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Home Projector

EH-TW4000
EH-TW3000
EH-TW2800

User's Guide

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3LCD

HDMI™
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About the Manuals and Notations Used

Types of Manual

The documentation for your EPSON projector is divided into the following two manuals. Refer to the manuals in the order given below.

❶ Safety Instructions/Support and Service Guide

This manual contains information on using the projector safely, and also includes a guide for warranty service, and a troubleshooting check sheet.
Be sure to read this manual thoroughly before using the projector.

❷ User's Guide (this manual)

This User's Guide contains information on installing the projector, basic operations, using the configuration menus, troubleshooting and maintenance.

Notations used in this User's Guide

Safety indications

So that you can use the product safely and correctly, symbols are applied in the User's Guide and on the product to indicate possible harm to the user or to others and the risk of damage to property.
The indications and their meaning are as follows. Make sure you understand them properly before reading the guide.

⚠ Warning	This symbol indicates information that, if ignored, could possibly result in death or personal injury 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

Attention	Indicates procedures where personal injury or damage to the projector may occur if the procedures are not followed correctly.
TIP	Indicates additional information and points which may be useful to know regarding a topic.
☞	Indicates a page where useful 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. Refer to the "Glossary" in the "Appendix". ☞p.58
⏻, Menu etc.	Indicates buttons on the remote control or projector's control panel.
" (Menu Name) "	Indicates configuration menu items. Example: "Image"-"Color Mode"
[(Name)]	Indicates the port name of the projector. Example: [Video]

Meaning of "unit" and "projector"

When "unit" or "projector" appears in the text of this *User's Guide*, they may refer to items which are accessories or optional equipment in addition to the main projector unit itself.

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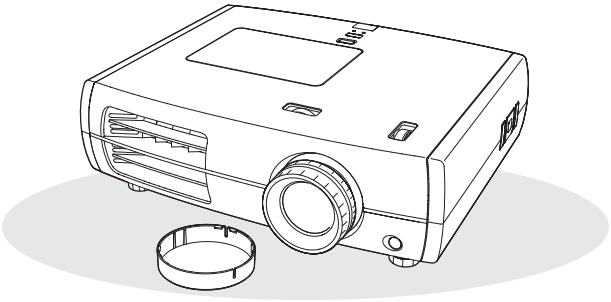
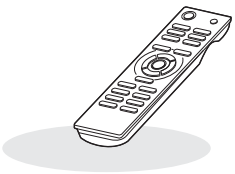
Checking the Components

When you unpack the projector, make sure that you have all these components.

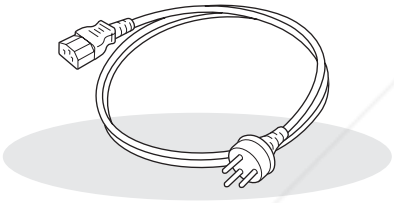
If any of the components are missing or incorrect, please contact the place of purchase.



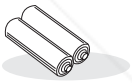
❑ **Projector (with lens cover)**



❑ **Remote control**

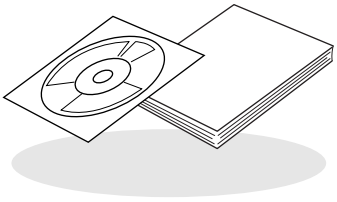


❑ **Power cable (3.0m)**
Connect to the projector and to a wall outlet.



❑ **AA-size alkali batteries (2 pcs.)**
Insert into the remote control.

Documentation



❑ **Document CD-ROM (Safety Instructions/Support and Service Guide, User's Guide)**

❑ **Quick Start Guide**

* Some regions may have paper manuals instead of a CD-ROM, or may not have the Quick Start Guide.

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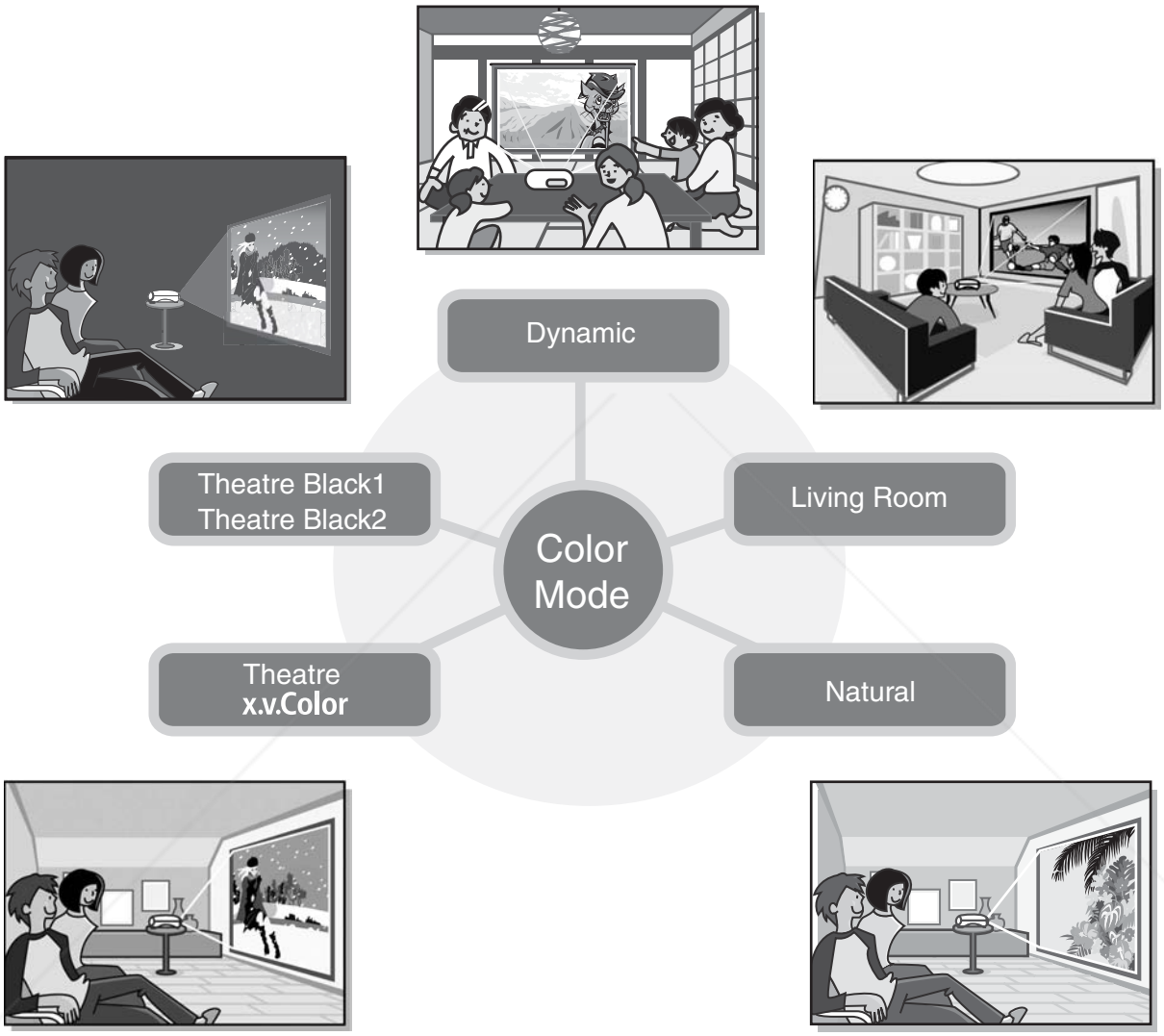
Image appearance can be selected to match the projection environment (Color Mode)

The optimum images for the location can be projected simply by selecting the desired color mode from the following seven preset modes.
If "Natural", "Theatre", "x.v.Color", "Theatre Black 1" or "Theatre Black 2" is selected, the Epson Cinema Filter effect is applied automatically to increase the contrast and to make skin tones appear with more natural tints. ☞p.18



"x.v.Color" mode realizes more natural color reproduction

This mode is compatible with the extended-gamut color space standard for video (xvYCC). Extended-gamut color images output by equipment supporting this standard are more faithful to the original, and the viewer can enjoy clearer, more natural images. ☞p.18

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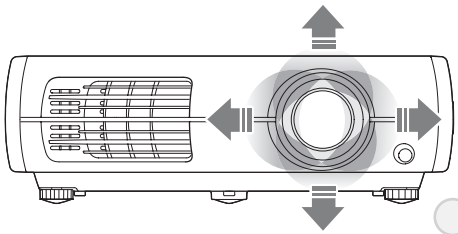
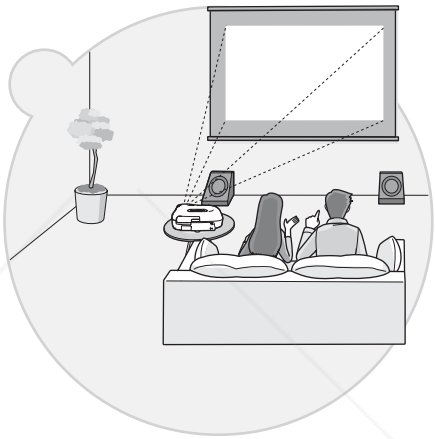
Sophisticated color adjustment

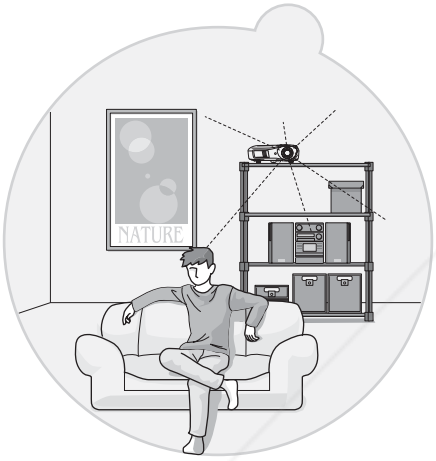
In addition to the "Color Mode", the absolute color temperature and skin tones can be adjusted by simple procedures to render the picture even more to your own liking. Further, you can adjust gamma, the offset and gain for RGB colors, and the hue, saturation, and brightness of RGBCMY colors, to create colors that match the image. ☞p.20

Equipped with a wide-angle lens shift function

The lens shift function allows the position of the projected images to be adjusted vertically and horizontally without distorting the images.
This can allow the projector to be set up with greater freedom, even if it is suspended from a ceiling or at an angle to the screen. p.16







Equipped with 2.1x short throw zoom lens

For zoom adjustment, 2.1x short throw zoom lens is provided. Images can be projected onto an 100" screen (16:9 screen only) even at a distance of approximately 3 m (10 ft.). p.10

Advanced image quality adjustment functions

Advanced image quality adjustment functions such as "Auto Iris" and "Sharpness (Advanced)" can be used to enjoy even sharper images. With the Auto Iris function turned on, the amount of light can be automatically adjusted to match the images being projected, to create images with depth and perspective. The Sharpness function is used to adjust not only the entire image, but also to emphasize specific regions, such as hair and clothing.
p.23

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A variety of image setting functions

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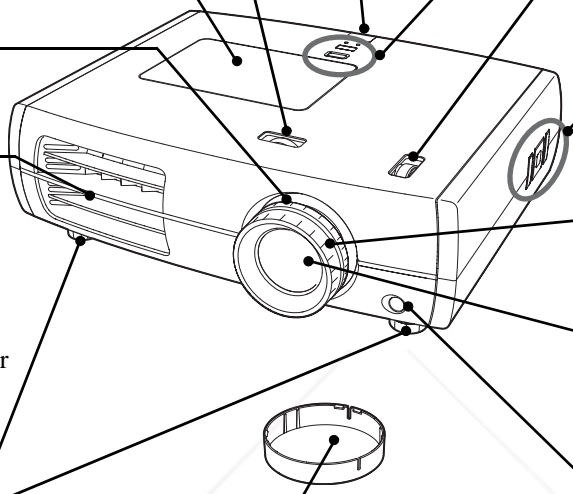
Some of the other many functions that are available are as follows.

- EPSON Super White is used to prevent overexposure that can result in images that are too bright. p.35
- A progressive conversion that lets you obtain ideal results both for images with large amounts of movement and for still images. p.34
- An aspect function that allows images to be viewed in wide-screen format. p.18
- Memory functions that allow adjustment results to be stored and later retrieved easily using the remote control. p.24
- Lock settings that can be used to lock the projector's control panel after adjustments have been made so that they cannot be changed by mistake, or to prevent children from accidentally turning on the power and looking into the lens. p.36

Front / Top

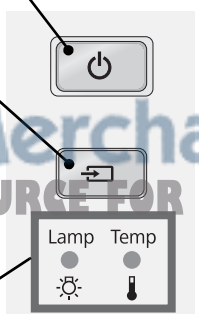


- **Horizontal lens adjustment dial** p.16
  Turn the dial to move the position of the projection image to the left or right.
- **Lamp cover** p.50
  Open this cover when replacing the lamp inside.
- **Zoom ring** p.16
  Adjusts the image size.
- **Air exhaust vent**
  A discharge outlet for the air which cools the inside of the projector.
  Caution
  Do not touch the exhaust vent immediately after projecting, or while projecting, since it becomes hot.
- **Front adjustable feet** p.17
  Extend to adjust the projection angle so that the projector is horizontal when placed on a desk top.
- **Lens cover**
  When not using the projector, attach this to the lens to protect the lens from damage and dirt.
- **Remote control light-receiving area** p.13
  Receives signals from the remote control.
- **Control panel (top)**
  See below
- **Vertical lens adjustment dial** p.16
  Turn the dial to move the position of the projection image up or down.
- **Control panel (side)**
  See below
- **Focus ring** p.16
  Adjusts the image focus.
- **Projection lens**
  Projects images from here.
- **Remote control light-receiving area** p.13
  Receives signals from the remote control.

Control panel

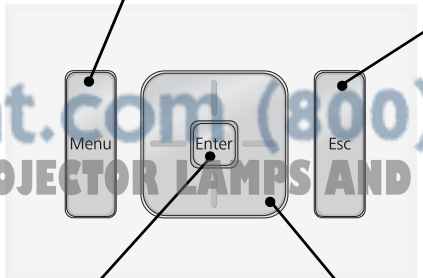
Buttons with no explanation function in the same way as the corresponding buttons on the remote control. Refer to "Remote control" for further details on these buttons.

