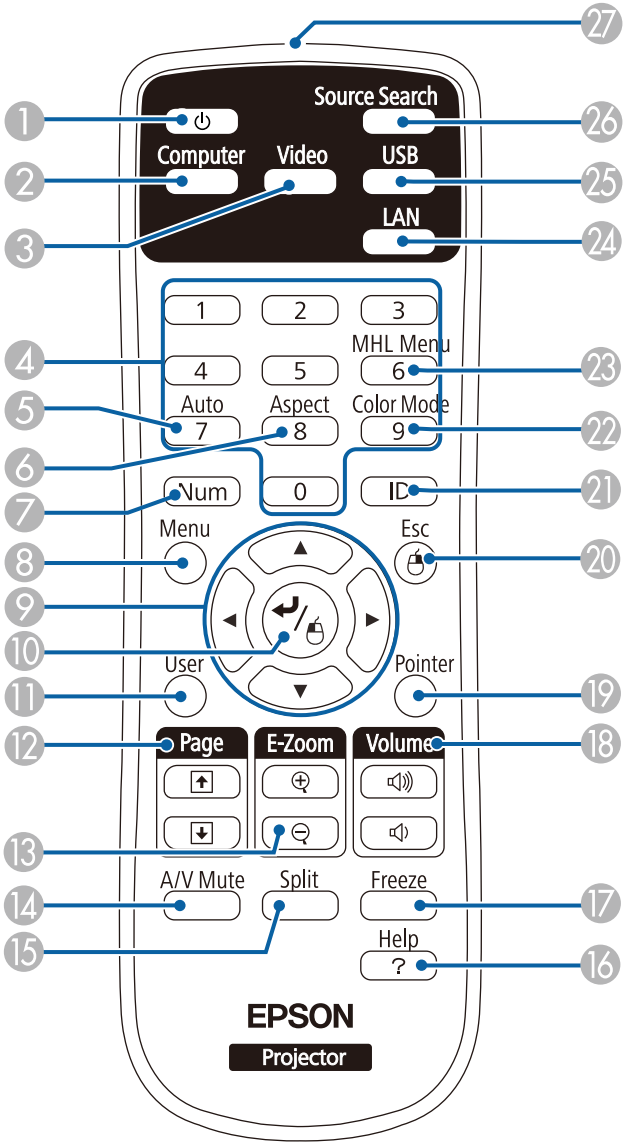
Control Panel



	Name	Function
1	**[Source Search] button**	Changes to the next input source that is sending an image. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.32
2	**[Enter] button** [↵]	• When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. • If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.
3	**[⏢][⏢] buttons**	• Displays the Keystone screen allowing you to correct keystone distortion in vertical and horizontal directions. ☛ "Correcting manually" p.38 • If pressed when the Configuration menu or the Help screen is displayed, these buttons select menu items and setting values. ☛ "Using the Configuration Menu" p.79 ☛ "Using the Help" p.104

	Name	
4	**[Help] button**	Displays to deal w ☛ "Usin
5	**[Esc] button**	• Stops t • If press moves ☛ "U
6	**[🔈][🔊] buttons**	• You ca [🔈] De [🔊] In ☛ "A • Correc when t ☛ "H • If press screen setting ☛ "U ☛ "U
7	**[Menu] button**	Displays ☛ "Usin
8	**Power button** [⏻]	Turns th ☛ "Fron
9	**Indicators**	Indicates ☛ "Read

Remote Control



	Name	
1	**Power button [⏻]**	Turns th ☛ "Fron
2	**[Computer] button**	Changes
3	**[Video] button**	Each tim the S-Vid
4	**Numeric buttons**	Enter the ☛ "Setti
5	**[Auto] button**	If presse Compute Sync., an
6	**[Aspect] button**	Each tim ☛ "Cha p.44
7	**[Num] button**	Hold dow enter pas ☛ "Setti
8	**[Menu] button**	Displays ☛ "Usin
9	**[▲][▼][◀][▶] buttons**	• When display and se ☛ "U • When display so on. ☛ "P • During moves ☛ "U Mouse

	Name	Function
⑩	**[↵] 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.79 • Acts as a mouse's left button when using the Wireless Mouse function. ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60
⑪	**[User] button**	Select any frequently used item from the six available Configuration menu items, and assign it to this button. By pressing the [User] button, the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments. ☛ "Settings Menu" p.84 **Power Consumption** is assigned as the default setting.
⑫	**[Page] buttons** **[⇧][⇩]**	Changes pages in files such as PowerPoint files when using the following projection methods. • When using the Wireless Mouse function ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 • When using USB Display ☛ "Projecting with USB Display" p.33 When projecting images using PC Free, pressing these buttons displays the previous/next screen.
⑬	**[E-Zoom] buttons** **[⊕][⊖]**	Enlarges or reduces the image without changing the projection size. ☛ "Enlarging Part of the Image (E-Zoom)" p.59
⑭	**[A/V Mute] button**	• Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.57 • You can change the Projection mode as follows by pressing the button for about five seconds. **Front↔Front/Ceiling** **Rear↔Rear/Ceiling**

	Name	
⑮	**[Split] button**	Each tim between splitting normal. ☛ "Proj Screen)"
⑯	**[Help] button**	Displays to deal w ☛ "Usi
⑰	**[Freeze] button**	Images a ☛ "Free
⑱	**[Volume] buttons** **[🔈][🔊]**	[🔈] Decr [🔊] Incr ☛ "Adj
⑲	**[Pointer] button**	Displays ☛ "Poi
⑳	**[Esc] button**	• Stops t • If press moves ☛ "U • Acts as Mouse ☛ "U Mouse
㉑	**[ID] button**	Hold do select the the remo ☛ "Setti
㉒	**[Color Mode] button**	Each tim ☛ "Sele Mode)" p

	Name	Function
㉓	**[MHL Menu] button**	Displays the settings menu for the device linked to the projector's MHL port.
㉔	**[LAN] button**	Switches to the image from the network connected device.
㉕	**[USB] button**	Each time the button is pressed, it cycles through the following images: • USB Display • Images from the device connected to the USB-A port
㉖	**[Source Search] button**	Changes to the next input source that is sending an image. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.32
㉗	**Remote control light-emitting area**	Outputs remote control signals.

Replacing the remote control batteries

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

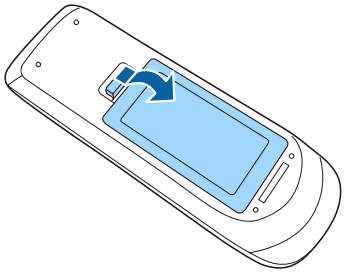
Attention

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

☛ *Safety Instructions*

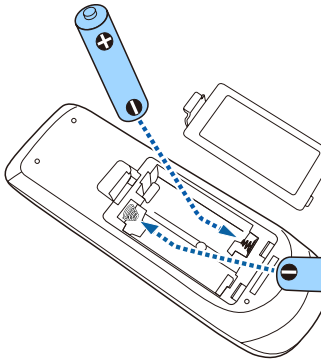
1 Remove the battery cover.

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



2 Replace the old batteries with new batteries.

Slide the batteries in negative side first.



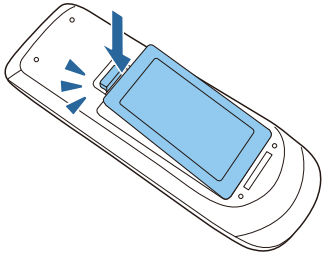
⚠ Caution

Check the positions of the (
ensure the batteries are ins

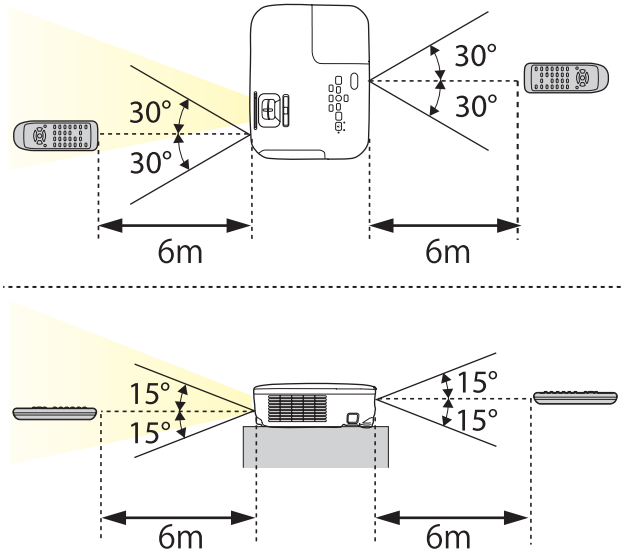
If the batteries are not used
a fire, injury, or damage to

3 Replace the battery cove

Press the battery compart



Remote control operating range



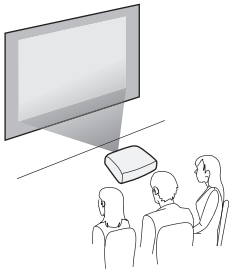
Preparing the Projector

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

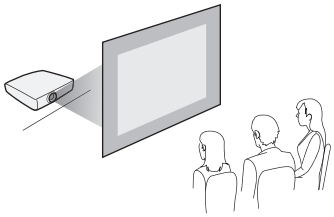
Installation Methods

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

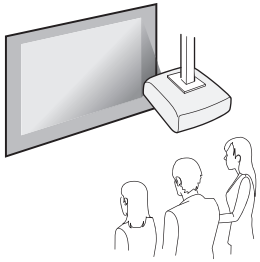
- Project images from in front of the screen. (Front projection)



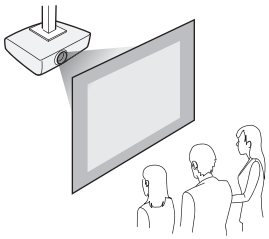
- Project images from behind a translucent screen. (Rear projection)



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



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



Warning

- A special method of installation from a ceiling (ceiling mount). causing an accident and injury.
- If you use adhesives on the Ceili from loosening, or if you use t projector, the projector case ma mount. This could cause seriou and could damage the projector When installing or adjusting th prevent the screws from looseni on.
- Do not cover the projector's air the vents are covered, the inter

Attention

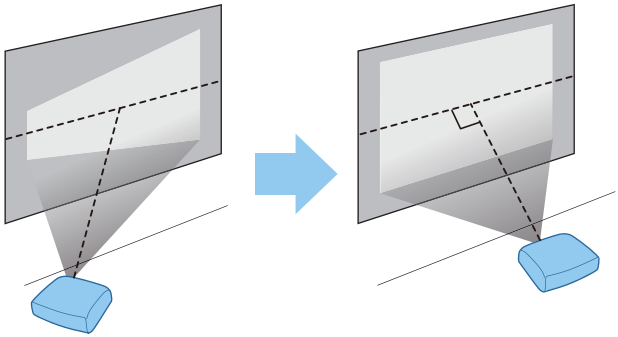
Do not use the projector on its s

- An optional Ceiling mo projector from a ceiling ☛ "Optional Accessori
- The default Projection s to **Rear** from the Conf ☛ **Extended** - **Project**
- You can change the Pr the [A/V Mute] button **Front↔Front/Ceiling** **Rear↔Rear/Ceiling**

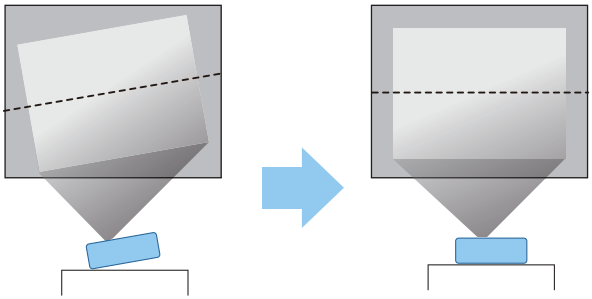
Installation methods

Install the projector as follows.

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



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



- See the following if you cannot install the projector parallel to the screen.
  ☛ "Correcting Keystone Distortion" p.37
- See the following if you cannot install the projector on a level surface.
  ☛ "Adjusting the Horizontal Tilt" p.41
  ☛ "Correcting Keystone Distortion" p.37

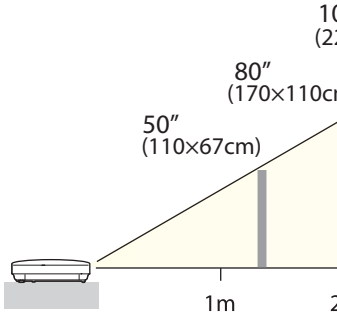
Screen Size and Approx

Projection size is determined by screen. See the illustrations on th to the screen size. The illustratio at maximum zoom. See the follo projection distance.

☛ "Screen Size and Projection

When you correct keysto reduced.

16:10 Screen Size



Connecting Equipment

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

Connecting a Computer

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

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

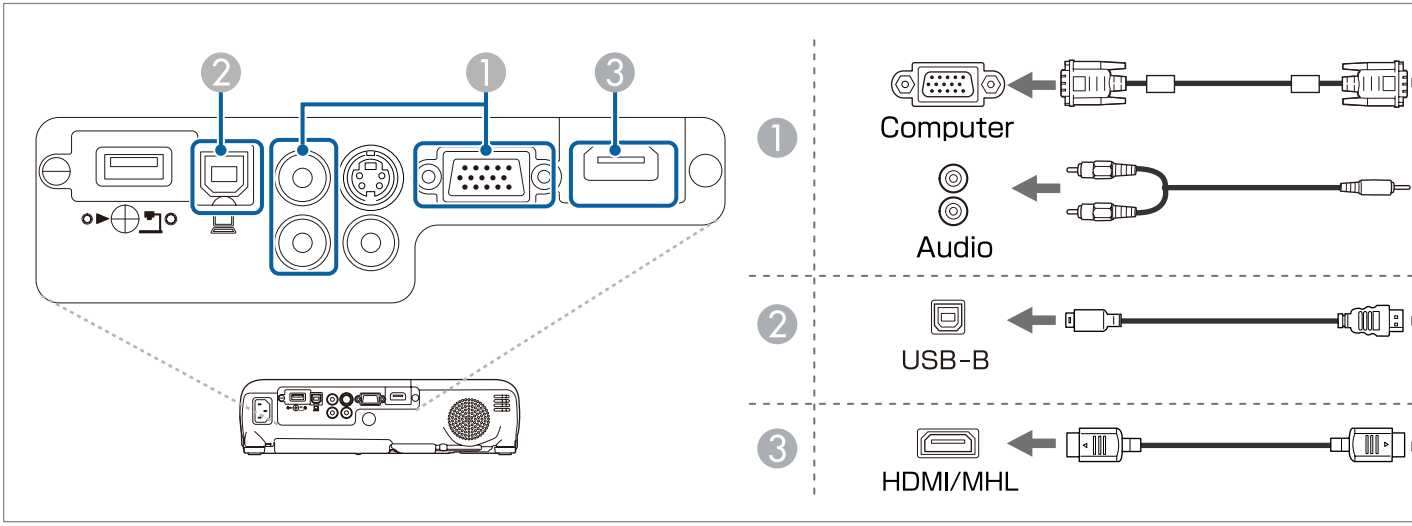
   Connect the computer's display output port to the projector's Computer port. You can output audio from the projector's speaker by c to the projector's Audio port using a commercially available audio cable.

2. **When using the supplied or commercially available USB cable**

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

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

   Connect the HDMI port on the computer to the projector's HDMI/MHL port. You can send the computer's audio with the projec

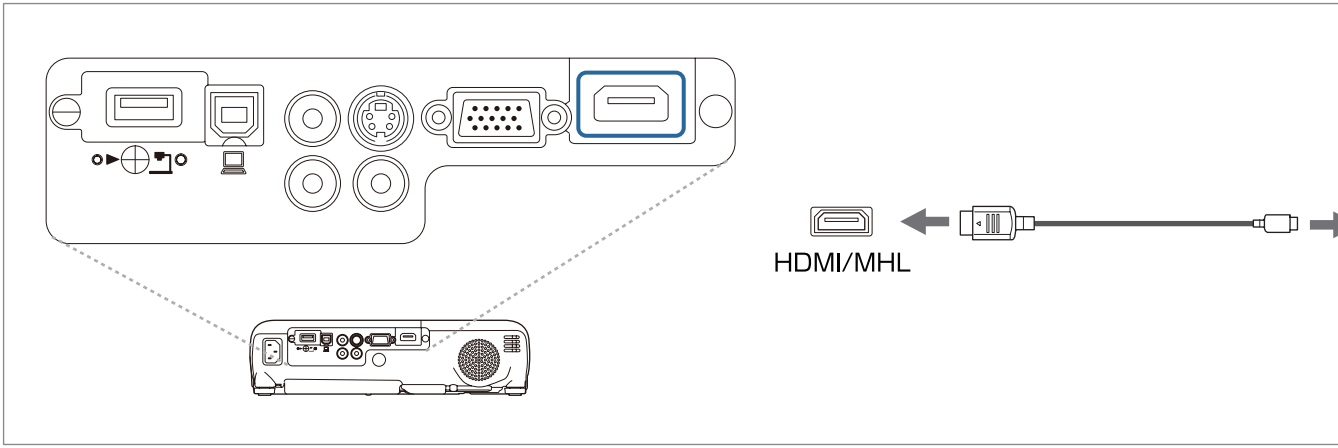


You can use a USB cable to connect the projector to a computer to project images from the computer. This fur

☛ "Projecting with USB Display" p.33

Connecting a Smartphone or Tablet Device

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



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

Attention

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

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

Connecting Image Sources

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

1. **When using a commercially available video or S-video cable**

   Connect the video output port on the image source to the projector's Video port. Or, connect the S-video output port on the image output audio from the projector's speaker by connecting the audio output port on the image source to the projector's Audio port

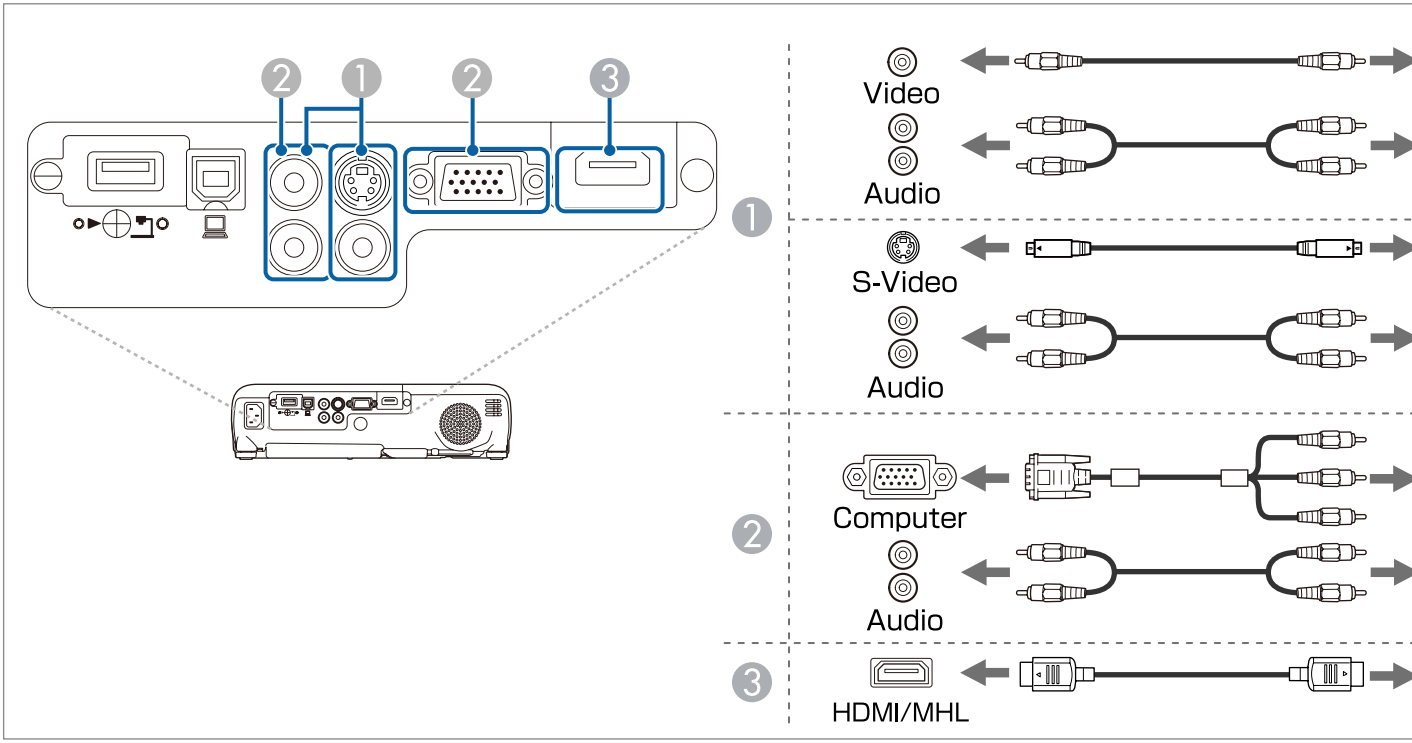
2. **When using the optional component video cable**

   ☛ "Optional Accessories" p.129

   Connect the component output port on the image source to the projector's Computer input port. You can output audio from the pr port on the image source to the projector's Audio port using a commercially available audio cable.

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

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



Attention

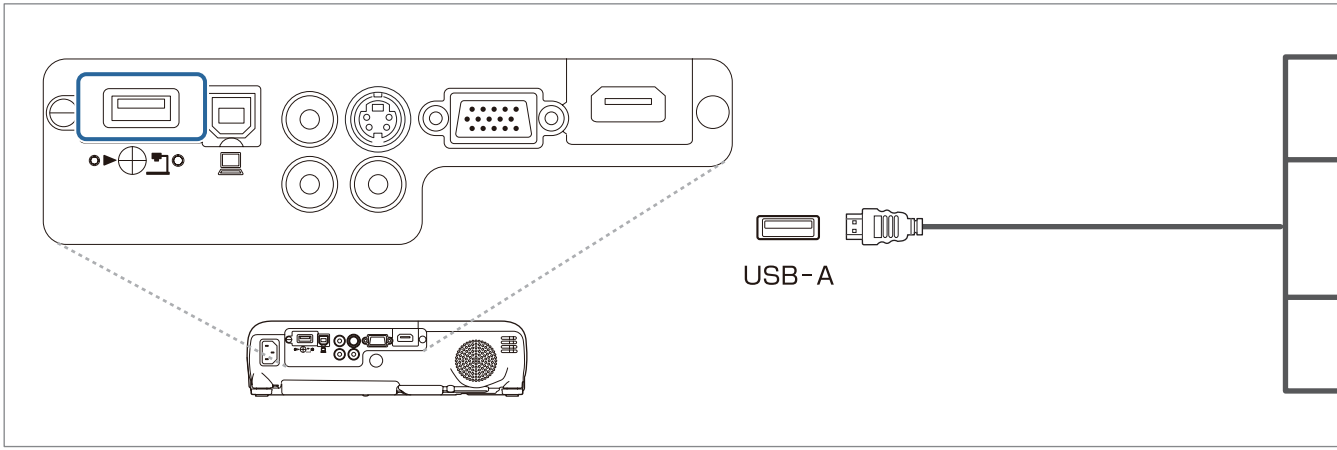
- Turn off the equipment you want to connect before connecting. If the input source is on when you connect it to the
- If the orientation or shape of the plug differs, do not try to force it in. The device could be damaged or could malfu

- If the source you want to connect to has an unusually shaped port, use the cable supplied with the device or an
- When using a commercially available 2RCA(L/R)/stereo mini-pin audio cable, make sure it is labeled "No resist

Connecting USB Devices

You can connect devices such as the optional Document Camera, a USB flash drive, and USB compatible hard d

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



When the USB device is connected, you can project image files on the USB flash drive or digital camera using

☛ "PC Free examples" p.51

Attention

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

Removing USB devices

After finishing projecting, remove USB devices from the projector. For devices such as digital cameras or hard disks, tu
the projector.

