EPSON
EXCEED YOUR VISION

User's Guide

Multimedia Projector

EB-X14G
EB-W02
EB-X02
EB-S02
EB-W01
EB-S01

Notations Used in This Guide

- **Safety indications**

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

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

- **General information indications**

Attention	Indicates procedures which may result in damage or injury if sufficient care is not taken.
	Indicates additional information and points which may be useful to know regarding a topic.
☛	Indicates a page where detailed information regarding a topic can be found.
▸▸	Indicates that an explanation of the underlined word or words in front of this symbol appears in the glossary of terms. See the "Glossary" section of the "Appendix". ☛ "Glossary" p.99
[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.

List of Functions by Model

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

Function	EB-X14G	EB-W02	EB-X02	EB-S02	EB-W01	EB-S01
USB Display	✓	✓	✓	✓	✓	✓
Auto V-Keystone	✓	✓	✓	✓	-	-
H-Keystone	✓	-	-	-	-	-
Quick Corner	✓	-	-	-	-	-

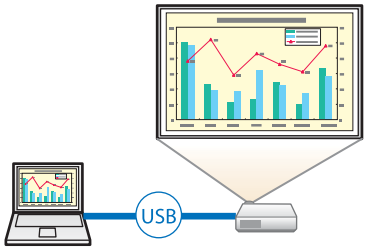
Quick and Easy Set up, Projection, and Storage

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

Connecting with a USB cable and projecting (USB Display)

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

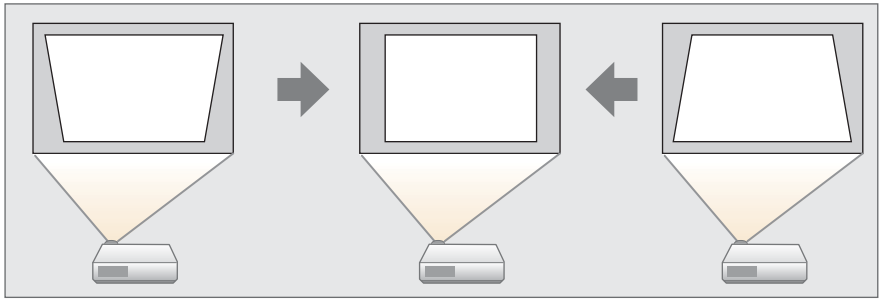
☛ "Projecting with USB Display" p.28



Detecting projector movements and automatically correcting image distortion (EB-X14G/EB-W02/EB-X02/EB-S02 only)

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

☛ "Correcting automatically" p.32

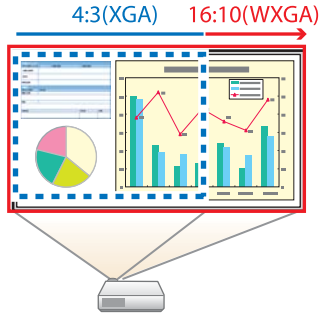


Useful Functions for Projecting Images

Increasing projection content in wide (WXGA) screen (EB-W02/EB-W01 only)

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

☛ "Changing the Aspect Ratio of the Projected Image " p.39



Making the most of the remote control

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

☛ "Pointer Function (Pointer)" p.43

☛ "Enlarging Part of the Image (E-Zoom)" p.45

☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.46

Enhanced security functions

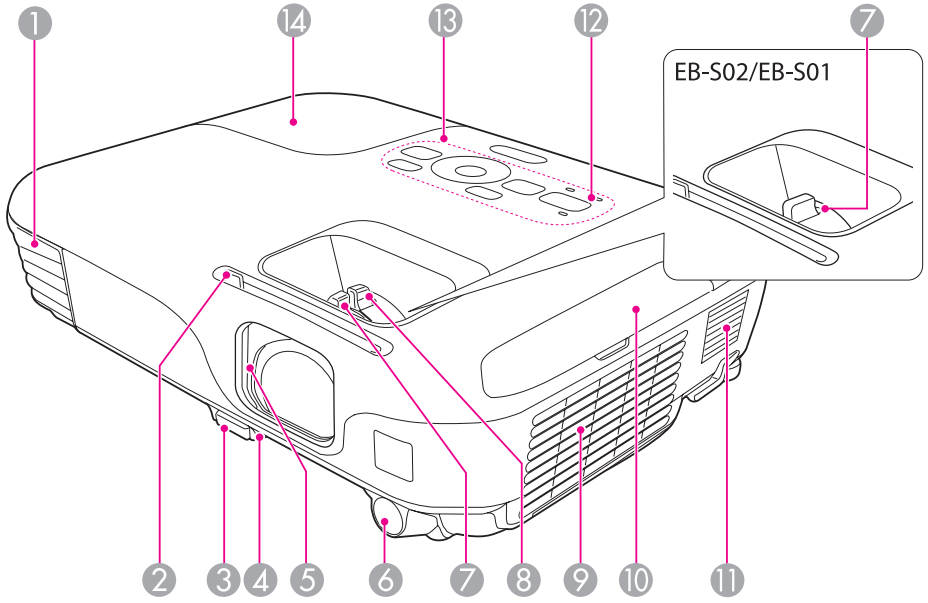
- **Password Protect to restrict and manage users**
  By setting a Password you can restrict who can use the projector.
  ☛ "Managing Users (Password Protect)" p.49

- **Control Panel Lock restricts button operation on the control panel**
  You can use this to prevent people changing projector settings without permission at events, in schools, and so on.
  ☛ "Restricting Operation (Control Panel Lock)" p.51
- **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.52

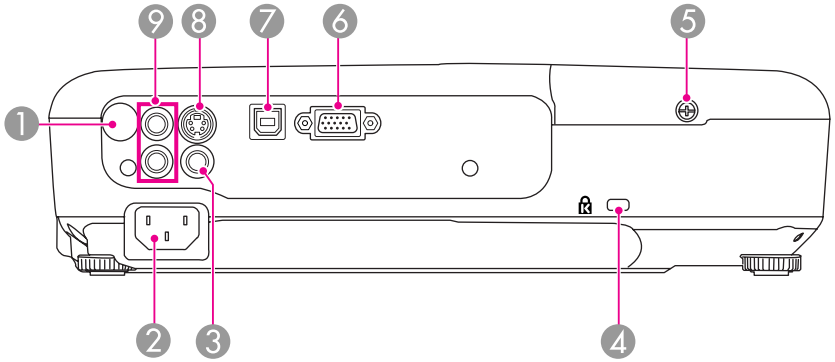
All of the features in this guide are explained using illustrations of EB-W02 unless otherwise mentioned.

Front/Top



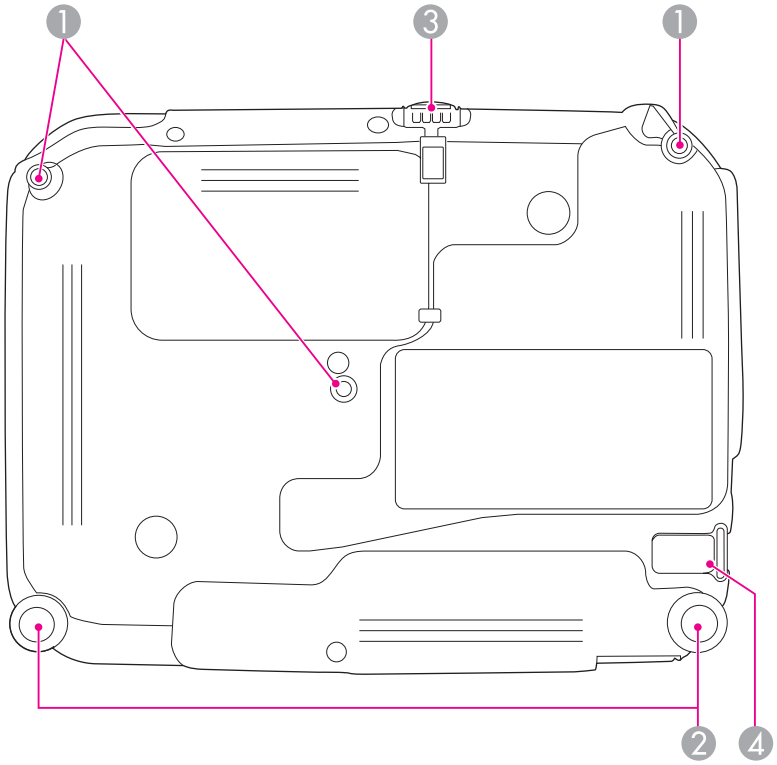
	Name	Function
①	**Air exhaust vent**	Exhaust vent for air used to cool the projector internally. **⚠ Caution** While projecting, do not put your face or hands near the air exhaust vent, and do not place objects that may become warped or damaged by heat near the vent.
②	**Sliding lens cover knob**	Slide the knob to open and close the lens cover.
③	**Foot adjust lever**	Press the foot adjust lever to extend and retract the front adjustable foot. ☛ "Adjusting the Image Position" p.36
④	**Front adjustable foot**	When setup on a surface such as a desk, extend the foot to adjust the position of the image. ☛ "Adjusting the Image Position" p.36
⑤	**Sliding lens cover**	Close when not using the projector to protect the lens. **⚠ Caution** While projecting, do not close the lens cover.
⑥	**Remote receiver**	Receives signals from the remote control.
⑦	**Focus ring**	Adjusts the image focus. ☛ "Correcting the Focus" p.37
⑧	**Zoom ring (EB-X14G/EB-W02/EB-X02/EB-W01 only)**	Adjusts the image size. ☛ "Adjusting the Image Size" p.36
⑨	**Air intake vent (air filter)**	Takes in air to cool the projector internally. ☛ "Cleaning the Air Filter" p.79
⑩	**Air filter cover**	Opens and closes the air filter cover. ☛ "Replacing the Air Filter" p.84
⑪	**Speaker**	Outputs audio.
⑫	**Indicators**	Indicates the projector's status. ☛ "Reading the Indicators" p.66
⑬	**Control panel**	Operates the projector. ☛ "Control Panel" p.13
⑭	**Lamp cover**	Open when replacing the projector's lamp. ☛ "Replacing the Lamp" p.81

Rear



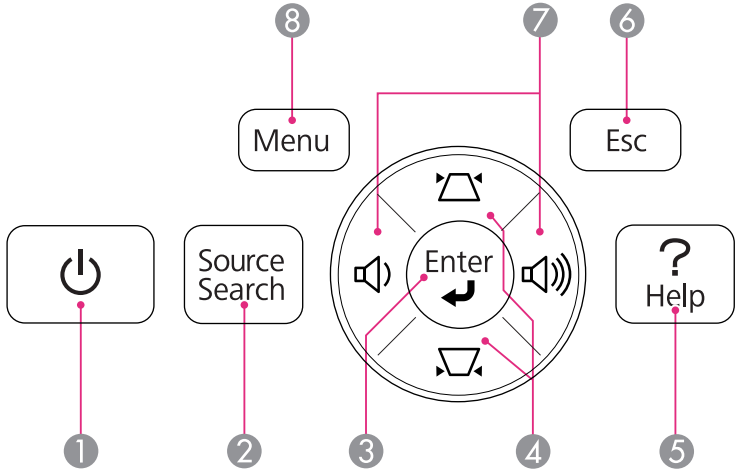
	Name	Function
1	**Remote receiver**	Receives signals from the remote control.
2	**Power inlet**	Connects the power cable to the projector. ☛ "From Installation to Projection" p.26
3	**Video port (EB-X14G/EB-W02/EB-X02/EB-S02 only)**	Inputs composite video signals from video sources.
4	**Security slot**	The security slot is compatible with the Microsaver Security System manufactured by Kensington. ☛ "Anti-Theft Lock" p.52
5	**Lamp Cover Fixing Screw**	Screw to fix the lamp cover in place.
6	**Computer port**	Inputs image signals from a computer and component video signals from other video sources.
7	**USB(TypeB) port**	• Connects the projector to a computer via a USB cable, and the image on the computer is projected. ☛ "Projecting with USB Display" p.28 • Connects the projector to a computer via a USB cable to use the Wireless Mouse function. ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.46
8	**S-Video port (EB-X14G/EB-W02/EB-X02/EB-S02 only)**	For S-video signals from video sources.
9	**Audio-L/R port (EB-X14G/EB-W02/EB-X02/EB-S02 only)**	Inputs audio from equipment connected to the Computer port, the S-Video port, or the Video port.

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.19 ☛ "Optional Accessories" p.87
2	**Rear feet**	When setup on a surface such as a desk, turn to extend and retract to adjust the horizontal tilt. ☛ "Adjusting the Horizontal Tilt" p.37
3	**Front adjustable foot**	When setup on a surface such as a desk, extend the foot to adjust the position of the image. ☛ "Adjusting the Image Position" p.36
4	**Security cable installation point**	Pass a commercially available wire lock through here and lock it in place. ☛ "Installing the wire lock" p.52

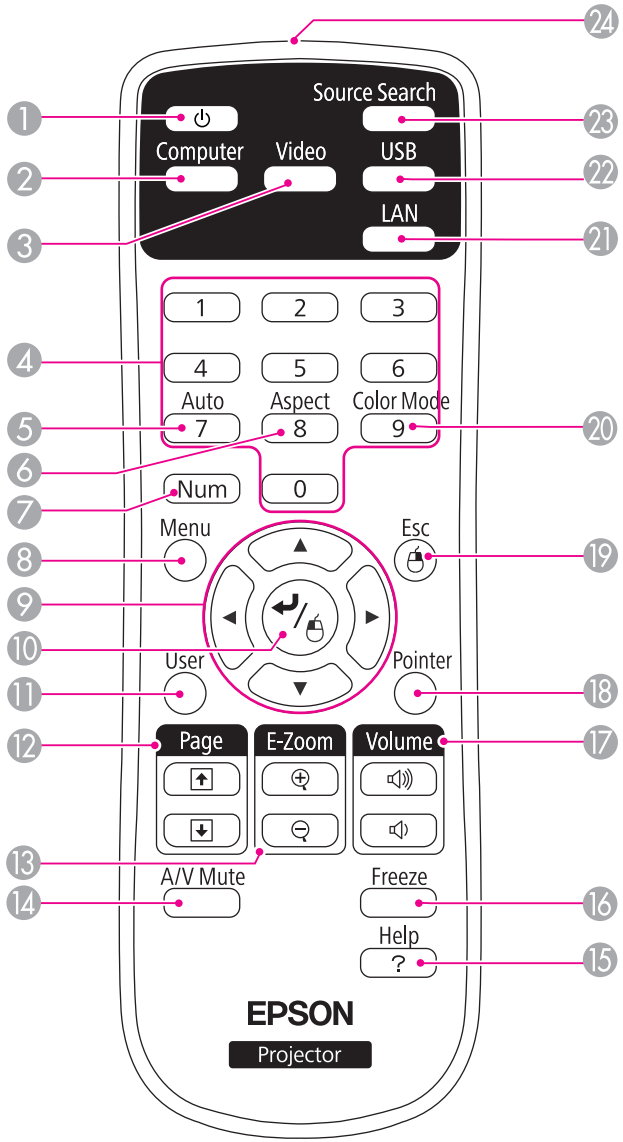
Control Panel



	Name	Function
1	**[⏻] button**	Turns the projector power on or off. ☛ "From Installation to Projection" p.26
2	**[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.27
3	**[Enter] button** [↵]	• When the Configuration menu or the Help screen is displayed, it accepts and enters the current selection and moves to the next level. • If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.
4	**[⏢][⏢] buttons**	• For EB-X14G Displays the Keystone screen allowing you to correct keystone distortion in vertical and horizontal directions. • For EB-W02/EB-X02/EB-S02/EB-W01/EB-S01 Performs vertical keystone correction. ☛ "Correcting manually" p.33 • 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.55 ☛ "Using the Help" p.65
5	**[Help] button**	Displays and closes the Help screen which shows you how to deal with problems if they occur. ☛ "Using the Help" p.65
6	**[Esc] button**	• Stops the current function. • If pressed when the Configuration menu is displayed, it moves to the previous menu level. ☛ "Using the Configuration Menu" p.55

	Name	Function
⑦	**[🔉][🔊] buttons or [Wide][Tele] buttons**	• For EB-X14G/EB-W02/EB-X02/EB-W01 [🔉] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.37 • For EB-S02/EB-S01 [Wide]: Enlarges the size of the projected image. [Tele]: Reduces the size of the projected image. ☛ "Adjusting the Image Size" p.36 • EB-X14G only Corrects keystone distortion in the horizontal direction when the Keystone screen is displayed. ☛ "H/V-Keystone (EB-X14G only)" p.33 • 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.55 ☛ "Using the Help" p.65
⑧	**[Menu] button**	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.55

Remote Control



	Name	Function
❶	**[⏻] button**	Turns the projector power on or off. ☛ "From Installation to Projection" p.26
❷	**[Computer] button**	Changes to images from the Computer port.
❸	**[Video] button**	Each time the button is pressed, the input changes between images from the S-Video port to the Video port. (EB-X14G/EB-W02/EB-X02/EB-S02 only)
❹	**Numeric buttons**	Enter the Password. ☛ "Setting Password Protect" p.49
❺	**[Auto] button**	If pressed while projecting analog RGB signals from the Computer port, you can automatically optimize Tracking, Sync., and Position.
❻	**[Aspect] button**	Each time the button is pressed, the aspect mode changes. ☛ "Changing the Aspect Ratio of the Projected Image " p.39
❼	**[Num] button**	Hold down this button and press the numeric buttons to enter passwords and numbers. ☛ "Setting Password Protect" p.49
❽	**[Menu] button**	Displays and closes the Configuration menu. ☛ "Using the Configuration Menu" p.55
❾	**[▲][▼][◀][▶] buttons**	• When the Configuration menu or the Help screen is displayed, pressing these buttons selects menu items and setting values. ☛ "Using the Configuration Menu" p.55 • During Wireless Mouse function, the mouse pointer moves in the direction of the button that was pushed. ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.46

	Name	Function
❿	**[↵] 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.55 • 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.46
⓫	**[User] button**	Select any frequently used item from the five available Configuration menu items, and assign it to this button. By pressing the [User] button, the assigned menu item selection/adjustment screen is displayed, allowing you to make one-touch settings/adjustments. ☛ "Settings Menu" p.59 **Power Consumption** is assigned as the default setting.
⓬	**[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.46 • When using USB Display ☛ "Projecting with USB Display" p.28
⓭	**[E-Zoom] buttons [⊕][⊖]**	Enlarges or reduces the image without changing the projection size. ☛ "Enlarging Part of the Image (E-Zoom)" p.45
⓮	**[A/V Mute] button**	• Turns the video and audio on or off. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.43 • You can change the Projection mode as follows by pressing the button for about five seconds. **Front↔Front/Ceiling** **Rear↔Rear/Ceiling**

	Name	Function
⑮	**[Help] button**	Displays and closes the Help screen which shows you how to deal with problems if they occur. ☛ "Using the Help" p.65
⑯	**[Freeze] button**	Images are paused or unpaused. ☛ "Freezing the Image (Freeze)" p.43
⑰	**[Volume] buttons** [🔉][🔊]	[🔉] Decreases the volume. [🔊] Increases the volume. ☛ "Adjusting the Volume" p.37
⑱	**[Pointer] button**	Displays the on-screen pointer. ☛ "Pointer Function (Pointer)" p.43
⑲	**[Esc] button**	• Stops the current function. • If pressed when the Configuration menu is displayed, it moves to the previous level. ☛ "Using the Configuration Menu" p.55 • Acts as a mouse's right button when using the Wireless Mouse function. ☛ "Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse)" p.46
⑳	**[Color Mode] button**	Each time the button is pressed, the Color Mode changes. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.37
㉑	**[LAN] button**	Not available for this projector.
㉒	**[USB] button**	Changes to USB Display.
㉓	**[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.27
㉔	**Remote control light-emitting area**	Outputs remote control signals.