Top control panel



- **Power button** p.14, 15
- **Source button** p.15
  Displays a list of input sources and switches to your desired input source.
- **Warning indicator** p.39
  Flashes or lights in different colors to indicate problems with the projector.

Side control panel



- **Menu button** p.26
- **Esc button** p.18, 20, 26
- **Enter/Line menu button** p.18, 24, 26
- **button** p.18, 20, 22, 26

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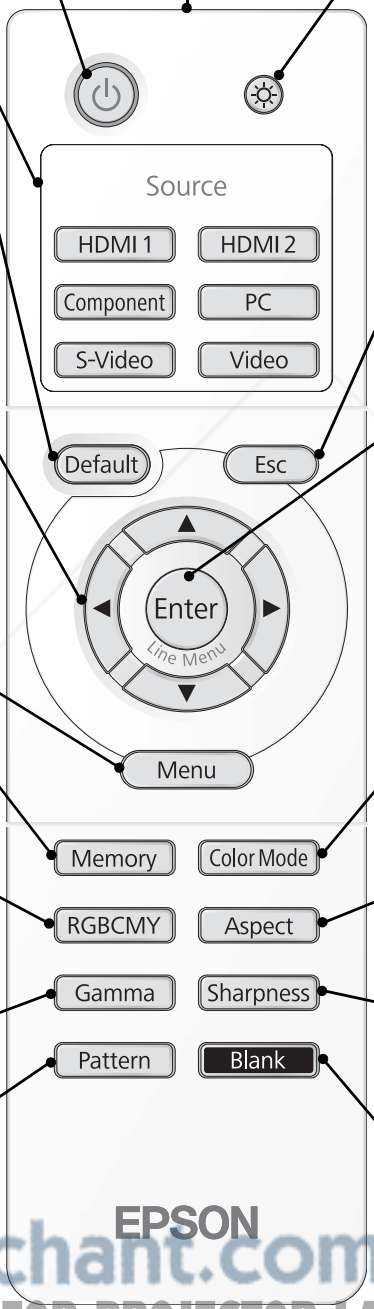
Remote control



- **Remote control light-emitting area** p.13
  Outputs remote control signals.
- **Power button** p.14, 15
  Turns the projector power on/off.
- **Source buttons** p.15
  Switches the input source to the input terminals indicated on each button.
- **Default button** p.26
  Returns settings of the adjustment screen in the configuration menu to their default values when pressed while displaying the screen.
- **▲ ▼ ◀ ▶ button** p.18, 20, 22, 26
  Press to select menu items and adjustment values.
- **Menu button** p.26
  Displays and closes the full configuration menus.
- **Memory button** p.24
  Saves, loads, and erases memory contents.
- **RGBCMY button** p.20
  Adjusts the hue, saturation and brightness for each RGBCMY color.
- **Gamma button** p.20
  Adjusts the gamma.
- **Pattern button** p.17
  Displays and clears the test pattern.
- **Illumination button**
  Illuminates all of the buttons on the remote control for 10 seconds so that they can be seen in dark places.
- **Esc button** p.18, 20, 26
  Returns to the previous menu when pressed while displaying the menu.
- **Enter/Line menu button** p.18, 24, 26
  Displays the line menu.
  While viewing a menu, press this button to select the menu item and proceed to the next display.
- **Color Mode button** p.18
  Changes the color mode to suit the projection environment.
- **Aspect button** p.18
  Changes the aspect ratio to match the input signal.
- **Sharpness button** p.23
  Adjusts the image sharpness.
- **Blank button** p.26
  Turns off and on the projected images temporarily.
  When pressed while displaying the configuration menu, the menu screen disappears and appears.

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Rear

- **[S-Video] input port** p.12

  Connects to the S-Video out ports of the video equipment.

- **[Video] input port** p.12

  Inputs a general video signal (composite video). Connect to an image output port of a video source.

- **[HDMI1] input port** p.12

  Connects to an HDMI-compatible video source or to a computer.

- **[HDMI2] input port** p.12

  Connects to an HDMI-compatible video source or to a computer.

- **[Component] input port** p.12

  Connects to the component (YCbCr or YPbPr) out port of the video equipment.

- **Air inlet (air filter)** p.47, 50

  This draws in air for cooling the inside of the projector. If dust collects on the filter, the temperature inside the projector will rise and problems with operation or more rapid deterioration of the optical components may occur. The air filter should be cleaned periodically.

- **[PC] input port** p.12

  Connects to the RGB out port of the computer.

- **Cable holders**

  When an HDMI cable with a large outer diameter is connected to the input port, the weight of the cable may cause it to hang down and result in a poor connection. To prevent this by securing the cable, you can pass a commercially-available cable tie through one of the two holders whichever is more convenient for you.

- **[RS-232C] port**

  Connects to a computer using an RS-232C cable to control the projector from the computer. This is not used in normal use.

- **Lamp cover open switch** p.50

  Press to open the lamp cover.

- **[Trigger out] port**

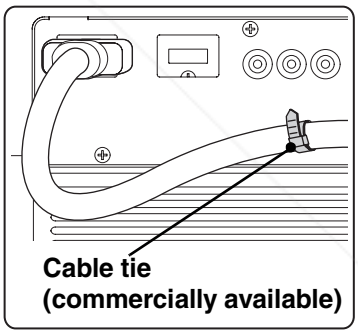
  When the projector is turned on, a 12 V DC signal is output from this port. When the projector is turned off or a problem with operation occurs, the output becomes 0 V to send the projector's power ON/OFF status to an external device.

- **Security lock** p.59

- **Main power switch** p.14

- **[Power] inlet** p.14

  Connects the power cable.



Base

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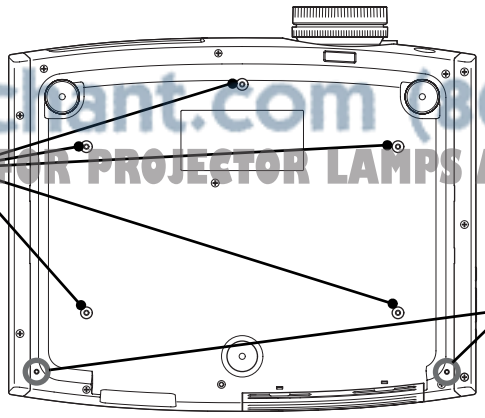
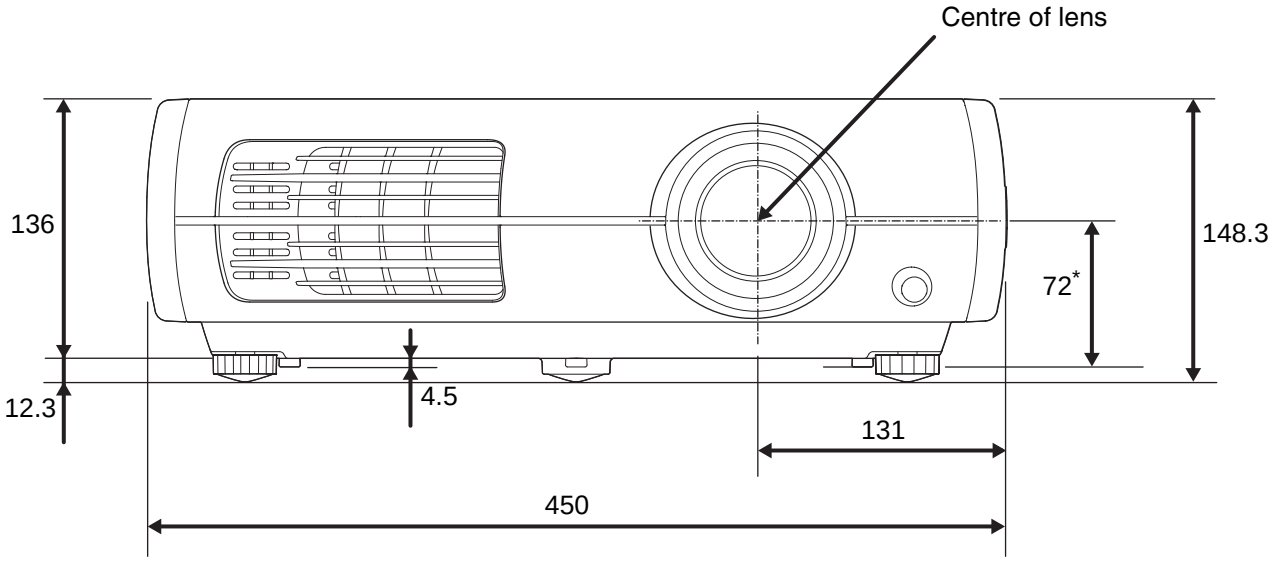


- **Suspension bracket fixing points (5 points)** p.52

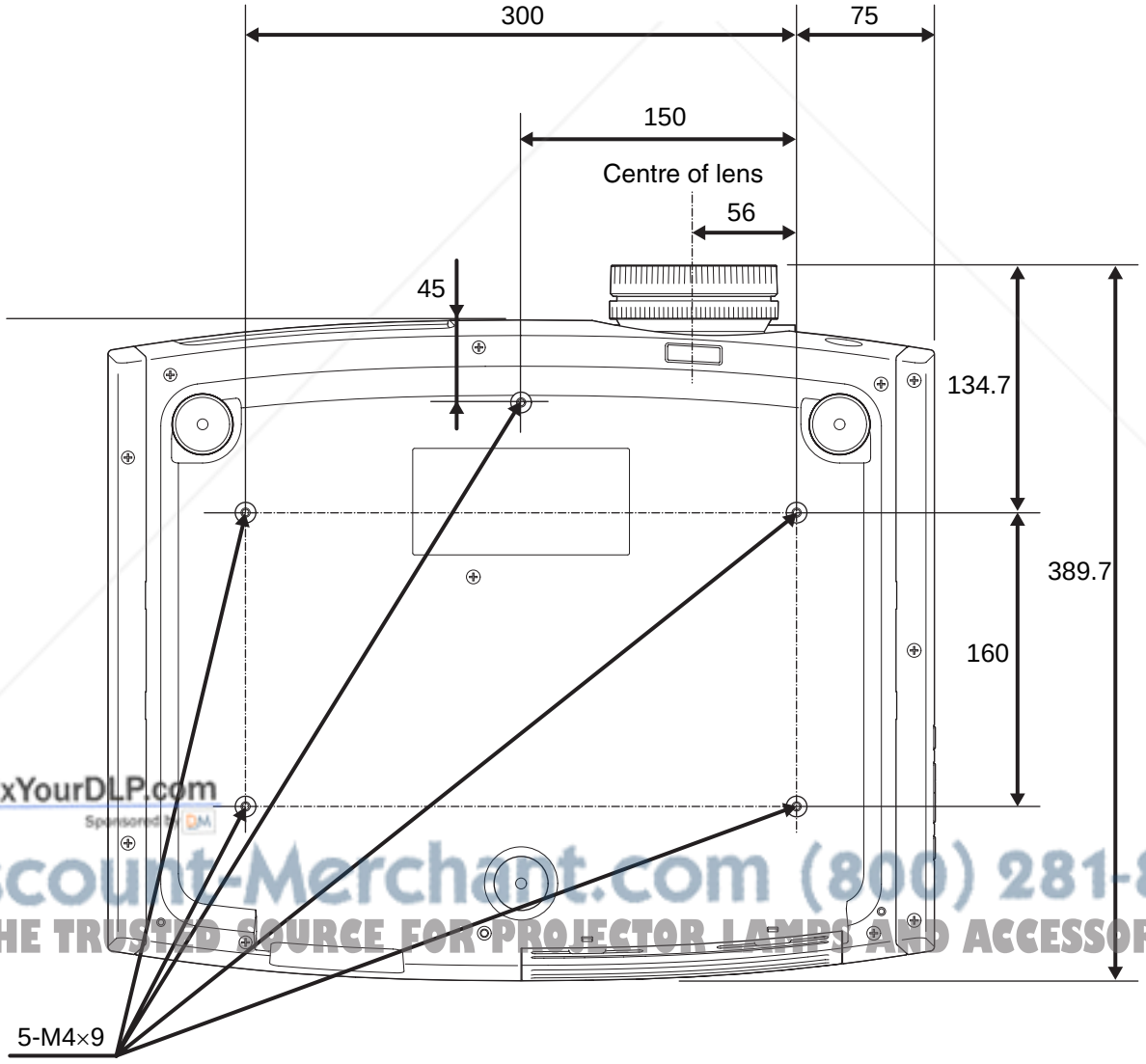
  Install the optional ceiling mount here when suspending the projector from a ceiling.

- **Cable cover stays (2 places)**

  Attach the optional cable cover here.



* Distance from centre of lens to suspension bracket fixing point



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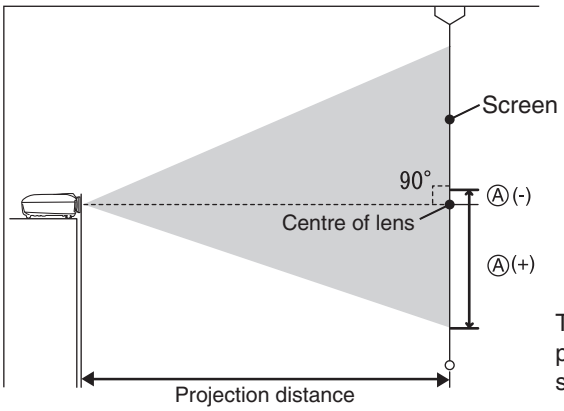
Units:mm

Adjusting the projection size

When the projector is further away from the screen, the projection image size are larger.
While referring to the table below, position the projector so that the images are projected onto the screen at the optimum size.
The values should be used as a guide for setting up the projector.



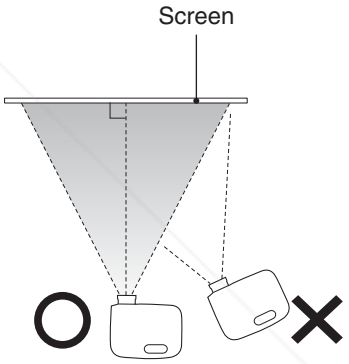
This is the height from the centre of the lens to the bottom of the projection images. It can be changed by the vertical lens shift setting.