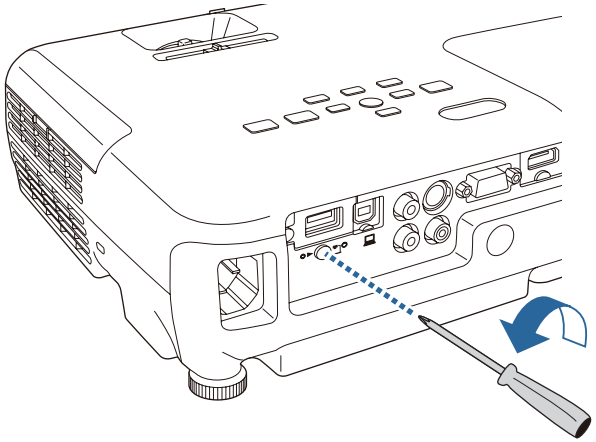
Installing the Wireless LAN Unit

By installing the supplied or optional wireless LAN unit, you can project the computer screen that is connected to the wireless LAN over a network.

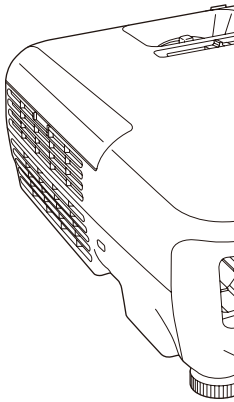
Connect the wireless LAN unit to the projector's USB-A port.

- When connecting to the network using wireless LAN, make sure you make network settings from the Configuration menu.
  ☛ "Wireless LAN menu" p.89
- If you normally leave the wireless LAN unit installed, make sure you attach the supplied wireless LAN unit cover as a theft deterrent.
- When moving the projector, make sure you remove the wireless LAN unit and cover for safety reasons.

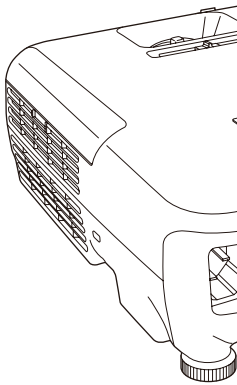
1 Use a cross-head screwdriver to remove the screw that secures the wireless LAN unit cover.



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



3 Attach the wireless LAN u
screw.



Installing the Quick Wireless C

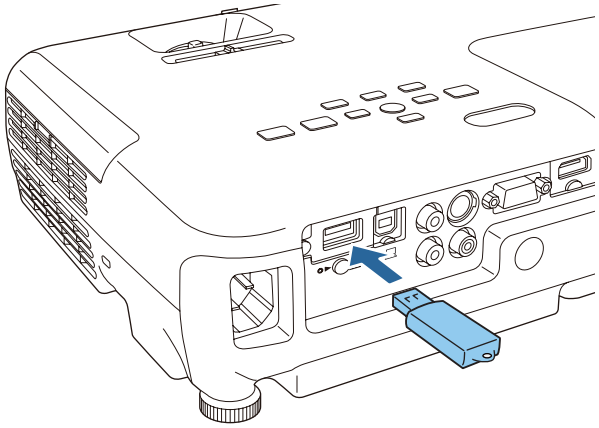
When installing the optional Qu
need to remove the Wireless LA
Wireless Connection USB Key t

1. If the Wireless LAN unit is installed on the projector, press the [LAN] button on the remote control.

   The LAN standby screen is displayed.

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

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



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

5. Reinstall the Wireless LAN unit on the projector.

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

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

Basic Usage

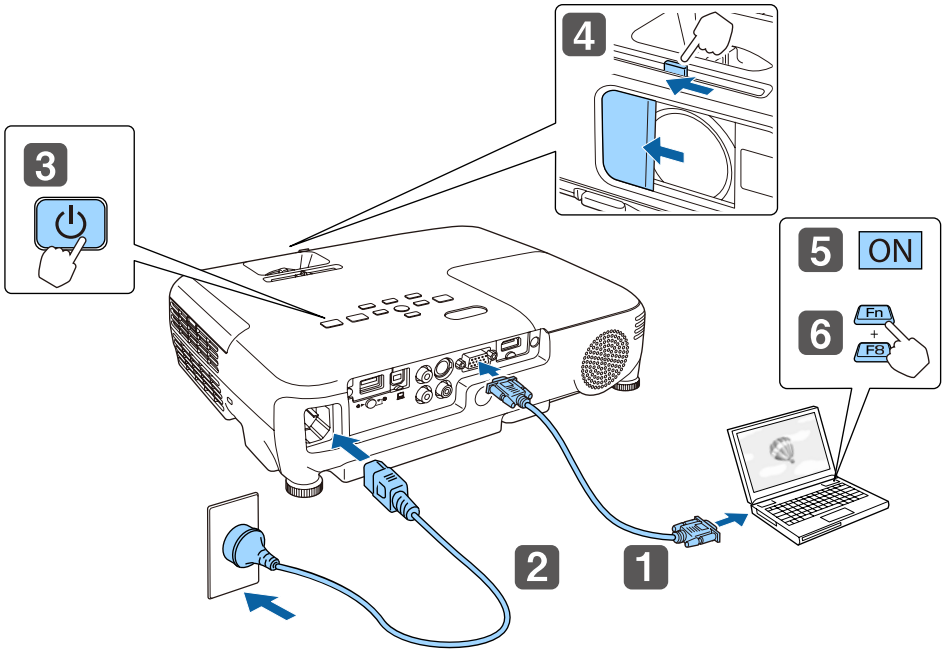
This chapter explains how to project and adjust images.

From Installation to Projection

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

Attention

Make sure you connect the cable from the source to the projector first, and then connect the power cord to the projector.



1. Connect the projector to the computer with the computer cable.
2. Connect the projector to an electrical outlet with the power cord.
3. Turn on the projector.
4. Open the A/V mute slide
5. Turn on your computer.
6. Change the computer's s

   When using a laptop com output from the computer

   Hold down the Fn key (f

- The method for being used. See computer.
- When turning of twice.

If the image is not projected, you of the following methods.

- Press the [Source Search] butt control.

  ☛ "Automatically Detect Inpu (Source Search)" p.32
- Press the button for the targe

  ☛ "Switching to the Target I

After projecting the imag

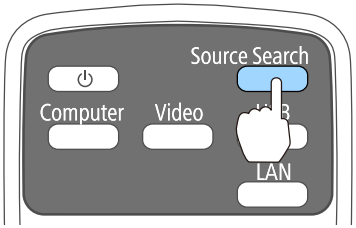
☛ "Correcting Keystone

☛ "Correcting the Focus

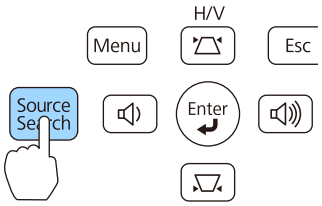
Automatically Detect Input Signals and Change the Projected Image (Source Search)

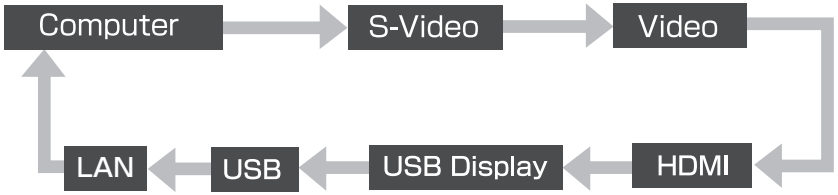
Press the [Source Search] button to project images from the port currently receiving an image.

Using the remote control



Using the control panel

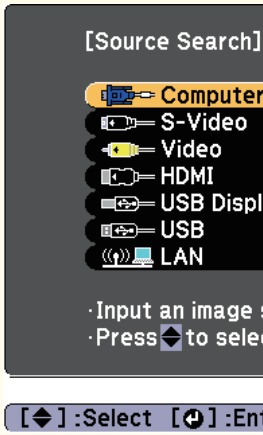




When two or more image sources are connected, press the [Source Search] button until the target image is projected.

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

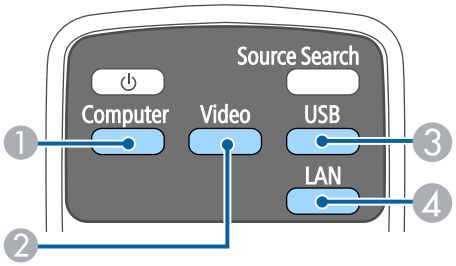
The following screen is c



Switching to the Target Image by Remote Control

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

Remote control



1. Switches to images from the Computer port.
2. Each time the button is pressed, it cycles through the images being input from the following sources.
   - S-Video port
   - Video port
   - HDMI/MHL port
3. Each time the button is pressed, it cycles through the images being input from the following sources.
   - USB Display
   - Images from the device connected to the USB-A port
4. Switches to the image from the network connected device.

Projecting with USB Di

You can use a USB cable to conn
images from the computer.

You can project images and sen

To start USB Display, set **USB**
Configuration menu.

☛ **Extended - USB Type B** p.

System requirements

For Windows

OS	Windows 200
	Windows XP
	Windows Vis
	Windows 7
	Windows 8

	Windows 8.1	Windows 8.1 32/64 bit Windows 8.1 Pro 32/64 bit Windows 8.1 Enterprise 32/64 bit
CPU	Mobile Pentium III 1.2 GHz or faster Recommended: Pentium M 1.6 GHz or faster	
Amount of Memory	256 MB or more Recommended: 512 MB or more	
Hard Disk Space	20 MB or more	
Display	Resolution of no less than 640x480 and no higher than 1600x1200. Display color in 16-bit color or greater	

*1 Service Pack 4 only

*2 Except for Service Pack 1

For OS X

OS	Mac OS 10.5.x 32 bit Mac OS 10.6.x 32/64 bit OS X 10.7.x 32/64 bit OS X 10.8.x OS X 10.9.x
CPU	Power PC G4 1GHz or faster Recommended: Core Duo 1.83GHz or faster
Amount of Memory	512 MB or more
Hard Disk Space	20 MB or more
Display	Resolution of no less than 640x480 and no higher than 1680x1200. Display color in 16-bit color or greater

Connecting for the first time

The first time you connect the p
cable, the driver needs to be ins
Windows and OS X.

- You do not need to in
- When inputting images
source to USB Display.
- If you use a USB hub,
Connect the USB cable
- You cannot change opt

For Windows

1 Connect the computer's
using a USB cable.

For Windows 2000
you want to restar
No.

For Windows 2000

Double-click **Computer**, **I**
EMP_UDSE.EXE.

For Windows XP

Driver installation starts a

For Windows Vista/Windo

When the dialog box is c

2 When the License Agreer

3 Computer images are projected.

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

4 Disconnect the USB cable when you finish projection.

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

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

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

  ☛ *Epson Projector Contact List*

For OS X

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

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

2 Double-click the **USB Display Installer** icon.

3 Follow the on-screen instructions to install.

4 When the License Agreer

Enter the administrator au

When the installation is co in the Dock and menu b

5 Computer images are pro

It may take a while befor computer images are proj not disconnect the USB ca

6 When you finish projecti **Display** icon menu on th the USB cable.

- If the USB Displa in the Finder, do **Installer** on your
- If nothing is pro **Display** icon in
- If there is no **U USB Display** fro
- If you select **Exi** Dock, USB Displ connect the USB

Uninstalling

For Windows 2000

1 Click **Start**, select **Setting**

2 Double-click **Add/Remov**

3 Click **Change or Remove**

4 Select **Epson USB Displa**

For Windows XP

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

For Windows Vista/Windows 7

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

For Windows 8/Windows 8.1

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

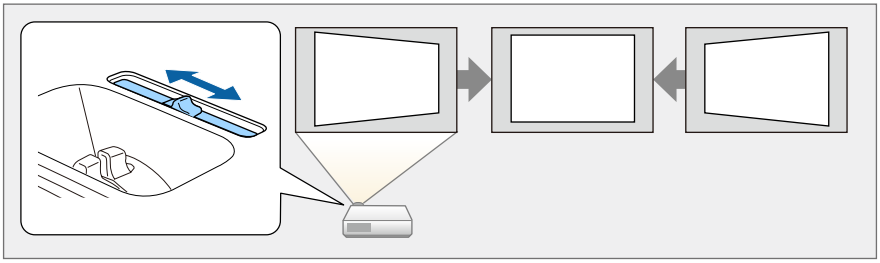
For OS X

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

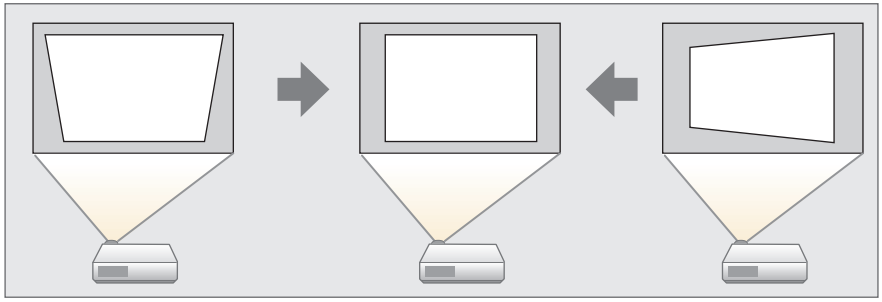
Correcting Keystone Distortion

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

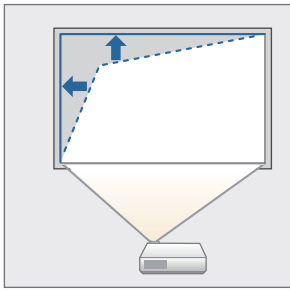
- Correcting automatically (Auto V-Keystone)
  Automatically corrects vertical keystone distortion.
- Correcting manually (H-Keystone Adjuster)
  Manually corrects horizontal keystone distortion using the horizontal keystone adjuster.



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



- Correcting manually (Quick C
  Manually correct the four corn



When you correct keysto
reduced.

Correcting automatically

Auto V-Keystone

When the projector detects any m
moved, or tilted, it automatically
function is called Auto V-Keysto

When the projector is moved, it
automatically corrects the projec

You can use Auto V-Keystone t
following conditions.

Correction angle: approx. 30˚ up

- Auto V-Keystone works only when **Projection** is set to **Front** from the Configuration menu.
  ☛ **Extended** - **Projection** p.85
- If you do not want to enable Auto V-Keystone, set **Auto V-Keystone** to **Off**.
  ☛ **Settings** - **Keystone** - **H/V-Keystone** - **Auto V-Keystone** p.84

Correcting manually

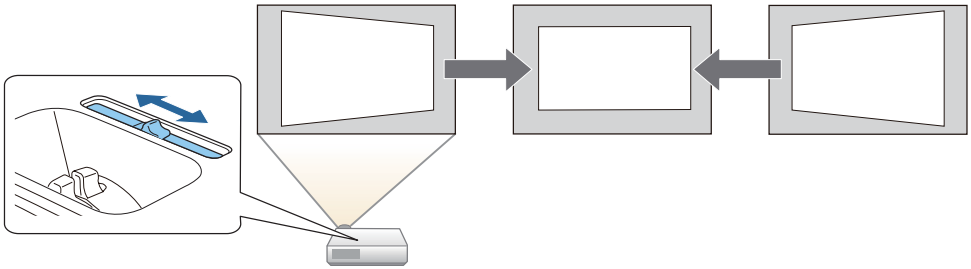
You can manually correct keystone distortion.

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

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

H-Keystone Adjuster

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

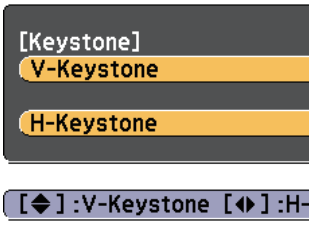


- When using horizontal
  to **On**.
  ☛ **Settings** - **Keyston**
  p.84
- You can also correct ke
  using H/V-Keystone.

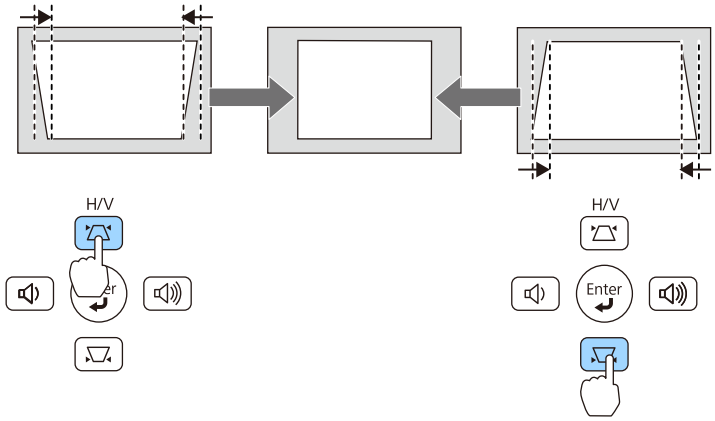
H/V-Keystone

Manually correct distortion in th
independently.

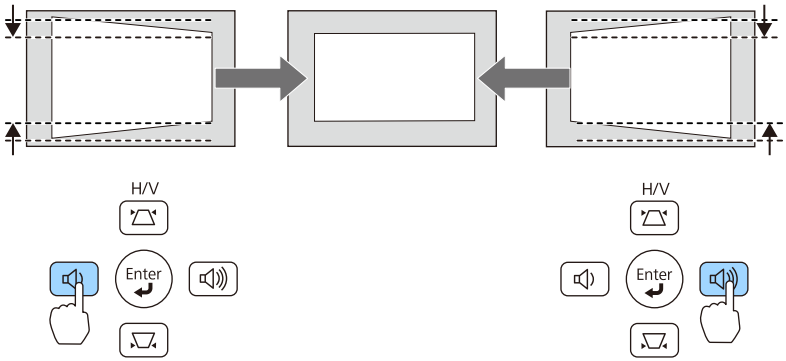
1 Press the [⧄] or [⧅] bu
projection to display the



2 Press the following butto
Press the [⧄] or [⧅] bu



Press the [◁]/[▷] buttons to correct horizontal distortion.



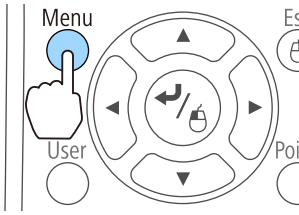
You can also set H/V-Keystone from the Configuration menu.
☛ **Settings** - **Keystone** - **H/V-Keystone** p.84

Quick Corner

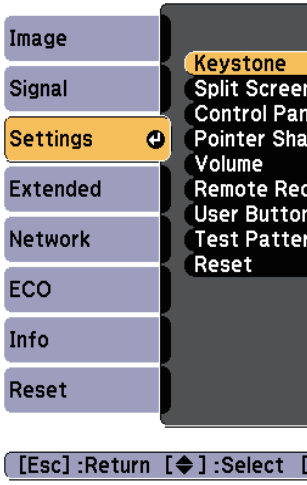
This allows you to manually correct each of the four corners of the projected image separately.

1 Press the [Menu] button
☛ "Using the Configurat

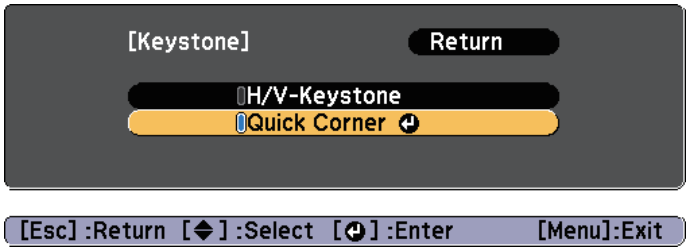
Using the remote contr



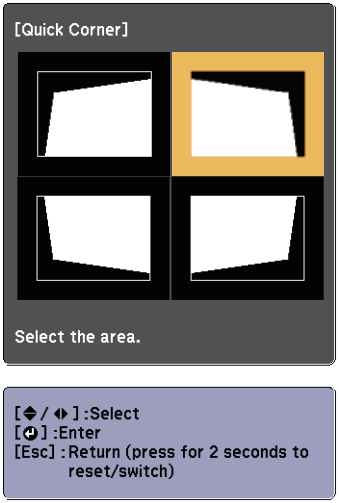
2 Select **Keystone** from **Se**



3 Select **Quick Corner**, and



4 Using the [▲], [▼], [◀], and [▶] buttons on the remote control, or the [⏢], [⏢], [🔈], and [🔊] buttons on the control panel, select the corner to correct, and then press the [↵] button.



5 Using the [▲], [▼], [◀], or the [⏢], [⏢], [🔈], and [🔊] buttons, adjust the position of the corne

When you press the [↵] allows you to select the a

If the message "Cannot a adjusting, you cannot adju indicated by the gray tria

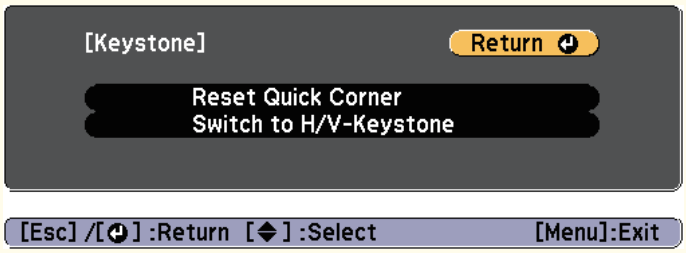
6 Repeat procedures 4 and corners.

7 When you are done, pres menu.

Because **Keystone** was ch selection screen shown in the [⏢] or [⏢] button o **H/V-Keystone** if you wan correction using the [⏢]

☛ **Settings** - **Keystone** -

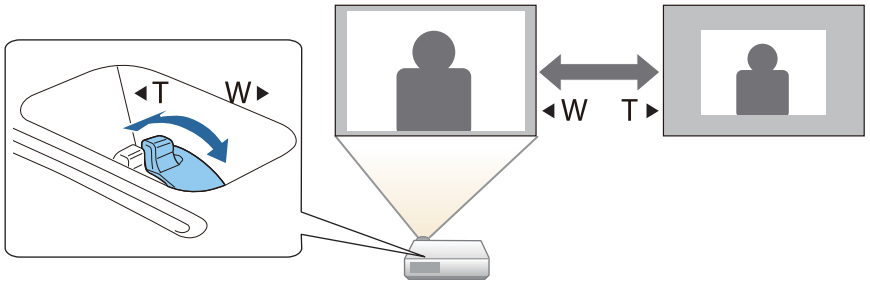
If the [Esc] button is held down for about two seconds while the corner selection screen from step 4 is displayed, the following screen is displayed.



Reset Quick Corner: Resets the result of Quick Corner corrections.
Switch to H/V-Keystone: Switches the correction method to **H/V-Keystone**.
☛ "Settings Menu" p.84

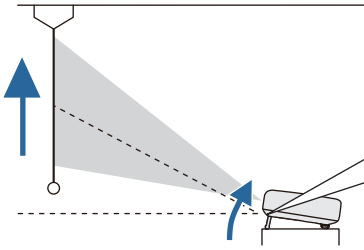
Adjusting the Image Size

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



Adjusting the Image Po

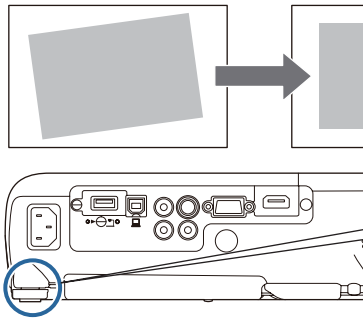
Press the foot adjust lever to ex
adjust the position of the image



The larger the angle of til
projector so that it only

Adjusting the Horizont

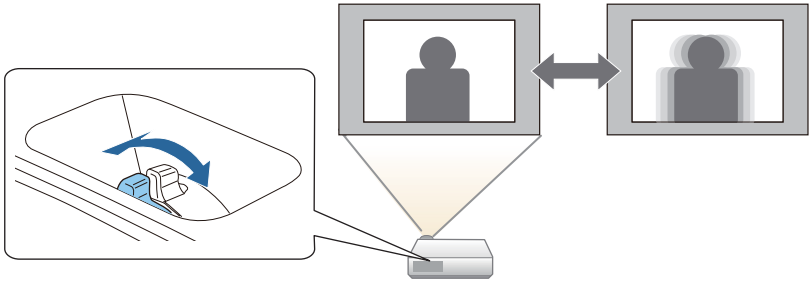
Extend and retract the rear feet



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

Correcting the Focus

You can correct the focus using the focus ring.