Replacing the remote control batteries

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

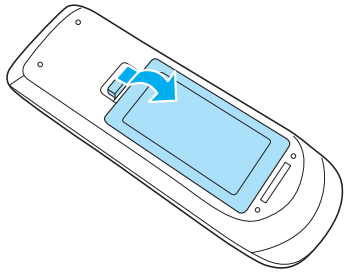
Attention

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

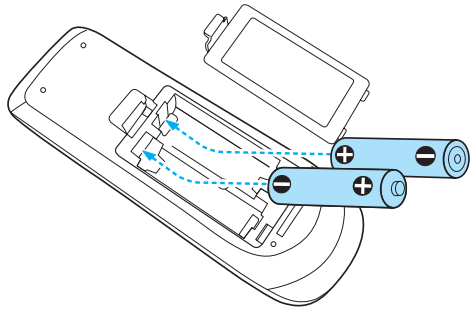
☛ *Safety Instructions*

1 Remove the battery cover.

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



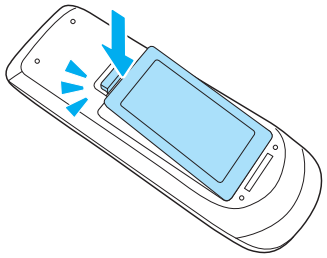
2 Replace the old batteries with new batteries.



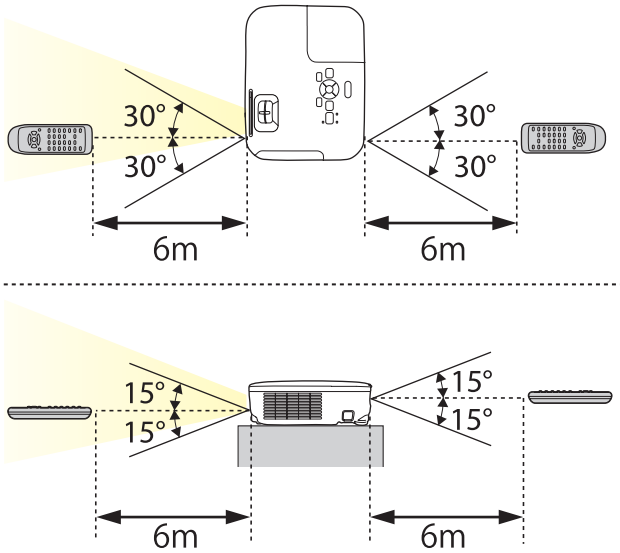
> **Caution**
>
> Check the positions of the (+) and (-) marks inside the battery holder to ensure the batteries are inserted the correct way.

3 Replace the battery cover.

Press the battery compartment cover until it clicks into place.



Remote control operating range



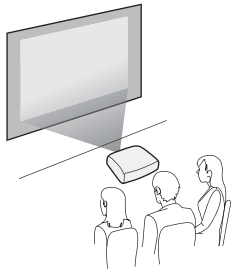
Preparing the Projector

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

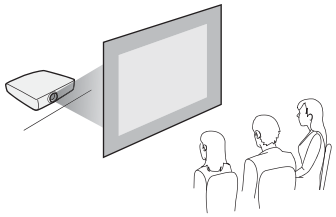
Installation Methods

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

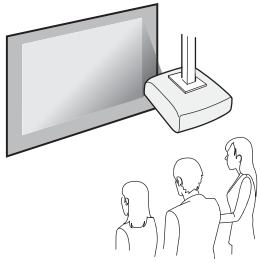
- Project images from in front of the screen. (Front projection)



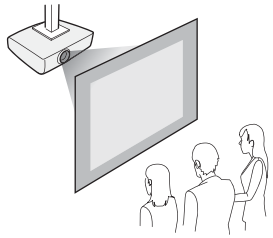
- Project images from behind a translucent screen. (Rear projection)



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



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



Warning

- A special method of installation is required when suspending the projector from a ceiling (ceiling mount). If it is not installed correctly, it could fall causing an accident and injury.
- If you use adhesives on the Ceiling mount fixing points to prevent the screws from loosening, or if you use things such as lubricants or oils on the projector, the projector case may crack causing it to fall from its ceiling mount. This could cause serious injury to anyone under the ceiling mount and could damage the projector.
  When installing or adjusting the ceiling mount, do not use adhesives to prevent the screws from loosening and do not use oils or lubricants and so on.

Attention

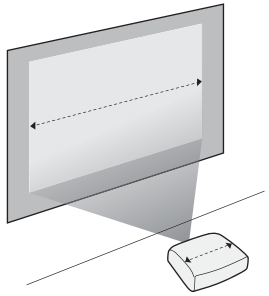
- Do not use the projector on its side. This may cause malfunctions to occur.
- Do not cover the projector's air intake vent or air exhaust vent. If either of the vents are covered, the internal temperature could rise and cause a fire.

- An optional Ceiling mount is required when suspending the projector from a ceiling.
  ☛ "Optional Accessories" p.87
- The default Projection setting is **Front**. You can change from **Front** to **Rear** from the Configuration menu.
  ☛ **Extended** - **Projection** p.61
- You can change the Projection mode as follows by pressing down the [A/V Mute] button on the remote control for about five seconds.
  Front↔Front/Ceiling
  Rear↔Rear/Ceiling

Installation methods

Install the projector as follows.

- Install the projector so that it is parallel to the screen.
  If the projector is installed at an angle to the screen, keystone distortion occurs in the projected image.
- Place the projector on a level surface.
  If the projector is tilted the projected image is also tilted.



- See the following if you cannot install the projector parallel to the screen.
  ☛ "Correcting Keystone Distortion" p.32
- See the following if you cannot install the projector on a level surface.
  ☛ "Adjusting the Horizontal Tilt" p.37
  ☛ "Correcting Keystone Distortion" p.32

Screen Size and Approximate Projection Distance

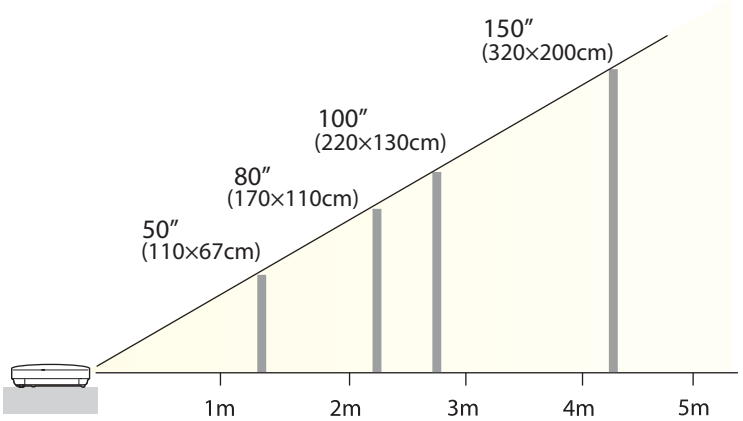
Projection size is determined by the distance from the projector to the screen. See the illustrations on the right to select the best position according to the screen size. The illustrations show the approximate shortest distance at maximum zoom. See the following for more information on the projection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

☛ "Screen Size and Projection Distance" p.88

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

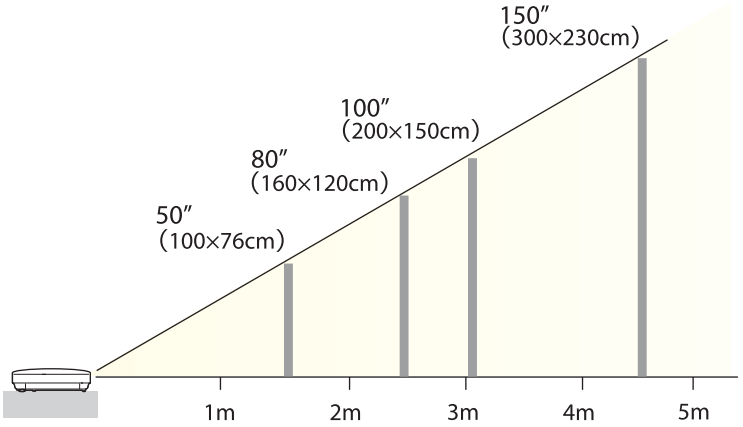
16:10 Screen Size

EB-W02/EB-W01

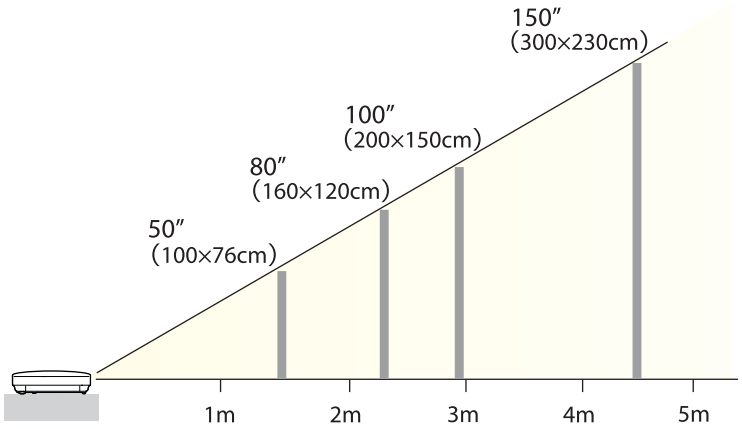


4:3 Screen Size

EB-X14G/EB-X02



EB-S02/EB-S01


150″
(300×230cm)
100″
(200×150cm)
80″
(160×120cm)
50″
(100×76cm)
1m
2m
3m
4m
5m

Illustrations in this section are of EB-W02.

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 or commercially available computer cable**

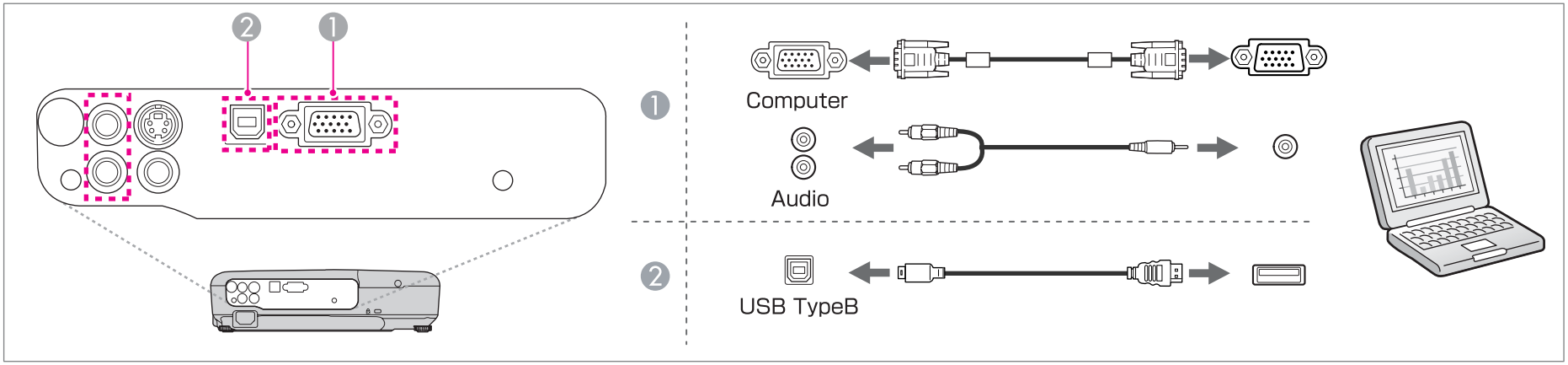
   Connect the computer's display output port to the projector's Computer port.

   You can output audio from the projector's speaker by connecting the audio output port on the computer to the projector's Audio Input port using a commercially available audio cable. (EB-X14G/EB-W02/EB-X02/EB-S02 only)

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

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

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



- You can use a USB cable to connect the projector to a computer to project images from the computer. This function is called USB Display.
  ☛ "Projecting with USB Display" p.28
- Depending on the model used and the area of purchase, the computer cable or USB cable may not be supplied with the projector.
  ☛ "Optional Accessories" p.87

Connecting Image Sources

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

❶ **When using a commercially available video or S-video cable (EB-X14G/EB-W02/EB-X02/EB-S02 only)**

Connect the video output port on the image source to the projector's Video port.

Or, connect the S-video output port on the image source to the projector's S-Video port.

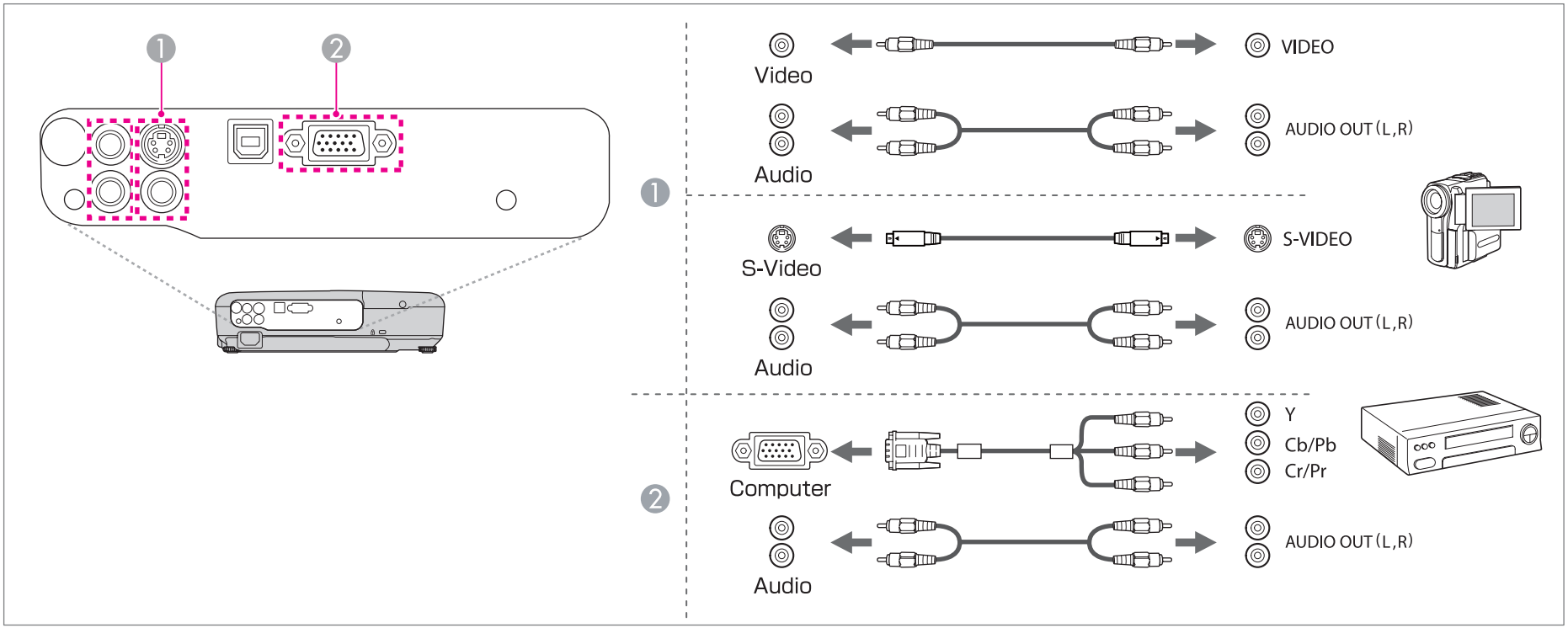
You can output audio from the projector's speaker by connecting the audio output port on the image source to the projector's Audio Input port using a commercially available audio cable.

❷ **When using the optional component video cable**

☛ "Optional Accessories" p.87

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

You can output audio from the projector's speaker by connecting the audio output port on the image source to the projector's Audio Input port using a commercially available audio cable. (EB-X14G/EB-W02/EB-X02/EB-S02 only)



Attention

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

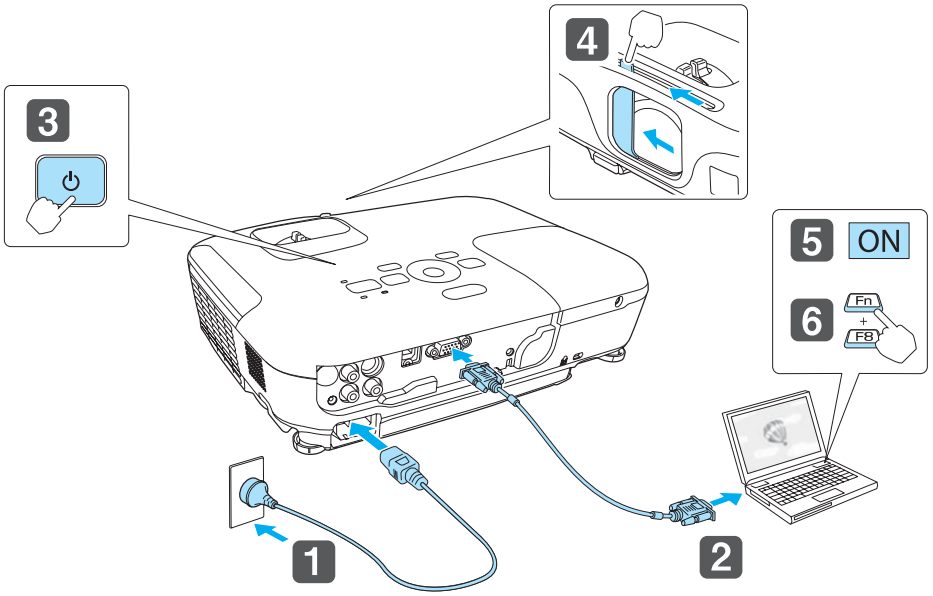
- If the source you want to connect to has an unusually shaped port, use the cable supplied with the device or an optional cable to connect to the projector.
- When using a commercially available 2RCA(L/R)/stereo mini-pin audio cable, make sure it is labeled "No resistance". (EB-X14G/EB-W02/EB-X02/EB-S02 only)

Basic Usage

This chapter explains how to project and adjust images.

From Installation to Projection

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



1. Connect the projector to an electrical outlet with the power cable.
2. Connect the projector to the computer with the computer cable.
3. Turn on the projector.
4. Slide open the lens cover.
5. Turn on your computer.
6. Change the computer's screen output.

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

   Hold down the Fn key (function key), and press the 🖷/🖵 key.

> The method for changing differs depending on the computer being used. See the documentation supplied with the computer.

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

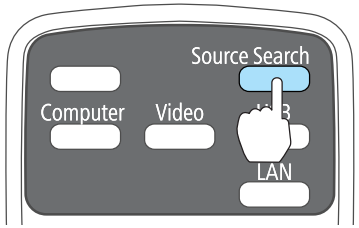
- Press the [Source Search] button on the control panel or the remote control.
  ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.27
- Press the button for the target port on the remote control.
  ☛ "Switching to the Target Image by Remote Control" p.28

> After projecting the image, adjust the image if necessary.
> ☛ "Correcting Keystone Distortion" p.32
> ☛ "Correcting the Focus" p.37

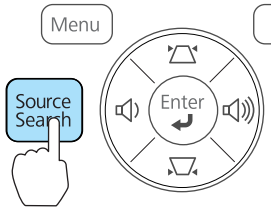
Automatically Detect Input Signals and Change the Projected Image (Source Search)

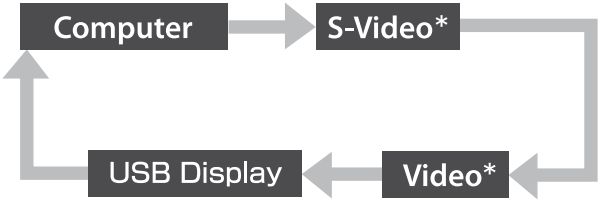
Press the [Source Search] button to project images from the port currently receiving an image.

Using the remote control



Using the control panel





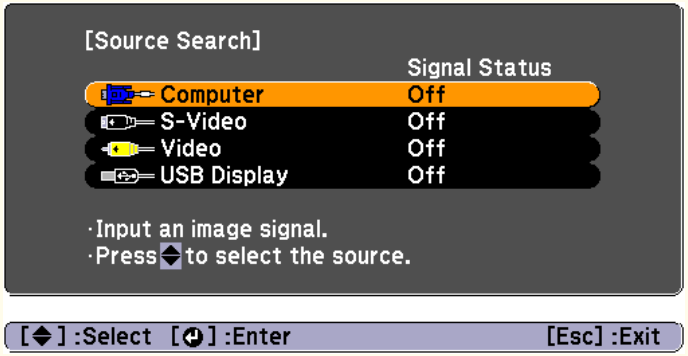
* (EB-X14G/EB-W02/EB-X02/EB-S02 only)

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

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

The following screen is displayed while no image signals are input.