Units: cm (in.)

16:9 screen size		Projection distance: Shortest (Wide) to Longest (Tele)	Ⓐ: Vertical lens shift Highest to Lowest
30"	66×37 (26×15)	87 to 188 (34 to 74)	-17 to 55 (-6.8 to 21.5)
40"	89×50 (35×20)	117 to 252 (46 to 99)	-23 to 73 (-9.1 to 28.7)
60"	130×75 (51×28)	177 to 380 (70 to 150)	-35 to 109 (-13.6 to 43.0)
80"	180×100 (71×39)	238 to 508 (94 to 200)	-46 to 146 (-18.2 to 57.4)
100"	220×120 (87×47)	298 to 636 (117 to 250)	-58 to 182 (-22.7 to 71.7)
120"	270×150 (106×59)	359 to 764 (141 to 301)	-69 to 219 (-27.0 to 86)
150"	330×190 (130×75)	450 to 956 (177 to 376)	-86 to 273 (-34.0 to 107.6)
200"	440×250 (179×98)	601 to 1276 (236 to 502)	-115 to 364 (-45.4 to 143.5)

Units: cm (in.)

4:3 screen size		Projection distance: Shortest (Wide) to Longest (Tele)	Ⓐ: Vertical lens shift Highest to Lowest
30"	61×46 (24×18)	107 to 231 (42 to 91)	-21 to 67 (-8.3 to 26.3)
40"	81×61 (32×24)	144 to 309 (57 to 122)	-28 to 89 (-11.1 to 35.1)
60"	120×90 (47×35)	218 to 466 (86 to 183)	-42 to 134 (-16.7 to 52.7)
80"	160×120 (63×47)	292 to 623 (115 to 245)	-56 to 178 (-22.2 to 70.2)
100"	200×150 (79×59)	366 to 779 (144 to 307)	-71 to 223 (-27.8 to 87.8)
120"	240×180 (94×71)	440 to 936 (173 to 368)	-85 to 268 (-33.0 to -105.0)
150"	300×230 (118×91)	551 to 1171 (217 to 461)	-106 to 334 (-41.7 to 131.7)
200"	410×300 (161×118)	736 to 1562 (290 to 615)	-141 to 446 (-55.6 to 175.6)



If the projector is placed at an angle to the screen, then the projected image will be distorted.

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Lens shift adjustment

The lens shift dials can be used to position the image and is especially useful when using the projector in the following locations. ☞ p.16

- Suspending from the ceiling
- A screen in a high location
- Projector situated to the side so that the screen can be viewed sitting right in front of it
- Projector situated on a shelf, etc.

When positioning an image using the lens shift dial, hardly any deterioration of the image occurs because the lens shift correction is adjusted optically. However, for optimal image quality the lens shift function should not be used.

Projection methods

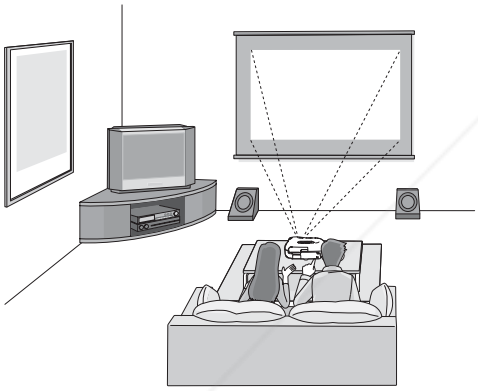
Warning

- A special method of installation is required when suspending the projector from the 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 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.

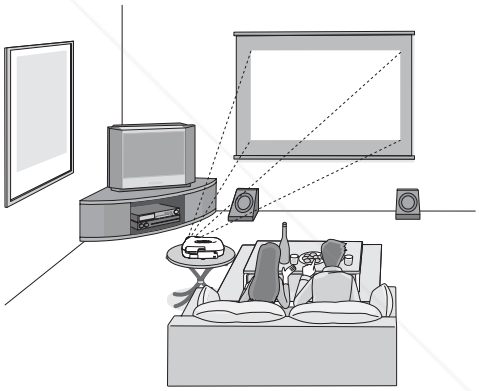
Attention

- Avoid setting the projector up in a place which is very dusty or humid, or where there will be cigarette or other smoke, especially oily smoke.
- Clean the air filter at least once every 3 months.
  Clean the air filter more frequently if using the projector in a dusty environment.
- Do not use the projector on its side. This may cause malfunctions to occur.

When projecting from directly in front

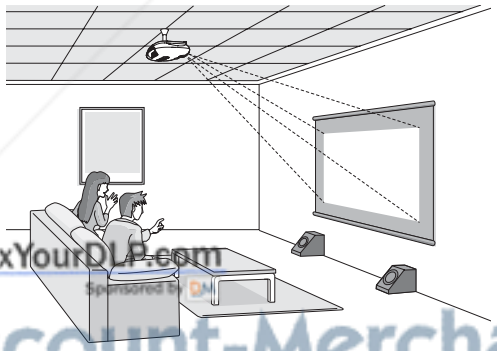


When projecting from the side of the screen



* Even if projection will be from the screen side, set up the screen and projector so that they are parallel.

When projecting from a celling



* When suspending the projector from a ceiling, change the configuration menu settings. p.36

Configuration menu

Settings ▶ Projection
- Front
- Front/Ceiling

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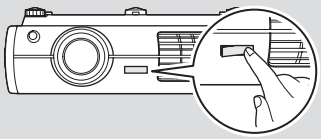
TIP

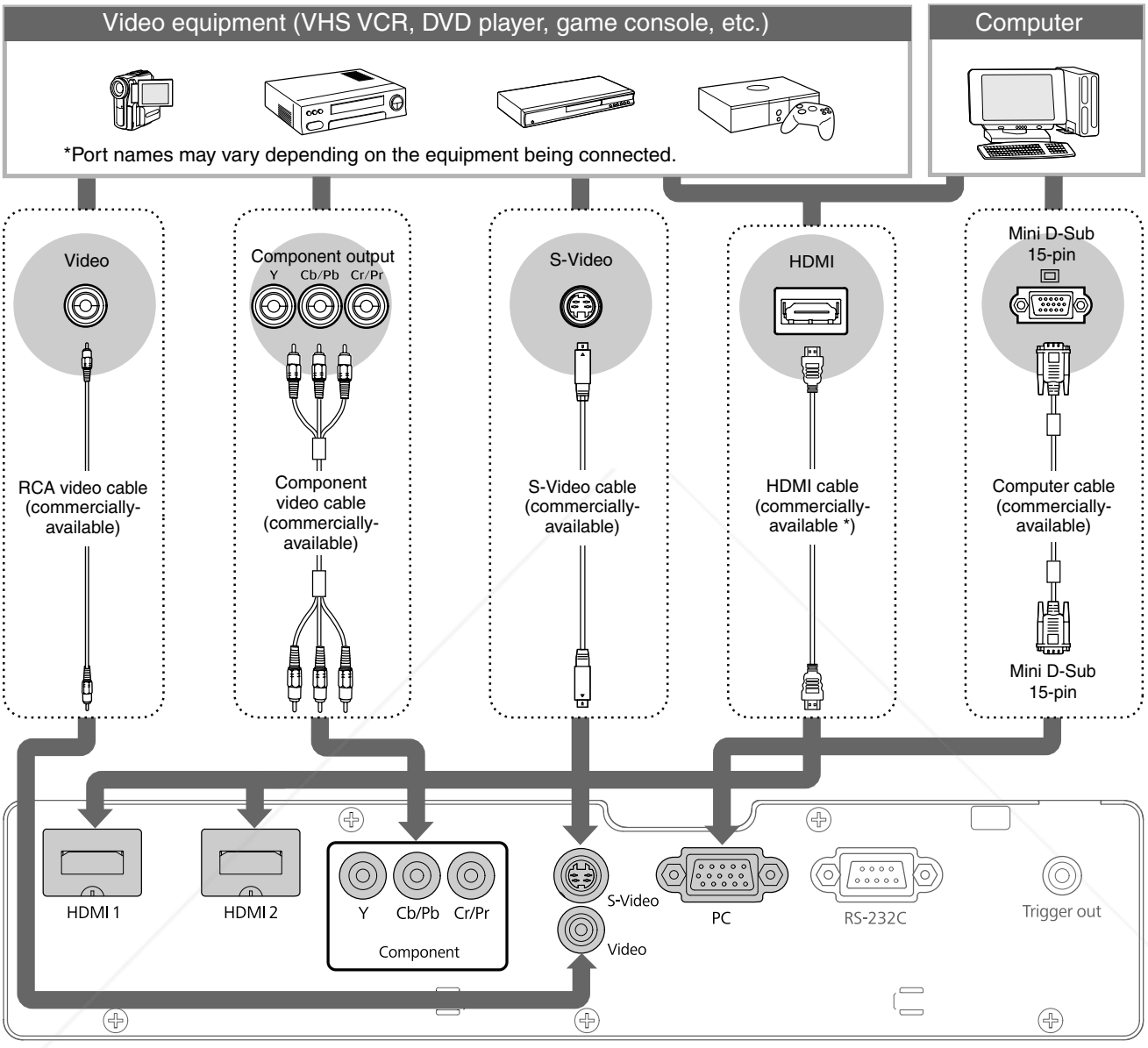
You can rotate the EPSON logo plate around 180 degrees when suspending the projector from a ceiling.



When one end of the plate is pressed, the opposite end lifts up, so you can pull it out slightly, turn it around and then push it back in.

Attention

- Turn the power off for both the projector and the signal source before connecting them. If the power for either device is on at the time of connection, damage may result.
- Check the shapes of the cable connectors and the device ports before making the connections. If you try to force a connector to fit a device port with a different shape or number of terminals, a malfunction or damage to the connector or port may result.



* Use a HDMI cable that conforms to the HDMI specifications.

TIP

- Some signal sources may have specially-shaped ports. In such cases, use the accessory or optional cables that are supplied with the signal source to make the connections.
- The cable that should be used to connect video equipment to the projector will depend on the type of video signal that the equipment outputs. Some kinds of video equipment output several different types of video signal. The image quality ranking of the video signal types is generally held to be as follows, in descending order of quality:
  Digital component video [HDMI] > Analog component video [Component] > S-Video [S-Video] > Composite video [Video]
  You should refer to the documentation provided with the video equipment being used to check what types of video signal formats the equipment can output. The composite video format is sometimes simply called "video output".

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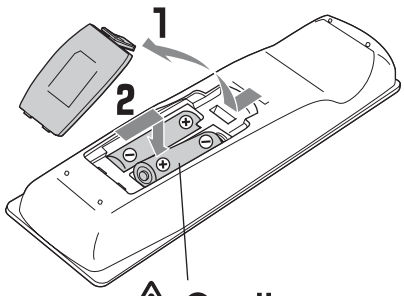
Inserting batteries into the remote control



Caution

Check the (+) and (-) indications inside the battery compartment and insert the batteries so that they face correctly.

At the time of purchase, the batteries are not inserted into the remote control. Insert the supplied batteries before using the remote control.

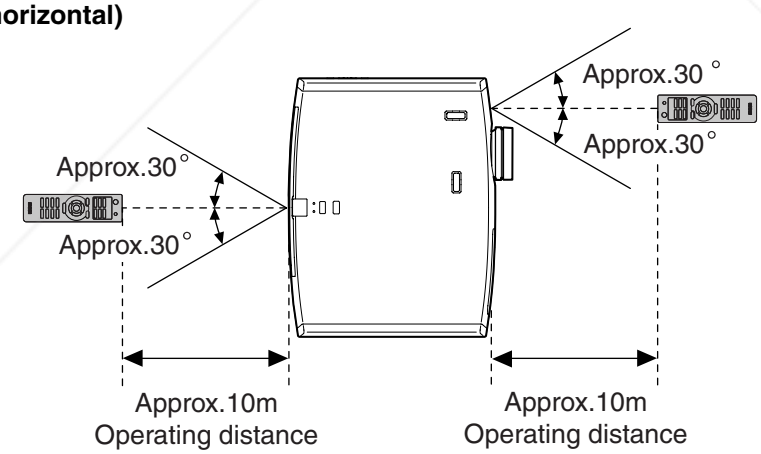
1. Lift up the battery cover while pressing its tab.
2. Insert the batteries in the correct direction.
3. Close the cover.

TIP

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. If this happen, replace the batteries with two new batteries. Use two new AA-size alkali batteries or manganese batteries as replacement batteries. Batteries other than AA-size alkali batteries or manganese batteries cannot be used.