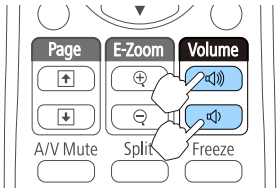


Adjusting the Volume

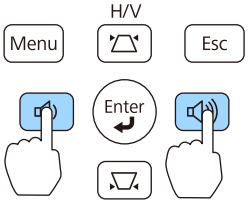
You can adjust the volume using one of the following methods.

- Press the [Volume] button on the control panel or the remote control to adjust the volume.
  [🔉] Decreases the volume.
  [🔊] Increases the volume.

Using the remote control



Using the control panel



- Adjust the volume from the C
  ☛ **Settings** - **Volume** p.84

⚠ Caution

Do not start at high volume.
A sudden excessive volume may ca
before powering off, so that you c
volume.

Selecting the Projection Mode)

Sets the Color Mode according t
image varies depending on the

Mode	
Dynamic	Ideal f mode,
Presentation	Ideal f in a b
Theatre	Ideal f images
Photo*1	Ideal f a brigh into co
Sports*2	Ideal f room.
sRGB	Ideal f standar
Blackboard	Even i (greenb natural

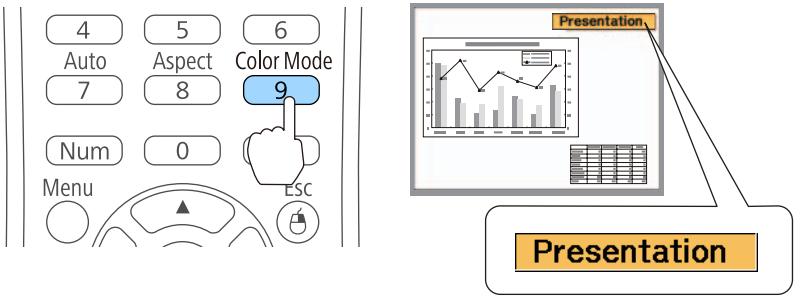
Mode	Application
Whiteboard	Ideal for making presentations using a whiteboard.

*1 This selection is only available when the input signal is RGB or when the source is USB Display, USB, or LAN.

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

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

Remote control



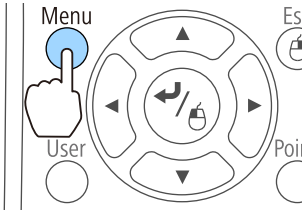
You can set Color Mode from the Configuration menu.
☛ **Image - Color Mode** p.82

Setting Auto Iris

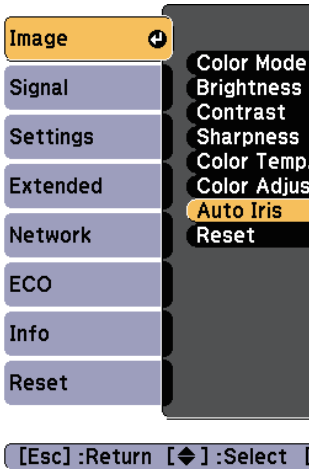
By automatically setting the luminance according to the brightness of the displayed image, it lets you enjoy deep and rich images.

1 Press the [Menu] button.
☛ "Using the Configurat

Using the remote contr



2 Select **Auto Iris** from **Im**



3 Select **Normal** or **High S**
The setting is stored for

When set to **High** adjusted as soon a

4 Press the [Menu] button

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

Changing the Aspect Ratio of the Projected Image

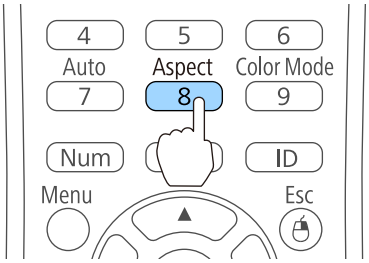
You can change the Aspect Ratio of the projected image to suit the type, the ratio of height and width, and the resolution of the input signals.

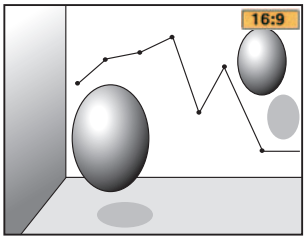
Available aspect modes vary depending on the image signal currently being projected.

Changing methods

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

Remote control





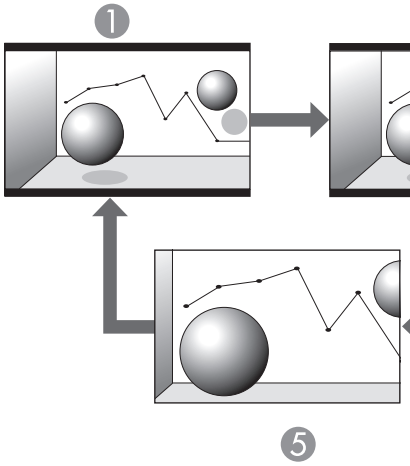
You can set the aspect ratio from the Configuration menu.
☛ **Signal** - **Aspect** p.82

Changing the aspect mode

Projecting images from video equipm

Each time the [Aspect] button is order **Normal** or **Auto**, **16:9**, **Fu**

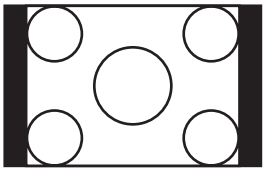
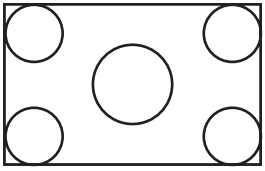
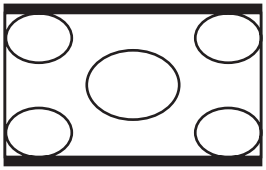
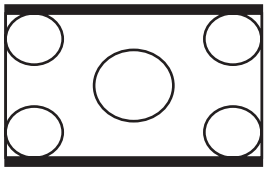
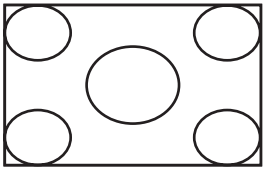
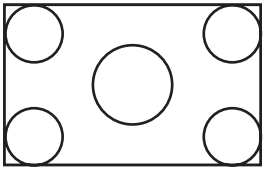
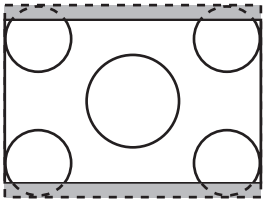
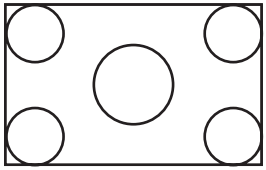
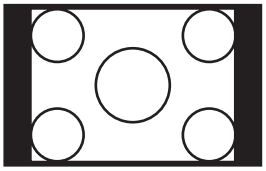
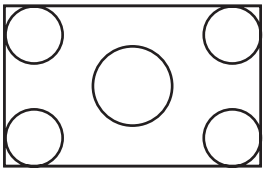
Example: 1080p signal input (re



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

Projecting images from a computer

The following shows projection examples for each aspect mode.

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

If parts of the image are
or **Normal** from the Con
computer panel.

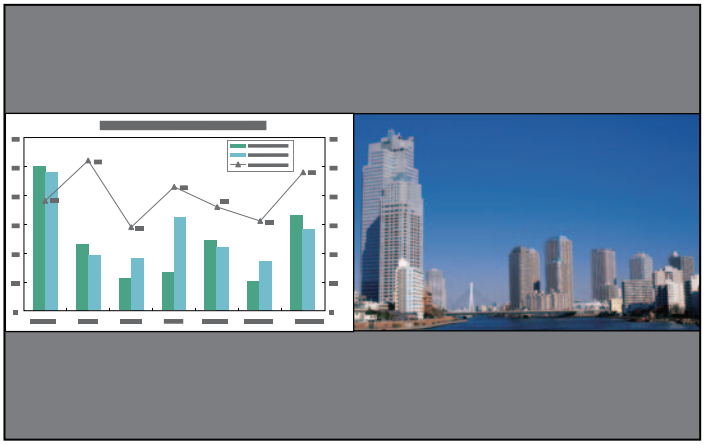
☛ **Signal - Resolution**

Useful Functions

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

Projecting Two Images Simultaneously (Split Screen)

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



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						
	Com-puter	S-Vid-eo	Video	HDMI	USB Dis-play	USB	LAN
Computer	-	-	-	✓	✓	✓	✓
S-Video	-	-	-	✓	✓	✓	✓
Video	-	-	-	✓	✓	✓	✓
HDMI	✓	✓	✓	-	✓	✓	✓

Left Screen			
	Com-puter	S-Vid-eo	V
USB Dis-play	✓	✓	
USB	✓	✓	
LAN	✓	✓	

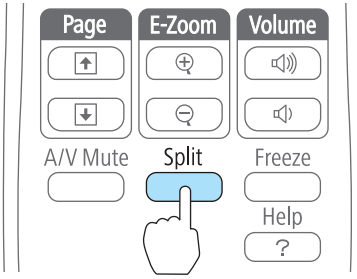
Operating procedures

Projecting on a split screen

1 Press the [Split] button w

The currently selected inp screen.

Remote control

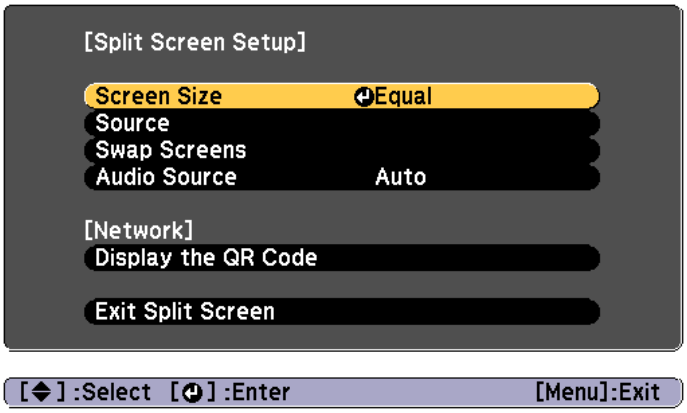


You can perform t menu.

☛ **Settings** - **Split**

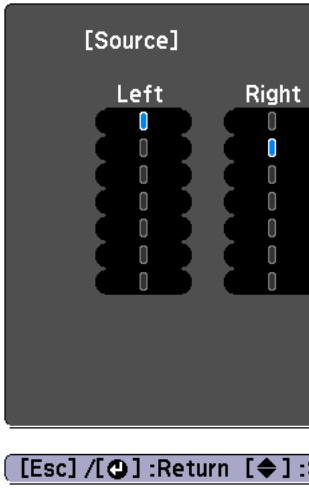
2 Press the [Menu] button.

The Split Screen Setup screen is displayed.



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

4 Select each input source



Only input sources that c

☛ "Input sources for spl

The Source screen
are pressed during

- [Source Search]
- [Computer] butt
- [Video] button
- [USB] button
- [LAN] button

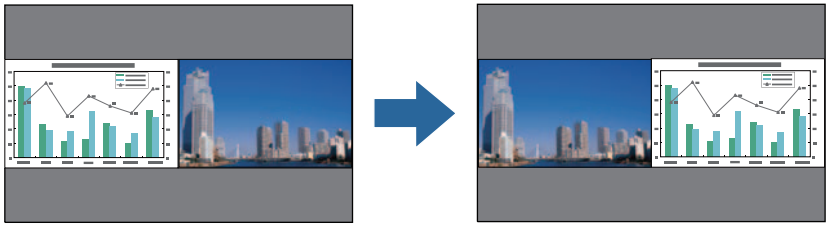
5 Select **Execute**, and then

To switch the source dur
procedure from step 2.

Switching the left and right screens

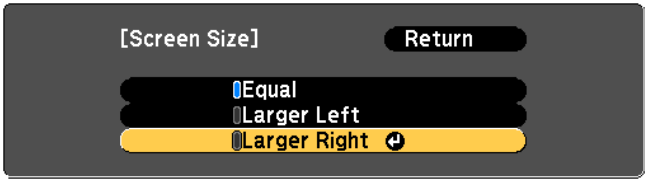
Use the following procedure to switch the projected images displayed on the left and right screens.

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.



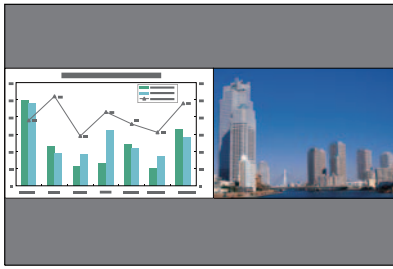
Switching the left and right image sizes

1. Press the [Menu] button during split screen projection.
2. Select the **Screen Size**, and then press the [↵] button.
3. Select the screen size you want to display, and then press the [↵] button.

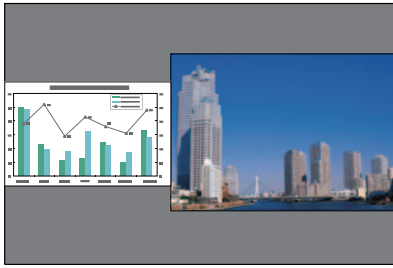


The projected images will appea
size.

Equal



Larger Right



- You cannot enlarge bot
  the same time.
- When one image is en
- Depending on the video
  and right may not app
  set.

Ending the split screen

To end split screen, press the [
The following steps can also be

- Press the [Split] button on th

- Select **Exit Split Screen** from the Configuration menu.
  ☛ **Settings** - **Split Screen** - **Split Screen Setup** p.84

Restrictions during split screen projection

Operating restrictions

The following operations cannot be performed during split screen projection.

- Setting the Configuration menu
- E-Zoom
- Switching the aspect mode (**Normal** is used for the aspect mode.)
- Operations using the [User] button on the remote control
- Auto Iris

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

Restriction relating to images

- The default values for the **Image** menu are applied to the image on the right screen. However, the settings for the image projected on the left screen are applied to the image on the right screen for **Color Mode**, **Color Temp.**, **Color Adjustment**, **Brightness**, **Contrast**, **Color Saturation**, and **Tint**.
- The setting value **Off** for **Progressive** and **Noise Reduction** is applied to the image on the right screen.
  ☛ "Signal Menu" p.82
- When there is no image signal being input, the display screen is the color that is set in Display Background. When **Logo** is selected, the display is **Blue**.
- When A/V Mute is performed, the display is **Black**.

Projecting Without a C

By connecting a USB storage de
hard disk to the projector, you
without using a computer. This

- You may not be able t
  security functions.
- You cannot correct key
  even if you press the [

Specifications for files that ca

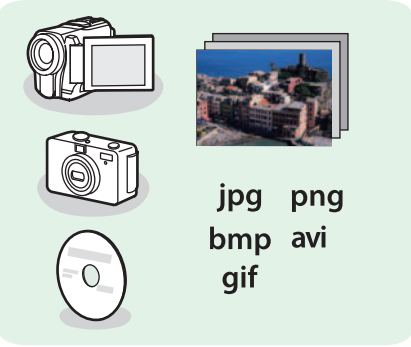
Type	File Type (Extension)	No
Image	.jpg	The - C - Pr - In Du not too
	.bmp	Ca tha
	.gif	• C t • C
	.png	Ca tha

Type	File Type (Extension)	Notes
Movie	.avi (Motion JPEG)	• Cannot project images with a resolution greater than 1280x720. • The audio format can only playback linear PCM and ADPCM. • Supports AVI 1.0. You cannot project files over 2 GB.

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

PC Free examples

Projecting images stored on USB storage



☛ "Projecting the selected images or movies" p.53

☛ "Projecting image files in a folder in sequence (Slideshow)" p.54

PC Free operating methods

Although the following steps are
you can perform the same oper

Starting PC Free

1 Change the source to US

☛ "Switching to the Tar

2 Connect the USB storage

☛ "Connecting USB Dev

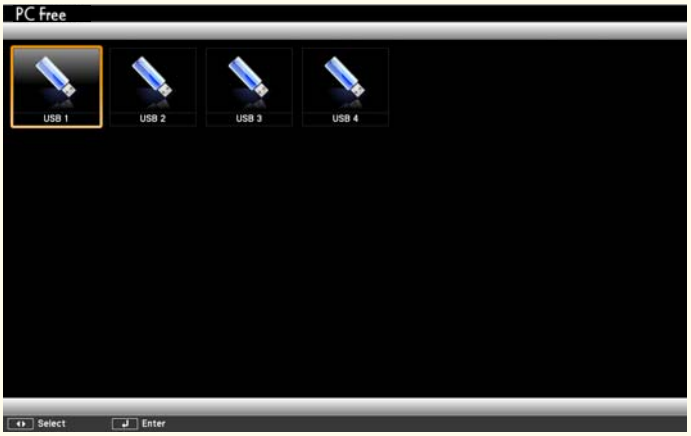
PC Free starts and the fil

- The following files are d
displayed as small image
  - JPEG files
  - AVI files (displays the
- Other files or folders ar
following table.

Icon	File
	JPEG files*
	GIF files
	AVI (Motion JPEG) files*

* When it cannot be displayed as

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



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

Projecting images

1 Press the [▲], [▼], [◀], you want to project.

If not all of the fi screen, press the [the cursor on **Next** the [↵] button.

To return to the p remote control, or top of the screen

2 Press the [↵] button.

The selected image is disp

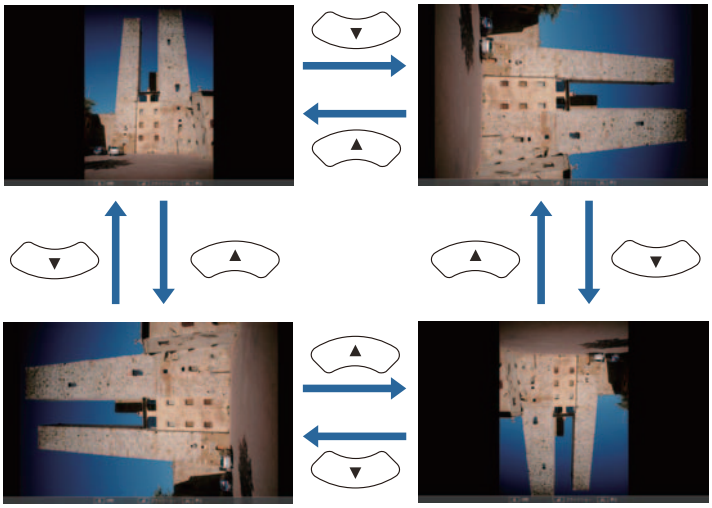
When a folder is selected displayed. To return to th **Back to Top** and press t

Rotating images

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

1 Play images, or run Slideshow.

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



Stopping PC Free

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

Projecting the selected images

Attention

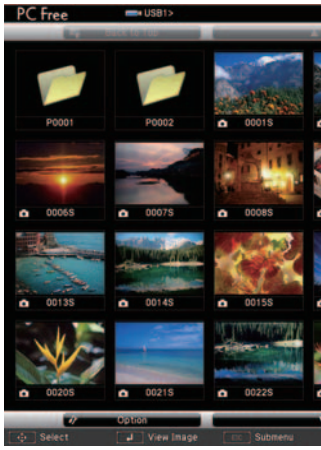
Do not disconnect the USB storag
may not operate correctly.

1 Start PC Free.

The file list screen is disp

☛ "Starting PC Free" p.5

2 Use the [▲], [▼], [◀], you want to project.



3 Press the [↵] button.

The image is displayed o

Press the [◀][▶] buttons to move to the next or previous image file.

4 To finish projecting, perform one of the following operations.

- Projecting an image: Press the [Esc] button.
- Projecting a movie: Press the [Esc] button to display the message screen, select **Exit**, and then press the [↵] button.

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

Projecting image files in a folder in sequence (Slideshow)

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

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

☛ "Image file display settings and Slideshow operation settings" p.55

1 Start PC Free.

The file list screen is displayed.

☛ "Starting PC Free" p.51

2 Press the [▲], [▼], [◀ over the folder for the Sl press the [↵] button.

3 Select **Slideshow** at the then press the [↵] butt

Slideshow starts, and the projected in sequence, on

When the last file is proj automatically. If you set window, projection starts the end.

☛ "Image file display set p.55

You can proceed to the ne stop playback while proje

If **Screen Switching Time** not change automatically [▶] button, the [↵] bu next file.

You can use the following funct Free.

- Freeze
  ☛ "Freezing the Image (Freez
- A/V Mute
  ☛ "Hiding the Image and So
- E-Zoom
  ☛ "Enlarging Part of the Ima

- Pointer
  ☛ "Pointer Function (Pointer)" p.58

Image file display settings and Slideshow operation settings

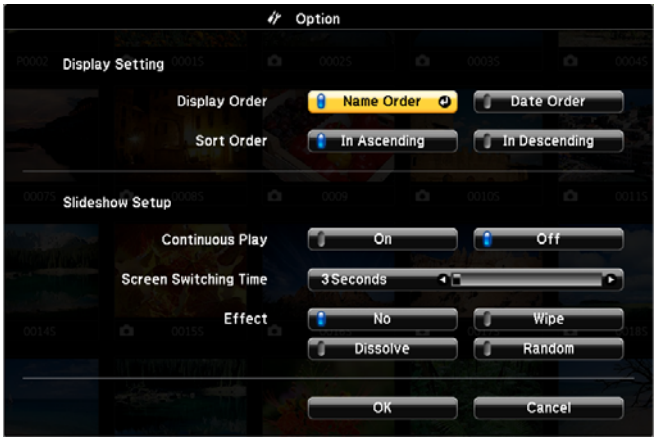
You can set the file display order and Slideshow operations on the Option screen.

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

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

Select any of the options as necessary and press the [↵] button.

The following table shows the details for each item.



Display Order	You can select to display the files in **Name Order** or **Date Order**.
Sort Order	You can select to sort the files **In Ascending** or **In Descending** order.
Continuous Play	You can
Screen Switching Time	You can Slideshow Seconds.
Effect	You can

3 When you have finished

or [◇] buttons to position

[↵] button.

The settings are applied.

If you do not want to ap

Cancel, and then press th

Projecting Using a QR

By reading a QR code displayed iProjection (V1.3.0 or later), you tablet device.

Check the following points befo

- The supplied or optional wirel
- **Wireless Power** is set to **Wir** menu

You can download Epson from Google play. Any f App Store or Google pla

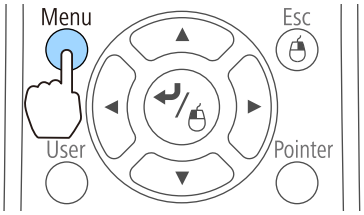
Setting the display method for QR codes

Set the QR code display from the Configuration menu.

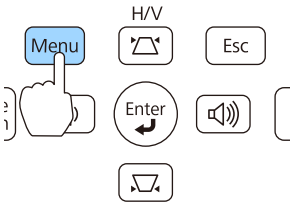
1 Press the [Menu] button.