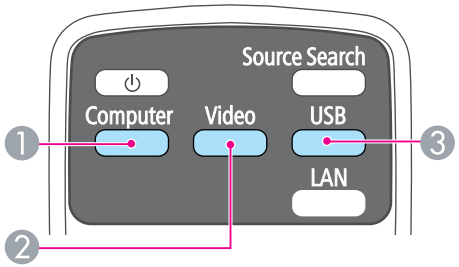
Example: EB-X14G/EB-W02/EB-X02/EB-S02



Switching to the Target Image by Remote Control

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

Remote control



1. Changes to images from the Computer port.
2. Each time the button is pressed, it cycles through the images being input from the following sources. (EB-X14G/EB-W02/EB-X02/EB-S02 only)
   - S-Video port
   - Video port
3. Changes to USB Display.

Projecting with USB Display

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

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

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

☛ **Extended** - **USB Type B** p.61

System requirements

For Windows

OS	Windows 2000*1	
	Windows XP*2	Professional 32 bit Home Edition 32 bit Tablet PC Edition 32 bit
	Windows Vista	Ultimate 32 bit Enterprise 32 bit Business 32 bit Home Premium 32 bit Home Basic 32 bit
	Windows 7	Ultimate 32/64 bit Enterprise 32/64 bit Professional 32/64 bit Home Premium 32/64 bit Home Basic 32 bit Starter 32 bit
CPU	Mobile Pentium III 1.2 GHz or faster Recommended: Pentium M 1.6 GHz or faster	

Amount of Memory	256 MB or more Recommended: 512 MB or more
Hard Disk Space	20 MB or more
Display	Resolution of no less than 640x480 and no higher than 1600x1200. Display color in 16-bit color or greater

*1 Service Pack 4 only

*2 Except for Service Pack 1

For Mac OS

OS	Mac OS X 10.5.x Mac OS X 10.6.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 1600x1200. Display color in 16-bit color or greater

Connecting for the first time

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

- You do not need to install the driver the next time you connect.
- When inputting images from multiple sources, change the input source to USB Display.
- If you use a USB hub, the connection may not operate correctly. Connect the USB cable directly to the projector.
- Depending on the model used and the area of purchase, the USB cable may not be supplied with the projector.

For Windows

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

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

   For Windows 2000

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

   For Windows XP

   Driver installation starts automatically.

   For Windows Vista/Windows 7

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

2. When the License Agreement screen is displayed, click **Agree**.

3 Computer images are projected.

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

4 Disconnect the USB cable when you finish projection.

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

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

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

  ☛ *Epson Projector Contact List*

For Mac OS

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

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

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

3 Follow the on-screen instructions to install.

4 When the License Agreement screen is displayed, click **Agree**.

Enter the administrator authority password and start the installation.

When the installation is complete, the USB Display icon is displayed in the Dock and menu bar.

5 Computer images are projected.

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

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

- If the USB Display setup folder is not displayed automatically in the Finder, double-click **EPSON PJ_UD** - **USB Display Installer** on your computer.
- If nothing is projected for some reason, click the **USB Display** icon in the Dock.
- If there is no **USB Display** icon in the Dock, double-click **USB Display** from the Applications folder.
- If you select **Exit** from the **USB Display** icon menu on the Dock, USB Display does not start automatically when you connect the USB cable.

Uninstalling

For Windows 2000

1 Click **Start**, select **Settings**, and then click **Control Panel**.

2 Double-click **Add/Remove Programs**.

3 Click **Change or Remove Programs**.

4 Select **Epson USB Display** and click **Change/Remove**.

For Windows XP

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

For Windows Vista/Windows 7

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

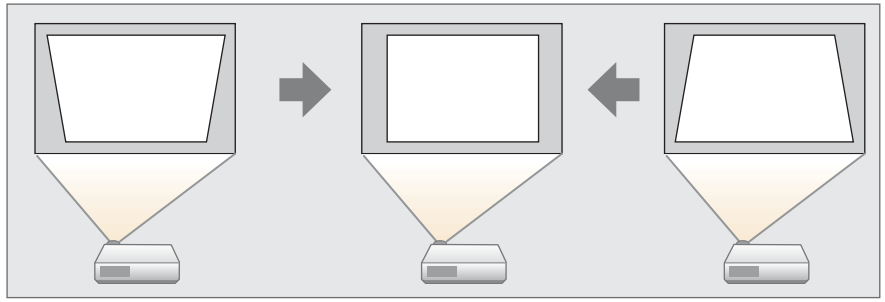
For Mac OS

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

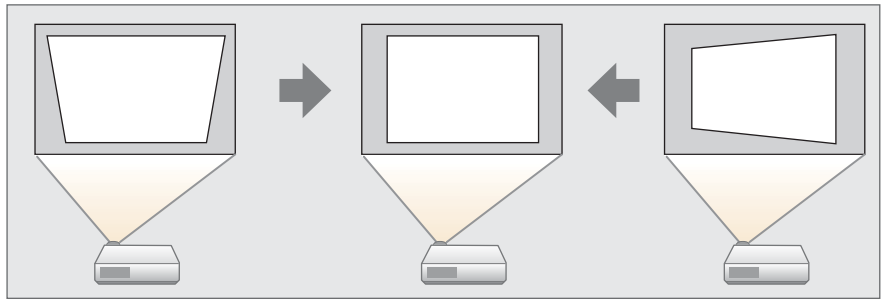
Correcting Keystone Distortion

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

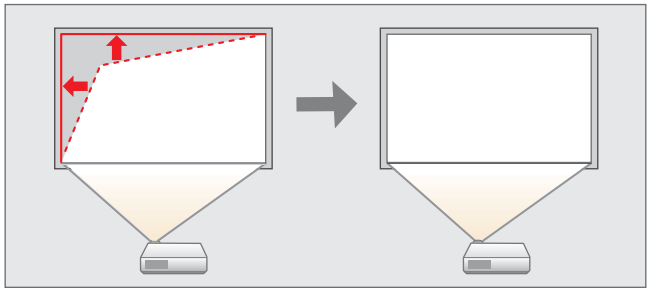
- Correcting automatically (Auto V-Keystone) (EB-X14G/EB-W02/EB-X02/EB-S02 only)
  Automatically corrects vertical keystone distortion.
- Correcting manually (V-Keystone) (EB-W02/EB-X02/EB-S02/EB-W01/EB-S01 only)
  Manually corrects vertical keystone distortion.



- Correcting manually (H/V-Keystone) (EB-X14G only)
  Manually correct distortion in the horizontal and vertical directions independently.



- Correcting manually (Quick Corner) (EB-X14G only)
  Manually correct the four corners independently.



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

Correcting automatically

Auto V-Keystone (EB-X14G/EB-W02/EB-X02/EB-S02 only)

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

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

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

Correction angle: approx. 30˚ up and down

- Auto V-Keystone works only when **Projection** is set to **Front** from the Configuration menu.
  ☛ **Extended** - **Projection** p.61
- If you do not want to enable Auto V-Keystone, set **Auto V-Keystone** or **Auto Keystone** to **Off**.
  ☛ **Settings** - **Keystone** - **H/V-Keystone** - **Auto V-Keystone** p.59
  ☛ **Settings** - **Auto Keystone** p.59

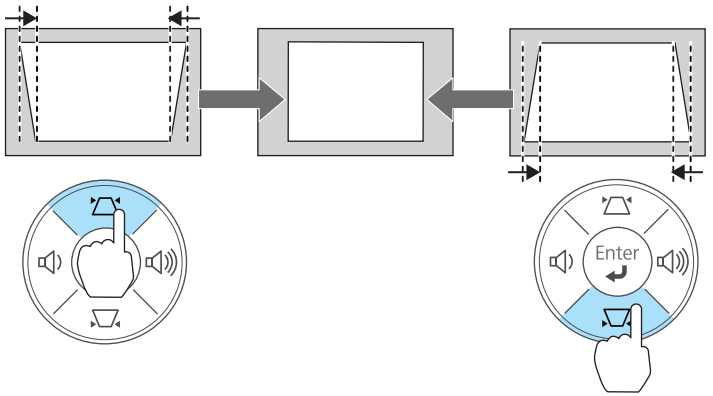
Correcting manually

You can manually correct keystone distortion.

- You can use V-Keystone to correct the projected image under the following conditions.
  Correction angle: approx. 30˚ up and down
- You can use H/V-Keystone to correct the projected image under the following conditions. (EB-X14G only)
  Correction angle: approx 30˚ right and left/approx. 30˚ up and down

V-Keystone (EB-W02/EB-X02/EB-S02/EB-W01/EB-S01 only)

Press the [▽] or [△] buttons on the control panel.

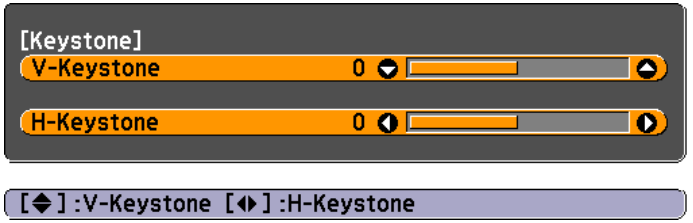


You can also set V-Keystone from the Configuration menu.
☛ **Settings** - **Keystone** p.59

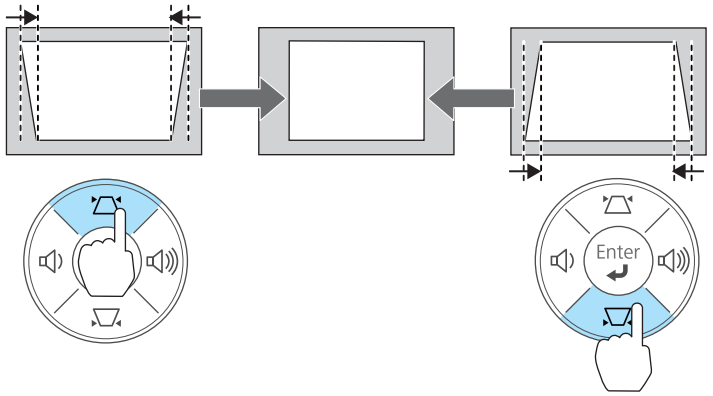
H/V-Keystone (EB-X14G only)

Manually correct distortion in the horizontal and vertical directions independently.

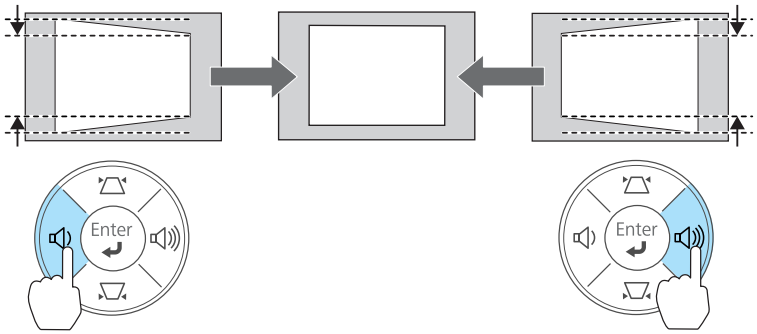
1 Press the [▽] or [△] buttons on the control panel during projection to display the Keystone screen.



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



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



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

☛ **Settings** - **Keystone** - **H/V-Keystone** p.59

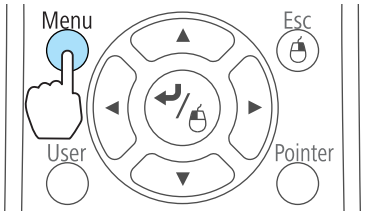
Quick Corner (EB-X14G only)

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

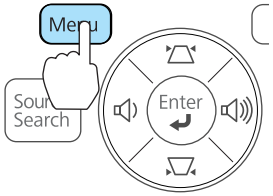
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.55

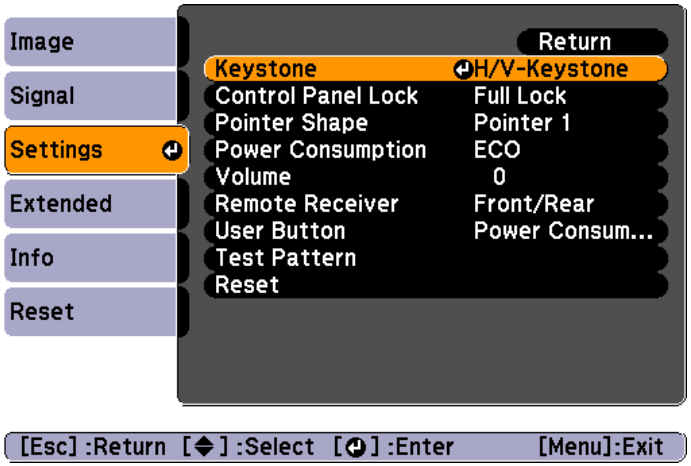
Using the remote control



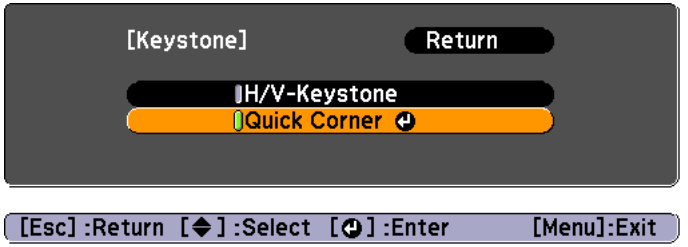
Using the control panel



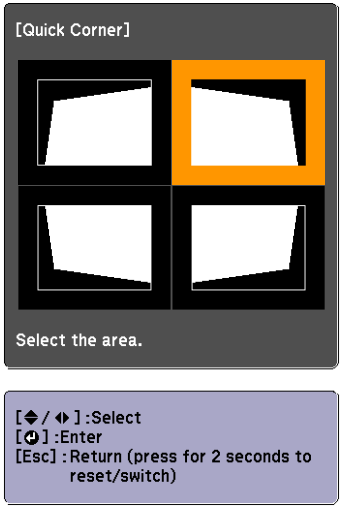
2 Select **Keystone** from **Settings**.



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



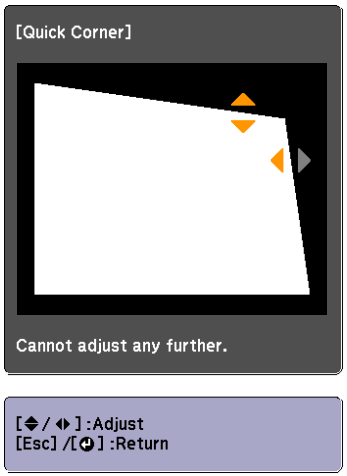
4 Using the [▲], [▼], [◀], and [▶] buttons on the remote control, or the [⏢], [⏢], [🔈], and [🔊] buttons on the control panel, select the corner to correct, and then press the [↵] button.



5 Using the [▲], [▼], [◀], and [▶] buttons on the remote control, or the [⏢], [⏢], [🔈], and [🔊] buttons on the control panel, correct the position of the corner.

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

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



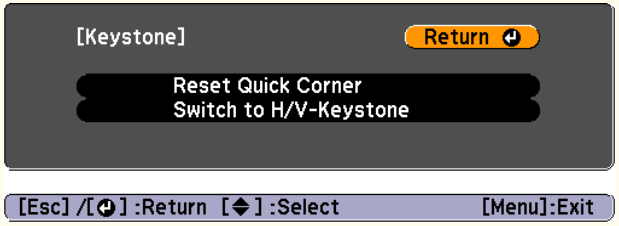
6 Repeat procedures 4 and 5 as needed to adjust any remaining corners.

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

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

☛ **Settings** - **Keystone** - **H/V-Keystone** p.59

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.59

Adjusting the Image Size

EB-X14G/EB-W02/EB-X02/EB-W01

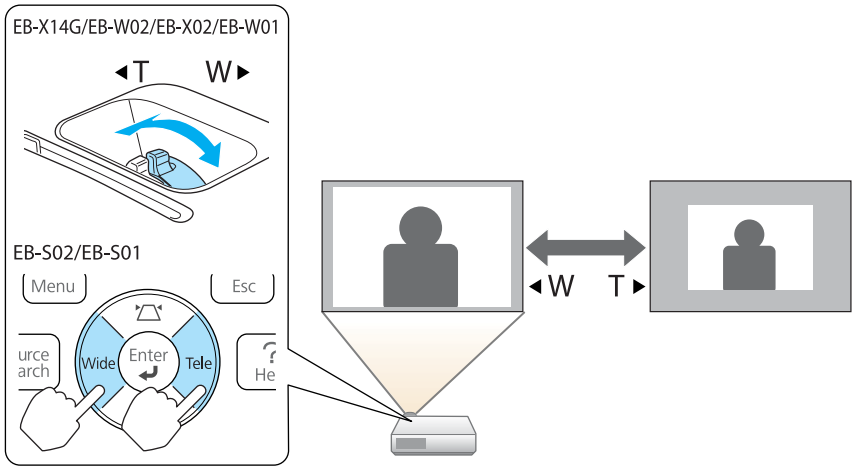
Turn the zoom ring to adjust the size of the projected image.

EB-S02/EB-S01

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

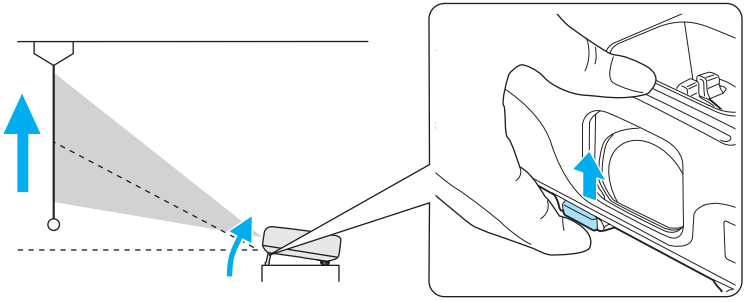
Wide: Enlarges the size of the projected image.

Tele: Reduces the size of the projected image.



Adjusting the Image Position

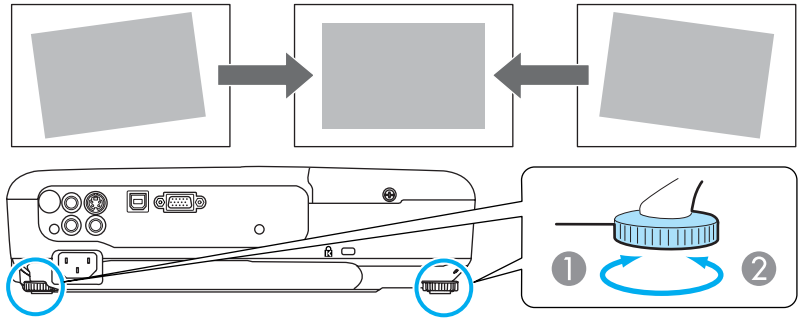
Press the foot adjust lever to extend and retract the front adjustable foot. You can adjust the position of the image by tilting the projector up to 12 degrees.



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

Adjusting the Horizontal Tilt

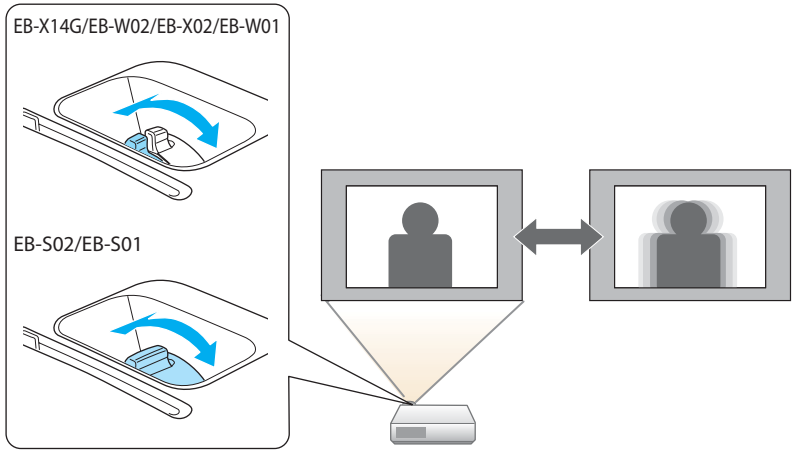
Extend and retract the rear feet to adjust the projector's horizontal tilt.



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

Correcting the Focus

You can correct the focus using the focus ring.

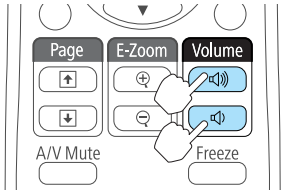


Adjusting the Volume

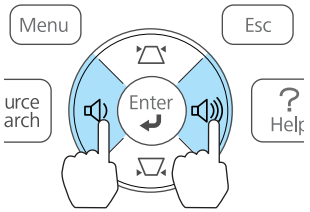
You can adjust the volume using one of the following methods.