Using the remote control

■ **Operating range (horizontal)**



■ **Operating range (vertical)**

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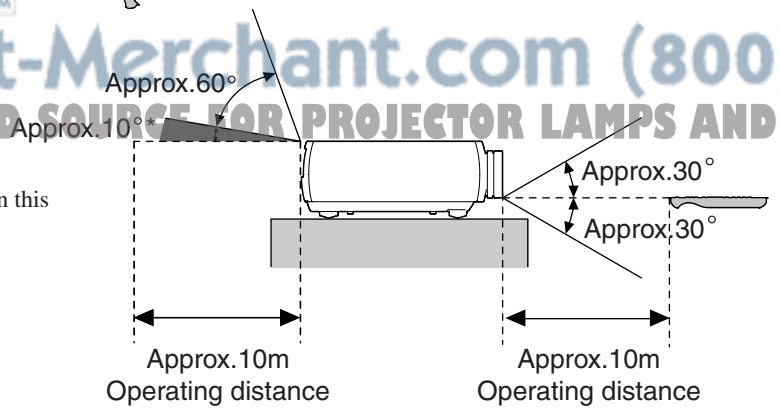
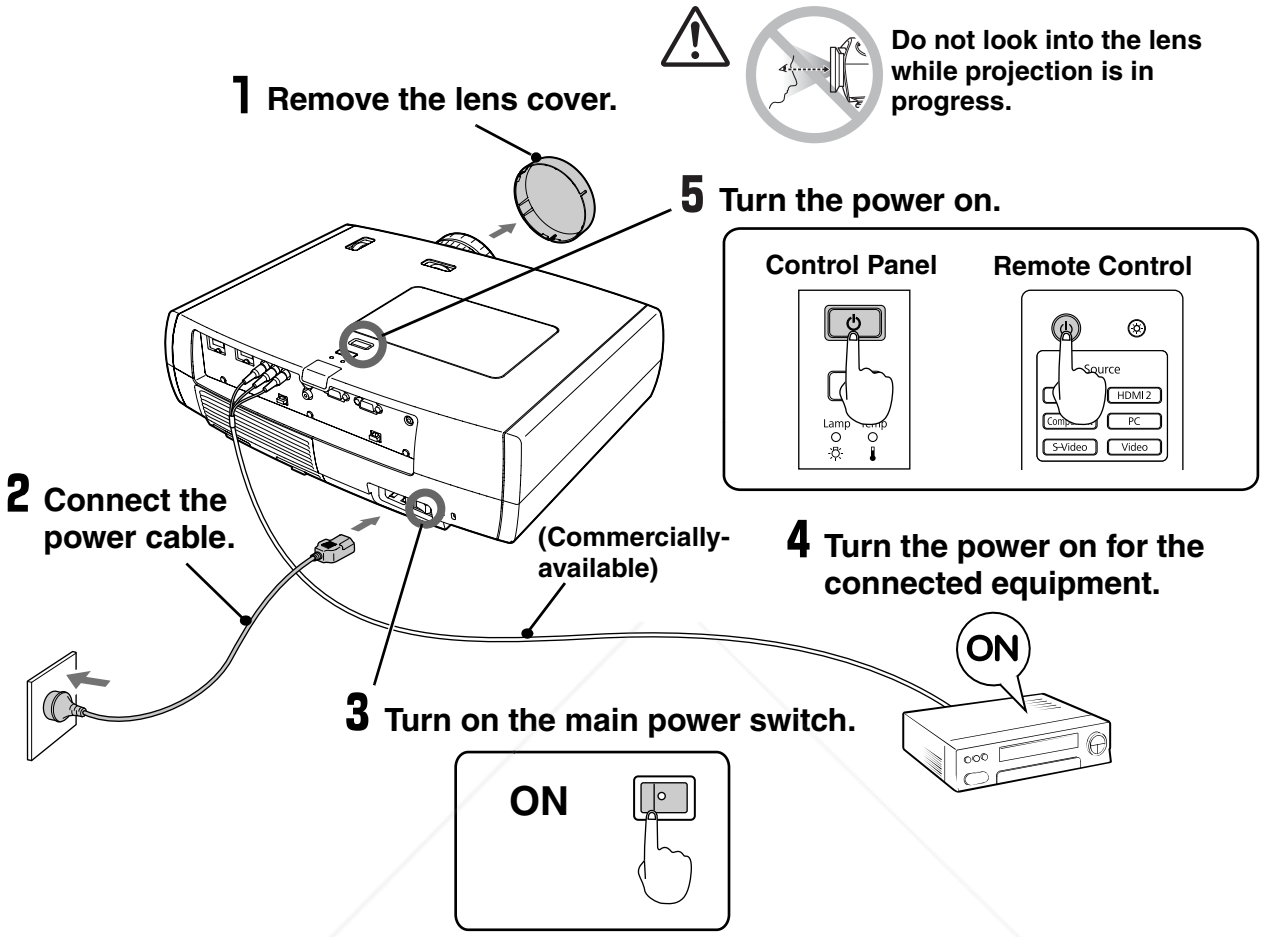


* Remote control signals cannot be received within this range.

Turning the power on and projecting images



If there is a problem with projection even though the projector is set up and connected correctly, refer to ☞ p.15, 39.

TIP

- If you set the "Direct Power On" to "On", the power of the unit will turn ON when the main power switch is turned ON, without having to press the power button of the remote control or the projector's control panel. ☞ p.36
- The projector is equipped with a "Child Lock" function that prevents young children from accidentally turning the power on and looking into the lens, and also an "Control Panel Lock" function that prevents mis-operations. ☞ p.36
- When using above an altitude of about 1500 m, make sure you set the "High Altitude Mode" to "On". ☞ p.36
- This projector is equipped with an automatic adjustment function that automatically optimizes it when a computer input signal is switched.
- If a laptop computer or a computer with a LCD screen has been connected to the projector, you may need to use keyboard or function settings to change the output destination. While holding down the Fn key, press F○ (the key with a symbol such as ▢ / 💻 on it). After the selection is made, projection will soon start.
  ☞ Computer's documentation

Example of output selection	
NEC	Fn + F3
Panasonic	
SOTEC	
HP	Fn + F4
Toshiba	Fn + F5
IBM	Fn + F7
LENOVO	
SONY	
DELL	Fn + F8
Fujitsu	Fn + F10
Macintosh	Set mirror setting or display detection. Depending on OS, you can change the output selection by pressing F7.

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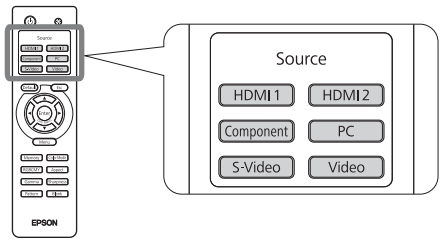
When the expected images are not projected

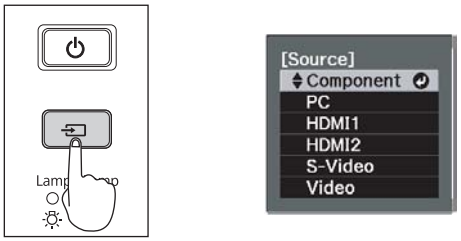
If more than one signal source has been connected, or if no images are projected, use the remote control or the projector's control panel buttons to select the signal source. For video devices, press the [Play] button on the video equipment first, then select the signal source.

Using the remote control



Press the button that has the name of the port on it that the desired signal source is connected to.

Using the control panel



When you press [⏎], the menu is displayed.
Each press of [⏎] moves the pointer. Move the pointer to the target input source to select it.
The input source is automatically switched when no operations are performed about three seconds with placing pointer at the target input source. You can also press [Enter] to switch to the target source.

TIP

When the color of the image projected from the [Component] input port is unnatural, select an appropriate signal according to the signal from the device connected at "Input Signal" in the Configuration menu. p.37

Turning the power off

1 Turn the power off for the signal sources that are connected to the projector.

2 Press ⏻ on the remote control or [⏻] on the projector's control panel.

The following message is displayed, so press ⏻ or [⏻] once more.

3 When cool-down» (approximately 16 seconds) is completed, flashing around the [⏻] stops and you can then turn off the main power switch.

Simply pressing ⏻ or [⏻] does not stop electricity consumption.

4 Attach the lens cover.

If the projector is suspended from a ceiling and the lens cover is left removed, the lens cover will still be needed if the projector is moved anywhere, so keep it in a safe place.

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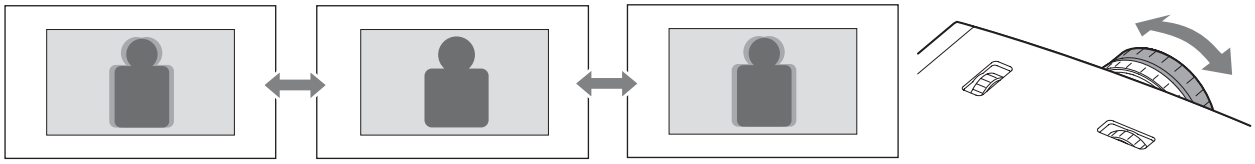
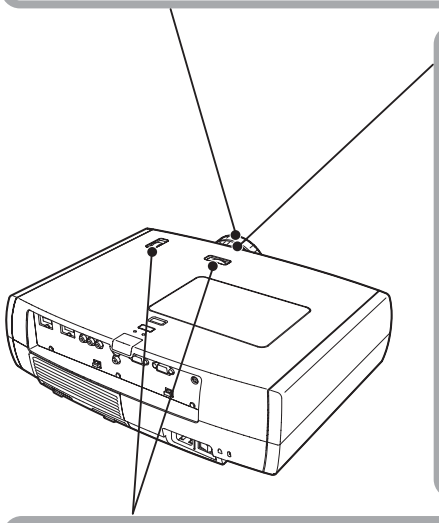
Focus adjustment

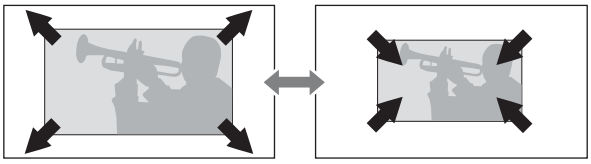
Turn the focus ring to adjust the focus.

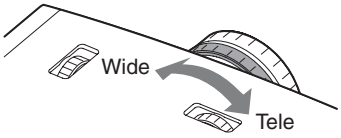




Projection size adjustment (Zoom adjustment)

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



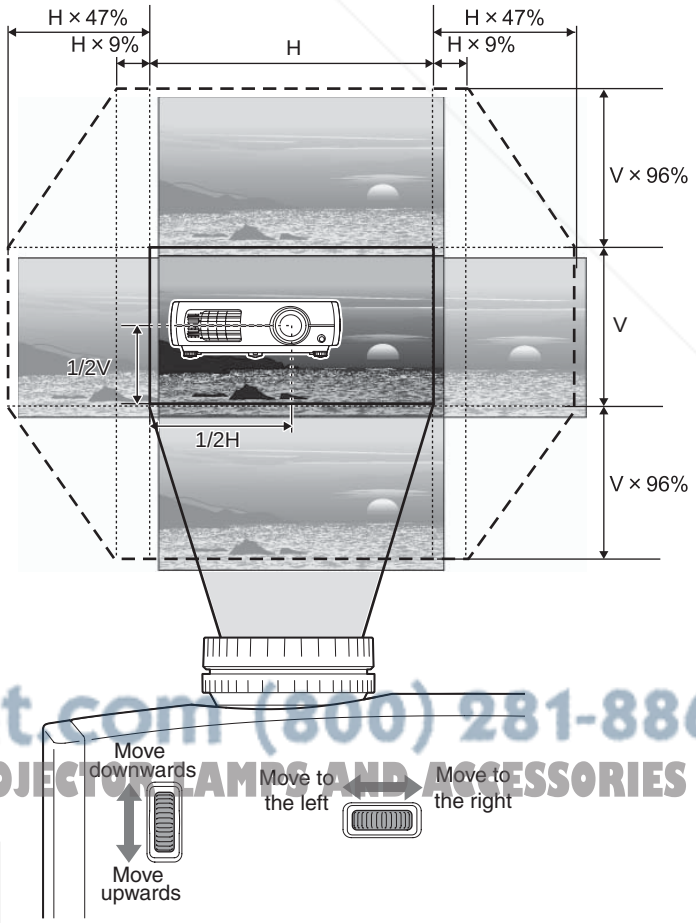


Projection image position adjustment (Lens shift)

If the projector cannot be set up directly in front of the screen, you can use the lens shift function to move the position of the projected images vertically or horizontally within the range shown at right. While turning the lens shift dials, the position where a click is heard is currently at about the middle of the shift range.

The image position cannot be moved to the maximum vertical values and maximum horizontal values at the same time.

Ex) The image cannot be shifted vertically when it has been shifted horizontally by the full amount. When the image has been shifted vertically by the full amount, it can be shifted up to 9% of the horizontal width of the screen.



Standard projection position (centre position for lens shift)

Range that the picture can be shifted from the standard projection position

Attention When transporting the projector, make sure to turn the lens position down by the full amount. Otherwise the lens shift mechanism may be damaged.

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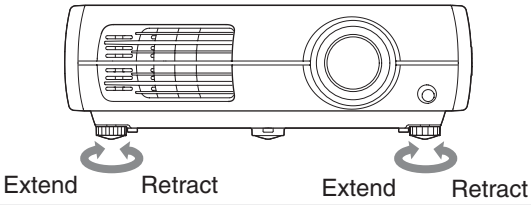
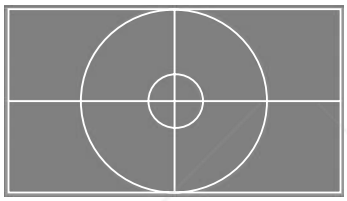
Adjusting the tilt of the projector

When an image from the projector that is placed on a flat surface is tilting horizontally ( ), use the front feet to correct the tilt.



Displaying a test pattern

You can use a test pattern to make the first setup such as zoom, focus, and image position using the lens shift without connecting to any electrical equipment.
If [Pattern] on the remote control is pressed, the test pattern appears.



To stop displaying the test pattern, press [Pattern] again.

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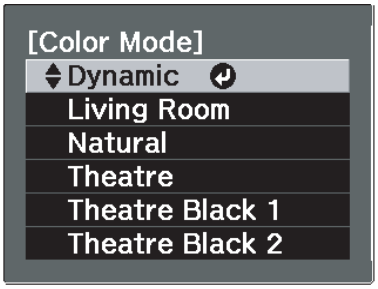
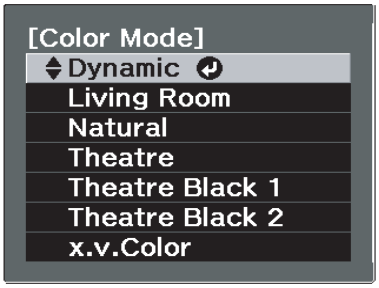
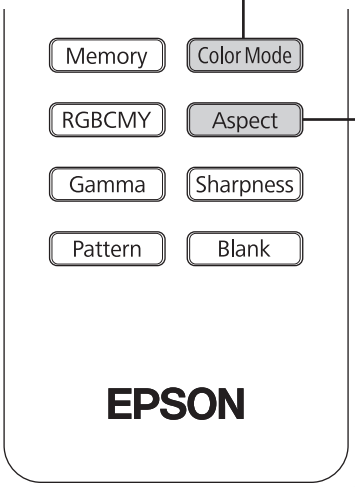
Selecting the color mode



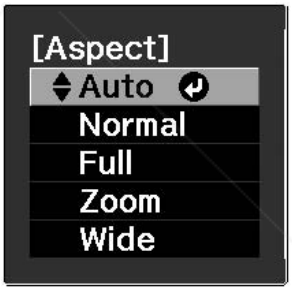
Press Color Mode and select the color mode from the menu. Setting is also possible using the configuration menu.



Inputting a signal to the HDMI1/HDMI2 terminals.