☛ "Using the Configuration Menu" p.79

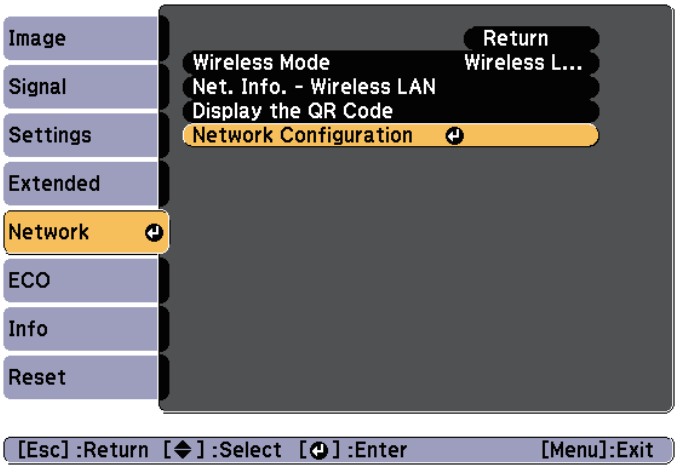
Using the remote control



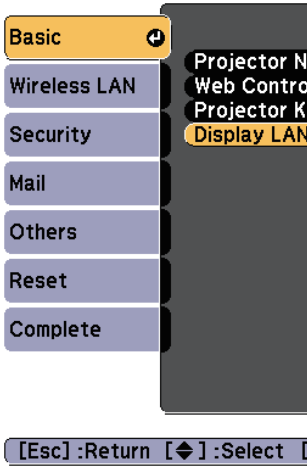
Using the control panel



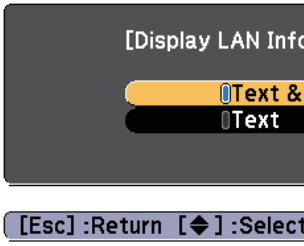
2 Select **Network Configuration** from **Network**.



3 Select **Display LAN Info.** from **Basic**.



4 Select **Text & QR Code**.



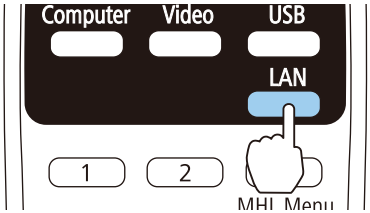
Text & QR Code

Projecting data from a smartphone or tablet device

Project data from your device using Epson iProjection.

1. Start Epson iProjection on your smartphone or tablet device.
2. Tap **Projector** on the application screen.
   The projector's search screen is displayed.
3. Tap **Read QR code** on the application screen.
   The camera starts and the preview screen is displayed.
4. Press the [LAN] button on the remote control, or select **Display the QR Code** from the **Network** menu to display the QR code.

Remote control

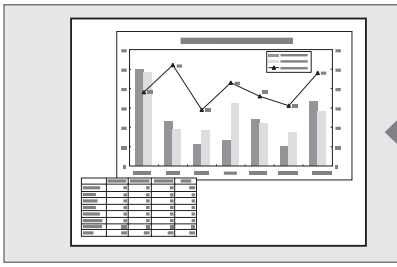


- When the projector is already receiving an image signal over the network, the QR code is not displayed even if you press the [LAN] button. Press the [Enter] button on the remote control or the control panel (only when the source is LAN), or select **Display the QR Code** from the **Network** menu to display the QR code.
- To hide the QR code, press the [Esc] button on the remote control or the control panel.

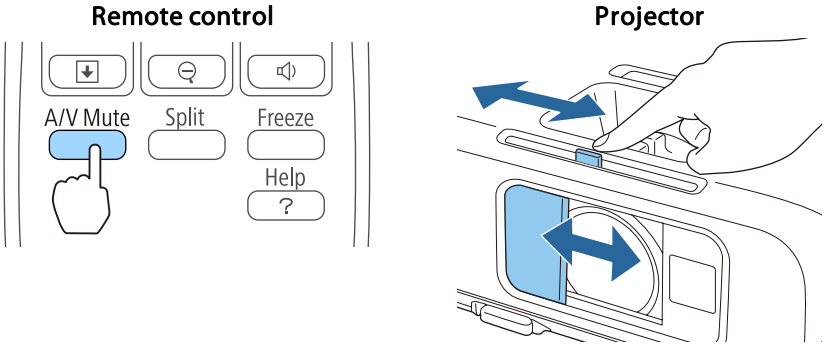
5. Read the projected QR c
   device.
   Make sure you read the Q
   it fits into the guide. If y
   may not be read.
   When the connection is e
   device is displayed. Tap **I**
   select the file you want t

Hiding the Image and S
Mute)

You can use this when you want
you are saying, or if you do not w
changing between files during pr



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

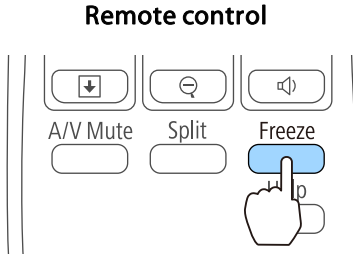


- When projecting moving images, the images and sound continue to be played back while A/V Mute is on. It is not possible to resume projection from the point where A/V Mute was activated.
- You can select the screen displayed when the [A/V Mute] button is pressed from the Configuration menu.
  ☛ **Extended** - **Display** - **A/V Mute** p.85
- When A/V mute is enabled with the [A/V Mute] button, **A/V Mute Timer** activates and the power is automatically turned off after approximately 30 minutes. If you do not want to enable **A/V Mute Timer**, set **A/V Mute Timer** to **Off**.
  ☛ **ECO** - **A/V Mute Timer** p.94
- When the A/V mute slide is closed for approximately 30 minutes, **Lens Cover Timer** activates and the power is automatically turned off. If you do not want **Lens Cover Timer** to activate, set **Lens Cover Timer** to **Off**.
  ☛ **ECO** - **Lens Cover Timer** p.94
- The lamp is still lit during A/V Mute, so the lamp hours continue to accumulate.

Freezing the Image (Fr

When Freeze is activated on mov
project on the screen, so you ca
time like a still photo. Also, you
between files during presentation
images if the Freeze function is

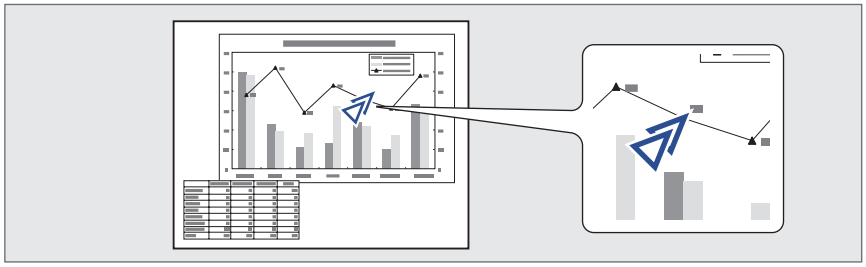
Each time you press the [Freeze



- Audio does not stop.
- When projecting movin
  back while the screen i
  projection from the po
- If the [Freeze] button i
  the Help screen is disp
  displayed is closed.
- Freeze still works while

Pointer Function (Point

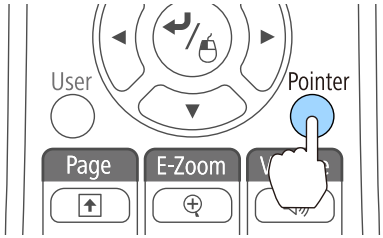
This allows you to move a Point
you draw attention to the area



1 Display the Pointer.

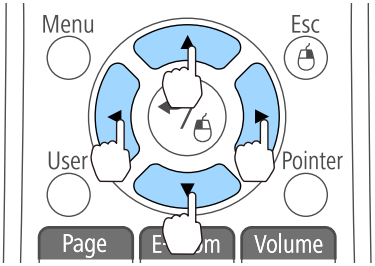
Each time you press the [Pointer] button, the pointer appears or disappears.

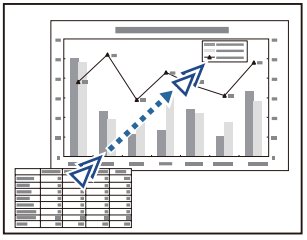
Remote control



2 Move the Pointer icon ( ).

Remote control





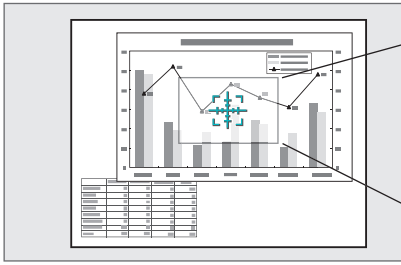
When any pair of adjacent [ ], [ ], [ ], or [ ] buttons are pressed at the same time, the pointer can be moved diagonally.

You can select the
Configuration men

☛ **Settings - Poi**

Enlarging Part of the I

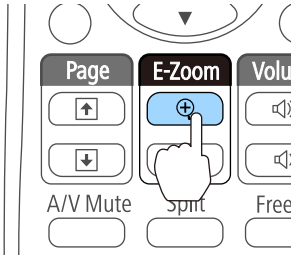
This is useful when you want t
detail, such as graphs and table



1 Start E-Zoom.

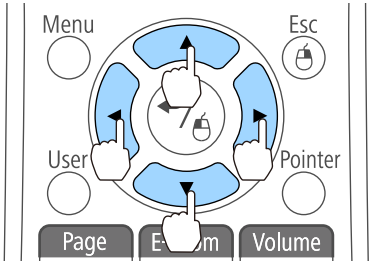
Press the [⊕] button to

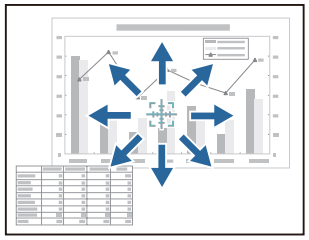
Remote control



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

Remote control

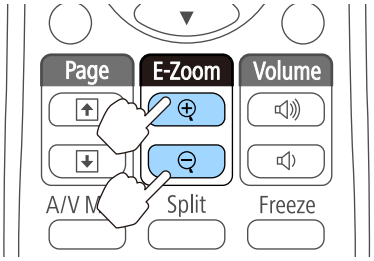




When any pair of adjacent [▲], [▼], [◀], or [▶] buttons are pressed at the same time, the pointer can be moved diagonally.

3 Enlarge.

Remote control



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

[⊖] button: Reduces images that have been enlarged.

[Esc] button: Cancels E-Zoom.

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

Using the Remote Cont Pointer (Wireless Mous

You can control the computer's control. This function is called

The following operating systems

	Windows
OS	Windows 200 Windows XP Windows Vist Windows 7 Windows 8 Windows 8.1

* It may not be possible to use versions of the operating syste

Use the following procedure to

1 Connect the projector to

☛ "Connecting a Compu

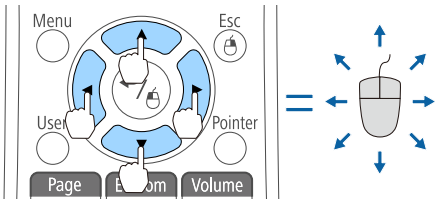
2 Change the source to or

- USB Display
- Computer
- HDMI

☛ "Switching to the Tar

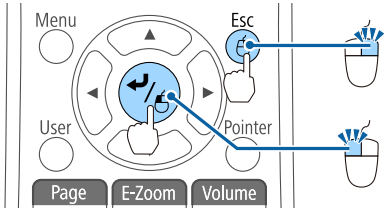
Once set, the mouse pointer can be controlled as follows.

Moving the mouse pointer



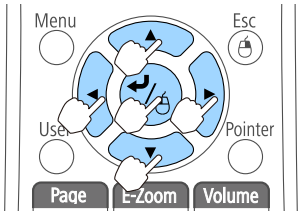
[▲][▼][◀][▶] buttons:
Moves the mouse pointer.

Mouse clicks



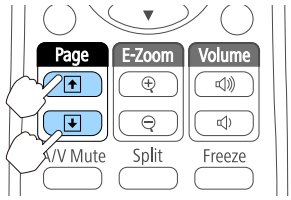
[Esc] button: Right click.
[↵] button: Left click. Press quickly twice to double-click.

Drag and drop



While holding down the [↵] button, press the [▲], [▼], [◀], or [▶] button.
Release the [↵] button to drop at the desired location.

Page Up/Down



[⇞] button: Moves to the previous page.
[⇟] button: Moves to the next page.

- When any pair of adja
  pressed at the same tir
- If the mouse button set
  operation of the remot
- The Wireless Mouse fu
  conditions.
  - When projecting ima
    HDMI/MHL port using
  - When the Configurat
  - When operating funct
    (such as adjusting the
    However, when using th
    or down function is av

Correcting the Color Di from Multiple Projecto

When lining up multiple project **Image** menu to adjust the differe each image.

- In some cases the brig even after correction.
- After some time has el may become more noti adjustments.

Summary of correction proced

When multiple projectors are set the following procedure to corre

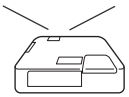
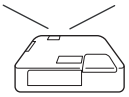
1. **Set the projector ID.**
   Set a unique projector ID for each of the target projectors so that you can limit which projector is being corrected.
2. **Correct the color difference.**
   You can carry out color correction when projecting from multiple projectors.

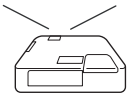
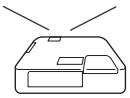
Setting an ID and using the remote control

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

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

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

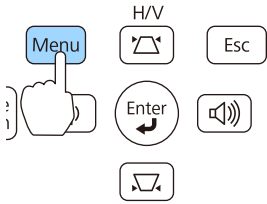
Operation	Combinations		Descriptions
Possible		Projector ID: 1	When the Projector ID and the ID selected with the remote control match, you can operate the projector from the remote control.
		ID selected with remote control: 1	
Possible		Projector ID: Off	When the Projector ID is set to Off, you can operate the projector regardless of the ID selected with the remote control.
		ID selected with remote control: 1	

Operation	Combinati	
Possible		Project
		ID sele control
Not possible		Project
		ID sele control

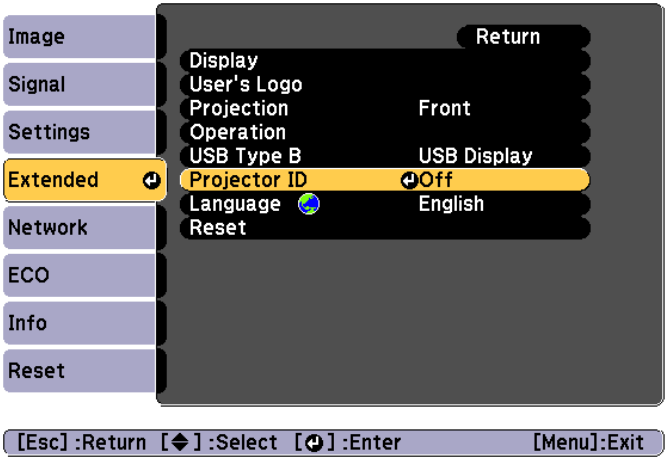
Setting the Projector ID

1 Press the [Menu] button
☛"Operating the Configu

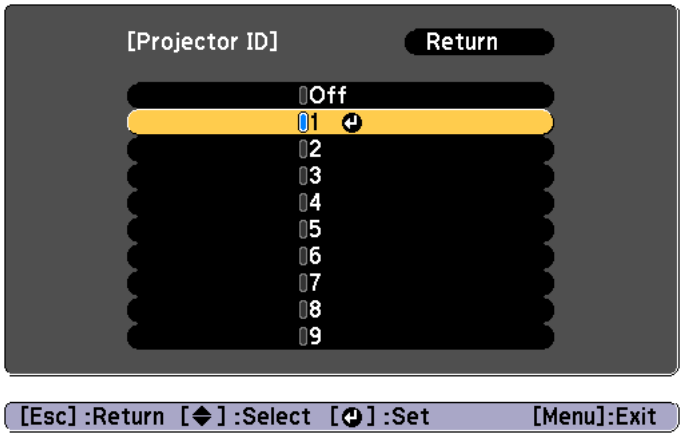
Control panel



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



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



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

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

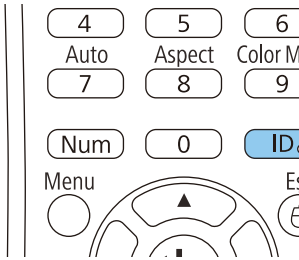
Selecting the ID for the projector you

Select the ID each time yo
is turned on, the ID set

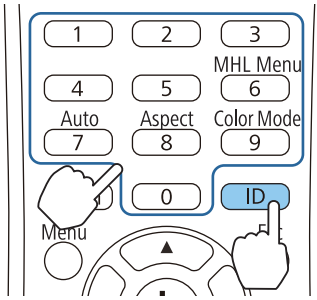
1 Point the remote control
projector and press the

When you press the [ID]
displayed on the projectio
seconds.

Remote control



2 While holding the [ID] b
matches the ID of the p



Correcting

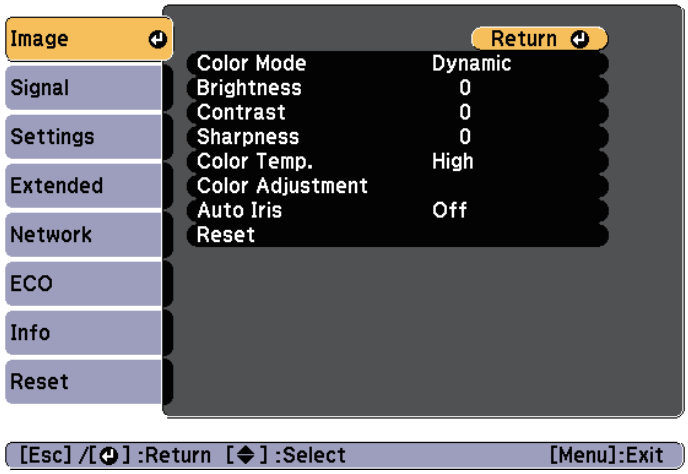
After setting up the projectors, correct the brightness and tone for each projector to reduce the differences.

Correcting color differences

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

1. Press the [Menu] button.
   ☛ "Using the Configuration Menu" p.79

2. Select the item you want to set from **Image**, and then make each setting.



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

   After matching the ID for the remote control to the projector, perform steps 1 to 3 for all projectors that need to be corrected.

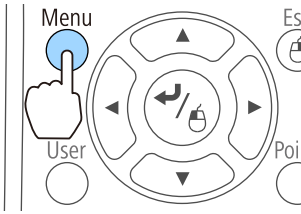
Saving a User's Logo

You can save the image that is c

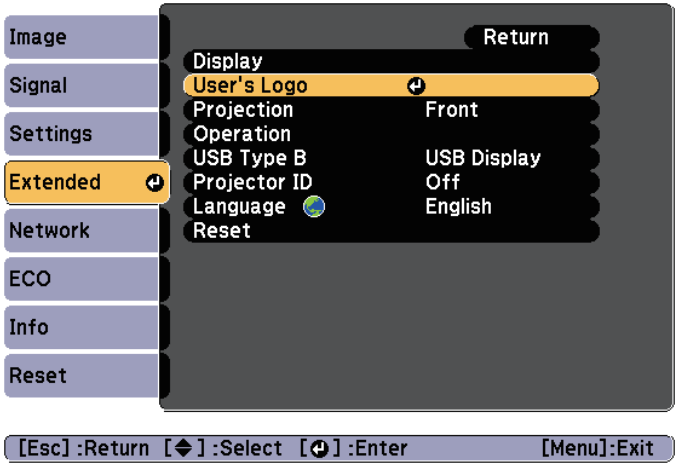
- Once a User's Logo has the factory default.
- If the content of the C projector using the batc is set for the other pro information and so on
  ☛ "Performing Batch

1. Project the image you wa press the [Menu] button.
   ☛"Operating the Configu

   Using the remote contr



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



- When **User's Logo Protection** from **Password Protection** is set to **On**, a message is displayed and the User's Logo cannot be changed. You can make changes after setting **User's Logo Protection** to **Off**.
  ☛ "Managing Users (Password Protect)" p.67
- If **User's Logo** is selected when Keystone, E-Zoom, Aspect, or Adjust Zoom are being performed, the function currently being performed is temporarily cancelled.

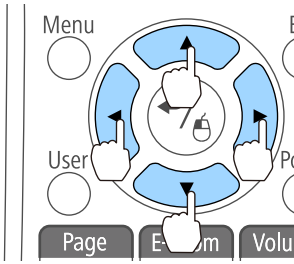
3 When the message "Choose this image as the User's Logo?" is displayed, select **Yes**.

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

4 Move the box to select th
Logo.

You can perform the sam
panel.

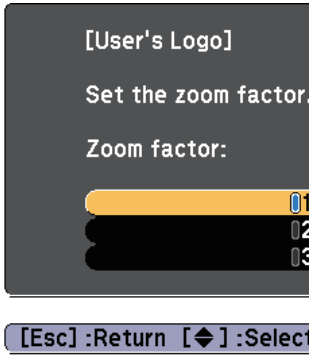
Remote control



You can save at 4

5 When you press the [↵
image?" is displayed, sele

6 Select the zoom factor fr



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.
- It takes a while to save. Do not operate the projector or any connected equipment while it is saving, otherwise malfunctions may occur.

Security Functions

The projector has the following enhanced security functions.

- Password Protect
  You can limit who can use the projector.
- Control Panel Lock
  You can prevent people changing the settings on the projector without permission.
  ☛ "Restricting Operation (Control Panel Lock)" p.69
- Anti-Theft Lock
  The projector is equipped with the following anti-theft security device.
  ☛ "Anti-Theft Lock" p.70

Managing Users (Password Protect)

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

Kinds of Password Protect

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

- **Power On Protect**
  When **Power On Protect** is **On**, you need to enter a preset password after the projector is plugged in and turned on (this also applies to Direct Power On). If the correct password is not entered, projection does not start.
- **User's Logo Protection**
  Even if someone tries to chang
  projector, it cannot be changed
  the following setting changes f
  - Capturing a User's Logo
  - Setting **Display Backgro**
    Display
    ☛ **Extended - Display**
- **Network Protection**
  When **Network Protect** is set t
  prohibited.
  ☛ "Network Menu" p.87

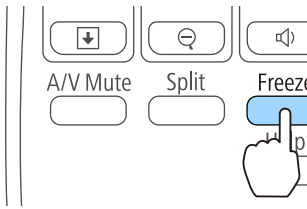
Setting Password Protect

Use the following procedure to

1. During projection, hold d
   seconds.

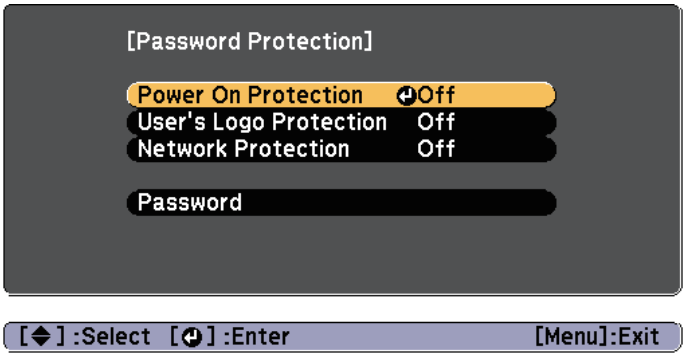
   The Password Protect sett

Remote control



- If Password Protect is already activated, you must enter the password.
  If the password is entered correctly, the Password Protect setting menu is displayed.
  ☛ "Entering the Password" p.68
- When the password is set, stick the password protect sticker in a visible position on the projector as a further theft deterrent.
  ☛ *Password Protect Sticker*

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



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

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

4 Set the password.

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

(2) When the message "Cha
then press the [↵] butt
this to your own desired
in step 2 is displayed ag

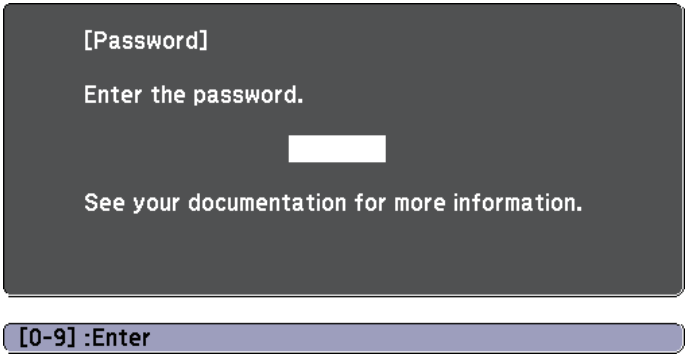
(3) While holding down the
the numeric buttons. Th
you enter the fourth dig

(4) Re-enter the password.
The message "Password
If you enter the passwor
you to re-enter the pass

Entering the Password

When the password entry screen
remote control.