- 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
(EB-X14G/EB-W02/EB-X02/EB-W01 only)



- Adjust the volume from the Configuration menu.
  ☛ **Settings** - **Volume** p.59

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

Selecting the Projection Quality (Selecting Color Mode)

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

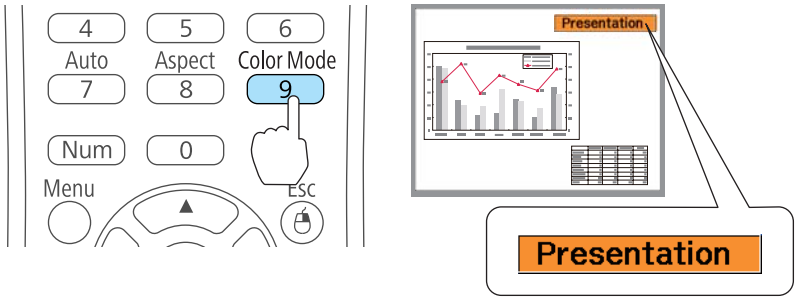
Mode	Application
Dynamic	Ideal for use in a bright room. This is the brightest mode, and reproduces shadow tones well.
Presentation	Ideal for making presentations using color materials in a bright room.
Theatre	Ideal for watching films in a dark room. Gives images a natural tone.
Photo*1	Ideal for projecting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

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

*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.57

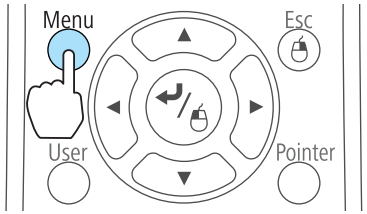
Setting Auto Iris

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

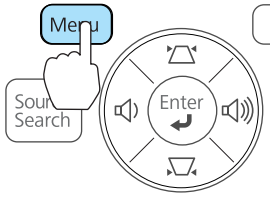
1 Press the [Menu] button.

☛ "Using the Configuration Menu" p.55

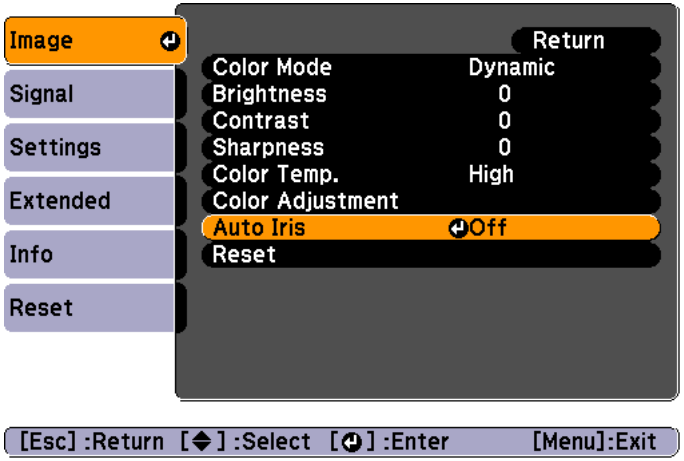
Using the remote control



Using the control panel



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



3 Select **On**.

The setting is stored for each Color Mode.

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

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

Changing the Aspect Ratio of the Projected Image

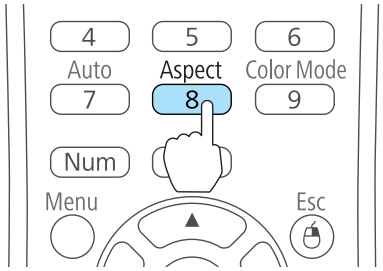
You can change the Aspect Ratio of the projected image to suit the type, the ratio of height and width, and the resolution of the input signals.

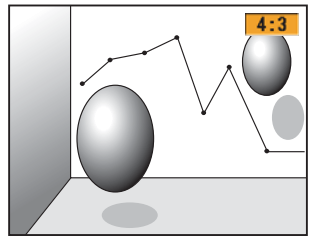
Available aspect modes vary depending on the image signal currently being projected.

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.

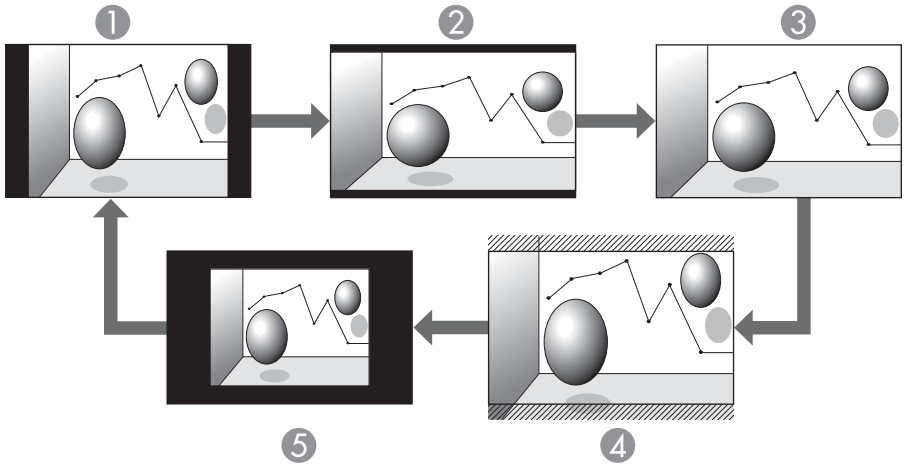
☛ **Signal** - **Aspect** p.58

Changing the aspect mode

Projecting images from video equipment (for EB-W02/EB-W01)

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

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

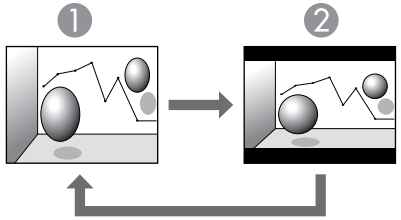


1. Normal
2. 16:9
3. Full
4. Zoom
5. Native

Projecting images from video equipment (for EB-X14G/EB-X02/EB-S02/EB-S01)

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

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

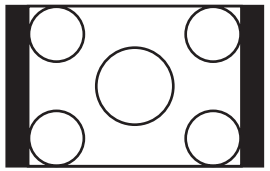
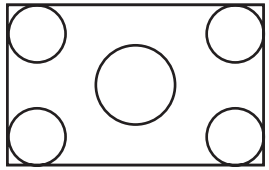
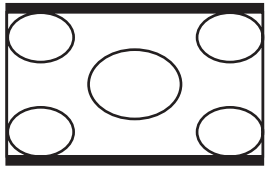
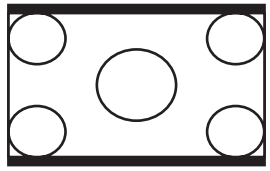
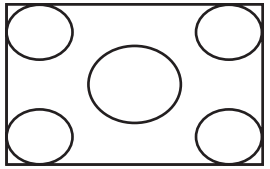
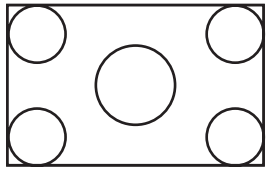
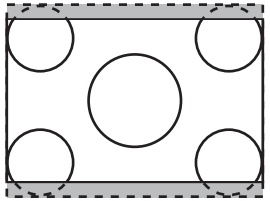
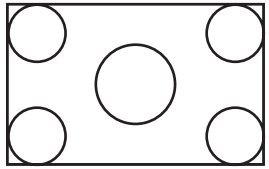


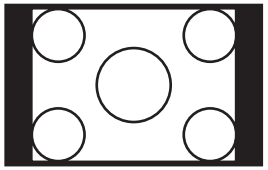
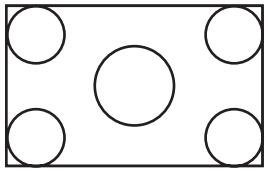
1. 4:3
2. 16:9

Projecting images from a computer

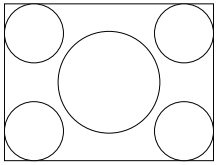
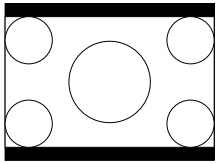
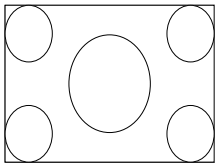
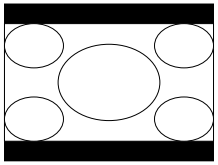
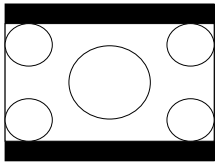
The following shows projection examples for each aspect mode.

EB-W02/EB-W01

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

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

EB-X14G/EB-X02/EB-S02/EB-S01

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

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

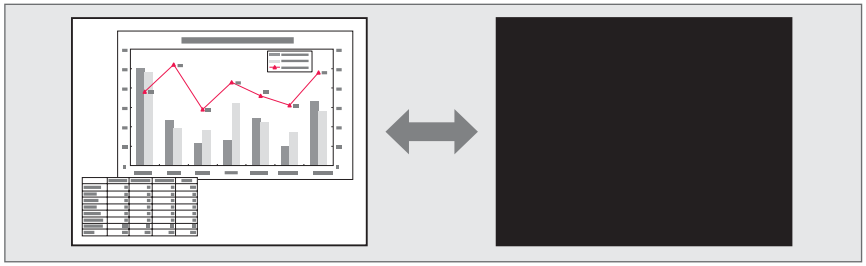
☛ **Signal** - **Resolution** p.58

Useful Functions

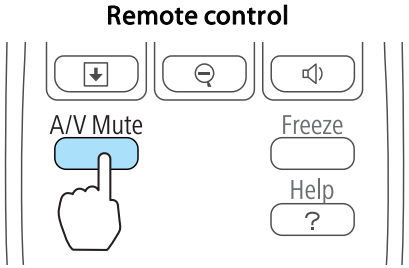
This chapter explains useful tips for giving presentations, and the Security functions.

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

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



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



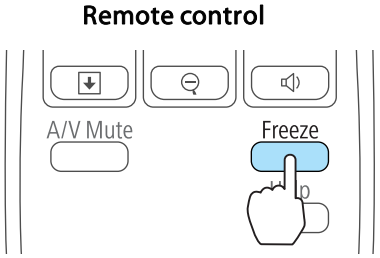
- When projecting moving images, the images and sound continue to be played back while A/V Mute is on. It is not possible to resume projection from the point where A/V Mute was activated.
- You can select the screen displayed when the [A/V Mute] button is pressed from the Configuration menu.

  ☛ **Extended** - **Display** - **A/V Mute** p.61
- The lamp is still lit during A/V Mute, so the lamp hours continue to accumulate.

Freezing the Image (Freeze)

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

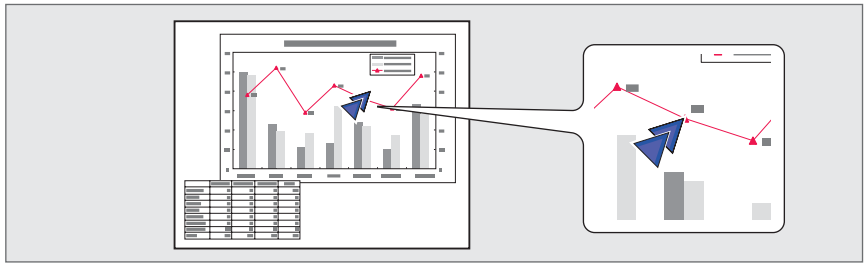
Each time you press the [Freeze] button, Freeze turns on or off.



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

Pointer Function (Pointer)

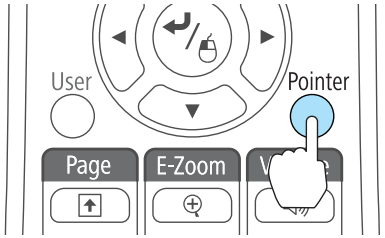
This allows you to move a Pointer icon on the projected image, and helps you draw attention to the area you are talking about.



1 Display the Pointer.

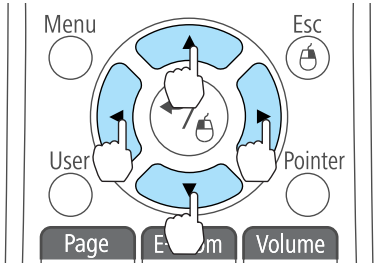
Each time you press the [Pointer] button, the pointer appears or disappears.

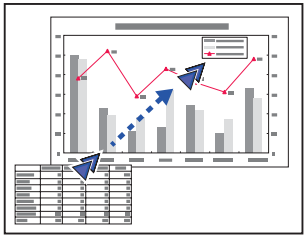
Remote control



2 Move the Pointer icon ( ).

Remote control





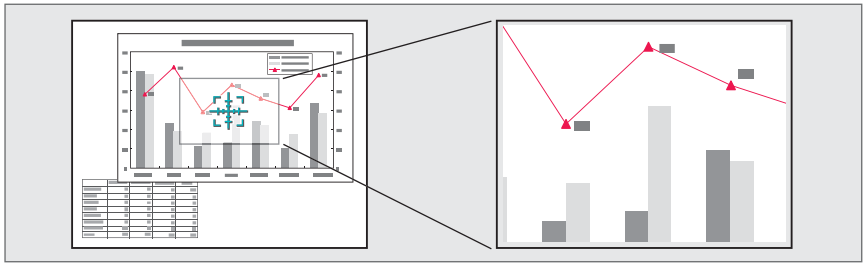
When any pair of adjacent [ ], [ ], [ ], or [ ] buttons are pressed at the same time, the pointer can be moved diagonally.

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

☛ **Settings** - **Pointer Shape** p.59

Enlarging Part of the Image (E-Zoom)

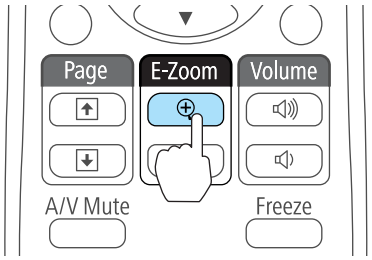
This is useful when you want to expand images to see them in greater detail, such as graphs and tables.



1 Start E-Zoom.

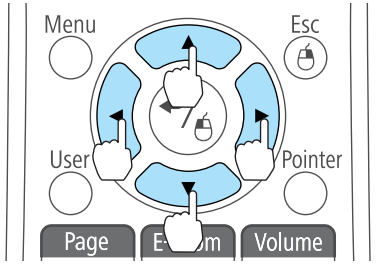
Press the [⊕] button to display the Cross (✛).

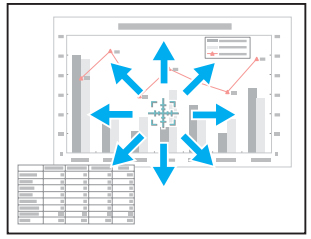
Remote control



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

Remote control

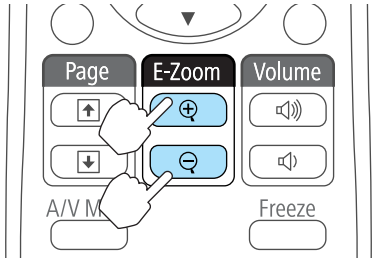




When any pair of adjacent [△], [▽], [◁], or [▷] buttons are pressed at the same time, the pointer can be moved diagonally.

3 Enlarge.

Remote control



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

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

[Esc] button: Cancels E-Zoom.

- The enlargement ratio appears on the screen. The selected area can be enlarged to between 1 to 4 times in 25 incremental steps.
- During enlarged projection, press the [△], [▽], [◁], and [▷] buttons to scroll the image.

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

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

The following operating systems are compatible with Wireless Mouse.

	Windows	Mac OS
OS	Windows 98 Windows 98SE Windows Me Windows 2000 Windows XP Windows Vista Windows 7	Mac OS X 10.3.x Mac OS X 10.4.x Mac OS X 10.5.x Mac OS X 10.6.x

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

Use the following procedure to enable the Wireless Mouse function.

1 Connect the projector to the computer with the USB cable.

☛ "Connecting a Computer" p.22

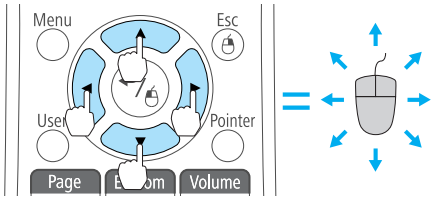
2 Change the source to one of the following.

- USB Display
- Computer

☛ "Switching to the Target Image by Remote Control" p.28

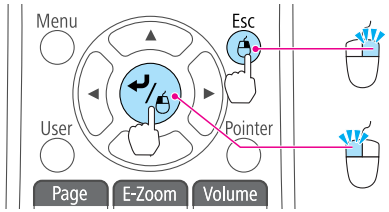
Once set, the mouse pointer can be controlled as follows.

Moving the mouse pointer



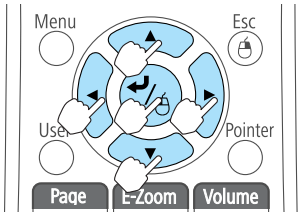
[▲][▼][◀][▶] buttons:
Moves the mouse pointer.

Mouse clicks



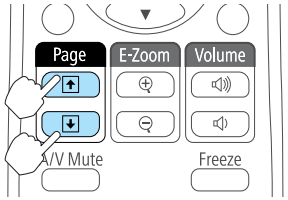
[Esc] button: Right click.
[↵] button: Left click. Press quickly twice to double-click.

Drag and drop



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

Page Up/Down



[⏫] button: Moves to the previous page.
[⏬] button: Moves to the next page.

- When any pair of adjacent [▲], [▼], [◀], or [▶] buttons are pressed at the same time, the pointer can be moved diagonally.
- If the mouse button settings are set to reverse on the computer, the operation of the remote control buttons will also be reversed.
- The Wireless Mouse function does not work under the following conditions.
  - When the Configuration menu or a Help screen is displayed
  - When operating functions other than the Wireless Mouse function (such as adjusting the volume)

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

Saving a User's Logo

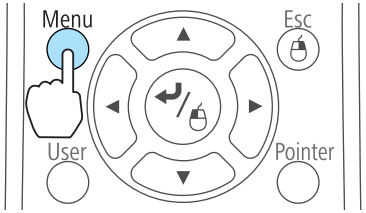
You can save the image that is currently being projected as a User's Logo.

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

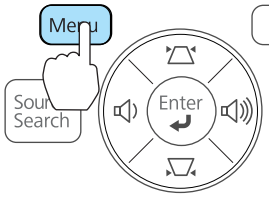
1 Project the image you want to save as the User's Logo, and then press the [Menu] button.

☛ "Using the Configuration Menu" p.55

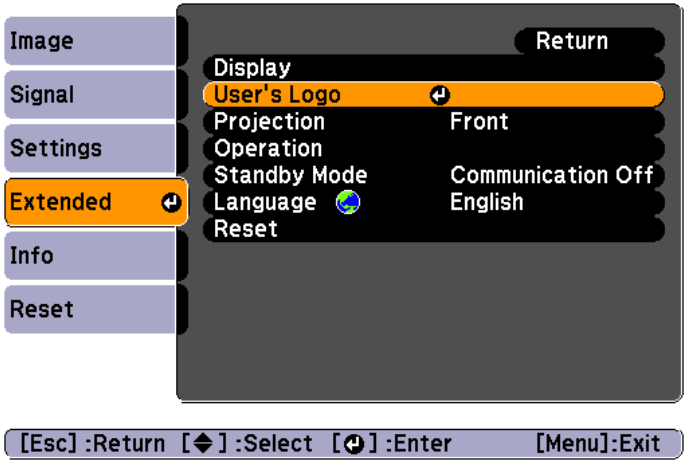
Using the remote control



Using the control panel



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



- When **User's Logo Protect** from **Password Protect** is set to **On**, a message is displayed and the User's Logo cannot be changed. You can make changes after setting **User's Logo Protect** to **Off**.

  ☛ "Managing Users (Password Protect)" p.49

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

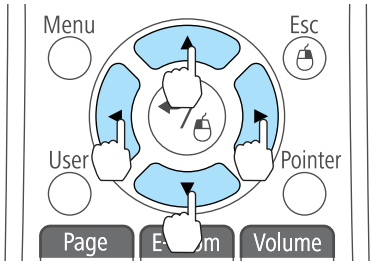
3 When the message "Choose this image as the User's Logo?" is displayed, select **Yes**.