Selecting the aspect



Press Aspect and select the aspect mode from the menu.
When 720p, 1080i or 1080p signals are being input to the [HDMI1], [HDMI2] or [Component] input port, the aspect setting is fixed at "Normal" and cannot be changed.

When projecting using Auto

- For 4:3 input signals → Normal
- For input images recorded in squeeze mode → Full
- For letterbox input signals → Zoom

- Not usable during computer input. Not compatible with certain component video signals.
- If Auto is not suitable, the setting will become Normal.

Select Menu Operations

Use ▲ ▼ to select an item. Press Enter to confirm the selection.

*If you press Esc, the Select menu disappears.

TIP

If you project an image that is compressed, enlarged or separated using the aspect function in public places such as a store or hotel for the purposes of profit-making or public display, it may result in infringing on the author's right that is protected by copyright law.

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Dynamic : Ideal for using in a bright room.

Living Room : Ideal for viewing programs such as sports matches or TV programs in a bright room.

Natural : Ideal for using in a dark room. It is recommended that you start in this mode when making color adjustments.

Theatre : Ideal for watching movies and concerts in a dark room.

Theatre Black 1/2 : Suitable for use in a completely darkened room.

Theatre Black 1 A clear tone of color one might see in professional monitors used when creating DVD software.

Theatre Black 2 A deep warm tone of color that gives you the feeling of enjoying a movie at the theatre.

x.v.Color : You can select from either of the signals being input to the HDMI1 and HDMI2 terminals. Ideal for reproducing natural colors most faithfully.

When the ■ mode is selected, the EPSON cinema filter is automatically applied and the original colors of the image source are reproduced more exactly.

Input signal	● Normal TV broadcasts ● Images with standard aspect ratio (4:3) ● Computer images	Images recorded by a video camera or DVD software in squeeze mode	Letterbox images	● Normal TV broadcasts ● Images with standard aspect ratio (4:3)
Recommended aspect▸▸mode	Normal	Full	Zoom	Wide
Result	 Black bands will appear at the left and right of the images.	 Input signals will be projected at the same width as the projector's panel resolution.	 Input signals will be projected at the same height as the projector's panel resolution.	 Input signals will be projected at the same height as the projector's panel resolution. At this time, the image enlargement ratio will be smaller near the middle of the images but become larger towards the left and right edges of the images.
	 When HDTV▸▸images are projected, the images appear in 16:9 size.	 When 4:3 images are projected, the images will be elongated horizontally.	●When a 4:3 image is projected, the top and bottom of the image are hidden from view. If this happens, the part of the image hidden from view at the top and bottom can be reduced in size in the vertical direction so that it can be viewed by "Zoom Size" in the Configuration menu. ☞ p.33 ●When images with subtitles are projected and the subtitles are truncated, use the "Zoom Caption Pos." menu command to adjust. ☞ p.33	This is useful for when 4:3 images are projected onto a wide screen. Because there is almost no distortion due to enlargement in the middle of the images, the images appear close to what they would be at their original size. And because both ends of the images are enlarged, movement at the edges of the images appears faster and gives an impression of greater speed, making it ideal for viewing sporting events.

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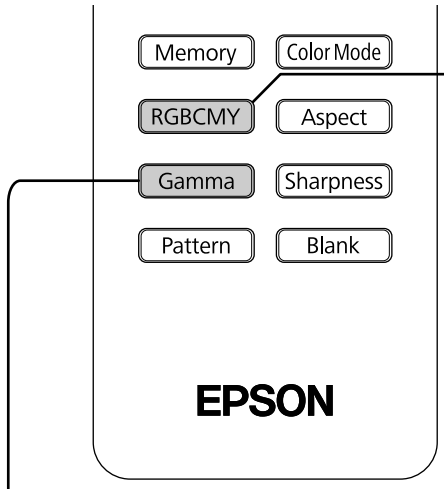
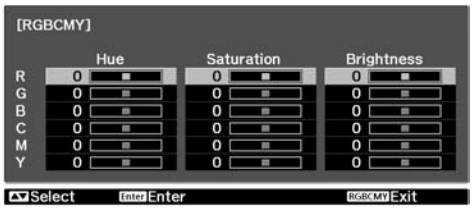
You can select "Image" - "Sharpness" or "Advanced" to adjust the images according to your own preferences. The adjustment screens for "Gamma" and "RGBCMY" can be displayed on the screen directly by pressing the corresponding buttons on the remote control.
The adjustment values can be stored in the memory so that you can retrieve them and apply them to the projected images at any time. (p.24)

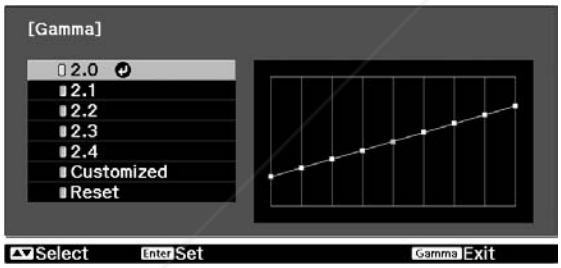


Hue, saturation, and brightness adjustment



The hue, saturation, and brightness for each of the R (red), G (green), B (blue), C (cyan), M (magenta) and Y (yellow) color components can be adjusted. Adjustment is not possible when "Color Mode" is set to "x.v. Color".

Gamma adjustment



Differences between equipment may result in a slight variation in the coloring when images are projected, and you may want to adjust this. (Projection will stop temporarily during such adjustment.) There are two methods of doing so. One is to select one of the gamma correction values [2.0], [2.1], [2.2], [2.3], [2.4]. The other is customized adjustment, which is done with reference to the projected image or a gamma graph. The gamma graph's horizontal axis represents the input signal level and its vertical axis the output signal level.
Adjustment is not possible when "Color Mode" is set to "x.v. Color".

■ Adjusting from the gamma correction values

Use ◀ ▶ or ▲▼ (UP or DOWN) to select the correction value that suits the connected equipment and your own preferences from "2.0", "2.1", "2.2", "2.3" or "2.4" , and then press Enter or Enter to confirm the selection.

Observe the gamma graph to check the result of the adjustment.

When a smaller value is selected, the dark areas of images become brighter, but the lighter areas may become oversaturated. This is indicated by bulging in the upper portion in the gamma graph.

When a larger value is selected, the bright areas of images become darker. This is indicated by bulging in the lower portion in the gamma graph.

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■ Hue

Adjusts the tone of the entire image to bluish, greenish and reddish.

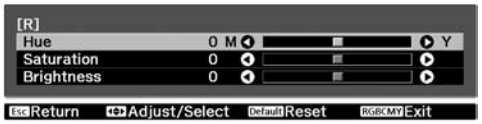
■ Saturation

Adjusts the overall vividness of the images.

■ Brightness

Adjusts the brightness of the overall image.

1 Use ◁▷ ▽△ or ✣ (UP or DOWN) to select and confirm the color, and then select either "Hue", "Saturation" or "Brightness" and then use ◁▷ or ✣ (LEFT or RIGHT) to make the adjustment.



To adjust another color, press Esc.
To return the adjustment results to their default settings, press Default.

2 Press RGBCMY to exit the menu.

■ Customized ("Adjust it from the image")

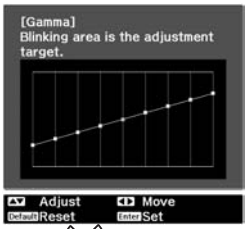
Use ◁▷ ▽△ or ✣ (UP or DOWN) to select "Customized" - "Adjust it from the image" in that order, and then press Enter or Enter to confirm the selection.
A gamma icon will appear in the projected image.

Use ◁▷ ▽△ ◁▷ or ✣ to move the gamma icon to the place where you want to adjust the brightness, and press Enter or Enter to confirm the selection. The place selected and the regions of the same brightness will flash, and a gamma graph will appear.

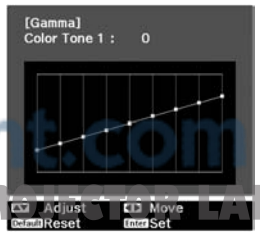
Use ▽△ or ✣ (UP or DOWN) to make the adjustment, and then press Enter or Enter to confirm the adjustment. Press Default to go back and do it again.

■ Customized ("Adjust it from the graph")

Use ◁▷ ▽△ or ✣ (UP or DOWN) to select "Customized" - "Adjust it from the graph" in that order, and then press Enter or Enter to confirm the selection.
A gamma adjustment graph will appear.



Use ◁▷ or ✣ (LEFT or RIGHT) to select the place where you would like to adjust the brightness of the color tone.



Use ▽△ or ✣ (UP or DOWN) to make the adjustment, and then press Enter or Enter to confirm the adjustment. Press Default to go back and do it again.

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RGB adjustment (Offset, Gain)

The image brightness can be adjusted by adjusting the individual R (red), G (green) and B (blue) components of the dark areas (offset) and bright areas (gain).
Adjustment is not possible when "Color Mode" is set to "x.v. Color".

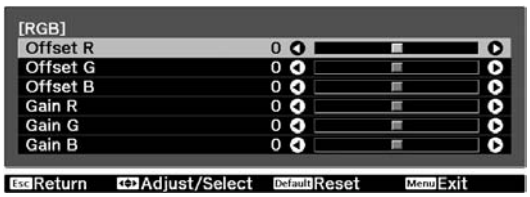
■ Offset

If you would like dark areas to appear more clearly, change the setting to the + (right) side. If you change it to the – (left) side, the whole image will become sharper, but the contrast in dark areas will become poorer.

■ Gain

If you would like bright areas to appear more clearly, change the setting to the – (left) side. If you change it to the + (right) side, you will feel that the image is becoming brighter and closer to white, but the contrast in light areas will become poorer.

1 Press Menu and then select "Image" - "Advanced" - "RGB" in that order and confirm the selection.



2 Use ▲ ▼ or ✥ (UP or DOWN) to select an item, and then use ◀ ▶ or ✥ (LEFT or RIGHT) to make the adjustment.
To return the adjustment results to their default settings, press Default.

3 Press Menu to exit the menu.

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In addition to color adjustments, adjustments to advanced sharpness and the amount of light from the lamp can also be made to match the image in search of the best picture.

Sharpness (Advanced) adjustment

If "Thin Line Enhancement" is set in the + direction, hair and the detailed areas of clothing will be emphasized.
If "Thick Line Enhancement" is set in the + direction, the areas emphasized by "Thin Line Enhancement" will be hardly emphasized. Instead, the rough areas of the entire subject, such as contour and background, will be emphasized, resulting in a sharp image.

Setting "Horiz. Line Enhancement" / "Vert. Line Enhancement" to the + side will enhance the image sharpness in the horizontal / vertical direction. Setting them to the - side will give a soft image.

This cannot be adjusted during input of computer image signals.

1 Press Menu, and then select "Image" - "Sharpness". Select "Advanced" at the top-right corner of the screen to confirm the selection.

2 Use or (UP or DOWN) to select a menu item, and use or (LEFT or RIGHT) to make adjustments.
You can adjust "Thin Line Enhancement" and "Thick Line Enhancement" at the same time by using the bar on the top in the screen.
To return the adjustment results to their default settings, press Default.

3 Press Menu to exit the menu.

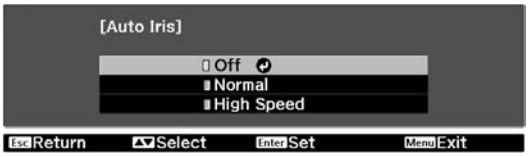
By pressing Sharpness on the remote control, you can directly display the sharpness setting ("Standard"/"Advanced") screen just as selected using "Sharpness" of the "Image" menu.

Auto Iris (automatic aperture) setting

When "Auto Iris" is on, the light intensity from the lamp is automatically controlled according to the brightness of images, and you can get higher contrast and rich images. Tracking speed of the light intensity control in response to changes in brightness of images can be set to either "Normal" or "High Speed" depending on your preference.
Setting is not possible when "Color Mode" is set to "x.v. Color."

* An operation sound of Auto Iris function may be emitted while projecting some images. This is not a failure of the projector.

1 Press Menu, and then select "Image" - "Auto Iris".



2 Select "Normal" or "High Speed" to confirm the selection.

3 Press Menu to exit the menu.

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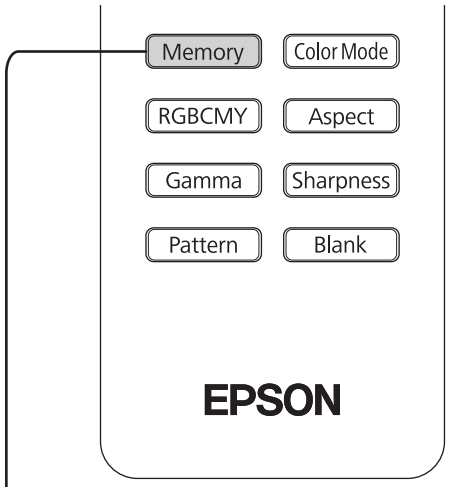
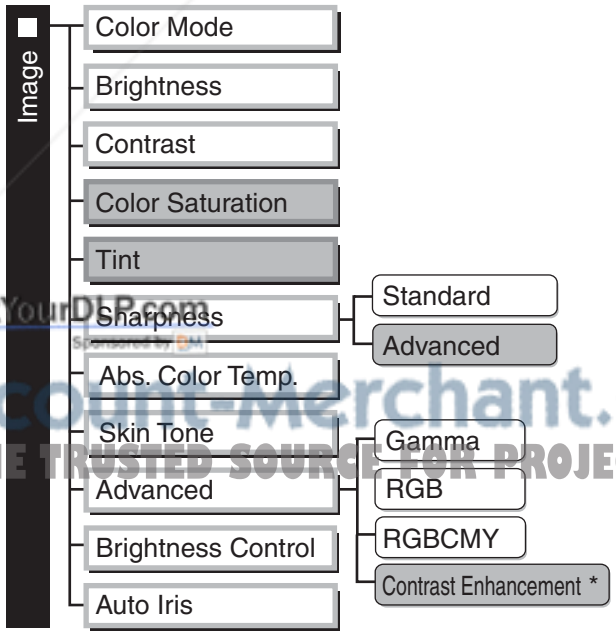
After menu commands such as "Image" has been used to adjust the projected images, the adjustment values can then be saved (Save Memory).
In addition, the saved data can be retrieved easily, so that you can enjoy viewing images with the adjusted settings at any time (Load Memory).