While holding down the [Num]
numeric buttons.



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

Attention

- If an incorrect password is entered three times in succession, the message "The projector's operation will be locked." is displayed for approximately five minutes, and then the projector switches to standby mode. If this happens, disconnect the power plug from the electrical outlet and then reinsert it and turn the projector's power back on. The projector displays the password entry screen again so that you can enter the correct password.
- If you have forgotten the password, make a note of the "**Request Code**: xxxxx" number that appears on the screen and contact the nearest address provided in the Epson Projector Contact List.
  ☛ *Epson Projector Contact List*
- If you continue to repeat the above operation and enter the wrong password thirty times in succession, the following message is displayed and the projector does not accept any more password entries. "The projector's operation will be locked. Contact Epson as described in your documentation."
  ☛ *Epson Projector Contact List*

Restricting Operation (

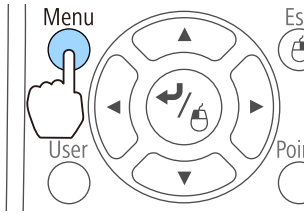
Perform one of the following to panel.

- Full Lock
  All of the buttons on the cont any operations from the contro off.
- Partial Lock
  All of the buttons on the contr are locked.

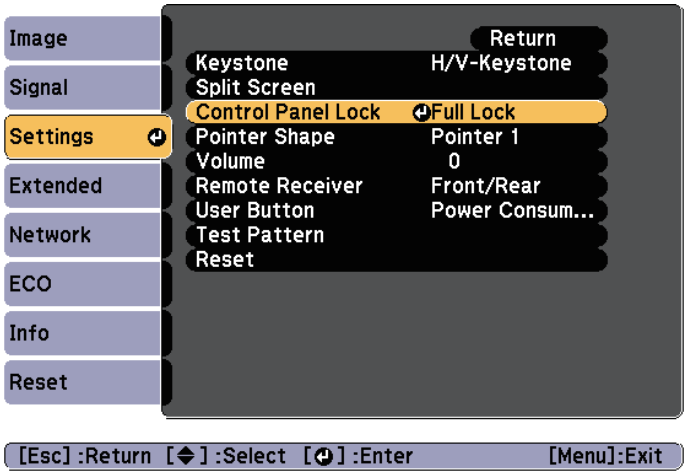
This is useful at events or shows during projection or at schools The projector can still be operat

1 Press the [Menu] button
☛ "Using the Configurat

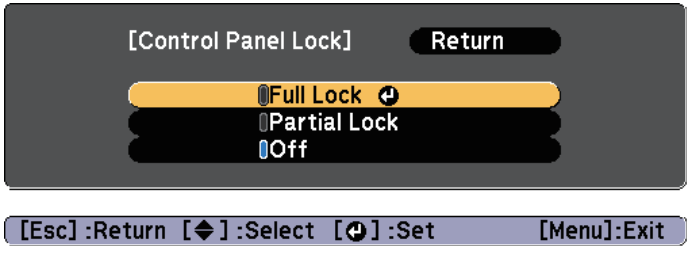
Using the remote contr



2 Select **Control Panel Loc**



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



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

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

You can release the two methods.

- Select **Off** from ☛ **Settings** - **C**
- Press and hold for about seven is released.

Anti-Theft Lock

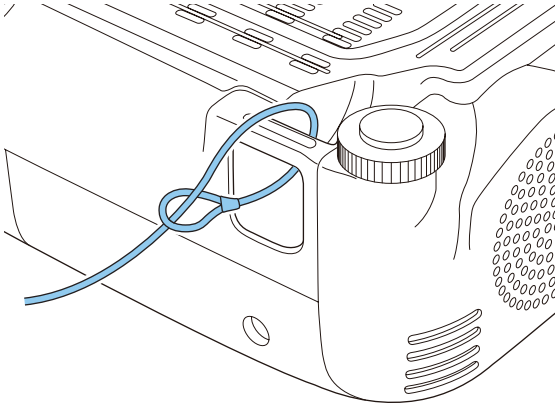
The projector is equipped with devices.

- Security slot
  The security slot is compatible manufactured by Kensington.
  See the following for more de
  ☛ http://www.kensington.com/
- Security cable installation poin
  A commercially available theft through the installation point

Installing the wire lock

Pass an anti-theft wire lock thro

See the documentation supplied



EasyMP Monitor

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

You can download EasyMP Monitor from the following Web site.

http://www.epson.com

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

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

Message Broadcasting

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

http://www.epson.com

Changing Settings Using a Web Browser (Web Control)

By using a Web browser of a computer connected to the projector on a network, you can make settings and control the projector. This function allows you to perform setup and since you can use the computer's the setup is easier.

Use Microsoft Internet Explorer 8 for OS X.

If you set **Standby Mode** Web browser to make se projector is in standby m

☛ **ECO** - **Standby Mod**

Projector setup

In a Web browser, you can set i Configuration menu. The setting There are also items that can o

Items in the Configuration menu that

- Settings Menu - Pointer Shape
- Settings Menu - Test Pattern
- Settings Menu - User Button
- Extended Menu - User's Logo
- Extended Menu - Language
- Reset Menu - Reset Lamp Ho

The settings for items on each Configuration menu.

☛ "Configuration Menu" p.78

Items that can only be set with a We

- SNMP Community Name (up
- Monitor Password (up to 16
- Add Port

• Port Number

Displaying the Web Control screen

Use the following procedure to display the Web Control screen.

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

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

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

   The Web Control screen is displayed.

   When Web Control Password is set from the Configuration menu, the password entry screen is displayed.
3. Enter the user ID and password.

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

   The initial password is "**admin**".

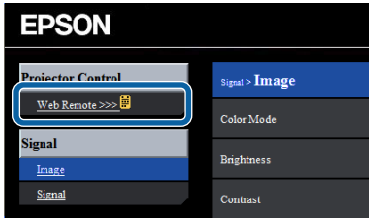
- Enter the user ID even if a password has not been set. You cannot change the user ID.
- You can change the password in Network menu from the Configuration menu.

☛ **Network - Basic - Web Control Password** p.89

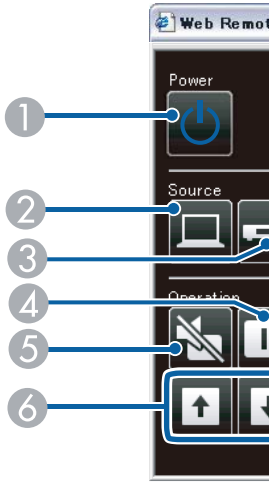
Displaying the Web Remote sc

The Web Remote function allows operations with a Web browser.

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



3. The Web Remote screen



	Name	
1	**Power button** [⏻]	Turns th ☛ "Fron

	Name	Function
②	**[Computer] button**	Changes to images from the Computer port.
③	**[Video] button**	Each time the button is pressed, the image cycles through the Video, S-Video, and HDMI/MHL ports.
④	**[Freeze] button**	Images are paused or unpaused. ☛ "Freezing the Image (Freeze)" p.58
⑤	**[A/V Mute] button**	Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.57
⑥	**[Page] buttons [🔼][🔽]**	Changes pages in files such as PowerPoint files when using the following projection methods. • When using the Wireless Mouse function ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.60 • When using USB Display ☛ "Projecting with USB Display" p.33 • During a network connection When projecting images or scenarios using PC Free, pressing these buttons displays the previous/next screen.
⑦	**[Source Search] button**	Changes to the next input source that is sending an image. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.32
⑧	**[LAN] button**	Changes to the image projected with EasyMP Network Projection. When projecting using the optional Quick Wireless Connection USB Key, this button switches to that image. ☛ "Switching to the Target Image by Remote Control" p.33
⑨	**[USB] button**	Each time the button is pressed, it cycles through the following images: • USB Display • Images from the device connected to the USB port ☛ "Switching to the Target Image by Remote Control" p.33

	Name	
⑩	**[Volume] buttons [🔉][🔊]**	[🔉] Decr [🔊] Incr ☛ "Adj
⑪	**[Display the QR Code] button**	Displays

Using the Mail Notifica Problems

When you set Mail Notification, email addresses when a problem will enable the operator to be no locations away from the projecto

☛ **Network** - **Mail** - **Mail Not**

- Up to a maximum of t be registered, and notif destinations at once.
- If a projector develops working, it may not be of the problem.
- If you set **Standby Mo** the projector even if it off).

  ☛ **ECO** - **Standby M**

Reading Error Notification Mai

When the Mail Notification funct occurs in the projector, the follo

Mail sender: Address for Address 1

Subject: EPSON Projector

Line 1: The projector name where the problem has occurred

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

Line 3 and on: Details of the problem

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

- Internal error
- Fan related error
- Sensor error
- Lamp cover is open
- Lamp timer failure
- Lamp out
- Internal temperature error
- High-speed cooling in progress
- Lamp replacement notification
- No-signal
  No Signal is input to the projector. Check the connection status or check that the power for the signal source is turned on.
- Auto Iris Error
- Power Err. (Ballast)

See the following to deal with problems or warnings.

☛ "Reading the Indicators" p.106

Management Using SN

By setting **SNMP** to **On** in the
are sent to the specified compute
will enable the operator to be no
locations away from the projecto

☛ **Network** - **Others** - **SNMP**

- SNMP should be mana
  who is familiar with th
- To use the SNMP func
  install the SNMP mana
- The SNMP Agent for
  (SNMPv1).
- The managing function
  LAN in Quick mode.
- Up to two destination

ESC/VP21 Commands

You can monitor and control th
Connect the device and the proje
communication commands (ESC

Before starting

To control and monitor the pro
following preparations must be

1 Install the USB communic
your computer. For inform

contact your local dealer or the nearest address provided in the Epson Projector Contact List.

☛ *Epson Projector Contact List*

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

☛ **Extended - USB Type B** p.85

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

Start from step 2 from the second time.

Command list

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

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

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

Item			Command
Power ON/OFF	On		PWR ON
	Off		PWR OFF
Signal selection	Computer	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	HDMI		SOURCE 30
	Video		SOURCE 41
	S-Video		SOURCE 42

Item	
	USB Display
	USB
	LAN
A/V Mute On/Off	On
	Off
A/V Mute selection	Black
	Blue
	Logo

Add a Carriage Return (CR) code transmit.

Communications protocol

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

About Event ID

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

☛ *Epson Projector Contact List*

Event ID	Cause	
0432 0435	Failed to startup EasyMP Network Projection.	Restart the projector.
0434 0481 0482 0485	Network communication is unstable.	Check the network communi while.
0433	Cannot play transferred images.	Restart EasyMP Network Pro
0484	Communication was disconnected from the computer.	
0483 04FE	EasyMP Network Projection ended unexpectedly.	Check the network communi
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 p
0892	The WPA/WPA2 authentication type does not match.	Check that the wireless LAN s
0893	The WEP/TKIP/AES encryption type does not match.	☛ **Security** p.91
0894	Communication was disconnected because the projector connected to an unauthorized access point.	Contact your network admini
0898	Failed to acquire DHCP.	Check that the DHCP server is turn off the DHCP setting. ☛ **Wireless LAN - IP Settin**
0899	Other communication errors	If restarting the projector or t problem, contact your local de Projector Contact List. ☛ *Epson Projector Contact L*

Configuration Menu

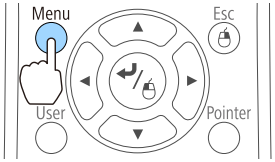
This chapter explains how to use the Configuration menu and its functions.

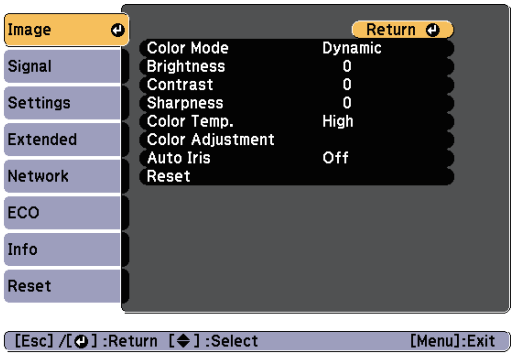
Using the Configuration Menu

This section explains how to use the Configuration menu.

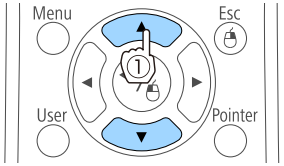
Although steps are explained using the remote control as an example, you can perform the same operations from the control panel. Check the guide under the menu for the available buttons and their operations.

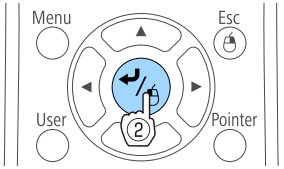
1 Display the Configuration menu screen.

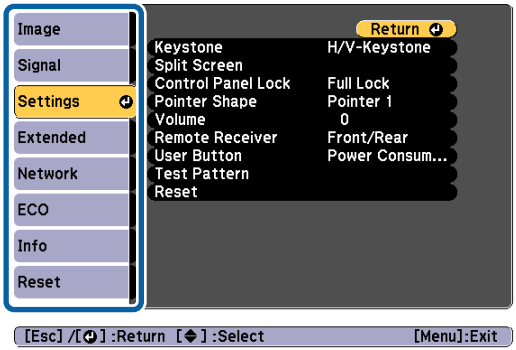




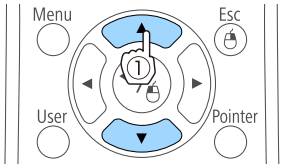
2 Select a top menu item.

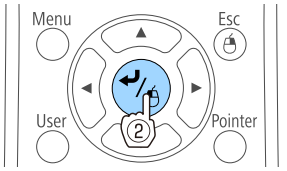




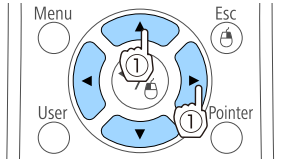


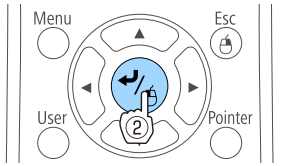
3 Select a submenu item.





4 Change settings.





5 Press the [Menu] button

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.82	Color Mode	Dynamic, Presentation, Theatre, Photo, Sports, sRGB, Blackboard, and Whiteboard
	Brightness	-24 to 24
	Contrast	-24 to 24
	Color Saturation	-32 to 32
	Tint	-32 to 32
	Sharpness	-5 to 5
	Color Temp.	High, Medium, and Low
	Color Adjustment	Red: -16 to 16 Green: -16 to 16 Blue: -16 to 16
	Auto Iris	Off, Normal, High Speed
Signal menu ☛ p.82	Auto Setup	On and Off
	Resolution	Auto, Wide, and Normal
	Tracking	-
	Sync.	0 to 31
	Position	Up, Down, Left, and Right
	Progressive	Off, Video, and Film/Auto
	Noise Reduction	Off, NR1, and NR2
	HDMI Video Range	Auto, Normal, and Expanded
	Input Signal	Auto, RGB, and Component

Top Menu Name	Submenu
	Video Signa
	Aspect
	Overscan
Settings menu ☛ p.84	Keystone
	Split Screen
	Control Par
	Pointer Sha
	Volume
	Remote Rec
	User Button
	Test Pattern
Extended menu ☛ p.85	Display
	User's Logo
	Projection
	Operation
	USB Type
	Projector ID
	Language
ECO menu ☛ p.94	Power Cons
	Light Optim

Top Menu Name	Submenu Name	Items or Setting Values
	Sleep Mode	On and Off
	Sleep Mode Timer	1 to 30
	Lens Cover Timer	On and Off
	A/V Mute Timer	On and Off
	Standby Mode	Communication On and Communication Off
	ECO Display	On and Off
Info menu ☛ p.95	Projector Info	Lamp Hours, Source, Input Signal, Resolution, Video Signal, Refresh Rate, Sync Info, Status, Serial Number, Event ID
	Version	-
Reset menu ☛ p.95	Reset All	-
	Reset Lamp Hours	-

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

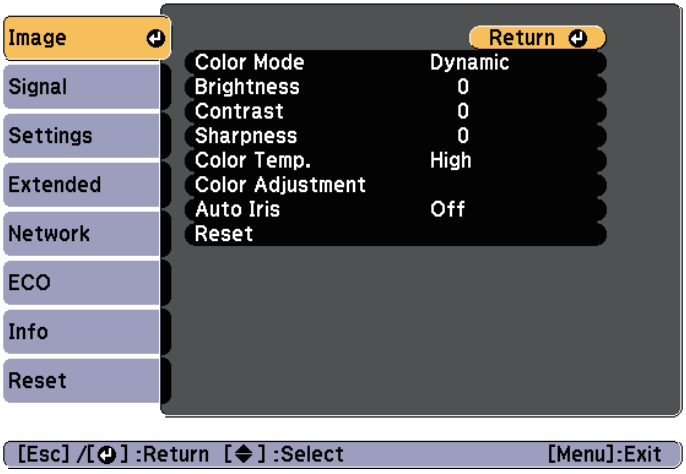
Network menu

Top Menu Name	Submenu Name	Setting Values
Basic menu ☛ p.89	Projector Name	-
	Web Control Password	-
	Projector Keyword	On and Off
	Display LAN Info.	Text & QR Code, Text
Wireless LAN menu ☛ p.89	Connection Mode	Quick, Advanced
	Channel	1ch, 6ch, 11ch
	SSID Auto Setting	On and Off
	SSID	-

Top Menu Name	Submenu
	Search Acces
	IP Settings
	SSID Display
	IP Address D
Security menu ☛ p.91	Security
	Passphrase
Mail menu ☛ p.92	Mail Notifica
	SMTP Server
	Port Numbe
	Address 1 Se dress 2 Settin dress 3 Settin
Others menu ☛ p.93	SNMP
	Trap IP Add Trap IP Add
	Bonjour
	Message Bro

Image Menu

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



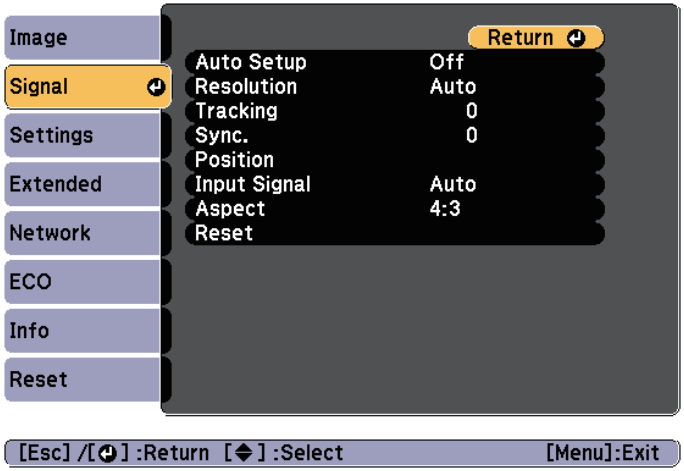
Submenu	Function
Color Mode	You can select the quality of the image to suit your surroundings. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.42
Brightness	You can adjust the image brightness.
Contrast	You can adjust the difference between light and dark in the images.
Color Saturation	You can adjust the color saturation for the images.
Tint	(Adjustment is possible when a component video signal is being input. If a composite video or S-video signal is input, adjustment is only possible when NTSC signals are being input.) You can adjust the image tint.
Sharpness	You can adjust the image sharpness.

Submenu	
Color Temp.	(This item cann Adjusts the tint from **High**, **Me** **High** is selected
Color Adjust-ment	(This item cann You can adjust individually.
Auto Iris	(This item can **Theatre**.) Set to **Normal** optimum light make faster iris The setting is st ☛ "Setting Au
Reset	You can reset al default settings. their default set ☛ "Reset Men

Signal Menu

Settable items vary depending o
being projected. Setting details a

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

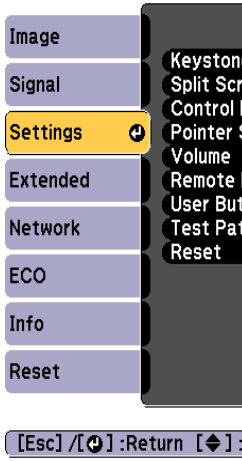


Submenu	Function
Auto Setup	Set to **On** to automatically adjust Tracking, Sync., and Position to the optimum state when the input signal changes.
Resolution	Set to **Auto** to automatically identify the resolution of the input signal. If images are not projected correctly when set to **Auto**, for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

Submenu	
Progressive	(When a compo setting can only interlaced signa digital RGB sig Interlace (i) s conversion) **Off**: Ideal for in **Video**: Ideal for **Film/Auto**: Thi animation.
Noise Reduction	(This cannot be projecting an in Smoothes out r favorite setting. viewing image s DVDs.
HDMI Video Range	When the proje player, set the p player's video ra
Input Signal	You can select i If set to **Auto**, t the connected e If colors do not appropriate sig
Video Signal	You can select th video signals ar appears in the i being projected according to th
Aspect	You can set the ☛ "Changing t

Submenu	Function
Overscan	Changes the output image ratio (the range of the projected image). You can set the cropping range to **Off**, **4%**, or **8%**. When the source is HDMI, **Auto** is available. When **Auto** is selected, it automatically changes to **Off** or **8%** according to the input signal.
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.95

Settings Menu

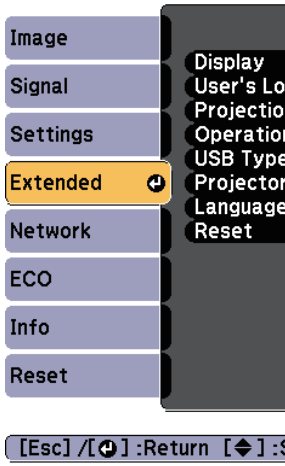


Submenu	
Keystone	You can correct • When **H/V-K** Adjust **V-Ke** and vertical You can also Keystone to • When **Quick** Select and co ☛ "Quick C
Split Screen	Switches to spli ☛ "Projecting p.47
Control Panel Lock	You can use thi panel. ☛ "Restricting

Submenu	Function
Pointer Shape	You can select the shape of the pointer. Pointer 1: Pointer 2: Pointer 3: ☛ "Pointer Function (Pointer)" p.58
Volume	You can adjust the volume. Setting values are saved for each source.
Remote Receiver	You can limit the reception of the operation signal from the remote control. When set to **Off**, you cannot perform any operations from the remote control. If you want to make operations from the remote control, hold down the [Menu] button on the remote control for at least 15 seconds to reset the setting to its default value.
User Button	You can select and assign an item from the Configuration menu with the remote control's [User] button. Pressing the [User] button directly displays the assigned menu item selection/ adjustment screen, allowing you to make one-touch changes to settings/adjustments. You can assign one of the following items to the [User] button. **Power Consumption**, **Info**, **Progressive**, **Test Pattern**, **Resolution**, **Display the QR Code**
Test Pattern	You can display a test pattern to adjust the projection without connecting other equipment when you set up the projector. While the test pattern is displayed, zoom, focus adjustments, and keystone correction can be performed. To cancel the test pattern, press the [Esc] button on the remote control or the control panel. **Attention** If a pattern is displayed for a long time, a residual image may be visible in projected images.