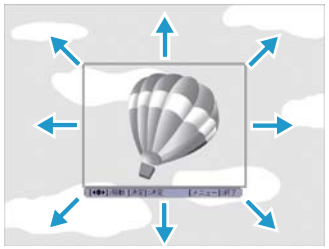
When you press the [↵] button on the remote control or the control panel, the screen size may change depending on the signal to match the actual resolution of the image signal.

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

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

Remote control

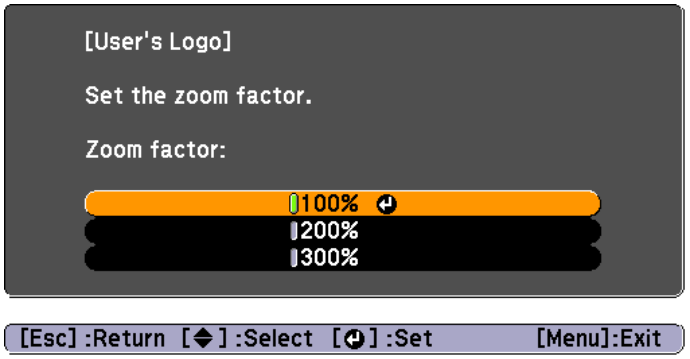




You can save at 400x300 dots in size.

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

6 Select the zoom factor from the zoom setting screen.



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.

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.51
- Anti-Theft Lock
  The projector is equipped with the following anti-theft security device.
  ☛ "Anti-Theft Lock" p.52

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 Protect**
  Even if someone tries to change the User's Logo set by the owner of the projector, it cannot be changed. When **User's Logo Protect** is set to **On**, the following setting changes for the User's Logo are prohibited.
  - Capturing a User's Logo
  - Setting **Display Background**, **Startup Screen**, or **A/V Mute** from **Display**
    ☛ **Extended** - **Display** p.61

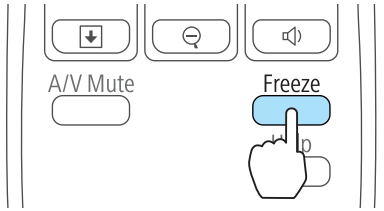
Setting Password Protect

Use the following procedure to set Password Protect.

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

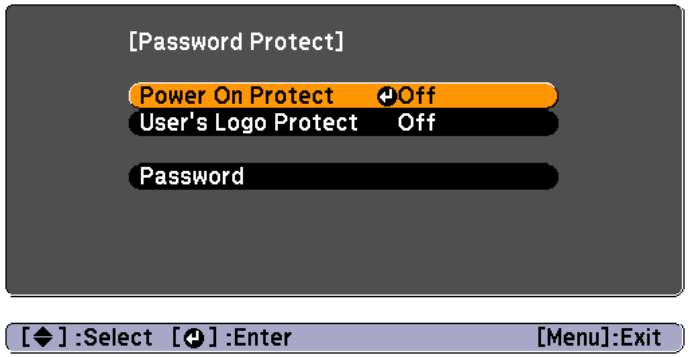
The Password Protect setting menu is displayed.

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.50
- 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.

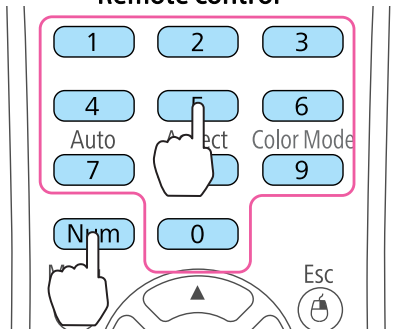
4 Set the password.

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

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

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

Remote control

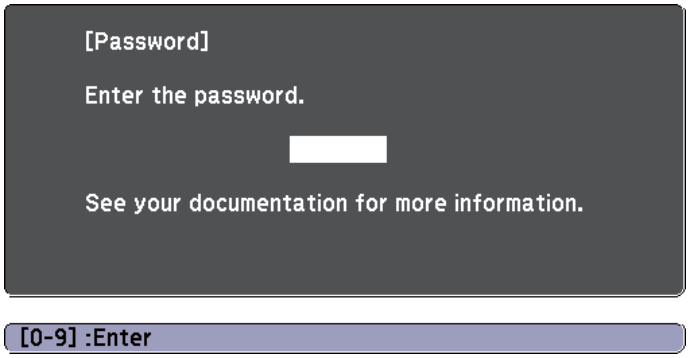


(4) Re-enter the password.
The message "Password accepted." is displayed.
If you enter the password incorrectly, a message is displayed prompting you to re-enter the password.

Entering the Password

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

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



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

Attention

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

  ☛ *Epson Projector Contact List*
- If you continue to repeat the above operation and enter the wrong password thirty times in succession, the following message is displayed and the projector does not accept any more password entries. "The projector's operation will be locked. Contact Epson as described in your documentation."

  ☛ *Epson Projector Contact List*

Restricting Operation (Control Panel Lock)

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

- Full Lock

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

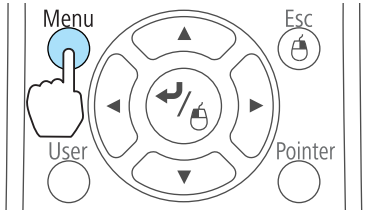
  All of the buttons on the control panel, except for the [⏻] button, are locked.

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

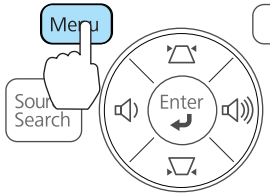
1 Press the [Menu] button while projecting.

☛ "Using the Configuration Menu" p.55

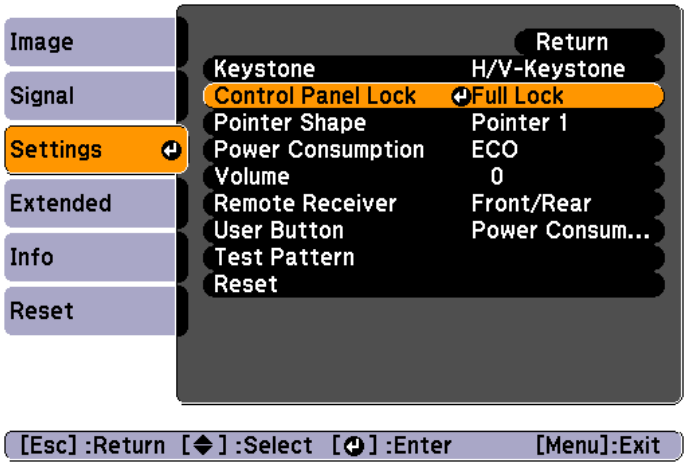
Using the remote control



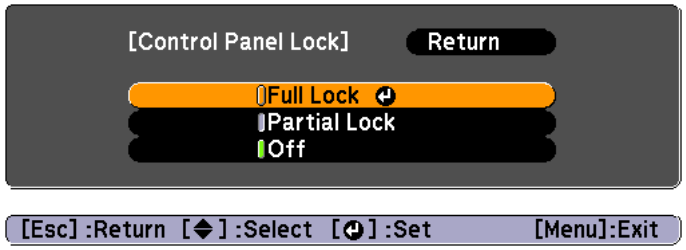
Using the control panel



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



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



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

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

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

- Select **Off** from **Control Panel Lock**.
  ☛ **Settings** - **Control Panel Lock** p.59
- Press and hold down the [↵] button on the control panel for about seven seconds, a message is displayed and the lock is released.

Anti-Theft Lock

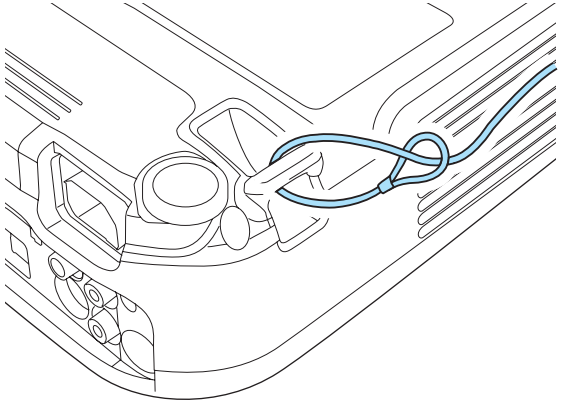
The projector is equipped with the following types of anti-theft security devices.

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

Installing the wire lock

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

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



ESC/VP21 Commands

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

Connect the projector to the computer with the USB cable.

Before starting

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

   ☛ *Epson Projector Contact List*

2. Set **USB Type B** to **Link 21L** from the Extended menu.

   ☛ **Extended - USB Type B** p.61

3. Connect the computer's USB port to the projector's USB (Type 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.

The main contents are listed below.

Item			Command
Power ON/OFF	On		PWR ON
	Off		PWR OFF
Signal selection	Computer	Auto	SOURCE 1F
		RGB	SOURCE 11
		Component	SOURCE 14
	Video		SOURCE 41
	S-Video		SOURCE 42
	USB Display		SOURCE 51
A/V Mute On/Off	On		MUTE ON
	Off		MUTE OFF

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

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

☛ *Epson Projector Contact List*

Communications protocol

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

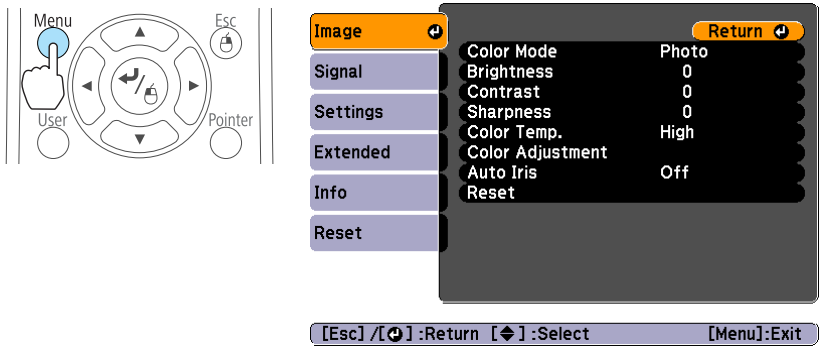
Configuration Menu

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

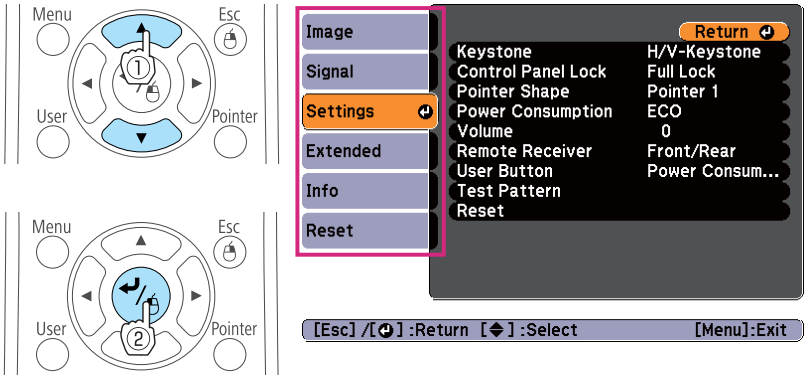
This section explains how to use the Configuration menu.

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

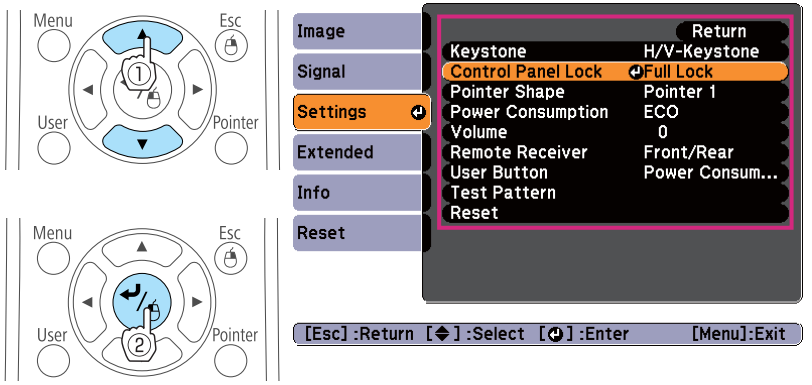
1 Display the Configuration menu screen.



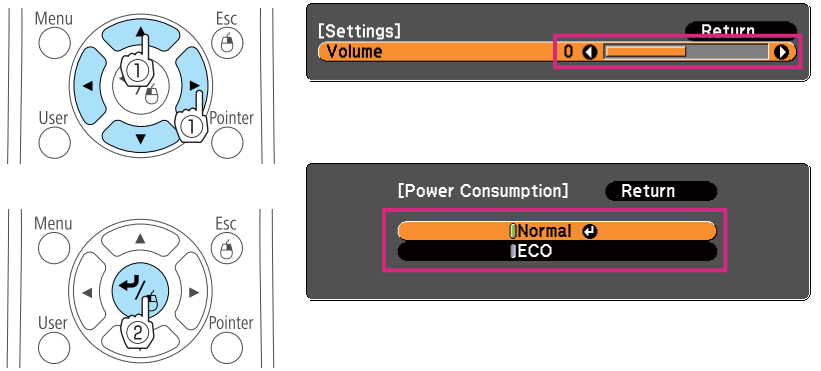
2 Select a top menu item.



3 Select a submenu item.



4 Change settings.



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

Configuration Menu Table

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

Top Menu Name	Submenu Name	Items or Setting Values
Image menu ☛ p.57	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	On and Off
Signal menu ☛ p.58	Auto Setup	On and Off
	Resolution	Auto, Wide, and Normal
	Tracking	-
	Sync.	0 to 31
	Position	Up, Down, Left, and Right
	Progressive	On and Off
	Input Signal	Auto, RGB, and Component
	Video Signal	Auto, NTSC, NTSC4.43, PAL, M-PAL, N-PAL, PAL60, and SECAM
	Aspect	Normal, 4:3, 16:9, Full, Zoom, and Native
	Overscan	Off, 4%, and 8%
Settings menu ☛ p.59	Keystone	-60 to 60 (EB-W02/EB-X02/EB-S02/EB-W01/EB-S01 only) H/V-Keystone and Quick Corner (EB-X14G only)
	Auto Keystone	On and Off
	Zoom	-
	Control Panel Lock	Full Lock, Partial Lock, and Off
	Pointer Shape	Pointer 1, 2, and 3
	Power Consumption	Normal and ECO
	Volume	0 to 10
	Remote Receiver	Front/Rear, Front, Rear and Off
	User Button	Brightness Control, Info, Progressive, Test Pattern, Resolution
	Test Pattern	-
Extended menu ☛ p.61	Display	Messages, Display Background, Startup Screen, and A/V Mute
	User's Logo	-
	Projection	Front, Front/Ceiling, Rear, and Rear/Ceiling
	Operation	Direct Power On, Sleep Mode, Sleep Mode Timer, and High Altitude Mode
	Standby Mode	Communication On and Communication Off
	USB Type B	USB Display and Link 21L
	Language	15 or 35 languages*1
Info menu ☛ p.62	Lamp Hours	-

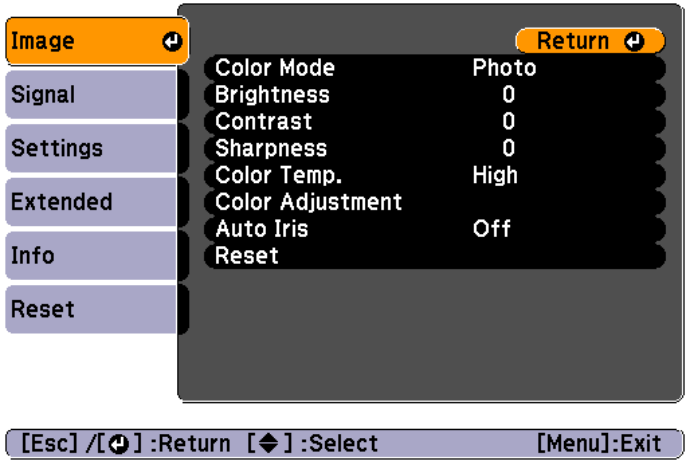
Top Menu Name	Submenu Name	Items or Setting Values
	Source	-
	Input Signal	-
	Resolution	-
	Video Signal	-
	Refresh Rate	-
	Sync Info	-
	Status	-
	Serial Number	-
Reset menu ☛ p.63	Reset All	-
	Reset Lamp Hours	-

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

Image Menu

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

☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.27



Submenu	Function
Color Mode	You can select the quality of the image to suit your surroundings. ☛ "Selecting the Projection Quality (Selecting Color Mode)" p.37
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.
Color Temp.	(This item cannot be selected if **Color Mode** is set to sRGB.) You can adjust the overall tint of the image. You can adjust tints in three stages from **High**, **Medium**, and **Low**. The image is tinted blue when **High** is selected and tinted red when **Low** is selected.

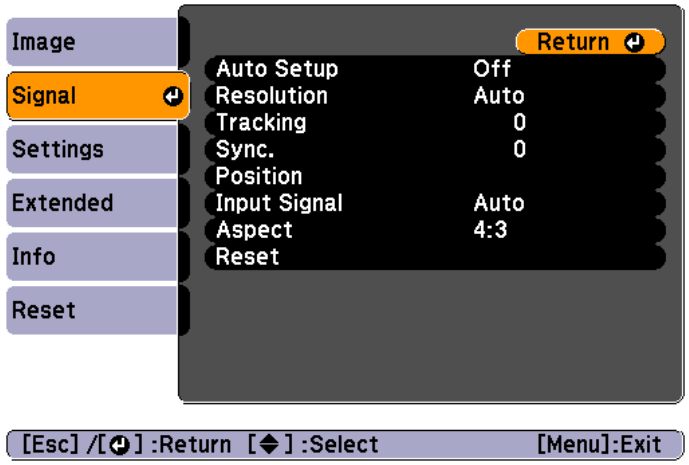
Submenu	Function
Color Adjustment	(This item cannot be selected if **Color Mode** is set to sRGB.) You can adjust the color strength for **Red, Green**, and **Blue** individually.
Auto Iris	(This item can be set only if **Color Mode** is set to **Dynamic** or **Theatre**.) Set to **On** to adjust the iris to obtain the optimum light for images being projected. The setting is stored for each Color Mode. ☛ "Setting Auto Iris" p.38
Reset	You can reset all adjustment values for the **Image** menu to their default settings. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.63

Signal Menu

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

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

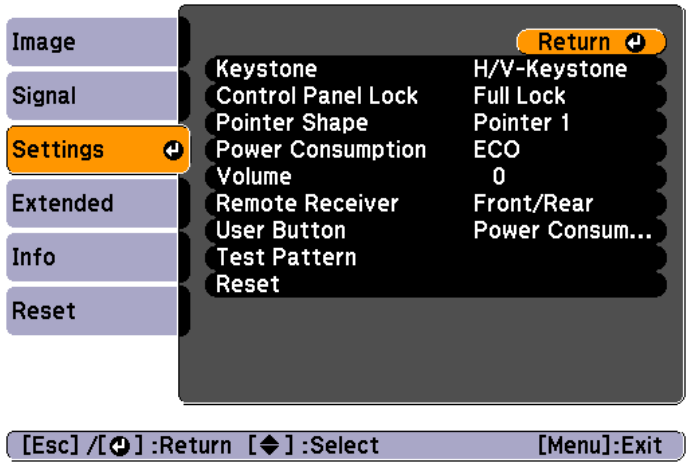
☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.27



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	Function
Progressive	(This setting can only be adjusted when a component video with an interlaced signal (480i/576i/1080i) is input.) Interlace (i) signal is converted to Progressive (p). (IP conversion) **On**: Ideal for still images. **Off**: Ideal for images with a large amount of movement.
Input Signal	You can select input signal from Computer port. If set to **Auto**, the input signal is set automatically according to the connected equipment. If colors do not appear correctly when set to **Auto**, select the appropriate signal according to the connected equipment.
Video Signal	You can select the input signal from the Video port. If this is set to **Auto**, video signals are recognized automatically. If interference appears in the image or a problem occurs such as no image is being projected when set to **Auto**, select the appropriate signal depending on the connected equipment.
Aspect	You can set the aspect ratio for projected images. ☛ "Changing the Aspect Ratio of the Projected Image " p.39
Overscan	Changes the output image ratio (the range of the projected image). You can set the cropping range to **Off**, **4%**, or **8%**.
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.63

Settings Menu

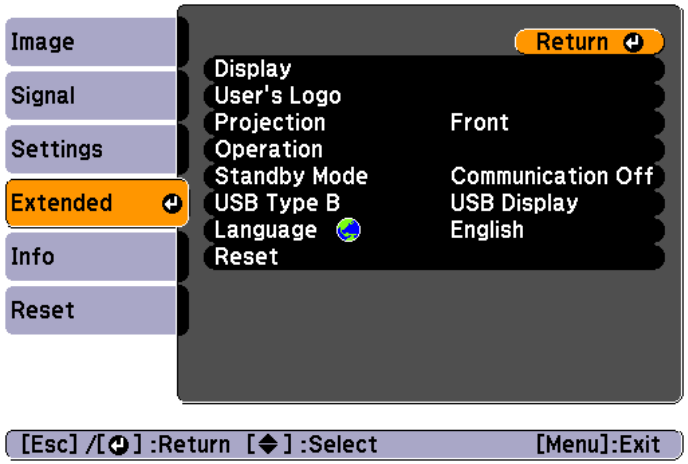


Submenu	Function
Keystone	You can correct keystone distortion. • For EB-W02/EB-X02/EB-S02/EB-W01/EB-S01 Adjust **Keystone** to correct vertical keystone distortion. • For EB-X14G **H/V-Keystone**: Adjust **V-Keystone** and **H-Keystone** to correct horizontal and vertical keystone distortion. You can also set Auto V-Keystone to **On** or **Off**. **Quick Corner**: Select and correct the four corners of the projected image. ☛ "Quick Corner (EB-X14G only)" p.34
Auto Keystone (EB-W02/EB-X02/EB-S02 only)	When set to **On**, keystone distortion is automatically corrected. (This item cannot be selected if Projection is set to Front/Ceiling, Rear, or Rear/Ceiling.) ☛ "Correcting automatically" p.32
Zoom (EB-S02/EB-S01 only)	Adjusts the size of the projected image.