Saving, Loading, Erasing and Renaming memory

The adjustments that can be saved to memory are as follows.
Up to ten adjustments can be saved to memory.
"Rename Memory" is only available for the EH-TW4000.

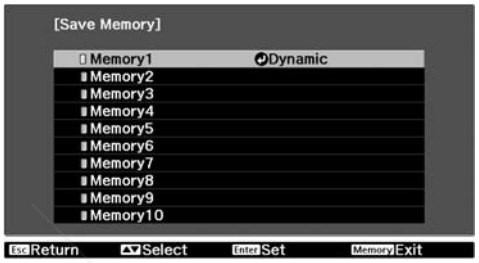


Displayed for input sources other than computer
* EH-TW4000 only

Save Memory

1 Adjust each of the settings to the values to be saved.

2 Press [Memory], and select "Save Memory".
The Save Memory screen is displayed.



3 Select the memory name to register the adjustments to from Memory1 to 10, and press (Enter) or [Enter].
When ▯ preceding the memory name is green, this indicates that adjustments are already saved to memory.
Select an already saved memory name, and press (Enter) or [Enter].
A confirmation message will be displayed.
If you select "Yes", the previous memory content is erased, and the current adjustment values are saved.

Load Memory

Load saved memories.

1 Press [Memory], and select "Load Memory".
The Load Memory screen will be displayed.

2 Select the target memory name.

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TIP

- The color mode selected when the memory was registered is displayed on the right side.
- Memory settings that have been applied to images will be retained even when the projector's power is turned off. The same memory adjustment settings will be applied to images that are projected the next time the projector's power is turned on.
- The aspect setting retrieved from memory may not be applied to the images if they are 16:9 images or if the input signal images have a particular resolution.

Erase Memory

This feature can be used to erase and clean up unwanted memories.

1 Press [Memory], and select "Erase Memory".
The Erase Memory screen will be displayed.

2 Select the memory name to erase.
A confirmation message will be displayed. If you select "Yes", the memory will be erased.

To erase all saved memories, select "Reset" - "Reset Memory" in the Configuration menu.
☞ p.38

Rename Memory (EH-TW4000 only)

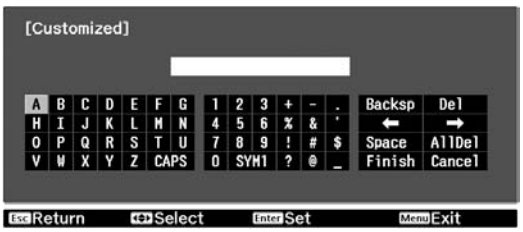
The default names ("Memory1" to "Memory10") can be changed. You can rename memories so that its settings are easy to recognize.

1 Press [Memory], and then select "Rename Memory".
The "Rename Memory" screen is displayed.

2 Select the memory name to be changed, and then press [Enter] or [Enter].

3 The name selection screen is displayed.
To select a memory name from the displayed preset names, select the desired name and then press [Enter] or [Enter] and go to step 5. If you would like to use a custom name, select "Customized".

4 When you select "Customized", the following keyboard is displayed.
Use ▲▼◀▶ or [+] to select the desired key, and then press [Enter] or [Enter]. Once you have entered the name, select "Finish" and then press [Enter] or [Enter].



5 The selected or entered memory name is displayed beside the preset memory number to indicate that the name has been changed.
After this, the changed name is displayed in the "Load Memory" and "Save Memory" screens.

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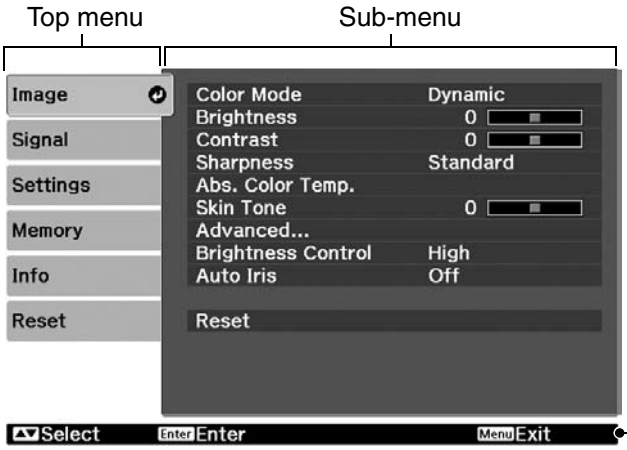
The configuration menus can be used to make a variety of adjustments and settings involving image quality and input signals.

The following two types of menu are available.

■ Full menu

All items in the configuration menu can be checked while the settings are being made.



■ Line menu

Some of the items in the "Image" menu in the Configuration menu can be adjusted.

This menu is useful for viewing the effects of adjustments in the images being projected while the adjustments are being made.

For details on the operation method, refer to "Using the configuration menus" in the next section.

TIP

The Configuration menu can be used to change the color pattern and display position of the menus.

☞ "Settings" - "Display" - "Menu Position", "Menu Color"

Using the configuration menus

1 Displaying a menu

Full menu: Press Menu.

Line menu: Press Enter or Enter.

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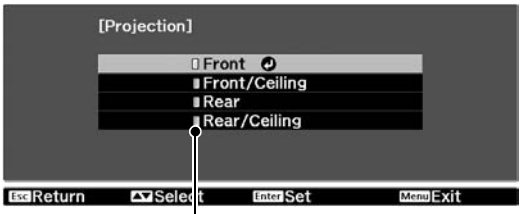
2 Selecting a menu item

Use ▲▼◀▶ or ▲▼◀▶ to select a menu item, then press Enter.

3 Changing settings

Example:

Use ◀ or ▶ to adjust values.



(green): Current setting value

Use ▲ or ▼ to select an item, then press Enter.

If you press Enter when an item with ↵ next to it is selected, the selection screen for that item will be displayed.

To return to a previous display, press Esc.

TIP

- For items such as "Brightness" which can be adjusted using an adjustment bar, the adjustment values can be reset to the default if you press Default while the adjustment bar is being displayed.
- If Blank on the remote control is pressed while a menu is being displayed, the menu screen disappears. This is useful for checking your adjustment result on the images. If you press Blank once more, the menu is displayed again.

4 When setting is complete

Press Menu.

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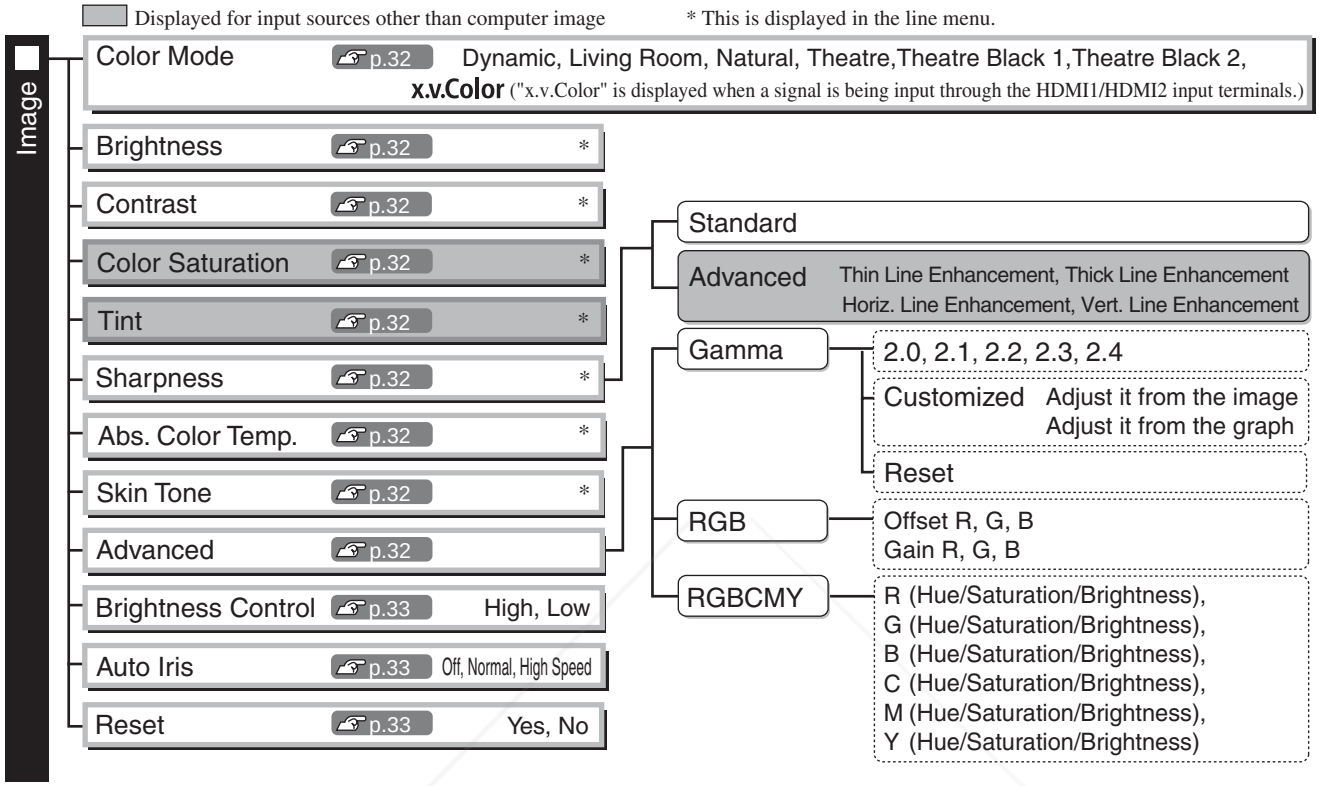
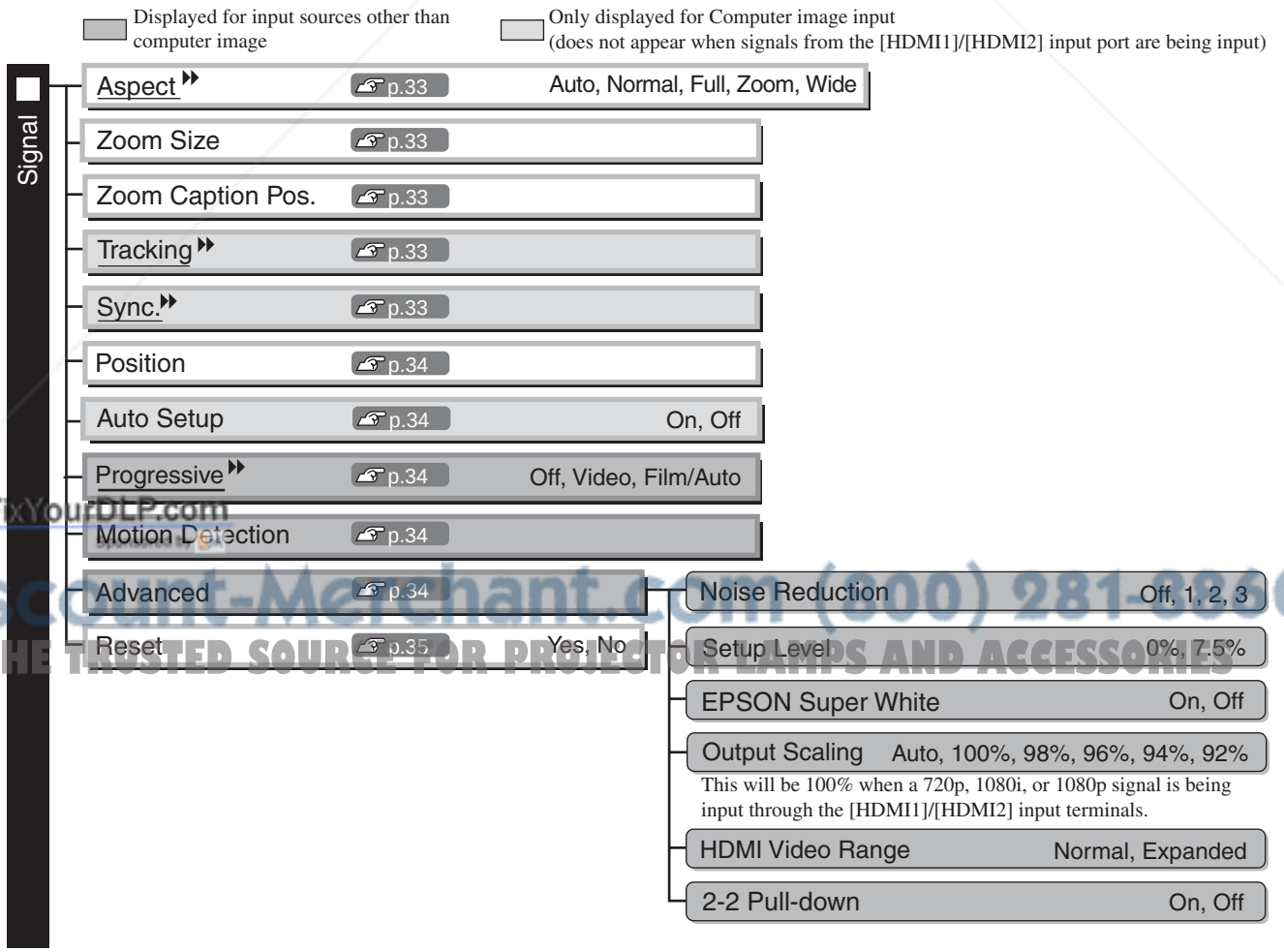
List of configuration menus (For the EH-TW3000/TW2800)

When no image signals are being input, the "Image" menu and the "Signal" menu cannot be adjusted. Also, the items displayed in the "Image" menu, the "Signal" menu and the "Info" menu will vary depending on the type of image signals that are being projected.