Submenu	
Reset	You can reset al default settings, See the followin settings. ☛ "Reset Men

Extended Menu



List of Functions

Submenu	Function
Display	You can make settings related to the projector's display. **Messages**: When set to **Off**, the following items will not be displayed. Item names when the Source, Color Mode, or Aspect Ratio is changed, messages when no signal is being input, and warnings such as High Temp Warning. **Display Background***1: You can set the screen background to **Black**, **Blue**, or **Logo** when no image signal is available. **Startup Screen***1: Set to **On** to display the **User's Logo** when projection starts. **A/V Mute***1: You can set the screen displayed when the remote control's [A/V Mute] button is pressed to **Black**, **Blue**, or **Logo**.
User's Logo*1	You can change the user's logo that is displayed as a background during Display Background, A/V Mute, and so on. ☛ "Saving a User's Logo" p.64
Projection	Select from one of the following projection methods depending on how the projector is installed. **Front**, **Front/Ceiling**, **Rear**, and **Rear/Ceiling** You can change the setting as follows by pressing down the [A/V Mute] button on the remote control for about five seconds. **Front↔Front/Ceiling** **Rear↔Rear/Ceiling** ☛ "Installation Methods" p.21

Submenu	
Operation	**Direct Power** simply by plug When the pow turns on autor being restored. **High Altitude** above an altitu **Startup Source** the port curre starts. Set to **O** the last time t **Auto Power O** to **Communica** projector recei when it is in
USB Type B	**USB Display**: ☛ "Projecting **Link 21L**: Ena ☛ "ESC/VP21
Projector ID	When you wa control operati **Off** indicates t ☛ "Setting th
Language	You can set t
Reset	You can reset **Operation***2 fr settings. See the followi settings. ☛ "Reset Me

*1 When **User's Logo Protect** is se
to user's logo cannot be change
Logo Protect to **Off**.

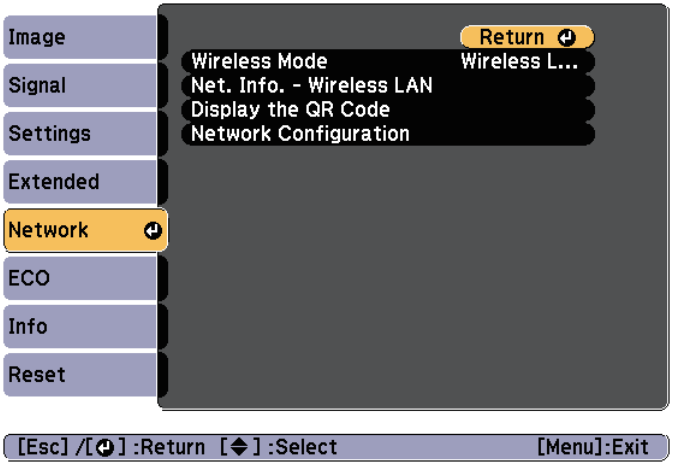
☛ "Managing Users (Password Protect)" p.67

*2 Except for High Altitude Mode and Startup Source Search.

Network Menu

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

☛ "Setting Password Protect" p.67



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

Submenu	
Net. Info. - Wireless LAN	Displays the f • Connection • Wireless LA • Antenna Lev • Projector Na • SSID • DHCP • IP Address • Subnet Mask • Gateway Ad • MAC Addre • Region Code
Display the QR Code	Displays the Q
Network Configuration	The following items. **Basic**, **Wireles** **Setup complet**

* Displays available region inform
For more details, contact your l
the Epson Projector Contact Li

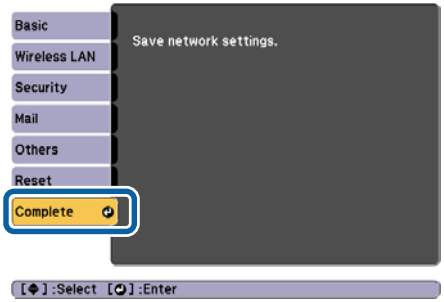
☛ *Epson Projector Contact List*

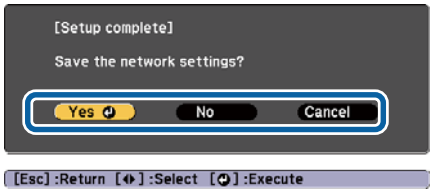
- By using a Web browse on a network, you can function is called Web keyboard to make settin
  ☛ "Changing Settings p.72
- Contact your network a

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. Press the [▲][▼][◀][▶] buttons on the remote control or the [⏢][⏢] [◁][◁)] buttons on the control panel. Use the 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 se
  sets and changes between upp
- Each time the **SYM1/2** key is s
  sets and changes the symbol k

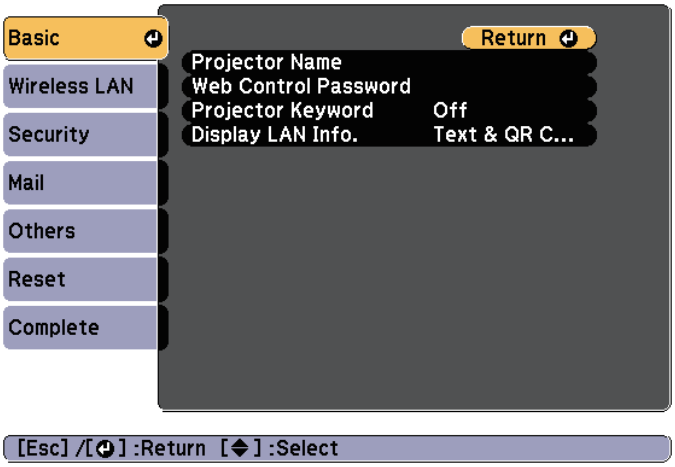
The following text can be entere

Numbers	0123456789
Alphabet	ABCDEFGHI abcdefghijklm
Symbols	! # $ % & '

- Except for the **SSID**, c
  Network menu.
- Some symbols (" * , ;
  keyboard. Use your We

☛ "Changing Settings U

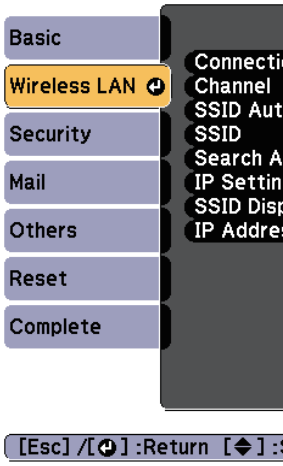
Basic menu



Submenu	Function
Projector Name	Displays the projector name used to identify the projector when connected to a network. When editing, you can enter up to 16 single-byte alphanumeric characters. The following characters cannot be used: " * + , / ; < = > ?[\ ] ` |
Web Control Password	Set a password to use when making settings and controlling the projector using Web Control. You can enter up to eight single-byte alphanumeric characters (* cannot be used). Web Control is a computer function that allows you to set up and control the projector by using the Web browser on a computer connected on a network. ☛ "Changing Settings Using a Web Browser (Web Control)" p.72
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**.

Submenu	
Display LAN Info.	Set the display f When a QR cod simply reading value is **Text &** ☛ "Projecting

Wireless LAN menu



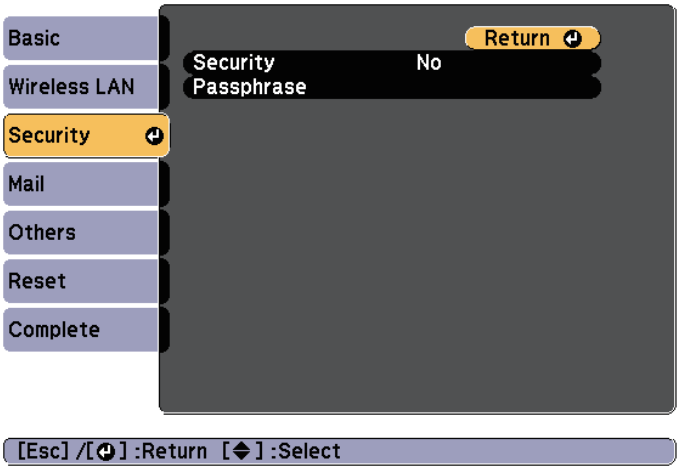
Submenu	
Connection Mode	Set the connect and a computer If you select **Qu** the projector ar Projection. If **SS** becomes an eas created in Ad h If you select **Ad** Infrastructure n

Submenu	Function
Channel	(This can only be set if **Connection Mode** is set to **Quick**.) Select the frequency band used by the wireless LAN from **1ch**, **6ch**, or **11ch**. The default value is **11ch**.
SSID Auto Setting	(This can only be set if **Connection Mode** is set to **Quick**.) When you set this to **On**, you can search for the projector more quickly from among multiple projectors. SSID is set automatically. When connecting to multiple projectors from one computer in Quick mode, set this to **Off**, and set the same SSID in all the projectors that will connect.
SSID	(This item can only be set when **SSID Auto Setting** is set to **Off**.) Enter an SSID. When an SSID is provided for the wireless LAN system in which the projector participates, enter the SSID. You can enter up to 32 single-byte alphanumeric characters (: ^ can only be entered from the Web browser).
Search Access Point	(This item can be set only if **Wireless Power** is set to **Wireless LAN On**, and **Connection Mode** is set to **Advanced**.) The projector searches for a local access point. This allows you to perform wireless LAN setup by simply selecting the connection location of the wireless LAN.

Submenu	
IP Settings	(This item can **Advanced**.) You can make **DHCP**: Set to **O** is set to **On**, yo **IP Address**: Yo projector. You the address. Ho 0.0.0.0, 127.x.x. number from 0 **Subnet Mask**: Y You can enter a However, the fo 0.0.0.0, 255.255 **Gateway Addr** for the projecto field of the addr cannot be used. 0.0.0.0, 127.x.x. number from 0
SSID Display	To prevent the S screen, set this
IP Address Display	To prevent the Standby screen,

Security menu

Available when the Wireless LAN unit is installed.



Submenu	Function
Security	Select the security type from the items that are displayed. When setting up Security, follow the instructions from the administrator of the network system you are about to access.

Submenu	
Passphrase	Enter the passp byte alphanume When using it need to input th (default) passph In the interests passphrase peri returns to the i ☛ "Reset menu You can enter u When entering to enter the text ☛ "Changing p.72 In Quick mode,

Type of security

When the Wireless LAN unit is
you set security.

WPA is an encryption standard
networks. The projector support

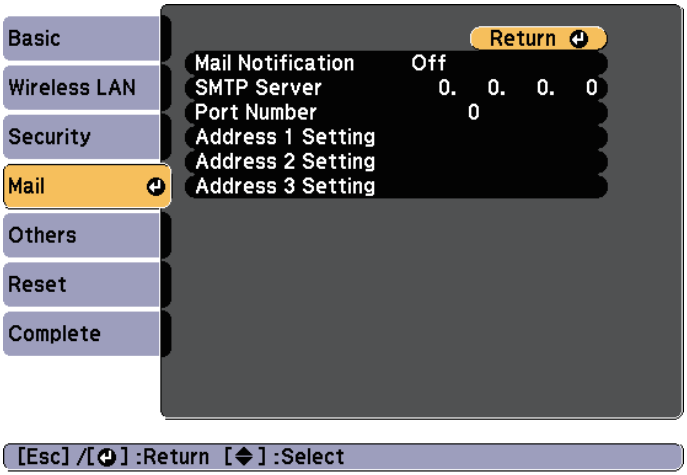
WPA also includes user authent
provides two methods: using an
between a computer and an acc
projector supports the latter met

For setting details, follow
administrator of your net

Mail menu

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

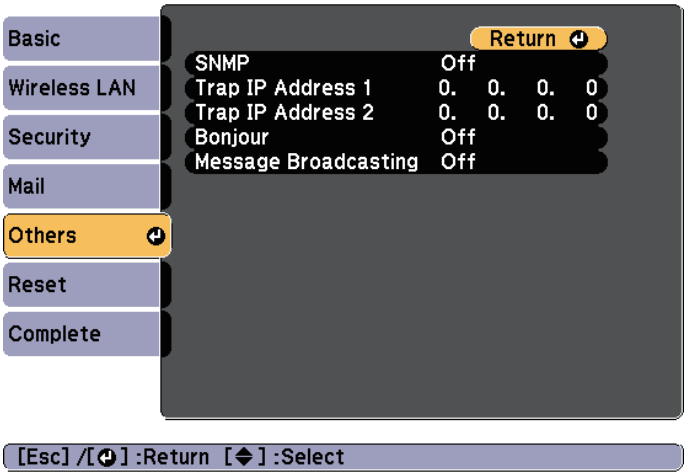
☛ "Using the Mail Notification Function to Report Problems" p.74



Submenu	Function
Mail Notification	Set to **On** to send an email to the preset addresses when a problem or warning occurs with a projector.
SMTP Server	You can input the IP address for the SMTP server for the projector. You can enter a number from 0 to 255 in each field of the address. However, the following IP addresses cannot be used. 127.x.x.x, 224.0.0.0 to 255.255.255.255 (where x is a number from 0 to 255)
Port Number	You can input the port number for the SMTP server. The default value is 25. You can input numbers between 1 to 65535.

Submenu	
Address 1 Setting/Address 2 Setting/Address 3 Setting	You can input t notification em You can enter u the email addres < > [\ ] You can select t email. When th projector, an er notifying that a multiple items f

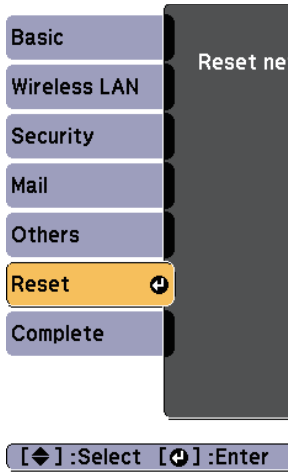
Others menu



Submenu	Function
SNMP	Set to **On** to monitor the projector using SNMP. To monitor the projector, you need to install the SNMP manager program on your computer. SNMP should be managed by a network administrator. The default value is **Off**.
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)
Bonjour	Set this to **On** when connecting to the network using Bonjour. See Apple's Web site for more information on the Bonjour service. ☛ http://www.apple.com/
Message Broadcasting	You can switch the EPSON Message Broadcasting function to enable or disable.

Reset menu

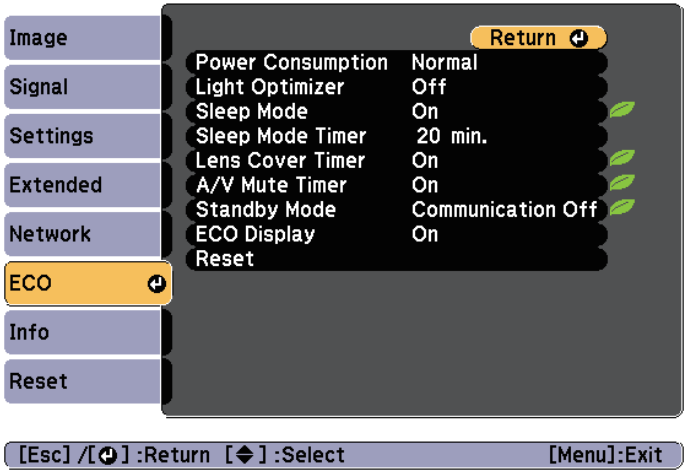
Resets all of the network setting



Submenu	
Reset network settings.	To reset all of th

ECO Menu

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



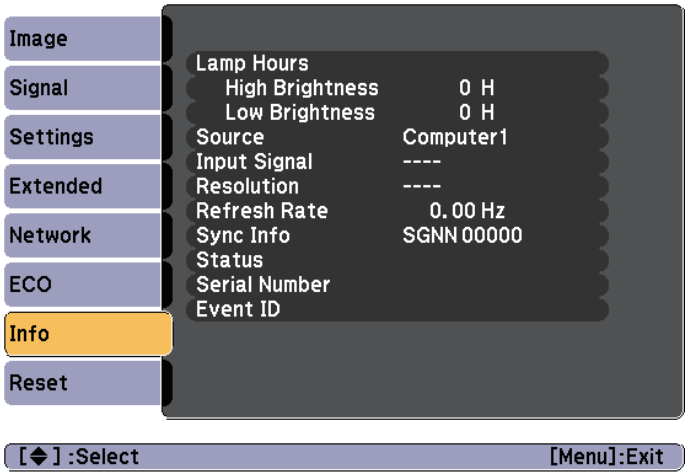
Submenu	Function
Power Consumption	You can set the lamp brightness to one of two settings. Select **ECO** if the images being projected are too bright, such as when projecting images in a dark room or onto a small screen. When **ECO** is selected, power consumption during projection decreases, and fan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

Submenu	
Sleep Mode	When set to **On** image signal is b specified length approximately off. When an in normal operati
Sleep Mode Timer	When **Sleep Mo** projector auton minutes.
Lens Cover Timer	When set to **On** minutes after th closed for appro power turns off returns to norm
A/V Mute Timer	When set to **On** minutes after A the lamp dims disabled, the pr
Standby Mode	When set to **Co** the projector fro mode. ☛ "Monitorin
ECO Display	When set to **On** to low or low to left of the proje
Reset	You can reset a default settings their default set ☛ "Reset Men

Info Menu (Display Only)

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

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.32

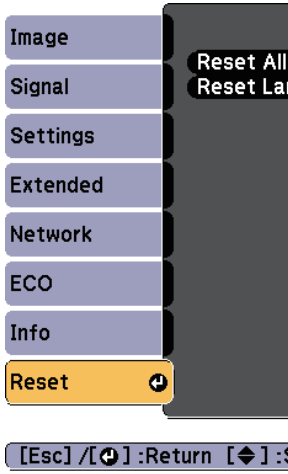


Submenu	Function
Projector Info	You can display the following information. • Lamp Hours* • Source • Input Signal • Resolution • Video Signal • Refresh Rate • Sync Info • Status • Serial Number • Event ID

Submenu	
Version	Displays the p

* The cumulative use time is disp and above is displayed as "10H

Reset Menu



Submenu	
Reset All	You can reset al settings. The following it **User's Logo**, **La** and all items or
Reset Lamp Hours	Clears the cumu replace the lam

Performing Batch Setup for Multiple Projectors

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.

This manual explains the USB flash drive and the USB cable methods.

- The following content is not reflected by the batch setup function.
  - Settings in the Network menu (except for the Mail menu and the Others menu)
  - Lamp Hours and status from the Info menu
- Perform batch setup before adjusting the projected image. Adjustment values for the projected image, such as H/V-Keystone 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 Flas

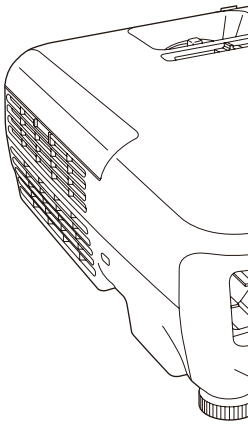
This section explains how to per

- Use a FAT format USI
- The batch setup functio incorporate security fun incorporate security fun
- The batch setup functio USB hard disks.

Saving settings to the USB fla

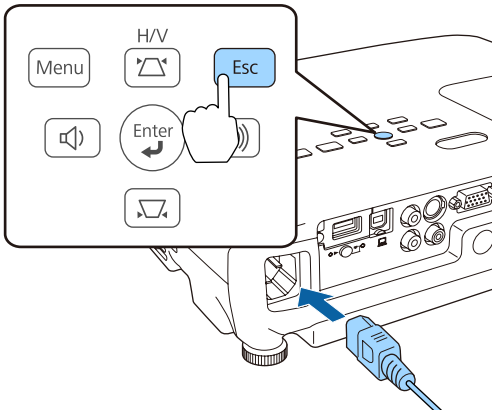
1 Disconnect the power co of the projector's indicat

2 Connect the USB flash d

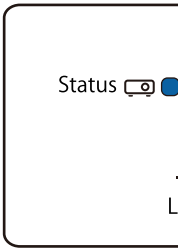


- Connect the USB flash drive directly to the projector. If the USB flash drive is connected to the projector through a USB hub, the settings may not be saved correctly.
- Connect an empty USB flash drive. If the USB flash drive contains data other than the batch setup file, the settings may not be saved 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 PJCONFDATA section of the file name, 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 indic
button.



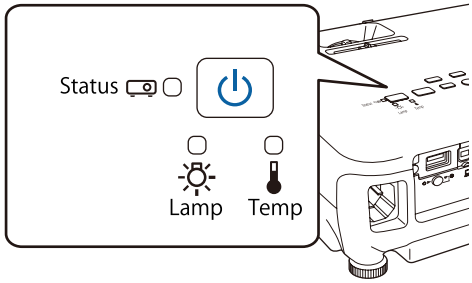
Power: Blue - On / Status: Blue - O

When all of the indicators
written.

Caution

- Do not disconnect the po
being written. If the powe
start correctly.
- Do not disconnect the U
file is being written. If th
projector may not start c

When writing completes normally, the projector enters standby status.



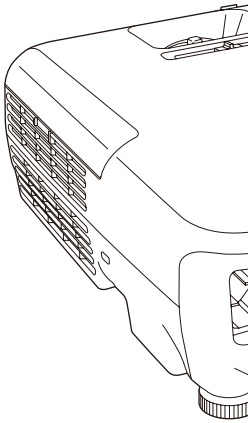
Power: Blue - On

When the projector is in standby status, remove the USB flash drive.

Reflecting saved settings to other projectors

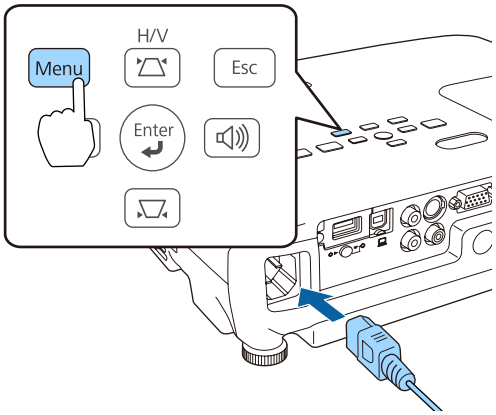
1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.

2. Connect the USB flash drive containing the saved batch setup file to the projector's USB-A port.

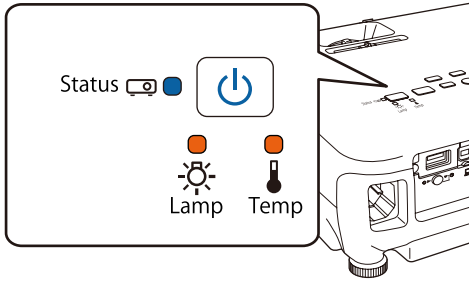


- When the USB f
setup files, the fil
model number. I
the same model
correctly.
- When there are f
USB flash drive,
- Do not store any
USB flash drive.
than the batch s
correctly.

3 While holding down the [Menu] 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 [Menu] button.



Power: Blue - On / Status: Blue - On / Lamp: Orange - On / Temp: Orange - On

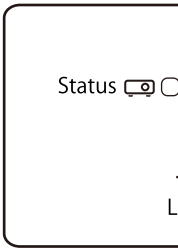
The indicators remain on for about 75 seconds.

When all of the indicators start flashing, the settings are being written.

Caution

- Do not disconnect the p settings are being written projector may not start c
- Do not disconnect the U settings are being written projector may not start c

4 When writing completes status.



Pow

When the projector is in drive.

Setup by Connecting th with a USB Cable

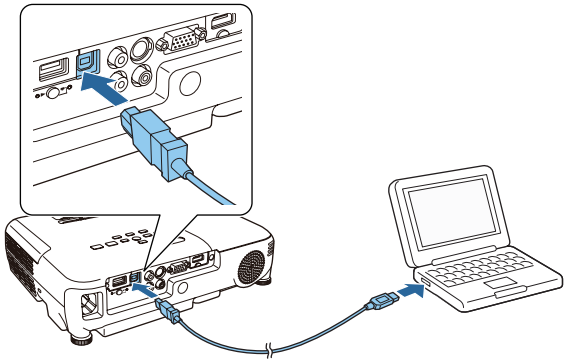
The following operating s

- Windows Vista or later
- Mac OS X 10.5.3 or la

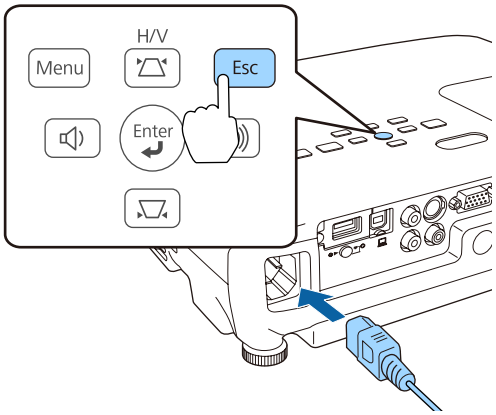
Saving settings to a computer

1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.