Submenu	Function
Control Panel Lock	You can use this to restrict operation of the projector's control panel. ☛ "Restricting Operation (Control Panel Lock)" p.51
Pointer Shape	You can select the shape of the pointer. Pointer 1: Pointer 2: Pointer 3: ☛ "Pointer Function (Pointer)" p.43
Power Consumption	You can set the lamp brightness to one of two settings. Select **ECO** if the images being projected are too bright, such as when projecting images in a dark room or onto a small screen. When **ECO** is selected, the power consumption and the lamp's operating life are changed as follows, and fan rotation noise during projection is reduced. Electrical consumption: about 17.5% decrease, lamp life: about 1.25 times longer When the projector is used at a high altitude or in a location subject to high temperatures, the **ECO** setting may be used automatically. If this happens, **Power Consumption** is grayed out and cannot be adjusted.
Volume	You can adjust the volume. Setting values are saved for each source. For EB-W01/EB-S01, this item cannot be set when the input source is Computer.
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.

Submenu	Function
User Button	You can select and assign an item from the Configuration menu with the remote control's [User] button. Pressing the [User] button directly displays the assigned menu item selection/adjustment screen, allowing you to make one-touch changes to settings/adjustments. You can assign one of the following items to the [User] button. **Brightness Control**, **Info**, **Progressive**, **Test Pattern**, **Resolution**
Test Pattern	When the projector is set up, a test pattern is displayed so that you can adjust the projection status without connecting equipment. While the test pattern is displayed, zoom, focus adjustments, and keystone correction can be performed. To cancel the test pattern, press the [Esc] button on the remote control or the control panel. **Attention** If a pattern is displayed for a long time, a residual image may be visible in projected images.
Reset	You can reset all adjustment values on the **Settings** menu to their default settings, except for **Zoom** (EB-S02/EB-S01 only) and **User Button**. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.63

Extended Menu



Submenu	Function
Display	You can make settings related to the projector's display. **Messages**: When set to **Off**, the following items will not be displayed. Item names when the Source, Color Mode, or Aspect Ratio is changed, messages when no signal is being input, and warnings such as High Temp Warning. **Display Background***1: You can set the screen background to **Black**, **Blue**, or **Logo** when no image signal is available. **Startup Screen***1: Set to **On** to display the **User's Logo** when projection starts. **A/V Mute***1: You can set the screen displayed when the remote control's [A/V Mute] button is pressed to **Black**, **Blue**, or **Logo**.
User's Logo*1	You can change the user's logo that is displayed as a background during Display Background, A/V Mute, and so on. ☛ "Saving a User's Logo" p.47

Submenu	Function
Projection	Select from one of the following projection methods depending on how the projector is installed. **Front**, **Front/Ceiling**, **Rear**, and **Rear/Ceiling** You can change the setting as follows by pressing down the [A/V Mute] button on the remote control for about five seconds. **Front↔Front/Ceiling** **Rear↔Rear/Ceiling** ☛ "Installation Methods" p.19
Operation	**Direct Power On**: Set to **On** to turn on the projector simply by plugging it in. When the power cable is plugged in, note that the projector turns on automatically in cases such as a power outage being restored. **Sleep Mode**: When set to **On**, this automatically stops projection when no image signal is being input and no operations are carried out. **Sleep Mode Timer**: When **Sleep Mode** is set to **On**, you can set the time before the projector automatically turns off within a range of 1 to 30 minutes. **High Altitude Mode**: Set to **On** when using the projector above an altitude of 1500 m.
Standby Mode	When set to **Communication On**, you can monitor and control the projector from a computer, even if the projector is in standby mode. ☛ "Monitoring and Controlling" p.53
USB Type B	**USB Display**: Enables USB Display. ☛ "Projecting with USB Display" p.28 **Link 21L**: Enables ESC/VP21 commands. ☛ "ESC/VP21 Commands" p.53
Language	You can set the language for messages and menus.

Submenu	Function
Reset	You can reset the adjustment values for **Display***1 and **Operation***2 from the **Extended** menu to their default settings. See the following to return all menu items to their default settings. ☛ "Reset Menu" p.63

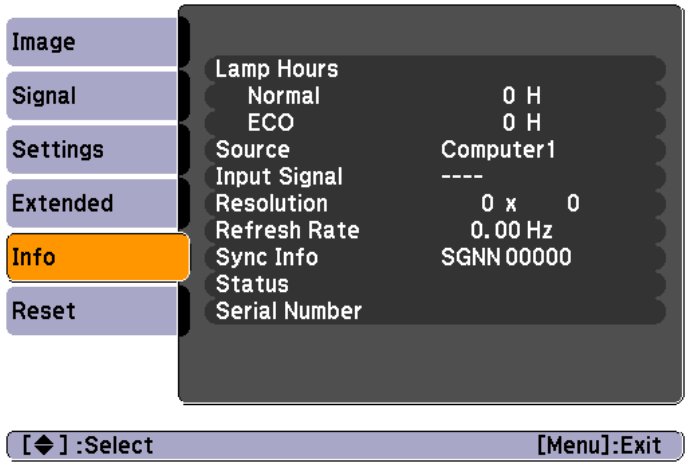
*1 When **User's Logo Protect** is set to **On** in **Password Protect**, settings related to user's logo cannot be changed. You can make changes after setting **User's Logo Protect** to **Off**.
☛ "Managing Users (Password Protect)" p.49

*2 Except for High Altitude Mode.

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.27

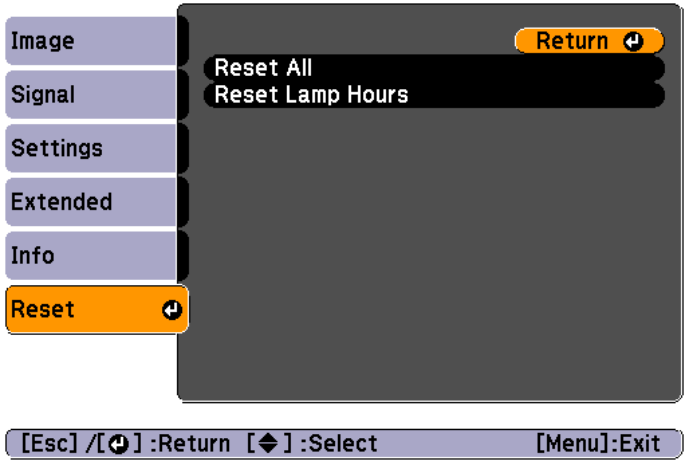


Submenu	Function
Lamp Hours	You can display the cumulative lamp operating time*. When it reaches the lamp warning time, the characters are displayed in yellow.
Source	You can display the source name for the connected equipment currently being projected.
Input Signal	You can display the content of **Input Signal** set in the **Signal** menu according to the source.
Resolution	You can display the resolution.
Refresh Rate	You can display the refresh rate.
Sync Info	You can display the image signal information. This information may be needed if service is required.
Video Signal	You can display the settings for **Video Signal** in the **Signal** menu.
Status	This is information about errors that have occurred on the projector. This information may be needed if service is required.

Submenu	Function
Serial Number	Displays the projector's serial number.

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

Reset Menu



Submenu	Function
Reset All	You can reset all items in the Configuration menu to their default settings. The following items are not reset to their defaults: **Input Signal**, **User's Logo**, **Lamp Hours**, **Language**, **Password**, **Zoom** (EB-S02/EB-S01 only), and **User Button**.
Reset Lamp Hours	Clears the cumulative lamp hours use time. Reset when you replace the lamp.

Troubleshooting

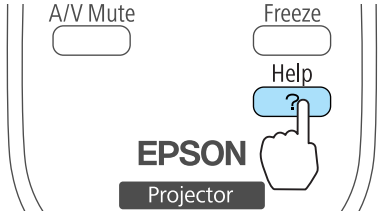
This chapter explains how to identify problems and what to do if a problem is found.

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

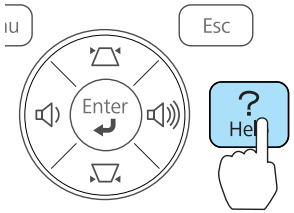
1 Press the [Help] button.

The Help screen is displayed.

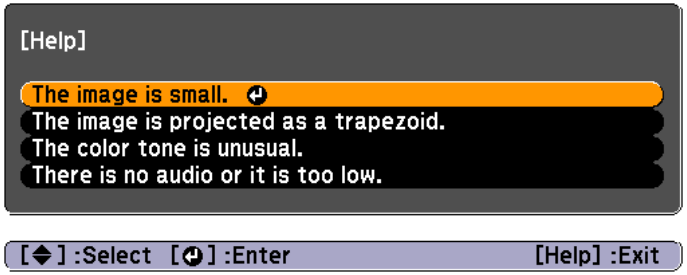
Using the remote control



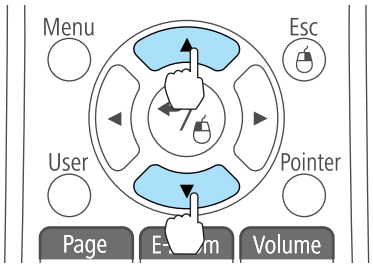
Using the control panel



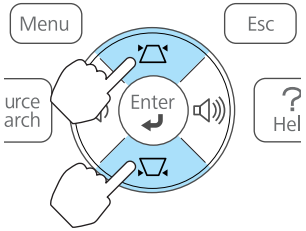
2 Select a menu item.



Using the remote control

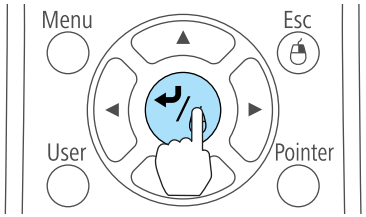


Using the control panel

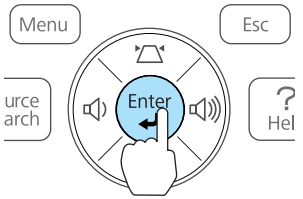


3 Confirm the selection.

Using the remote control

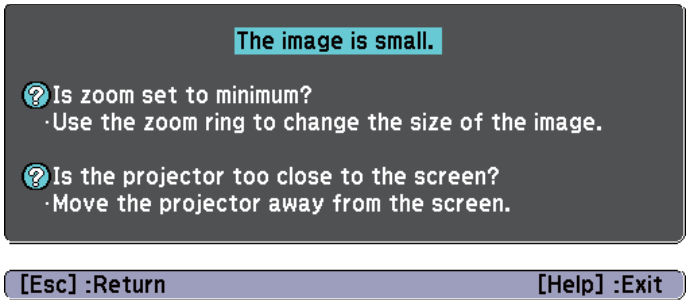


Using the control panel



Questions and solutions are displayed as shown on the screen below.

Press the [Help] button to exit the Help.



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

☛ "Problem Solving" p.66

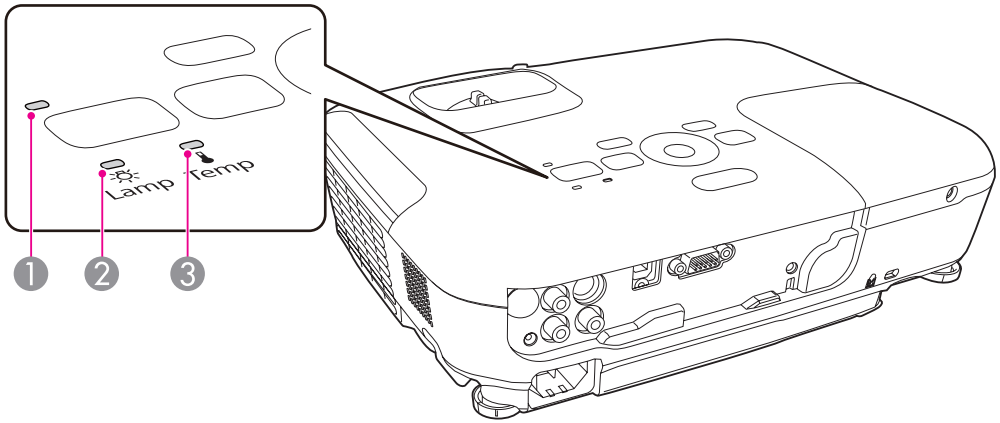
If you are having a problem with the projector, first check the projector's indicators and refer to "Reading the Indicators" below.

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

☛ "When the Indicators Provide No Help" p.69

Reading the Indicators

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



❶ Power indicator — Indicates the operating status.

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

❷ Lamp indicator — Indicates the projection lamp status.

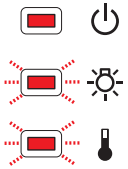
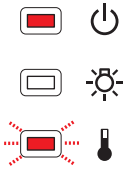
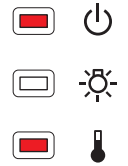
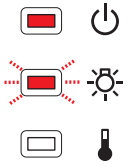
❸ Temp indicator — Indicates the internal temperature status.

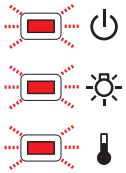
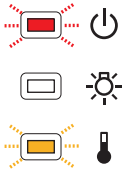
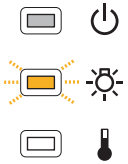
Refer to the following table to see what the indicators mean and how to remedy problems that they indicate.

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

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

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

Status	Cause	Remedy or Status
	Internal Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
	Fan Error Sensor Error	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
	High Temp Error (overheating)	The lamp turns off automatically and projection stops. Wait for about five minutes. After about five minutes the projector switches to standby mode, so check the following two points. • Check that the air filter and air exhaust vent are clear, and that the projector is not positioned against a wall. • If the air filter is clogged, clean or replace it. ☛ "Cleaning the Air Filter" p.79, "Replacing the Air Filter" p.84 If the error continues after checking the points above, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
		When using at an altitude of 1500 m or more, set **High Altitude Mode** to **On**. ☛ "Extended Menu" p.61
	Lamp Error Lamp Failure	Check the following two points. • Take out the lamp and check if it is cracked. ☛ "Replacing the Lamp" p.81 • Clean the air filter. ☛ "Cleaning the Air Filter" p.79

Status	Cause	Remedy or Status
		If the lamp is not cracked: Reinstall the lamp and turn on the power. **If the error continues**: Replace the lamp with a new one and then turn on the power. **If the error continues**: Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
		If the lamp is cracked: Contact your local dealer or the nearest address provided in the Epson Projector Contact List. (Images cannot be projected until the lamp is replaced.) ☛ *Epson Projector Contact List*
		When using at an altitude of 1500 m or more, set **High Altitude Mode** to **On**. ☛ "Extended Menu" p.61
	Auto Iris Error Power Err.	Stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
	High Temp Warning	(This is not an abnormality. However, if the temperature rises too high again, projection stops automatically.) • Check that the air filter and air exhaust vent are clear, and that the projector is not positioned against a wall. • If the air filter is clogged, clean or replace it. ☛ "Cleaning the Air Filter" p.79, "Replacing the Air Filter" p.84
	Replace Lamp	Replace it with a new lamp. ☛ "Replacing the Lamp" p.81 If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may explode increases. Replace it with a new lamp as soon as possible.

- See the following if the projector is not operating properly, even though the indicators are all showing normal.
  ☛ "When the Indicators Provide No Help" p.69
- If the indicators are in a state not shown in this table, stop using the projector, remove the power plug from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List.
  ☛ *Epson Projector Contact List*

When the Indicators Provide No Help

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

Problems Relating to Images

• **No images appear** Projection does not start, the projection area is completely black, or the projection area is completely blue.	☛ p.70
• **Moving images are not displayed** Moving images being projected from a computer appear black and nothing is projected.	☛ p.71
• **Projection stops automatically**	☛ p.71
• **The message "Not supported" is displayed**	☛ p.71
• **The message "No Signal" is displayed**	☛ p.71
• **Images are fuzzy, out of focus, or distorted**	☛ p.72
• **Interference or distortion appear in images**	☛ p.73
• **The image is truncated (large) or small, or the aspect ratio is not suitable** Only part of the image is displayed, or the height and width ratios of the image are not correct.	☛ p.73
• **Image colors are not right** The whole image appears purplish or greenish, images are black & white, or colors appear dull.	☛ p.74
• **Images appear dark**	☛ p.75

Problems when projection starts

• **The projector does not turn on**	☛ p.75

Other Problems

• **No sound can be heard or the sound is faint**	☛ p.76
• **The remote control does not work**	☛ p.76
• **I want to change the language for messages and menus**	☛ p.77

Problems Relating to Images

No images appear

Check	Remedy
Did you press the [⏻] button?	Press the [⏻] button to turn the power on.
Are the indicators switched off?	The power cable is not connected correctly or power is not being supplied. Connect the projector's power cable correctly. ☛ "From Installation to Projection" p.26 Check that your electrical outlet or power source is functioning correctly.
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mute. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.43
Is the lens cover closed?	Open the lens cover. ☛ "Front/Top" p.10
Are the Configuration menu settings correct?	Reset all of the settings. ☛ **Reset** - **Reset All** p.63
Is the image to be projected completely black? (Only when projecting computer images)	Some input images, such as screen savers, may be completely black.
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.58
Is the USB cable connected correctly? (Only when projecting USB Display)	Check that the USB cable is connected correctly. Reconnect it if it is not connected or not connected properly.
Is Windows Media Center displayed in full screen? (Only when projecting USB Display)	When Windows Media Center is displayed at full screen, you cannot project using USB Display. Reduce the screen size.
Is an application using the Windows DirectX function displayed? (Only when projecting USB Display)	Applications using the Windows DirectX function may not display images correctly.

Moving images are not displayed (only the moving image portion turns black)

Check	Remedy
Is the computer's image signal being output to the LCD and the monitor? (Only when projecting images from a laptop computer or a computer with a built-in LCD screen)	Change the image signal from the computer to external output only. Check your computer's documentation, or contact the computer's manufacturer.

Projection stops automatically

Check	Remedy
Is **Sleep Mode** set to **On**?	Press the [⏻] button to turn the power on. If you do not want to use Sleep Mode, change the setting to **Off**. ☛ **Extended** - **Operation** - **Sleep Mode** p.61

The message "Not supported" is displayed.

Check	Remedy
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.58
Do the image signal resolution and the refresh rate correspond to the mode? (Only when projecting computer images)	Refer to the computer's documentation for how to change the image signal resolution and the refresh rate output from the computer. ☛ "Supported Monitor Displays" p.92

The message "No Signal" is displayed.

Check	Remedy
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "From Installation to Projection" p.26
Is the correct port selected?	Change the image by pressing the [Source Search] button on the remote control or the control panel. ☛ "Automatically Detect Input Signals and Change the Projected Image (Source Search)" p.27
Is the power for the computer or video source turned on?	Turn the power on for the equipment.