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Settings

- Direct Power On p.36 — On, Off
- Sleep Mode p.36 — Off, 5min., 10min., 30min.
- Child Lock p.36 — On, Off
- Control Panel Lock p.36 — On, Off
- Trigger Out p.36 — On, Off
- High Altitude Mode p.36 — On, Off
- Projection p.36 — Front, Front/Ceiling, Rear, Rear/Ceiling
- Display p.37
  - Menu Position — Top-left, Top-center, Top-right, Center-left, Center, Center-right, Bottom-left, Bottom-center, Bottom-right
  - Menu Color — Color 1, Color 2
  - Messages — On, Off
  - Display Background — Black, Blue, Logo
  - Startup Screen — On, Off
- Input Signal p.37
  - Video Signal — Auto, NTSC, NTSC4.43, PAL, M-PAL, N-PAL, PAL60, SECAM
  - Component — Auto, YCbCr, YPbPr
- Language p.37 — 日本語, English, Français, Deutsch, Italiano, Español, Português, 中文(简体), 中文(繁體), 한국어, Nederlands, Dansk, Polski, Magyar, Česky, Norsk, Svenska, Suomi, Русский, Ελληνικά, Türkçe
- Reset p.37 — Yes, No

Only displayed for composite video/S-Video input
Only displayed for component video/Computer image input
Only displayed for Computer image input

Info

- Lamp Hours
  - The message text will be displayed in yellow when it is time to replace the lamp.
  - Time from 0H to 10H will be displayed as 0H. From 10H onwards, the display will be in units of 1H.
- Source
- Input Signal
- Resolution
- Scan Mode
- Refresh Rate
- Sync Info
- Video Signal

The "Info" menu is only used to display the projector status.

- Deep Color

Display the color depth of HDMI transmission.

- Status

This is information about errors that have occurred on the projector.
This value is sometimes referred to when inquiries are made.

Memory

- Load Memory p.38 — Memory1 to Memory10
- Save Memory p.38 — Memory1 to Memory10
- Erase Memory p.38 — Memory1 to Memory10

Reset

- Reset All p.38
- Reset Memory p.38
- Reset Lamp Hours p.38

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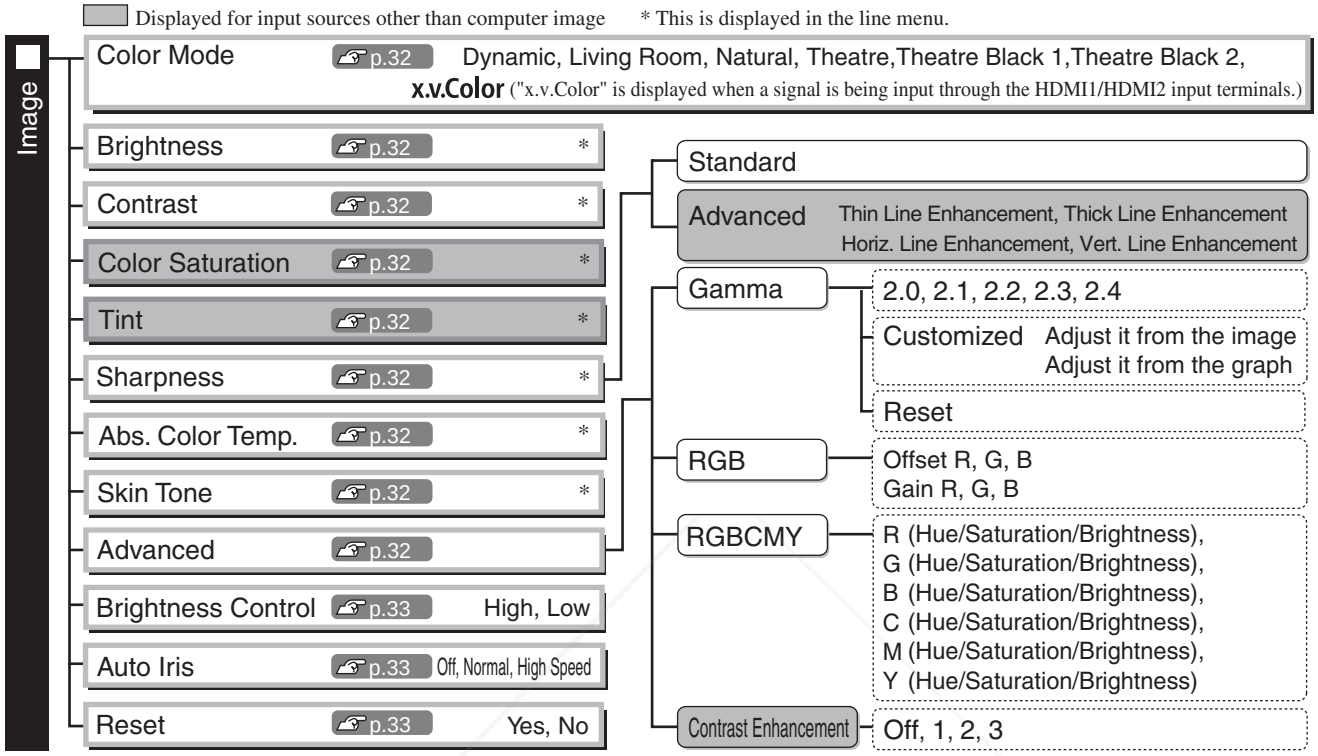
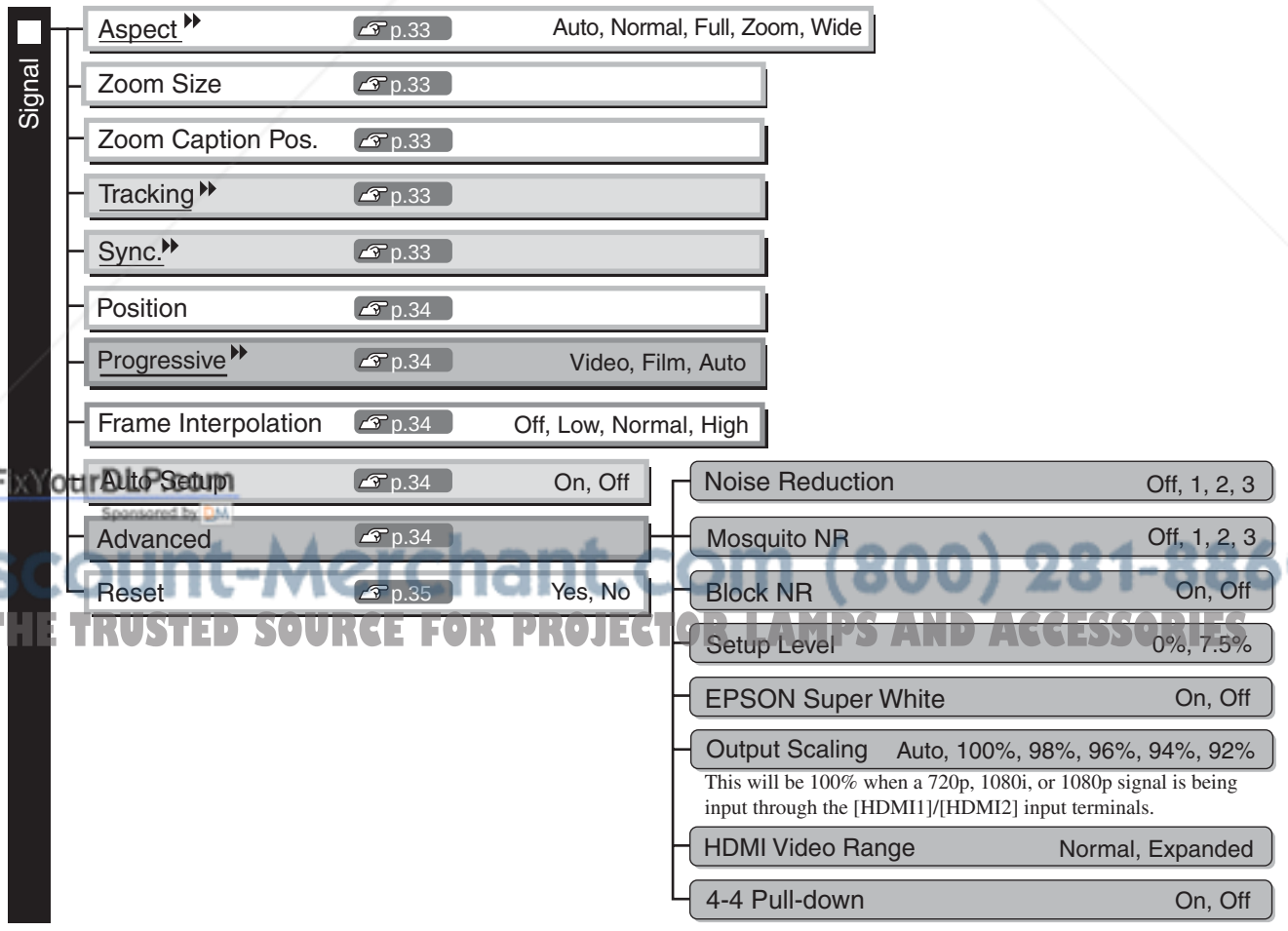
List of configuration menus (For the EH-TW4000)

When no image signals are being input, the "Image" menu and the "Signal" menu cannot be adjusted. Also, the items displayed in the "Image" menu, the "Signal" menu and the "Info" menu will vary depending on the type of image signals that are being projected.





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Settings

- Direct Power On p.36 — On, Off
- Sleep Mode p.36 — Off, 5min., 10min., 30min.
- Child Lock p.36 — On, Off
- Control Panel Lock p.36 — On, Off
- Trigger Out p.36 — On, Off
- High Altitude Mode p.36 — On, Off
- Projection p.36 — Front, Front/Ceiling, Rear, Rear/Ceiling
- Display p.37
  - Menu Position — Top-left, Top-center, Top-right, Center-left, Center, Center-right, Bottom-left, Bottom-center, Bottom-right
  - Menu Color — Color 1, Color 2
  - Messages — On, Off
  - Display Background — Black, Blue, Logo
  - Startup Screen — On, Off
- Input Signal p.37
  - Video Signal — Auto, NTSC, NTSC4.43, PAL, M-PAL, N-PAL, PAL60, SECAM
  - Component — Auto, YCbCr, YPbPr
- Language p.37 — 日本語, English, Français, Deutsch, Italiano, Español, Português, 中文(简体), 中文(繁體), 한국어, Nederlands, Dansk, Polski, Magyar, Česky, Norsk, Svenska, Suomi, Русский, Ελληνικά, Türkçe
- Reset p.37 — Yes, No

Only displayed for composite video/S-Video input
Only displayed for component video/Computer image input
Only displayed for Computer image input

Info

- Lamp Hours
- Source
- Input Signal
- Resolution
- Scan Mode
- Refresh Rate
- Sync Info
- Video Signal
- Deep Color
- Status

- The message text will be displayed in yellow when it is time to replace the lamp.
- Time from 0H to 10H will be displayed as 0H. From 10H onwards, the display will be in units of 1H.

The "Info" menu is only used to display the projector status.

Display the color depth of HDMI transmission.

This is information about errors that have occurred on the projector.
This value is sometimes referred to when inquiries are made.

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Memory

- Load Memory p.38 — Memory1 to Memory10
- Save Memory p.38 — Memory1 to Memory10
- Erase Memory p.38 — Memory1 to Memory10
- Rename Memory p.38 — Memory1 to Memory10

Reset

- Reset All p.38
- Reset Memory p.38
- Reset Lamp Hours p.38

"Image" menu

Displayed for input sources other than computer image

Color Mode *1

Seven different settings can be selected for the Color Mode, to match the images being projected or the projection environment. ☞ p.18

Brightness *2

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)
Adjust this when the output level of the connected equipment is weak and you feel that images are dark.

Contrast ▸▸ *2

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)
Adjusts the difference between bright and dark areas.
When the contrast is increased, images with greater modulation are obtained.

Color Saturation *2

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)
This adjusts the color intensity for the images.

Tint *2

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)
This adjusts the image tint.

Sharpness *2

This adjusts the image sharpness.

Standard

The adjustment results are applied to the entire image.

Advanced

This can be used to adjust a specific region. ☞ p.23

Abs. Color Temp.*2

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)
This adjusts the overall tints of the images. If you select a higher value, images appear bluish, and if you select a lower value, images appear reddish. The absolute color temperature can be set to one of 12 settings within the range of 5000K to 10000K.

Skin Tone *2

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)
This adjusts the skin tones of people who appear in the images. If you select a higher value, green tone is increaced, and if you select a lower value, red tone is increased.

Advanced

(Adjustment is not possible when "Color Mode" is set to "x.v. Color".)

Gamma *1

This adjusts gamma. You can select a value, or make adjustments while viewing an image or a graph. ☞ p.20

RGB *1

This lets you adjust the offset and gain for each of the R/G/B color components. ☞ p.22

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*1 The setting values are stored separately for each image source and signal type.
*2 The setting values are stored separately for each image source and color mode setting.

Displayed for input sources other than computer image
Only displayed for Computer image input (does not appear when signals from the [HDMI1] /[HDMI2] input port are being input)

RGBCMY *1

This lets you adjust the hue, saturation, and brightness for each of the R/G/B/C/M/Y color components.
☞ p.20

Contrast Enhancement (EH-TW4000 only)

This automatically enhances the contrast by calculating based on its current contrast. Select one of the three levels to enhance the contrast. When a larger number is selected, the contrast becomes higher.

Brightness Control *2

This lets you set the lamp brightness to one of two settings.
Set to "Low" if the projection images are too bright when projecting in a dark room or projecting onto a small screen. When used at the "Low" setting, the power consumption and fan noise during projection is reduced.

Auto Iris *3

(Setting is not possible when "Color Mode" is set to "x.v. Color.")
Tracking speed of the light intensity control in response to changes in brightness of images can be set to either "Normal" or "High Speed" depending on your preference. If set to "Off", no light intensity control is performed. ☞ p.23

Reset

This returns all settings in the "Image" menu to their default settings.

"Signal" menu

Aspect *1

Selects the aspect mode. ☞ p.18

Zoom Size *1

This can be set only when "Aspect" is set to "Zoom".
This function enables the image to be reduced in size in the vertical direction so that the top and bottom of images that are hidden from view can be viewed when "Zoom" is set. The larger the adjustment value (reduction ratio) set here, the more the image is compressed and displayed squashed in the vertical direction.

Zoom Caption Pos. *1

This can be set only when "Aspect" is set to "Zoom".
This function moves the display position of the image in one direction, up or down, to display captions when projecting images with captions.