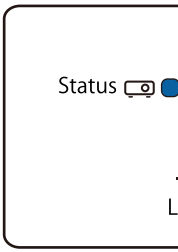
2. Connect the computer's USB port to the projector's USB-B port with a USB cable.



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 indic
button.



Power: Blue - On / Status: Blue - O

The projector is recognize

4. Open the removable disk (PJCONFDATA.bin) to the

If you need to char
after PJCONFDATA
of the file name, th
file correctly.

5. Perform "Remove USB de disconnect the USB cable

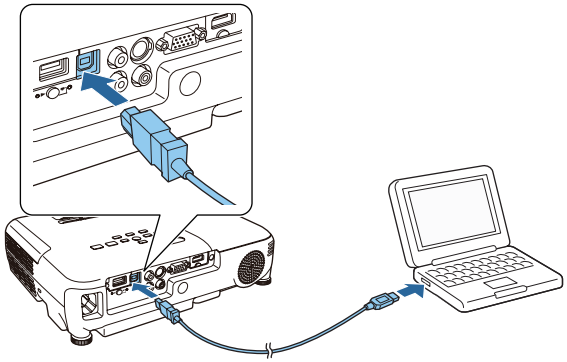
When using OS X

The projector enters stand

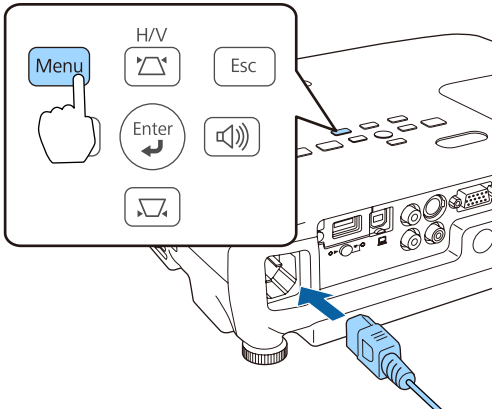
Reflecting saved settings to other projectors

1. Disconnect the power cord from the projector, and check that all of the projector's indicators have turned off.

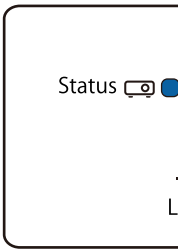
2. Connect the computer's USB port to the projector's USB-B port with a USB cable.



3. While holding down the [Menu] button on the remote control or the control panel, connect the power cord to the projector.



When the projector's indi
the [Menu] button.



Power: Blue - On / Status: Blue - O

The projector is recognize

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".

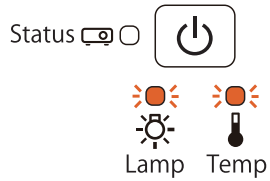
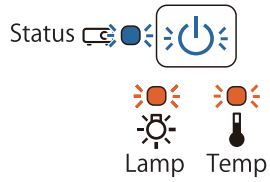
When all of the indicators start flashing, the settings are being written.

> **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 indicators.

Status of the Indicators	
 Lamp: Orange - flashing fast Temp: Orange - flashing fast	T fl co U p
 Power: Blue - flashing fast Status: Blue - flashing fast Lamp: Orange - flashing fast Temp: Orange - flashing fast	W m St fr d P

Troubleshooting

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

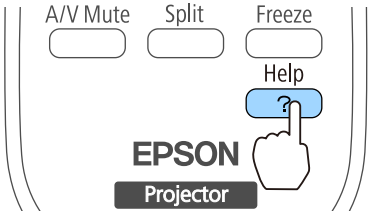
Using the Help

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

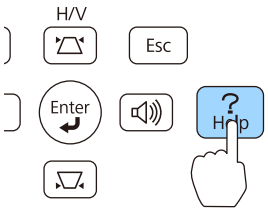
1 Press the [Help] button.

The Help screen is displayed.

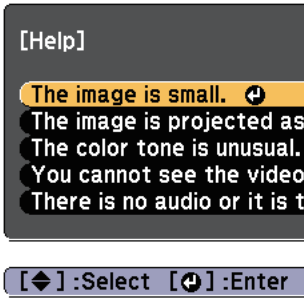
Using the remote control



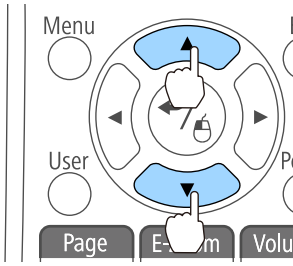
Using the control panel



2 Select a menu item.

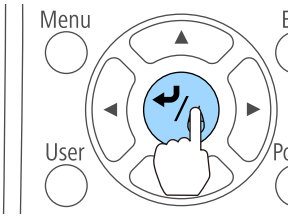


Using the remote contr



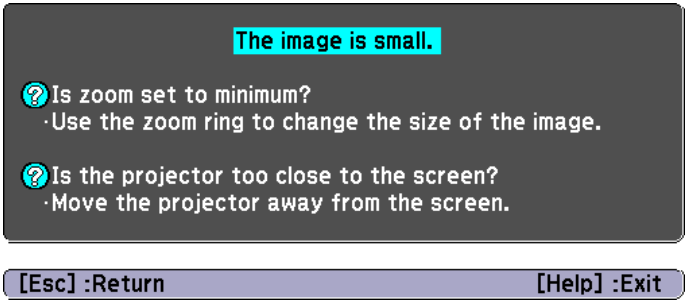
3 Confirm the selection.

Using the remote contr



Questions and solutions ar

Press the [Help] button t



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

☛ "Problem Solving" p.106

Problem Solving

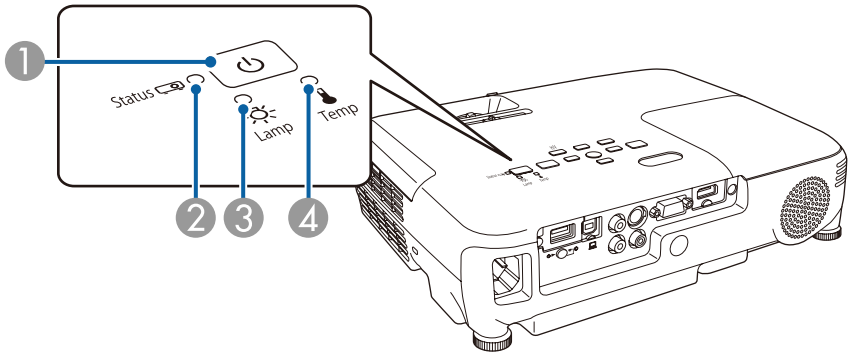
If you are having a problem with the projector, first check the projector's indicators and refer to "Reading the I

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

☛ "When the Indicators Provide No Help" p.110

Reading the Indicators

The projector is provided with the following four indicators. The color and lit status of the indicators shows the



1	Power indicator	Indicates the projector's status.
2	Status indicator	Indicates the projector's status.
3	Lamp indicator	Indicates the projection lamp status.
4	Temp indicator	Indicates the internal temperature status.

Indicators		Status	Explanation
Power supply	Status		
Blue - Lit	Off	Standby condition	Power is being supplied to the projector. When the [⏻] pow starts.
		Network monitoring status	The projector is being monitored and controlled over a ne **Communication On**). If the power cord is disconnected a flashes blue.
Blue - Lit	Blue - Flashing	Warm-up status	This is the status immediately after turning on the projector. the lamp turns on. In this status you cannot turn off the pr

Indicators		Status	Explanation
Power supply	Status		
Blue - Lit	Blue - Flashing	Cool down status	This is the status immediately after turning off the projecto
Blue - Lit	Blue - Lit	Normal status	The projector is projecting.

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

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

Sometimes, when the power cord is unplugged, the [⏻] power indicator remains lit for a short period, but this

Indicators				Cause	Remedy or
Power sup-ply	Status	Lamp	Tempera-ture		
Off	Blue - Flash-ing	Orange - Flashing	Off	Internal Error	Stop using the projector, remove the power plug fr dealer or the nearest address provided in the Epson ☛ *Epson Projector Contact List*
Off	Blue - Flash-ing	Off	Orange - Flashing	Fan Error Sensor Error	Stop using the projector, remove the power plug fr dealer or the nearest address provided in the Epson ☛ *Epson Projector Contact List*
Off	Blue - Flash-ing	Off	Orange - Lit	High Temp Error (Overheating)	The lamp turns off automatically and projection sto minutes the projector switches to standby mode, sc • Check that the air filter and air exhaust vent are c against a wall. • If the air filter is clogged, clean or replace it. ☛ "Cleaning the Air Filter" p.121, "Replacing If the error continues after checking the points abo plug from the electrical outlet, and contact your loc Epson Projector Contact List. ☛ *Epson Projector Contact List*
					When using at an altitude of 1500 m or more, set H ☛ "Extended Menu" p.85

Indicators				Cause	Remedy or
Power supply	Status	Lamp	Temperature		
Off	Blue - Flashing	Orange - Lit	Off	Lamp Error Lamp Failure	Check the following two points. • Take out the lamp and check if it is cracked. ☛ "Replacing the Lamp" p.123 • Clean the air filter. ☛ "Cleaning the Air Filter" p.121
					If the lamp is not cracked: Reinstall the lamp and **If the error continues**: Stop using the projector, rem contact your local dealer or the nearest address pro ☛ *Epson Projector Contact List*
					If the lamp is cracked: Contact your local dealer o Projector Contact List. (Images cannot be projecte ☛ *Epson Projector Contact List*
					When using at an altitude of 1500 m or more, set **H** ☛ "Extended Menu" p.85
				Lamp Cover Open	Check that the lamp and the lamp cover are securel The lamp does not turn on if the lamp and the lam ☛ "Replacing the Lamp" p.123
Off	Blue - Flashing	Orange - Flashing	Orange - Flashing	Auto Iris Error	Stop using the projector, remove the power plug fr dealer or the nearest address provided in the Epson ☛ *Epson Projector Contact List*
Off	Blue - Flashing	Orange - Lit	Orange - Lit	Power Err.	
Blue - Flashing	State dependant indication	State dependant indication	Orange - Flashing	High Temp Warning	(This is not an abnormality. However, if the tempe automatically.) • Check that the air filter and air exhaust vent are against a wall. • If the air filter is clogged, clean or replace it. ☛ "Cleaning the Air Filter" p.121, "Replacing

Indicators				Cause	Remedy or
Power supply	Status	Lamp	Temperature		
Blue - Flashing	State dependant indication	Orange - Flashing	State dependant indication	Replace Lamp	Replace it with a new lamp. ☛ "Replacing the Lamp" p.123 If you continue to use the lamp after the replacemen may explode increases. Replace it with a new lamp

- See the following if the projector is not operating properly, even though the indicators are all showing normal.
  ☛ "When the Indicators Provide No Help" p.110
- If the indicators are in a state not shown in this table, stop using the projector, remove the power plug from the elec
  the nearest address provided in the Epson Projector Contact List.
  ☛ *Epson Projector Contact List*

When the Indicators Provide No Help

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

Problems Relating to Images

• **No images appear** Projection does not start, the projection area is completely black, or the projection area is completely blue.	☛ p.111
• **Moving images are not displayed** Moving images being projected from a computer appear black and nothing is projected, or no moving images are played back on the computer.	☛ p.112
• **Projection stops automatically**	☛ p.112
• **The message "Not supported" is displayed**	☛ p.112
• **The message "No Signal" is displayed**	☛ p.113
• **Images are fuzzy, out of focus, or distorted**	☛ p.113
• **Interference or distortion appear in images**	☛ p.114
• **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.115
• **Image colors are not right** The whole image appears purplish or greenish, images are black & white, or colors appear dull.	☛ p.115
• **Images appear dark**	☛ p.116

Problems when projection starts

• **The projector does not turn on**	☛ p.117

Other Problems

• **No sound can be heard or the sou**
• **There is noise in the audio (only v**
• **The remote control does not work**
• **I want to change the language for**
• **Mail is not received even if a prob**
• **Cannot change settings using a W**

Problems Relating to Images

No images appear

Check	Remedy
Did you press the [⏻] power button?	Press the [⏻] power button to turn the power on.
Are the indicators switched off?	The power cord is not connected correctly or power is not being supp Connect the projector's power cord correctly. ☛ "From Installation to Projection" p.31 Check that your electrical outlet or power source is functioning corre
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mu ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.57
Is the A/V mute slide closed?	No images are displayed if the lens cover is closed even a little. Open t ☛ "Front/Top" p.11
Are the Configuration menu settings correct?	Reset all of the settings. ☛ **Reset** - **Reset All** p.95 When using USB Display, set **USB Type B** to **USB Display**. ☛ **Extended** - **USB Type B** p.85
Is the image to be projected completely black? (Only when projecting computer images)	Some input images, such as screen savers, may be completely black.
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipme ☛ **Signal** - **Video Signal** p.82
Is the USB cable connected correctly? (Only when projecting USB Display)	Check that the USB cable is connected correctly. Reconnect it if it is n
Is Windows Media Center displayed in full screen? (Only when projecting using USB Display or network connection)	When Windows Media Center is displayed at full screen, you cannot pr Reduce the screen size.
Is an application using the Windows DirectX function displayed? (Only when projecting using USB Display or network connection)	Applications using the Windows DirectX function may not display im

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. Ch 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 i For more details, see the user's guide supplied with the player.

Projection stops automatically

Check	Remedy
Are **Sleep Mode**, **Lens Cover Timer**, or **A/V Mute Timer** set to **On**?	If any of these are set to **On**, the power turns off automatically in the f • When **Sleep Mode** is set to **On**: If no operations are performed for a being input. • When **Lens Cover Timer** is set to **On**: If approximately 30 minutes • When **A/V Mute Timer** is set to **On**: If approximately 30 minutes h To prevent the projector from switching off automatically, make sure ☛ "ECO Menu" p.94
Is the computer in power-saving mode?	If the computer is in power-saving mode and no operations are perform disappear. Perform an operation on the computer to display the imag

The message "Not supported" is displayed

Check	Remedy
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipme ☛ **Signal** - **Video Signal** p.82
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 si the computer. ☛ "Supported Monitor Displays" p.132

The message "No Signal" is displayed

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connecte ☛ "From Installation to Projection" p.31
Is the correct port selected?	Change the image by pressing the [Source Search] button on the remo ☛ "Automatically Detect Input Signals and Change the Projected Im
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 mon change the output to an external destination as well as the computer's d the image signals are output externally, they no longer appear on the l If the connection is made while the power of the projector or computer that changes the computer's image signal to external output may not w projector off and then back on again. ☛ "From Installation to Projection" p.31 ☛ Computer's documentation
Is the computer in power-saving mode?	If the computer is in power-saving mode and no operations are perform disappear. Perform an operation on the computer to display the imag

Images are fuzzy, out of focus, or distorted

Check	Remedy
Is **Auto V-Keystone** set to **Off**?	Setting it to **On** enables Auto V-Keystone. ☛ **Settings** - **Keystone** - **H/V-Keystone** - **Auto V-Keystone** p.84 If you are using the projector with this setting off, manually adjust the ☛ "Correcting manually" p.38
Is the focus adjusted correctly?	Turn the focus ring to adjust the focus. ☛ "Correcting the Focus" p.42
Is the projector at the correct distance?	Is it projecting outside of the recommended projection distance range Setup within the recommended range. ☛ "Screen Size and Projection Distance" p.130

Check	Remedy
Is the Keystone adjustment value too large?	Lower the projection angle to reduce the amount of Keystone correcti ☛ "Adjusting the Image Position" p.41
Has condensation formed on the lens?	If the projector is suddenly taken from a cold environment to a warm changes occur, condensation may form on the surface of the lens, and t projector up in the room about one hour before it is used. If condensat wait for the condensation to disappear.

Interference or distortion appear in images

Check	Remedy
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipme ☛ **Signal** - **Video Signal** p.82
Are the cables connected correctly?	Check that all the cables required for projection are securely connecte ☛ "Connecting Equipment" p.23
Is an extension cable being used?	If an extension cable is used, electrical interference may affect the signa 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 ☛ "Supported Monitor Displays" p.132 ☛ 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 If the images are not adjusted correctly even after performing automa from the Configuration menu. ☛ **Signal** - **Tracking**, **Sync.** p.82
Is **Transfer layered window** selected? (Only when projecting USB Display)	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson** **Transfer layered window** check box.
The mouse cursor flickers (only when projecting USB Display)	Is **Make the movement of the mouse pointer smooth.** selected? Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epso** **Make the movement of the mouse pointer smooth.**(This is not avail For Windows Vista/7, Windows Aero is disabled when this is selected

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

Check	Remedy
Is a wide panel computer image being projected? (Only when projecting computer images)	Change the setting according to the signal for the connected equipme ☛ **Signal** - **Resolution** p.82
Is the image still being enlarged by E-Zoom?	Press the [Esc] button on the remote control to cancel E-Zoom. ☛ "Enlarging Part of the Image (E-Zoom)" p.59
Is the image position adjusted correctly?	Press the [Auto] button on the remote control or the [↵] button on You can only adjust the display position from the Configuration men ☛ **Signal** - **Position** p.82
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 C computer screen is projected. To display the entire image on the com ☛ 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 ☛ "Supported Monitor Displays" p.132 ☛ Computer's documentation
Is the projection mode correct?	Depending on how the projector is installed, set the projection mode f **Rear**, **Rear/Ceiling**. ☛ **Extended** - **Projection** p.85 ☛ "Installation Methods" p.21

Image colors are not right

Check	Remedy
Do the input signal settings match the signals from the connected device?	Change the following settings according to the signal for the connecte • When the image is from a device connected to the Computer port ☛ **Signal** - **Input Signal** p.82 • When the image is from a device connected to the Video or S-Video ☛ **Signal** - **Video Signal** p.82
Is the image brightness adjusted correctly?	Adjust the **Brightness** setting from the Configuration menu. ☛ **Image** - **Brightness** p.82

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connecte Check that no cables are disconnected and that there are no poor cont ☛ "Connecting Equipment" p.23
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.82
Is the color adjustment set correctly?	Adjust the **Color Adjustment** setting from the Configuration menu. ☛ **Image** - **Color Adjustment** p.82
Are the color saturation and tint adjusted correctly? (Only when projecting images from a video source)	Adjust the **Color Saturation** and **Tint** settings from the Configuratio ☛ **Image** - **Color Saturation**, **Tint** p.82

Images appear dark

Check	Remedy
Is the image brightness set correctly?	Adjust the **Brightness** and **Power Consumption** settings from the Co ☛ **Image** - **Brightness** p.82 ☛ **ECO** - **Power Consumption** p.94
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.82
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images become dar this happens, replace the lamp with a new lamp. ☛ "Replacing the Lamp" p.123
Are you using the projector at a high altitude or in a location subject to high temperatures?	The screen may become dark when using at high altitude or in a locat cannot make **Power Consumption** settings at this time, you can conti
Is it projecting outside of the recommended projection distance range?	The image becomes darker if the projection distance is too large. Setu ☛ "Screen Size and Projection Distance" p.130

Problems when Projection Starts

The projector does not turn on

Check	Remedy
Did you press the [⏻] power button?	Press the [⏻] power button to turn the power on.
Are the indicators switched off?	The power cord is not connected correctly or power is not being fully Disconnect and then reconnect the power cord. ☛ "From Installation to Projection" p.31 Check that your electrical outlet or power source is functioning corre
Do the indicators turn on and off when the power cord is touched?	There is probably a poor contact in the power cord, or the power cord r does not solve the problem, stop using the projector, disconnect the po your local dealer or the nearest address provided in the Epson Project ☛ *Epson Projector Contact List*
Is the **Control Panel Lock** set to **Full Lock**?	Press the [⏻] power button on the remote control. If you do not want t **Off**. ☛ **Settings** - **Control Panel Lock** p.84
Is remote control operation restricted?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.84

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 cab
Is the volume for the projector or the connected equipment set to the minimum?	Adjust the volume so that sound can be heard. ☛ **Settings** - **Volume** p.84 ☛ "Adjusting the Volume" p.42

Check	Remedy
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mu ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.57
Is the audio cable's specification "No resistance"?	When using a commercially available audio cable, make sure it is labe
Is it connected with an HDMI cable?	If no audio is output when connecting via an HDMI cable, set the con
Is **Output audio from the projector** selected? (Only when projecting USB Display)	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epso** **Output audio from the projector**.

There is noise in the audio (only when projecting USB display)

Check	Remedy
Is the volume for the computer set to the minimum while the projector is set to the maximum?	If the volume for the computer is set to the minimum while the projecto Turn up the computer's volume and turn down the projector's volum

The remote control does not work

Check	Remedy
Is the remote control light-emitting area pointing towards the remote receiver on the projector during operation?	Point the remote control towards the remote receiver. ☛ "Remote control operating range" p.19
Is the remote control too far from the projector?	The operating range for the remote control is about six meters. ☛ "Remote control operating range" p.19
Is direct sunlight or strong light from fluorescent lamps shining onto the remote receiver?	Set the projector up in a location where strong light does not shine on ☛ **Settings** - **Remote Receiver** p.84
Is the correct setting for the **Remote Receiver** selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.84
Are the batteries dead or have the batteries been inserted correctly?	Make sure the batteries are inserted correctly or replace the batteries v ☛ "Replacing the remote control batteries" p.18

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.85

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

Check	Remedy
Is **Standby Mode** set to **Communication On**?	To use the Mail Notification function when the projector is in standby, the Configuration menu. ☛ **ECO** - **Standby Mode** p.94
Did a fatal abnormality occur and the projector come to a sudden stop?	If the abnormal state continues, contact your local dealer or the nearest List. ☛ *Epson Projector Contact List*
Is power being supplied to the projector?	Check that your electrical outlet or power source is functioning corre
Is the Mail Notification function set correctly in the Configuration menu?	An error notification email is sent according to the **Mail** settings in the ☛ "Mail menu" p.92

Cannot change settings using a Web browser

Check	Remedy
Are the user ID and password correct?	Enter "EPSONWEB" as the user ID. This cannot be changed. Ente disabled. Enter the characters set for the Web Control Passwor "admin".

Maintenance

This chapter provides information on maintenance procedures to ensure the best level of performance from the

Cleaning

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

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

Cleaning the Projector's Surface

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

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

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

Cleaning the Lens

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

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

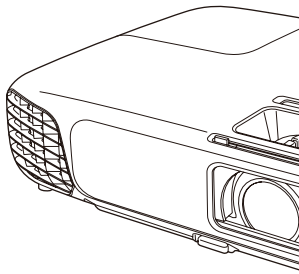
> **Attention**
>
> Do not rub the lens with harsh
> can easily become damaged.

Cleaning the Air Filter

Clean the air filter and the air i
displayed.

"The projector is overheating. M
and clean or replace the air filt

> **Attention**
>
> - If dust collects on the air filter,
> projector to rise, and this can l
> the optical engine's service life.
> message is displayed.
> - Do not rinse the air filter in w



Cleaning

- If a message is frequently displayed, even after cleaning, it is time to replace the air filter. Replace it with a new air filter.
  ☛ "Replacing the Air Filter" p.126
- It is recommended that you clean these parts at least once every three months. Clean them more often than this if using the projector in a particularly dusty environment.

Replacing Consumables

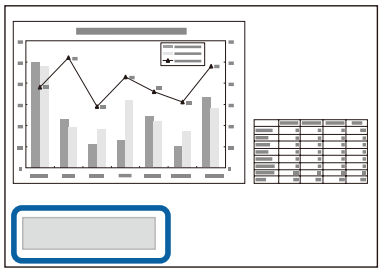
This section explains how to replace the lamp and the air filter.