Check	Remedy
Are the image signals being output to the projector? (Only when projecting images from a laptop computer or a computer with a built-in LCD screen)	If the image signals are only being output to the computer's LCD monitor or to the accessory monitor, you need to change the output to an external destination as well as the computer's own monitor. For some computer models, when the image signals are output externally, they no longer appear on the LCD monitor or accessory monitor. If the connection is made while the power of the projector or computer is already turned on, the Fn key (Function key) that changes the computer's image signal to external output may not work. Turn the power for the computer and the projector off and then back on again. ☛ "From Installation to Projection" p.26 ☛ Computer's documentation

Images are fuzzy, out of focus, or distorted

Check	Remedy
Is **Auto V-Keystone** or **Auto Keystone** set to **Off**? (EB-X14G/EB-W02/EB-X02/EB-S02 only)	Setting it to **On** enables Auto V-Keystone. ☛ **Settings** - **Keystone** - **H/V-Keystone** - **Auto V-Keystone** p.59 ☛ **Settings** - **Auto Keystone** p.59 If you are using the projector with this setting off, manually adjust the projected image. ☛ "Correcting manually" p.33
Is the focus adjusted correctly?	Turn the focus ring to adjust the focus. ☛ "Correcting the Focus" p.37
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.88
Is the keystone adjustment value too large?	Lower the projection angle to reduce the amount of keystone correction. ☛ "Adjusting the Image Position" p.36
Has condensation formed on the lens?	If the projector is suddenly taken from a cold environment to a warm environment, or if sudden ambient temperature changes occur, condensation may form on the surface of the lens, and this may cause the images to appear fuzzy. Set the projector up in the room about one hour before it is used. If condensation forms on the lens, turn the projector off and wait for the condensation to disappear.

Interference or distortion appear in images

Check	Remedy
Is the image signal format setting correct? (Only when projecting images from a video source)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Video Signal** p.58
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "Connecting Equipment" p.22
Is an extension cable being used?	If an extension cable is used, electrical interference may affect the signals. Use the cables supplied with the projector to check if the cables you are using may be causing the problem.
Is the correct resolution selected? (Only when projecting computer images)	Set the computer so that the signals being output are compatible with the projector. ☛ "Supported Monitor Displays" p.92 ☛ Computer's documentation
Are the Sync. and Tracking settings adjusted correctly? (Only when projecting computer images)	Press the [Auto] button on the remote control or the [↵] button on the control panel to perform automatic adjustment. If the images are not adjusted correctly even after performing automatic adjustment, you can also make adjustments from the Configuration menu. ☛ **Signal** - **Tracking**, **Sync.** p.58
Is **Transfer layered window** selected? (Only when projecting USB Display)	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson USB Display Vx.xx Settings**, and then clear the **Transfer layered window** checkbox.

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

Check	Remedy
Is a wide panel computer image being projected? (Only when projecting computer images)	Change the setting according to the signal for the connected equipment. ☛ **Signal** - **Resolution** p.58
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.45
Is the image position adjusted correctly?	(Only when projecting analog RGB signals input from the Computer port) Press the [Auto] button on the remote control or the [↵] button on the control panel to adjust the position. You can also adjust the position from the Configuration menu. ☛ **Signal** - **Position** p.58

Check	Remedy
Is the computer set for dual display? (Only when projecting computer images)	If dual display is activated in the **Display Properties** of the computer's Control Panel, only about half of the image on the computer screen is projected. To display the entire image on the computer screen, turn off the dual display setting. ☛ Computer video driver documentation
Is the correct resolution selected? (Only when projecting computer images)	Set the computer so that the signals being output are compatible with the projector. ☛ "Supported Monitor Displays" p.92 ☛ Computer's documentation

Image colors are not right

Check	Remedy
Do the input signal settings match the signals from the connected device?	Change the following settings according to the signal for the connected equipment. • When the image is from a device connected to the Computer port ☛ **Signal** - **Input Signal** p.58 • When the image is from a device connected to the Video or S-Video port. ☛ **Signal** - **Video Signal** p.58
Is the image brightness adjusted correctly?	Adjust the **Brightness** setting from the Configuration menu. ☛ **Image** - **Brightness** p.57
Are the cables connected correctly?	Check that all the cables required for projection are securely connected. ☛ "Connecting Equipment" p.22
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.57
Is the color adjustment set correctly?	Adjust the **Color Adjustment** setting from the Configuration menu. ☛ **Image** - **Color Adjustment** p.57
Are the color saturation and tint adjusted correctly? (Only when projecting images from a video source)	Adjust the **Color Saturation** and **Tint** settings from the Configuration menu. ☛ **Image** - **Color Saturation**, **Tint** p.57

Images appear dark

Check	Remedy
Is the image brightness set correctly?	Adjust the **Brightness** and **Power Consumption** settings from the Configuration menu. ☛ **Image** - **Brightness** p.57 ☛ **Settings** - **Power Consumption** p.59
Is the contrast adjusted correctly?	Adjust the **Contrast** setting from the Configuration menu. ☛ **Image** - **Contrast** p.57
Is it time to replace the lamp?	When the lamp is nearly ready for replacement, the images become darker and the color quality becomes poorer. When this happens, replace the lamp with a new lamp. ☛ "Replacing the Lamp" p.81
Is the projector being used at a high altitude or in a location subject to high temperatures?	When the projector is used at a high altitude or in a location subject to high temperatures, the Power Consumption setting may be automatically set to **ECO**. This may make the screen dark. If this happens, the Power Consumption setting cannot be changed.

Problems when Projection Starts

The projector does not turn on

Check	Remedy
Did you press the [⏻] button?	Press the [⏻] button to turn the power on.
Are the indicators switched off?	The power cable is not connected correctly or power is not being supplied. Disconnect and then reconnect the power cable. ☛ "From Installation to Projection" p.26 Check that your electrical outlet or power source is functioning correctly.
Do the indicators turn on and off when the power cable is touched?	There is probably a poor contact in the power cable, or the power cable may be defective. Reinsert the power cable. If this does not solve the problem, stop using the projector, disconnect the power cable from the electrical outlet, and contact your local dealer or the nearest address provided in the Epson Projector Contact List. ☛ *Epson Projector Contact List*
Is the **Control Panel Lock** set to **Full Lock**?	Press the [⏻] button on the remote control. If you do not want to use **Control Panel Lock**, change the setting to **Off**. ☛ **Settings** - **Control Panel Lock** p.59

Check	Remedy
Is the correct setting for the remote receiver selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.59

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. (EB-X14G/EB-W02/EB-X02/EB-S02 only)	Disconnect the cable from the Audio port, and then reconnect the cable.
Is the volume adjusted to the minimum setting?	Adjust the volume so that sound can be heard. ☛ **Settings** - **Volume** p.59 ☛ "Adjusting the Volume" p.37
Is A/V Mute active?	Press the [A/V Mute] button on the remote control to cancel A/V Mute. ☛ "Hiding the Image and Sound Temporarily (A/V Mute)" p.43
Is the audio cable's specification "No resistance"? (EB-X14G/EB-W02/EB-X02/EB-S02 only)	When using a commercially available audio cable, make sure it is labeled "No resistance".
Is **Output audio from the projector** selected? (Only when projecting USB Display)	Click **All Programs** - **EPSON Projector** - **Epson USB Display** - **Epson USB Display Vx.xx Settings**, and then select **Output audio from the projector**.

The remote control does not work

Check	Remedy
Is the remote control light-emitting area pointing towards the remote receiver on the projector during operation?	Point the remote control towards the remote receiver. ☛ "Remote control operating range" p.17
Is the remote control too far from the projector?	The operating range for the remote control is about 6 m. ☛ "Remote control operating range" p.17

Check	Remedy
Is direct sunlight or strong light from fluorescent lamps shining onto the remote receiver?	Set the projector up in a location where strong light does not shine onto the remote receiver. Or set the remote receiver to **Off** from **Remote Receiver** in the Configuration menu. ☛ **Settings** - **Remote Receiver** p.59
Is the correct setting for the **Remote Receiver** selected?	Check the **Remote Receiver** from the Configuration menu. ☛ **Settings** - **Remote Receiver** p.59
Are the batteries dead or have the batteries been inserted correctly?	Make sure the batteries are inserted correctly or replace the batteries with new ones if necessary. ☛ "Replacing the remote control batteries" p.16

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.61

Maintenance

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

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

Attention

Turn off the projector's power before cleaning.

Cleaning the Projector's Surface

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

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

Attention

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

Cleaning the Lens

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

Warning

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

Attention

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

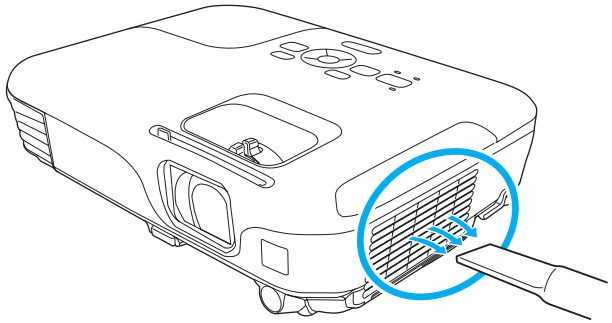
Cleaning the Air Filter

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

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

Attention

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



- If a message is frequently displayed, even after cleaning, it is time to replace the air filter. Replace it with a new air filter.
  ☛ "Replacing the Air Filter" p.84
- It is recommended that you clean these parts at least once every three months. Clean them more often than this if using the projector in a particularly dusty environment.

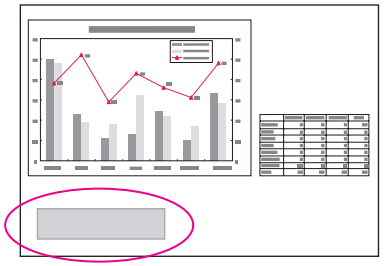
This section explains how to replace the lamp and the air filter.

Replacing the Lamp

Lamp replacement period

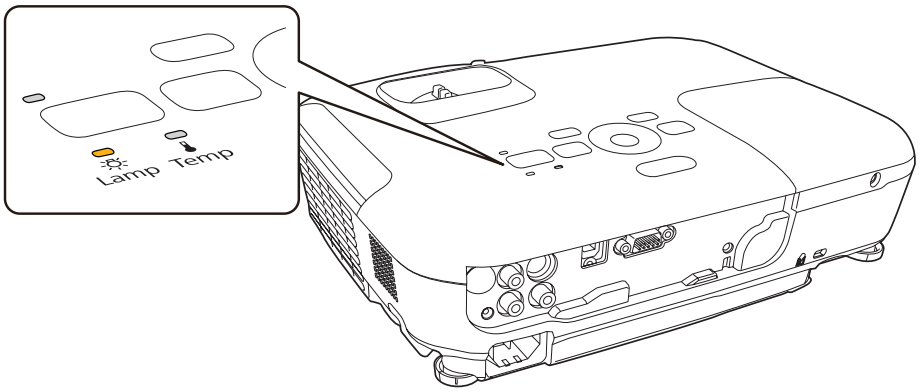
It is time to replace the lamp when:

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



The message is displayed for 30 seconds.

- The lamp indicator flashes orange.



- The projected image gets darker or starts to deteriorate.

Attention

- The lamp replacement message is set to appear after the following time periods in order to maintain the initial brightness and quality of the projected images.
  When **Power Consumption** is set to **Normal**: About 3900 hours
  When **Power Consumption** is set to **ECO**: About 4900 hours
  ☛ **Settings** - **Power Consumption** p.59
- If you continue to use the lamp after the replacement period has passed, the possibility that the lamp may explode increases. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.
- Do not repeatedly turn off the power and immediately back on. Turning the power on and off frequently may shorten the lamp's operating life.
- Depending on the characteristics of the lamp and the way it has been used, the lamp may become darker or stop working before the lamp warning message appears. You should always have a spare lamp unit ready in case it is needed.

How to replace the lamp

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

Warning

- When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is cracked, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently.
- 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.

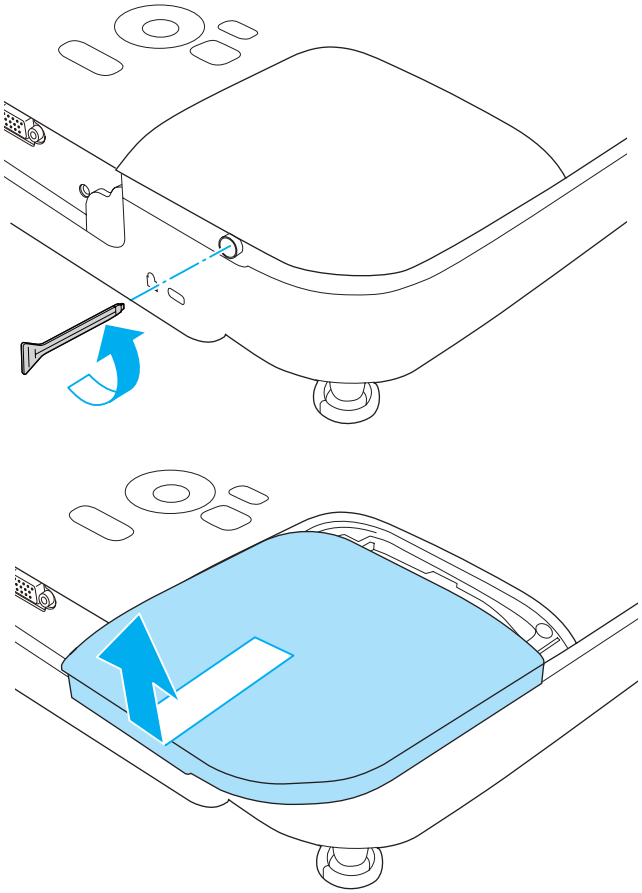
Caution

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.

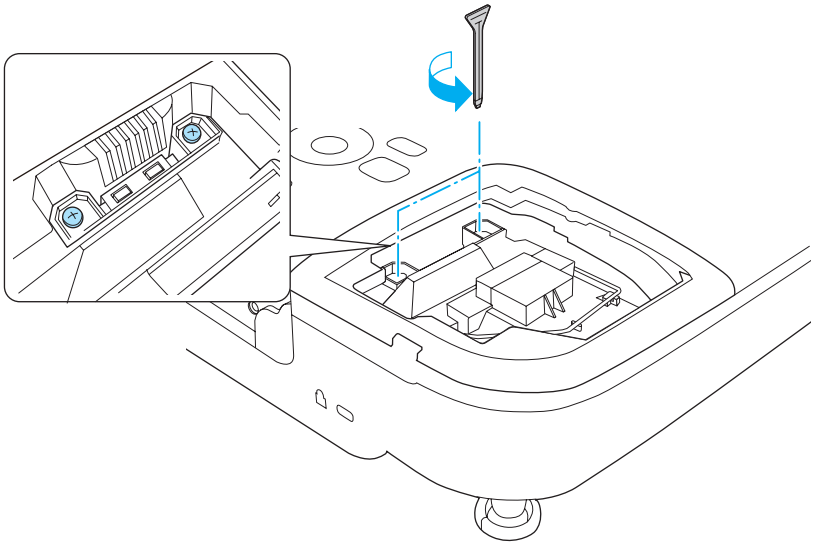
1 After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cable.

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



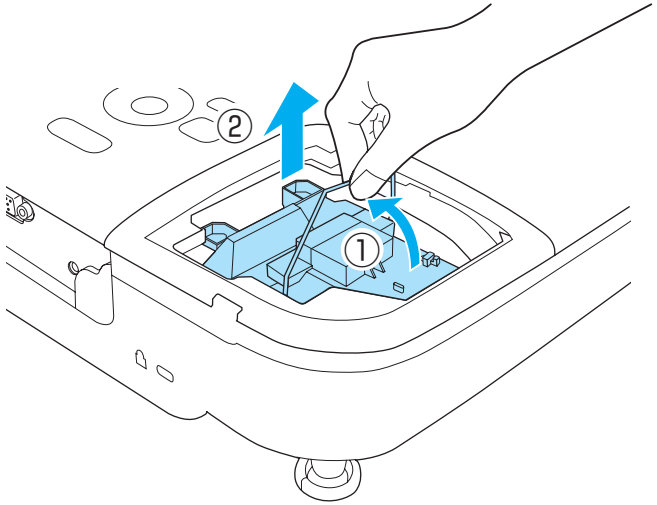
3 Loosen the two lamp fixing screws.



4 Take out the old Lamp by pulling the handle.

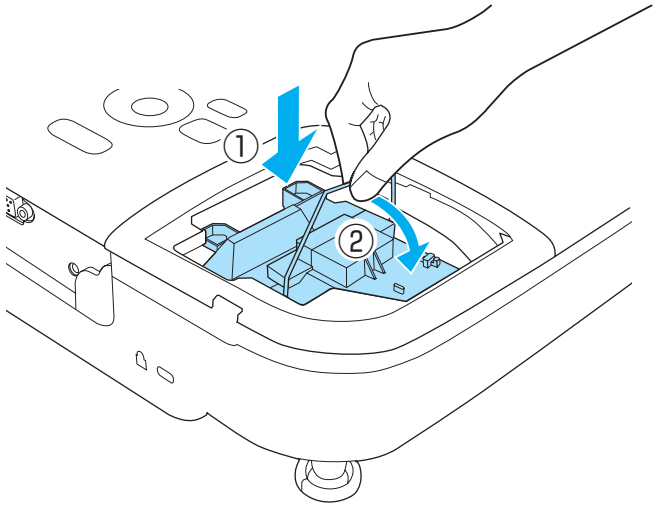
If the Lamp is cracked, replace it with a new lamp, or contact your local dealer for further advice.

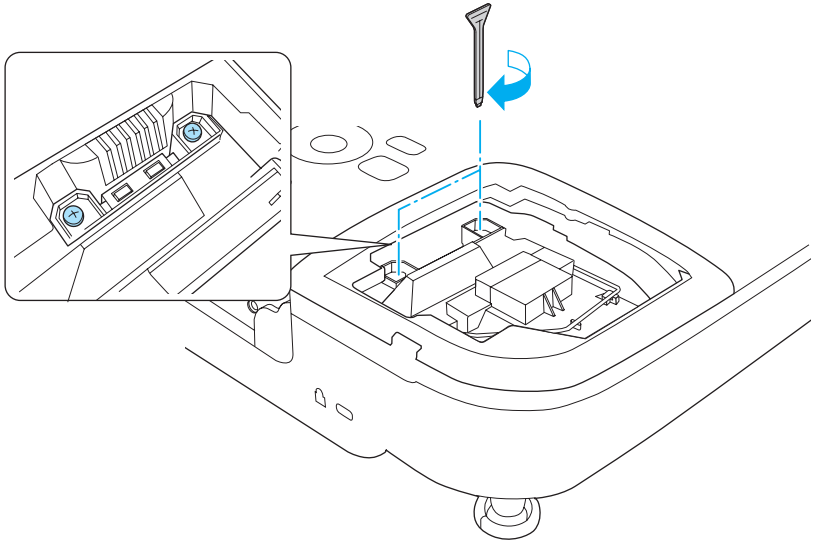
☛ *Epson Projector Contact List*



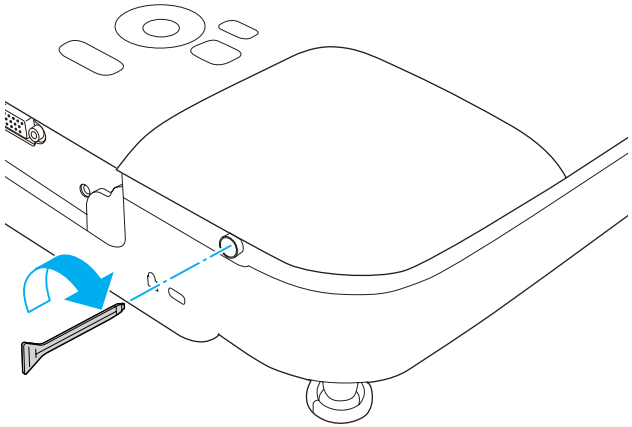
5 Install the new lamp.