Replacing the Lamp

Lamp replacement period

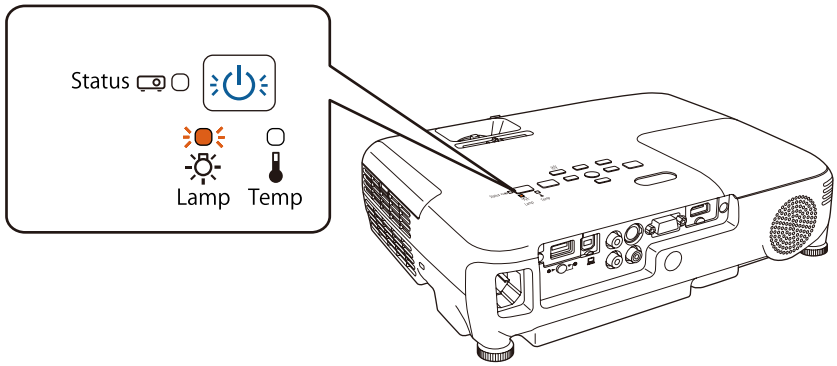
It is time to replace the lamp when:

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



  The message is displayed for 30 seconds.

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



- The projected image gets dark

Attention

- The lamp replacement message periods in order to maintain the images.
  When **Power Consumption** is
  When **Power Consumption** is
  ☛ **ECO - Power Consumptio**
- If you continue to use the lamp possibility that the lamp may ex message appears, replace the lam it is still working.
- Do not repeatedly turn off the p power on and off frequently m
- Depending on the characteristics the lamp may become darker o message appears. You should alw needed.
- We recommend the use of genu genuine lamps may affect proje malfunction caused by the use o Epson's warranty.

How to replace the lamp

The lamp can be replaced even ceiling.

⚠ Warning

- When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is cracked, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Be careful when removing the lamp cover as shards of glass may fall out and could cause an injury. If any shards of glass get into your eyes or mouth, contact your local physician immediately.
- Never disassemble or remodel the lamp. If a modified or disassembled lamp is installed in the projector and used, it could cause a fire, electric shock, or an accident.

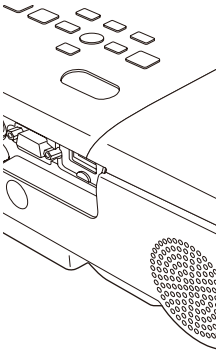
⚠ Caution

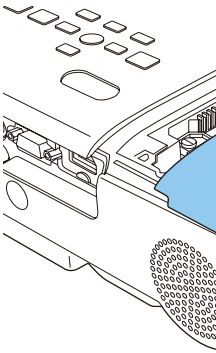
Wait until the lamp has cooled down sufficiently before removing the lamp cover. If the lamp is still hot, burns or other injuries may result. It takes about one hour after the power has been turned off for the lamp to be cool enough.

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

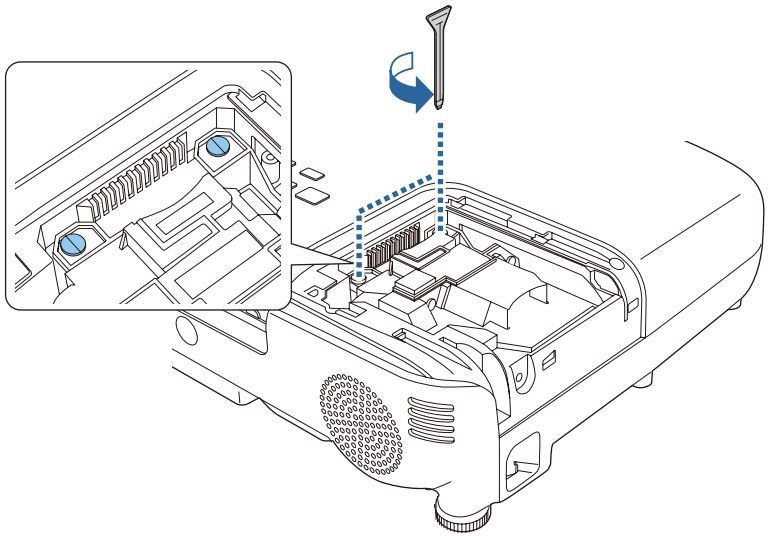
2 Wait until the lamp has sufficiently cooled down, and then remove the lamp cover at the top of the projector.

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





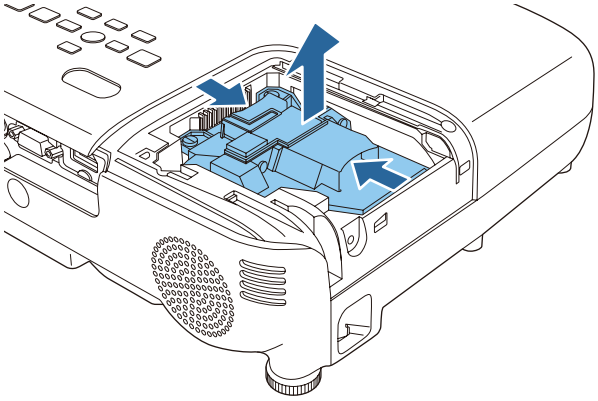
3 Loosen the two lamp fix



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

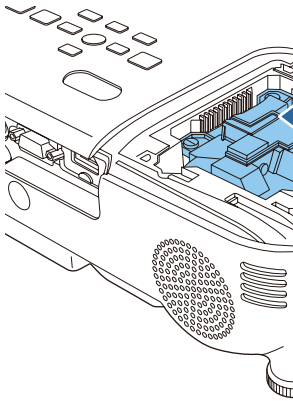
If the Lamp is cracked, replace it with a new lamp, or contact your local dealer for further advice.

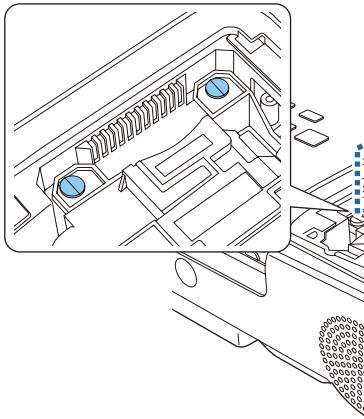
☛ *Epson Projector Contact List*



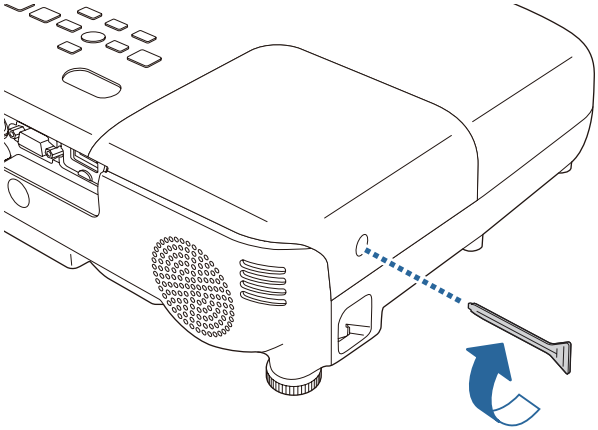
5 Install the new lamp.

Insert the new Lamp along that it fits in place, push tighten the two screws.





6 Replace the lamp cover.



Attention

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

Resetting the lamp hours

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

☛ **Reset** - **Reset Lamp Hours** p.95

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

Replacing the Air Filter

Air filter replacement period

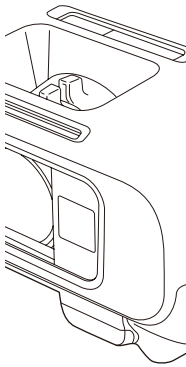
If the message is displayed frequ
cleaned, replace the air filter.

How to replace the air filter

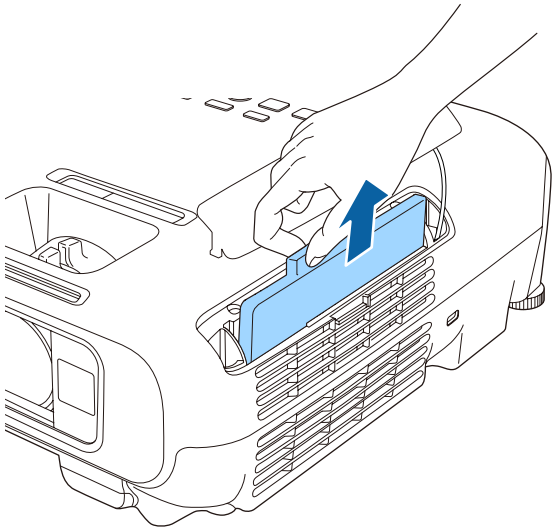
The air filter can be replaced eve
ceiling.

1 After you turn off the pr
buzzer beeps twice, disc

2 Open the air filter cover.

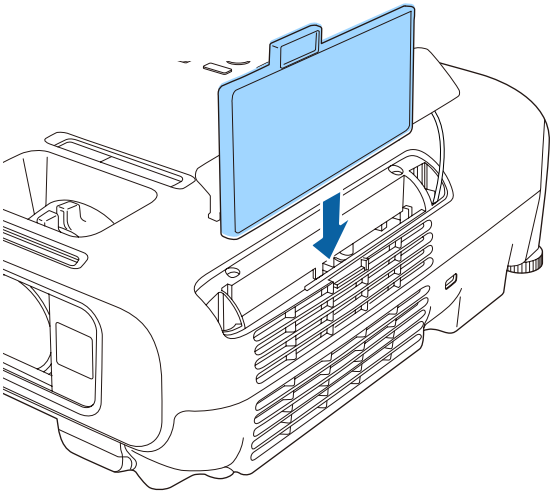


3 Remove the air filter.
Grip the air filter cover t



4 Install the new air filter.

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



5 Close the air filter cover.

Dispose of used ai
local regulations.
Filter frame: ABS
Filter: Polyurethane

Appendix

Optional Accessories and Consumables

The following optional accessories and consumables are available. Please purchase these products as and when needed. The following list of optional accessories and consumables is current as of: May 2014. Details of accessories are subject to change without notice and availability may vary depending on the country of purchase.

Optional Accessories

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

Wireless LAN unit ELPAP07
Use this to project images from a computer via a wireless communication.

Quick Wireless Connection USB Key ELPAP09
Use when you want to quickly establish one-to-one connection between the projector and a computer with Windows installed.

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

Soft carrying case ELPKS63
A soft case to carry the projector.

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

60" portable screen ELPSC27
80" portable screen ELPSC28
100" screen ELPSC29
Portable roll-type screens. (aspect ratio 4:3)

70" portable screen ELPSC23
80" portable screen ELPSC24
90" portable screen ELPSC25
Portable roll-type screens. (aspect ratio 16:10)

53" portable screen ELPSC
64" portable screen ELPSC
Portable magnetic screens. (aspect

Multi-aspect screen ELPSC26
This is a portable multi-aspect scr

Computer cable ELPKC02
(1.8 m - for mini D-Sub15-pi

Computer cable ELPKC09
(3 m - for mini D-Sub15-pin/
Computer cable ELPKC10
(20 m - for mini D-Sub15-pi

Component video cable ELPK
(3 m - for mini D-Sub 15-pi
Use to connect a component vide

Ceiling pipe (450 mm)* ELPF
Ceiling pipe (700 mm)* ELPF
Use when installing the projector

Ceiling mount* ELPMB23
Use when installing the projector

* Special expertise is required to your local dealer or the neares Contact List.

☛ *Epson Projector Contact List*

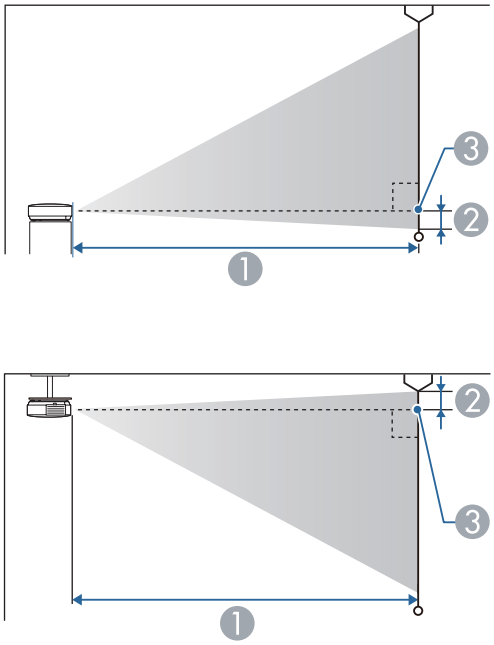
Consumables

Lamp unit ELPLP78
Use as a replacement for used lamps.

Air filter ELPAF32
Use as a replacement for used air filte

Screen Size and Projection Distance

Projection Distance



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

Unit: cm

4:3 Screen Size		1 Minimum (Wide) to Maximum (Tele)	2
30"	61x46	94 - 113	-4
40"	81x61	126 - 152	-5
50"	100x76	158 - 190	-7

4:3 Screen Size		Min
60"	120x91	
70"	142x107	
80"	160x120	
100"	200x150	
150"	300x230	
200"	410x300	
280"	570x430	

16:9 Screen Size		Min
35"	78x44	
40"	89x50	
50"	110x62	
60"	130x75	
70"	155x87	
80"	180x100	
100"	220x120	
150"	330x190	
200"	440x250	
310"	690x390	

Screen Size and Projection Distance

Unit: cm

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

Supported Monitor Displays

Supported Resolutions

Computer signals (analog RGB)

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

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

Even when signals other than th
that the image can be projected
supported.

Component video

Signal	Refres
SDTV (480i)	
SDTV (576i)	
SDTV (480p)	
SDTV (576p)	
HDTV (720p)	
HDTV (1080i)	

Composite video

Signal	Refres
TV (NTSC)	
TV (SECAM)	
TV (PAL)	

HDMI Input Signal

Signal	Refresh
VGA	
SVGA	
XGA	
WXGA	

Supported Monitor Displays

Signal	Refresh Rate (Hz)	Resolution (dots)
WXGA+	60	1440x900
WXGA++	60	1600x900
SXGA	60	1280x960
	60	1280x1024
SXGA+	60	1400x1050
UXGA	60	1600x1200
WSXGA+	60	1680x1050
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

MHL Input Signal

Signal	Refresh Rate (Hz)	Resolution (dots)
VGA	60	640x480
SDTV (480i/480p)	60	720x480
SDTV (576i/576p)	50	720x576
HDTV (720p)	50/60	1280x720
HDTV (1080i)	50/60	1920x1080
HDTV (1080p)	24/30	1920x1080

Projector General Specifications

Product name		EB-W28
Dimensions		297 (W) x 79 (H) x 234 (D) mm
LCD panel size		0.59" Wide
Display method		Polysilicon TFT active matrix
Resolution		1,024,000 WXGA (1280 (W) x 800 (H) dots) x 3
Focus adjustment		Manual
Zoom adjustment		Manually (1-1.2)
Lamp		UHE lamp, 200 W Model No.: ELPLP78
Max. audio output		2 W
Speaker		1
Power supply		100 - 240 V AC±10%, 50/60 Hz 2.9-1.3 A
Power con-sumption	100 to 120 V area	Operating: 283 W Standby power consumption (Communication On): 2 Standby power consumption (Communication Off): 0
	220 to 240 V area	Operating: 270 W Standby power consumption (Communication On): 3 Standby power consumption (Communication Off): 0
Operating altitude		Altitude 0 to 3,000 m
Operating temperature		+5 to +35°C (No condensation) (Altitude 0 to 2,286 +5 to +30°C (No condensation) (Altitude 2,287 to 3,0
Storage temperature		-10 to +60°C (No condensation)
Mass		Approx. 2.4 kg

Connectors	Computer port	1	M
	Video port	1	

	S-Video port	1	
	Audio port	1	
	HDMI/MHL port	1	HDMI (Au
	USB-A port*1	1	U
	USB-B port*1, 2	1	U

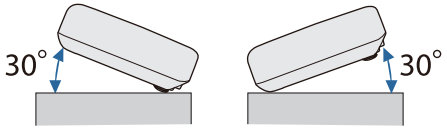
*1 Supports USB 2.0. However, USB ports are not guaranteed to operate all devices that support USB.

*2 USB 1.1 is not supported.

Specifications

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

Angle of tilt



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

DECLARATION of CONFORMITY
According to 47CFR, Part 2 and 15
Class B Personal Computers and Peripherals; and/or
CPU Boards and Power Supplies used with Class B Personal Computers

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

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:	H654C/H664C

FCC Cor
For Un

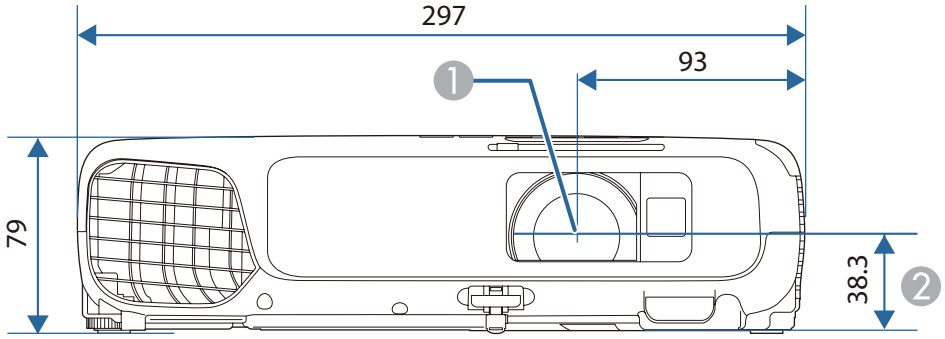
This equipment has been tested a
Class B digital device, pursuant t
are designed to provide reasonab
in a residential installation. This
radio frequency energy and, if no
instructions, may cause harmful
However, there is no guarantee
particular installation. If this equ
and television reception, which c
equipment off and on, the user
interference by one or more of

- Reorient or relocate the receiv
- Increase the separation betwee
- Connect the equipment into an
  which the receiver is connecte
- Consult the dealer or an expe

W

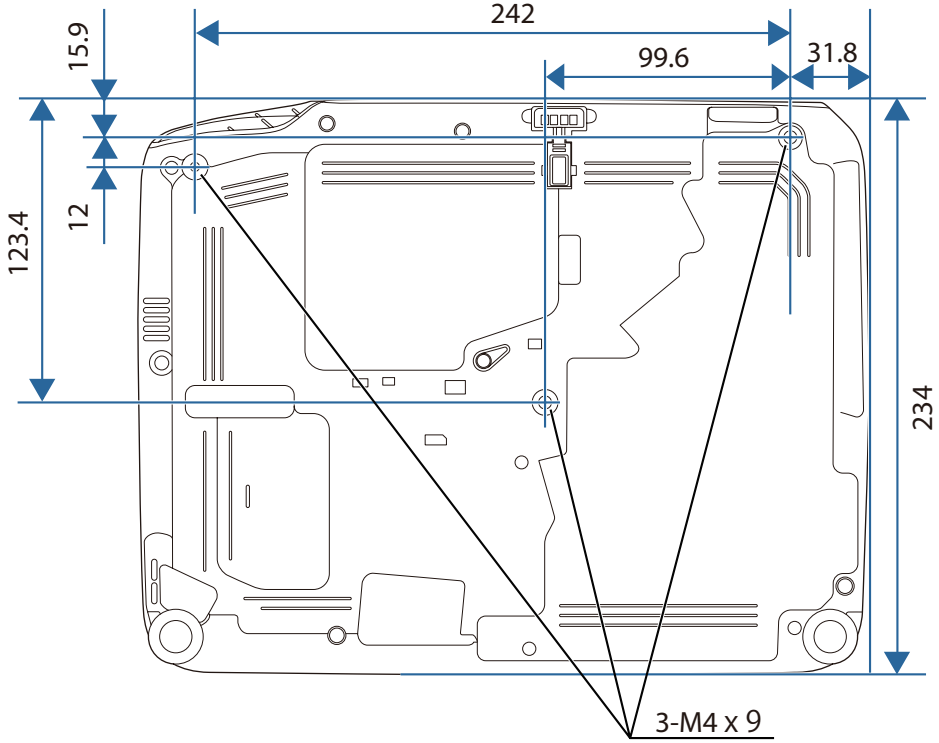
The connection of a non-shielde
equipment will invalidate the FC
device and may cause interferenc
by the FCC for this equipment. I
and use a shielded equipment in
equipment has more than one i
connected to unused interfaces.
approved by the manufacturer co
equipment.

Appearance



1 Center of lens

2 Distance from center of lens to suspension bracket fixing point



Glossary

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

Ad hoc mode	A method of wireless LAN connection that communicates with wireless LAN clients without usin
Aspect Ratio	The ratio between an image's length and its height. Screens with a horizontal:vertical ratio of 16:9, su 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 lumina Pr).
Composite video	A method that combines the video signal into a luminance component and a color component fo
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to mal make them appear softer. Adjusting this particular property of an image is called contrast adjustn
DHCP	An abbreviation of Dynamic Host Configuration Protocol, this protocol automatically assigns an IP
Gateway Address	This is a server (router) for communicating across a network (subnet) divided according to subne
HDCP	HDCP is an abbreviation for High-bandwidth Digital Content Protection. It is used to prevent illeg digital signals sent over DVI and HDMI ports. Because the HDMI/MHL port on this projector suppo by HDCP technology. However, the projector may not be able to project images protected with up
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satis • 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 to Images are more likely to flicker because one frame is displayed every other line.
IP Address	A number to identify a computer connected to a network.
MHL	An abbreviation for Mobile High-definition Link, a standard for connection interfaces aimed at m Images can be transferred at high quality and at high speeds without compressing the digital signa
Progressive	Projects information to create one screen at a time, displaying the image for one frame. Even though of flicker in images decreases because the volume of information has doubled compared with an i
Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely scanned many times per second to refresh the light-emitting element. The number of refresh opera expressed in hertz (Hz).
SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which Definition Television.

SNMP	An abbreviation for Simple Network Management Protocol, which is the protocol for monitoring computers connected to a TCP/IP network.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduc computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set b to sRGB.
SSID	SSID is identification data for connecting to another device on a wireless LAN. Wireless communi SSID.
Subnet Mask	This is a numerical value that defines the number of bits used for the network address on a divide
SVGA	A screen size standard with a resolution of 800 (horizontal) x 600 (vertical) dots.
S-Video	A method that separates the video signal into a luminance component (Y) and a color componen
SXGA	A screen size standard with a resolution of 1,280 (horizontal) x 1,024 (vertical) dots.
Sync.	The signals output from computers have a specific frequency. If the projector frequency does not ma a good quality. The process of matching the phases of these signals (the relative position of the cr Synchronization. If the signals are not synchronized, flickering, blurriness, and horizontal interfe
Tracking	The signals output from computers have a specific frequency. If the projector frequency does not ma a good quality. The process of matching the frequency of these signals (the number of crests in the si out correctly, wide vertical stripes appear in the signal.
Trap IP Address	This is the IP address for the destination computer used for error notification in SNMP.
VGA	A screen size standard with a resolution of 640 (horizontal) x 480 (vertical) dots.
XGA	A screen size standard with a resolution of 1,024 (horizontal) x 768 (vertical) dots.

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Microsoft® Windows® XP opera
Microsoft® Windows® Vista op
Microsoft® Windows® 7 operati
Microsoft® Windows® 8 operati
Microsoft® Windows® 8.1 opera

In this guide, the operating syst
2000", "Windows XP", "Windows
"Windows 8.1". Furthermore, the
refer to Windows 2000, Windov
Windows 8, and Windows 8.1,
referred to as, for example, Win
notation omitted.

Mac OS X 10.3.x
Mac OS X 10.4.x
Mac OS X 10.5.x
Mac OS X 10.6.x
OS X 10.7.x
OS X 10.8.x
OS X 10.9.x

In this guide, the operating syst
10.3.9", "Mac OS X 10.4.x", "Mac
10.7.x", "OS X 10.8.x", and "OS X
"Mac OS" is used to refer to th

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