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





6 Replace the lamp cover.



Attention

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

Resetting the lamp hours

The projector records how long the lamp is 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.63

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

Replacing the Air Filter

Air filter replacement period

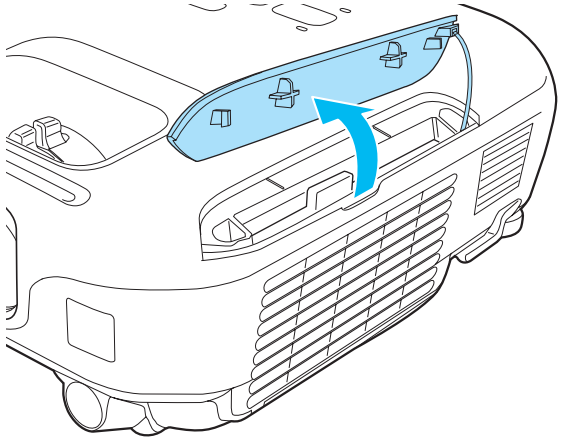
If the message is displayed frequently even though the air filter has been cleaned, replace the air filter.

How to replace the air filter

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

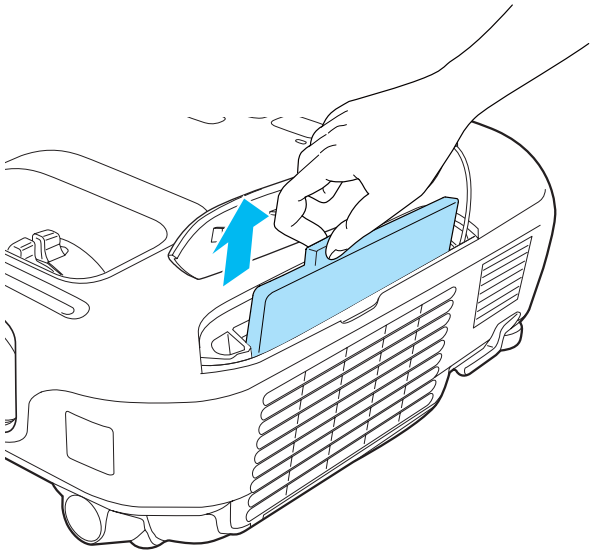
1 After you turn off the projector's power and the confirmation buzzer beeps twice, disconnect the power cable.

2 Open the air filter cover.



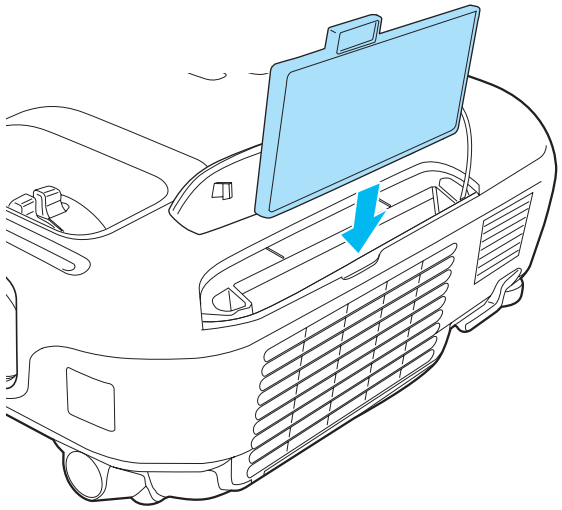
3 Remove the air filter.

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



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

Appendix

The following optional accessories and consumables are available. Please purchase these products as and when needed. The following list of optional accessories and consumables is current as of: May 2011. 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.

Document Camera ELPDC06/ELPDC11
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 ELPSC30
64" portable screen ELPSC31
Portable magnetic screens. (aspect ratio 4:3)

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

Computer cable ELPKC02
(1.8 m - for mini D-Sub15-pin/mini D-Sub 15pin)

Computer cable ELPKC09
(3 m - for mini D-Sub15-pin/mini D-Sub 15pin)
Computer cable ELPKC10
(20 m - for mini D-Sub15-pin/mini D-Sub 15pin)

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

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

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

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

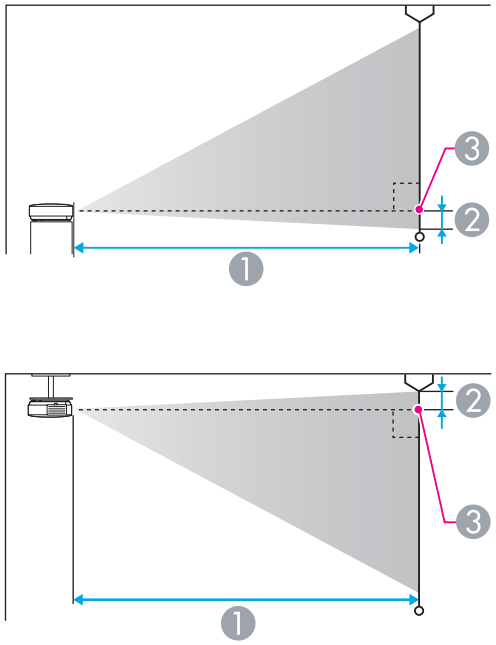
☛ *Epson Projector Contact List*

Consumables

Lamp unit ELPLP67
Use as a replacement for used lamps.

Air filter ELPAF32
Use as a replacement for used air filters.

Projection Distance (For EB-W02/EB-W01)



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

Unit: cm

4:3 Screen Size		① Minimum (Wide) to Maximum (Tele)	②
30"	61x46	94 - 113	-7
40"	81x61	126 - 152	-9
50"	100x76	158 - 190	-11
60"	120x91	190 - 229	-13
70"	142x107	222 - 267	-15
80"	160x120	255 - 306	-17
100"	200x150	319 - 383	-22
150"	300x230	480 - 577	-33
200"	410x300	641 - 770	-44
280"	570 x 430	898 - 1079	-61

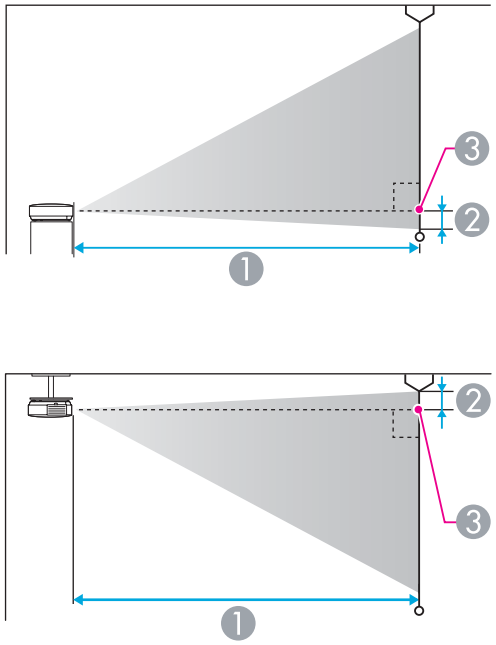
Unit: cm

16:9 Screen Size		① Minimum (Wide) to Maximum (Tele)	②
35"	78x44	99 - 120	-4
40"	89x50	114 - 137	-5
50"	110x62	143 - 172	-6
60"	130x75	172 - 208	-8
70"	155x87	202 - 243	-9
80"	180x100	231 - 278	-10
100"	220x120	289 - 348	-13
150"	330x190	435 - 523	-19
200"	440x250	582 - 699	-26
310"	690 x 390	903 - 1084	-40

Unit: cm

16:10 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
35"	76x47	97 - 117	-7
40"	86x54	111 - 134	-8
50"	110x67	139 - 168	-10
60"	130x81	168 - 202	-12
80"	170x110	225 - 270	-15
100"	220x130	281 - 338	-19
150"	320x200	424 - 509	-29
200"	430x270	566 - 680	-38
320"	690 x 430	907 - 1089	-62

Projection Distance (For EB-X14G/EB-X02)



❶ Projection distance

❷ Distance from the center of the lens to the base of the screen (or to the top of the screen, if suspended from a ceiling)

❸ Center of lens

Unit: cm

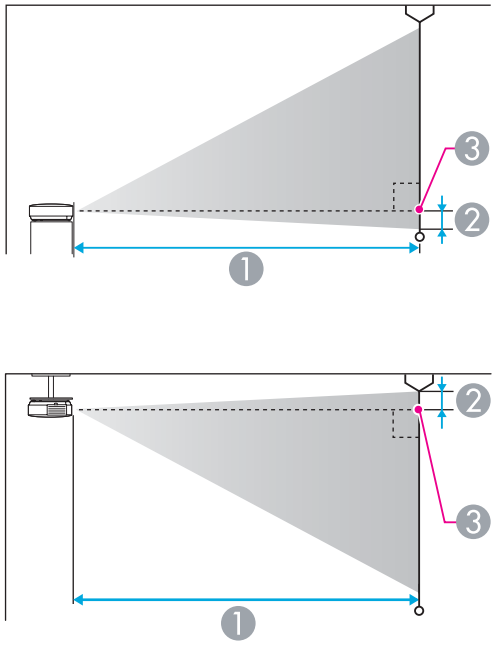
4:3 Screen Size		❶ Minimum (Wide) to Maximum (Tele)	❷
30"	61x46	89 - 107	-5
40"	81x61	119 - 143	-7
50"	100x76	150 - 180	-8

4:3 Screen Size		① Minimum (Wide) to Maximum (Tele)	②
60"	120x91	180 - 217	-10
80"	160x120	241 - 290	-14
100"	200x150	302 - 363	-17
150"	300x230	454 - 546	-25
200"	410x300	607 - 729	-34
250"	510x380	759 - 912	-42
300"	610x460	912 - 1095	-51

Unit: cm

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

Projection Distance (For EB-S02/EB-S01)



① Projection distance

② Distance from the center of the lens to the base of the screen (or to the top of the screen, if suspended from a ceiling)

③ Center of lens

Unit: cm

4:3 Screen Size		① Minimum (Wide) to Maximum (Tele)	② (Wide)
30"	61x46	88 - 119	-5
50"	100x76	147 - 200	-8
60"	120x91	177 - 240	-10

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

Unit: cm

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

Supported Resolutions

Computer signals (analog RGB)

For EB-X14G/EB-W02/EB-X02/EB-W01

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	1360x768
	60/75/85	1280x800
WXGA+	60/75/85	1440x900
SXGA	70/75/85	1152x864
	60/75/85	1280x1024
	60/75/85	1280x960
SXGA+	60/75	1400x1050
WSXGA+*1, 2	60	1680x1050
UXGA	60	1600x1200
MAC13"	67	640x480
MAC16"	75	832x624
MAC19"	75	1024x768
	59	1024x768
MAC21"	75	1152x870

*1 EB-W02/EB-W01 only.

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

For EB-S02/EB-S01

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	1360x768
	60/75	1280x800
WXGA+	60	1440x900
SXGA	70/75	1152x864
	60	1280x1024
	60	1280x960
SXGA+	60	1400x1050
MAC13"	67	640x480
MAC16"	75	832x624
MAC19"	75	1024x768
	59	1024x768
MAC21"	75	1152x870

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

Component Video

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

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

Composite video (EB-X14G/EB-W02/EB-X02/EB-S02 only)

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

Projector General Specifications

Product name		EB-X14G	EB-W02	EB-X02	EB-S02	EB-W01	EB-S01
Dimensions		295 (W) x 79 (H) x 228 (D) mm					
LCD panel size		0.55"	0.59" Wide	0.55"	0.55"	0.59" Wide	0.55"
Display method		Polysilicon TFT active matrix					
Resolution		786,432 pixels XGA (1024 (W) x 768 (H) dots)x 3	1,024,000 pixels WXGA (1280 (W)x 800 (H) dots)x 3	786,432 pixels XGA (1024 (W) x 768 (H) dots)x 3	480,000 pixels SVGA (800 (W) x 600 (H) dots) x 3	1,024,000 pixels WXGA (1280 (W)x 800 (H) dots)x 3	480,000 pixels SVGA (800 (W) x 600 (H) dots) x 3
Focus adjustment		Manual					
Zoom adjustment		Manual (1 to 1.2)	Manual (1 to 1.2)	Manual (1 to 1.2)	Digital (1 to 1.35)	Manual (1 to 1.2)	Digital (1 to 1.35)
Lamp		UHE lamp, 200 W Model No.: ELPLP67					
Max. audio output		1 W	1 W	1 W	1 W	2 W	2 W
Speaker		1					
Power supply		100 to 240 V AC±10%, 50/60 Hz 2.9 to 1.3 A					
Power consumption	100 to 120 V area	Operating: 283 W Standby power consumption (Communication On): 2.9 W Standby power consumption (Communication Off): 0.36 W					
	220 to 240 V area	Operating: 270 W Standby power consumption (Communication On): 3.3 W Standby power consumption (Communication Off): 0.47 W					
Operating altitude		Altitude 0 to 2,286 m					
Operating temperature		5 to +35°C (No condensation)					
Storage temperature		-10 to +60°C (No condensation)					
Mass		Approx. 2.3 kg					

Connectors	Computer Input Port	1	Mini D-Sub15-pin (female)
	Video port*1	1	RCA pin jack

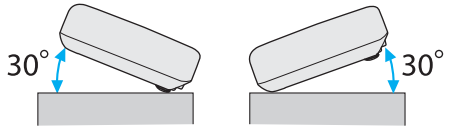
	S-Video port*1	1	Mini DIN 4-pin
	Audio Input port*1	1	RCA pin jack x 2
	USB(TypeB) port*2	1	USB connector (Type B)

*1 EB-X14G/EB-W02/EB-X02/EB-S02 only.

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

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

Angle of tilt



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

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

We:	Epson America, Inc.
Located at:	3840 Kilroy Airport Way
	MS: 3-13
	Long Beach, CA 90806
Tel:	562-290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.909. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name:	EPSON
Type of Product:	Projector
Model:	H428C/H429C/H430C/H431C/H432C/H433C/ H434C/H435C/H436C/H437C/H438C/H439C

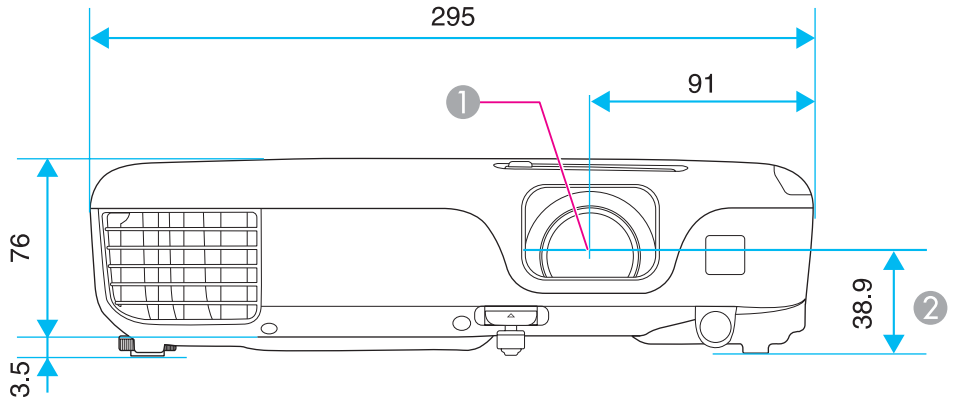
FCC Compliance Statement
For United States Users

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

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

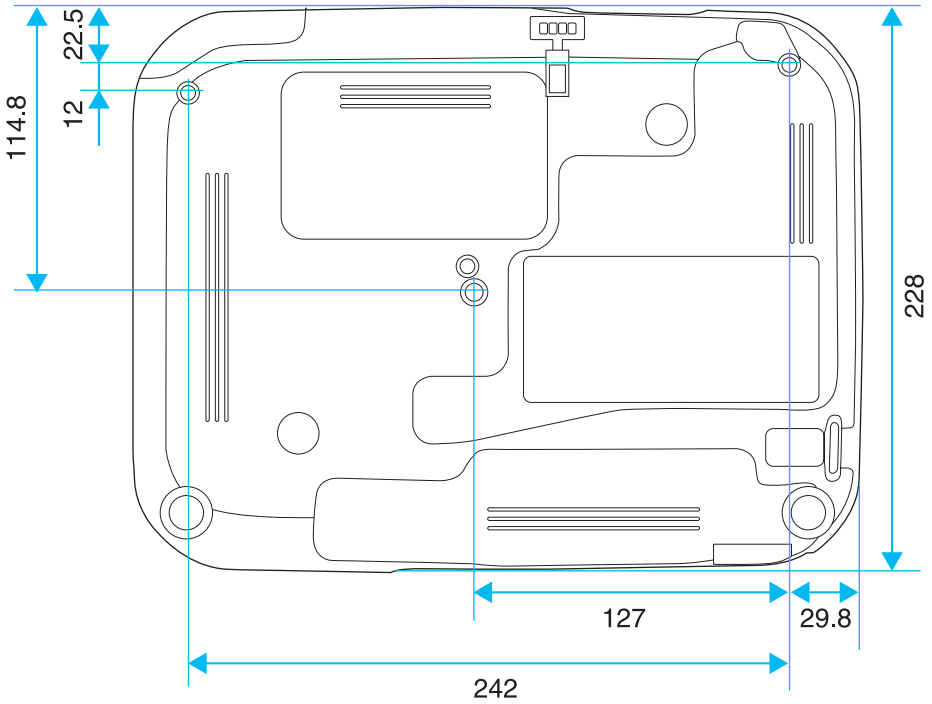
WARNING

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



1 Center of lens

2 Distance from center of lens to suspension bracket fixing point



Units: mm

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

Aspect Ratio	The ratio between an image's length and its height. Screens with a horizontal:vertical ratio of 16:9, such as HDTV screens, are known as wide screens. SDTV and general computer displays have an aspect ratio of 4:3.
Component Video	A method that separates the video signal into a luminance component (Y), and a blue minus luminance (Cb or Pb) and a red minus luminance (Cr or Pr).
Composite video	A method that combines the video signal into a luminance component and a color component for transmission down a single cable.
Contrast	The relative brightness of the light and dark areas of an image can be increased or decreased to make text and graphics stand out more clearly, or to make them appear softer. Adjusting this particular property of an image is called contrast adjustment.
HDTV	An abbreviation for High-Definition Television that refers to high-definition systems which satisfy the following conditions. • Vertical resolution of 720p or 1080i or greater (p = Progressive, i = Interlace) • Screen aspect ratio of 16:9
Interlace	Transmits information needed to create one screen by sending every other line, starting from the top of the image and working down to the bottom. Images are more likely to flicker because one frame is displayed every other line.
Progressive	Projects information to create one screen at a time, displaying the image for one frame. Even though the number of scan lines is the same, the amount of flicker in images decreases because the volume of information has doubled compared with an interlace system.
Refresh Rate	The light-emitting element of a display maintains the same luminosity and color for an extremely short time. Because of this, the image must be scanned many times per second to refresh the light-emitting element. The number of refresh operations per second is called the Refresh Rate and is expressed in hertz (Hz).
SDTV	An abbreviation for Standard Definition Television that refers to standard television systems which do not satisfy the conditions for HDTV High-Definition Television.
sRGB	An international standard for color intervals that was formulated so that colors that are reproduced by video equipment can be handled easily by computer operating systems (OS) and the Internet. If the connected source has an sRGB mode, set both the projector and the connected signal source to sRGB.
SVGA	A screen size standard with a resolution of 800 (horizontal) x 600 (vertical) dots.
S-Video	A method that separates the video signal into a luminance component (Y) and a color component (C).
SXGA	A screen size standard with a resolution of 1,280 (horizontal) x 1,024 (vertical) dots.
Sync.	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the phases of these signals (the relative position of the crests and the troughs in the signal) is called Synchronization. If the signals are not synchronized, flickering, blurriness, and horizontal interference occur.
Tracking	The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images are not of a good quality. The process of matching the frequency of these signals (the number of crests in the signal) is called Tracking. If Tracking is not carried out correctly, wide vertical stripes appear in the signal.

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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About Notations

Microsoft® Windows® 98 operating system
Microsoft® Windows® Me operating system
Microsoft® Windows® 2000 operating system
Microsoft® Windows® XP operating system
Microsoft® Windows Vista® operating system
Microsoft® Windows® 7 operating system

In this guide, the operating systems above are referred to as "Windows 98", "Windows Me", "Windows 2000", "Windows XP", "Windows Vista", and "Windows 7". Furthermore, the collective term Windows may be used to refer to Windows 98, Windows Me, Windows 2000, Windows XP, Windows Vista, and Windows 7, and multiple versions of Windows may be referred to as, for example, Windows 98/Me/2000/XP/Vista, with the Windows notation omitted.

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

In this guide, the operating systems above are referred to as "Mac OS X 10.3.9", "Mac OS X 10.4.x", "Mac OS X 10.5.x", and "Mac OS X 10.6.x". Furthermore, the collective term "Mac OS" is used to refer to them.

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