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Tracking *1

This adjusts the images if vertical stripes appear in the images.

Sync. *1

This adjusts the images if flickering, fuzziness or interference appear in the images.
- Flickering and fuzziness may also occur when the brightness, contrast and sharpness settings are adjusted.
- Clearer adjustments can be obtained if you adjust the "Tracking" first and then adjust the "Sync".

*1 The setting values are stored separately for each image source and signal type.
*2 The setting values are stored separately for each image source and color mode setting.
*3 The setting values are stored separately for each color mode setting.

Displayed for input sources other than computer image
Only displayed for Computer image input (does not appear when signals from the [HDMI1] /[HDMI2] input port are being input)

Position *1

(Setting is not possible when signals are being input from the [HDMI1] /[HDMI2] input port.)
When part of the image is clipped, move the image display position vertically and horizontally so that the entire image is projected. Press , , and to adjust the position.

Progressive *1 (EH-TW3000/TW2800 only)

(This can be set only when signals are being input from the [Video] / [S-Video] input port, or 480i, 576i, 1080i signals are being input from the [Component] / [HDMI1] / [HDMI2] input port.)
Interlace (i) signals are converted to progressive (p) signals using a method appropriate for the image.

- Off :This is ideal for using when viewing images with a large amount of movement.
- Video :This is ideal for general video images.
- Film/Auto :Optimum conversion is performed for movie, computer graphics, and animation input signals.

Progressive *1 (EH-TW4000 only)

(This can be set only when signals are being input from the [Video] / [S-Video] input port, or 480i, 576i, 1080i signals are being input from the [Component] / [HDMI1] / [HDMI2] input port.)
Interlace (i) signals are converted to progressive (p) signals using a method appropriate for the image.

- Video :This is ideal for general video images.
- Film :This is ideal for film images. Select this if the setting is "Auto" and flickering appears in the film images.
- Auto :Optimum conversion is performed for movie, computer graphics, and animation input signals.

Motion Detection *1 (EH-TW3000/TW2800 only)

(This can be set only when signals are being input from the [Video] / [S-Video] input port, or 480i, 576i, 1080i signals are being input from the [Component] / [HDMI1] / [HDMI2] input port.)
Select whether the progressive conversion operation mode is for fast-moving images or for slow-moving images. The smaller the value, the more suitable the mode is for viewing still images. The larger the value, the more suitable the mode is for viewing video images.

Frame Interpolation (EH-TW4000 only)

The current and previous frames are compared, and the frame in the middle of them is interpolated to reduce fuzziness and to produce clearer moving images. The degree of interpolation can be set to "Low", "Normal" or "High" as desired.

Auto Setup

This sets automatic adjustment to on or off in order to set whether the projector automatically adjusts images to their optimum condition when the input signal is changed. The three automatically adjusted items are "Tracking", "Position" and "Sync."

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Advanced

(Setting is not possible when "Color Mode" is set to "x.v. Color.")

Noise Reduction *1

This reduces flickering of images.
Three modes are available. Select the mode to suit your liking.
Set "Off" when the image source, such as DVD, contains little electrical interference.

*1 The setting values are stored separately for each image source and signal type.

Displayed for input sources other than computer image

Mosquito NR (EH-TW4000 only)

This reduces the noise which can be generated around the edges of images when projecting MPEG images. Three modes are available. Select your preferred mode.

Block NR (EH-TW4000 only)

Set to "ON" to reduce block noise which can occur when projecting MPEG images which have been compressed at a low bit rate.

Setup Level *1

(This can be set when NTSC signals are being input from the [Video] / [S-Video] input ports, or when component video signals are being input from the [Component] input port.)
If using products designed for destinations such as South Korea that have different black level (setup level) settings, use this function to obtain correct images. Check the specifications of the connected equipment when changing this setting.

EPSON Super White *1

(Setting is only possible when Color Mode is "Natural", "Theatre", "Theatre Black 1", or "Theatre Black 2", and composite video, S-video, or component video signals are being input.)
If bright white areas of images such as clouds and T-shirts on the beach in summer appear uneven and overexposed, set to "On". When set to "On", the "HDMI Video Range" setting will be ignored.

Output Scaling *1

(Setting is not possible when composite video, S-Video, or computer signals are being input.)
This changes the display area (the part of projected images).

- 100% - 92% :When 100% is set, the top and bottom of the image is sometimes affected by electrical interference depending on the image signal. In such cases, try to adjust the display position ("Position"). p.34
- Auto :Displayed when the signals from [HDMI1] / [HDMI2] input port are being input. Signals are automatically projected at 100% or 92% size depending on the input signals. (Not displayed when the equipment's DVI port is connected to the projector's [HDMI1] / [HDMI2] input port.)

HDMI Video Range *1

(Setting is possible only when "EPSON Super White" is "Off". Setting is not possible, however, when "Color Mode" is set to "x.v. Color.")
When the [HDMI1] / [HDMI2] input port of the projector is connected to a DVD player, for example, set the video range of the projector to suit the video range setting of the DVD player. The setting at the DVD player can be either Normal or Expand.

2-2 Pull-down (EH-TW3000/TW2800 only)

(This setting can be made only when a 1080p/24Hz signal is being input to the [Component] or [HDMI1], [HDMI2] input terminals.)
For a 1080p/24Hz input signal, you can select between 2-2 pull-down projection or 2-3 pull-down projection. Selecting "On" sets the 2-2 pull-down.

4-4 Pull-down (EH-TW4000 only)

(This setting can be made only when 480i, 1080i/60Hz or 1080p/24Hz signals are being input to the [Component], [HDMI1] or [HDMI2] input ports or when NTSC, M-PAL or PAL60 signals are being input to the [Video] or [S-Video] input ports.) You can select whether images are projected with the 4-4 pull-down or the 2-3 pull-down. Set to "ON" to project with 4-4 pull-down.

Reset

All the adjustment values on the "Signal" menu, except "Aspect", are returned to their default values.

*1 The setting values are stored separately for each image source and signal type.

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"Settings" menu

Direct Power On

When the main power switch is turned on, you can set for projection to start (On) / not start (Off) without pressing [⏻] or ⏻.

When set to "On" with the main power switch left on, be aware that sudden surges of electricity that may occur when the power comes back on after a power outage may cause the projector to turn on.

Sleep Mode

The projector is equipped with a power-saving function that causes the power to turn off automatically and the projector to switch to standby if no signal is input to the projector for a continuous length of time. The length of time before the power-saving function operates can be selected from four available settings. If "Off" is selected, the power-saving function will not operate.

If you press ⏻ while the projector is in standby mode, projection will start again.

Child Lock

This locks the power on function of the [⏻] button on the projector's control panel, so that a child cannot accidentally turn the projector's power on and look into the projector's lens. When the lock is applied, the power will only turn on if [⏻] is pressed down for about 3 seconds. [⏻] can be used to turn off the power, and the remote control will continue to operate as normal.

If you change the setting, the new setting will take effect after the power has been turned off and the cool-down▸▸ period is complete.

Even if "Child Lock" is set to "On", be aware that projection starts merely by turning the main power switch on when "Direct Power On" is set to "On".

Control Panel Lock

If this is set to "On", you can't operate the projector's control panel buttons and a 🔒 icon appears on the screen when a button is pressed. To cancel, press and hold [Enter] on the projector's control panel for about seven seconds or more.

If you change the setting, the new setting will take effect after exiting the configuration menu.

Trigger Out

This turns the trigger function on and off to determine whether the projector's power on/off status and problems with projector operation are communicated to an external device.

If you change the setting, the new setting will take effect after the power has been turned off and the cool-down▸▸ period is complete.

High Altitude Mode

A fan is set at a certain speed of rotation so as to bring down internal temperature.

When using above an altitude of about 1500m, set to "On".

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Projection

This should be set in accordance with the method used to set up the projector.

- Front : Select when the projector is set up in front of the screen.
- Front/Ceiling : Select when the projector is set up in front of the screen and suspended from a ceiling.
- Rear : Select when the projector is set up behind the screen.
- Rear/Ceiling : Select when the projector is set up behind the screen and suspended from a ceiling.

Display

Menu Position

Press , , and to specify the position for the menus to be displayed.

Menu Color

Selects the color for the main configuration menu.

- Color 1:Black
- Color 2:Blue

Messages

This sets whether the following message displays appear (On) or don't appear (Off).

- Image signal, color mode, aspect and item name when memory settings are retrieved.
- Messages such as when no image signals are being input, when an incompatible signal is input, and when the internal temperature rises.

Display Background

Displays a menu for selecting the screen status for when using the blank function or when no image signal is input.

Startup Screen

This sets whether the start-up screen (the image that is projected when projection starts) is displayed (On) or not displayed (Off).
If you change the setting, the new setting will take effect after the power has been turned off and the cool-down period is complete.

Input Signal

Video Signal

Sets the signal format in accordance with the video equipment that is connected to the [Video] or [S-Video] input port. If set to "Auto", the video signal format is set automatically.
If there is a lot of interference in the image, or if a problem such as no image being projected occurs even though "Auto" has been selected, select the correct signal format manually.

Component

Change this setting depending on the type of signal that is being output from the video equipment that is connected to the [Component] input port.
If "Auto" is selected, appropriate signal is automatically set. If colors appear unnatural even though "Auto" is selected, select appropriate signal name in the menu.

Language

This sets the display language for messages and menus.

Reset

Adjustment values for the "Settings" menu functions are returned to their default settings, except for the "High Altitude Mode", "Projection", "Component", and "Language".

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"Memory" menu

Load Memory

This retrieves settings previously saved using "Save Memory". p.24
This cannot be selected when nothing is saved at "Save Memory".

Save Memory

This can be used to save "Image" menu settings. p.24

Erase Memory

This is used to erase unwanted saved memory. p.25

Rename Memory (EH-TW4000 only)

This can be used to change the names of the memories from "Memory1" to "Memory10". You can rename so that its settings are easy to recognize. Either of the following two methods can be used to change a memory name. p.25

- Select a new memory from the list and then rename it.
- Select "Customized" and then enter a desired name.

"Reset" menu

Reset All

This resets all configuration menu settings to their default settings. "Component" and "Language" in the "Settings" menu, and the settings of "Memory" menu are not returned to their default even if "Reset All" is executed.

Reset Memory

This resets (erases) all settings that have been made using the "Save Memory".

Reset Lamp Hours

Clear the cumulative lamp operating time and reset to "0H". Perform this procedure when you replace the lamp.

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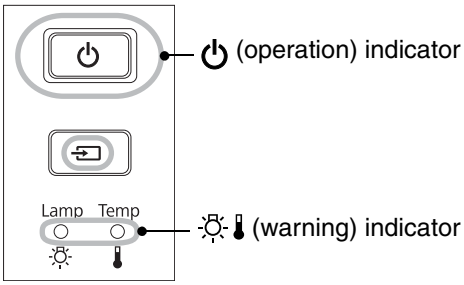
Reading the indicators

The projector indicates its status using the indicators. (the icon and the around the button) and (the icon) light and flash, and lights and flashes in red according to the current status.

The following tables show what the indicators mean and how to remedy the problems that they indicate.

* If all indicators are switched off, check that the power cable is connected correctly and that the main power switch is on.



When the (warning) indicator is lit or flashing warning/problem

● : Lit ☼/⏻ : Flashing ○ : Off

Internal problem

Red Red

Fan problem / Sensor problem

Red

Auto iris problem/ Cinema filter problem

Red Red

Attention

Disconnect the power cable from the electrical outlet. Then contact your local dealer or the nearest address provided in the *Support and Service Guide*. ☞ *Epson Projector Contact List*

Lamp problem / Lamp on error

Red

Check if the lamp is broken. ☞ p.50

Clean the air filter. ☞ p.47

If the lamp is not broken → Replace the lamp and then turn the power on.

If the problem is still not solved after the lamp is replaced, stop using the projector and disconnect the power cable from the electrical outlet. Then contact your local dealer or the nearest address provided in the *Support and Service Guide*. ☞ *Epson Projector Contact List*

If the lamp is broken → Contact your local dealer or the nearest address provided in the *Epson Projector Contact List*.

When using above an altitude of about 1500 m, make sure you set the "High Altitude Mode" to "On". ☞ p.36

High internal temperature (overheating)

Red

The lamp will switch off automatically and projection will stop. Wait for approximately 5 minutes. When the cooling fan stops, turn off the main power switch at the rear of the projector.

- If the projector is installed against a wall, leave a space of 20 cm or more between it and the wall.
- Clean the air filters if they are blocked. ☞ p.47

If the problem is not solved when the power is turned back on, stop using the projector, turn off the main power switch, and disconnect the power cable from the electrical outlet. Then contact your local dealer or the nearest address provided in the *Support and Service Guide*. ☞ *Epson Projector Contact List*

High-speed cooling in progress

Orange

You can continue using the projector, but if the temperature rises again, it will switch off automatically.

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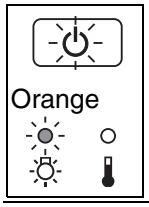


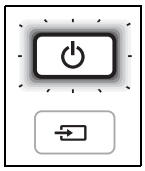
Lamp replacement warning
It is time to replace the lamp. Replace the lamp with a new one as soon as possible. p.52
If you continue to use the projector without replacing the lamp, the lamp may blowout.

Indicator statuses in normal operation

During normal operation, the indicator is off. : Lit : Flashing

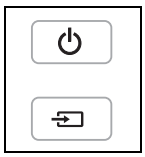
Standby condition

If you press , projection will start after a brief interval.



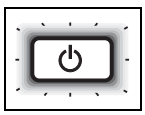
Warm-up in progress

Warm-up time is approximately 30 seconds.
Power off operations are ignored while warm-up is in progress.



Projection in progress

Normal operation is in progress.



Cool-down in progress (Approx. 16 seconds)

Remote control and control panel are disabled while cool-down is in progress. Once cool-down is complete, the projector turns to stand-by mode. If the main power switch at the rear of the projector is turned off while cool-down is still in progress, wait until the lamp has cooled down sufficiently (approximately 10 minutes is required), and then turn the main power switch back on.

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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** ☞ p.41
  Projection does not start, the projection area is completely black, the projection area is completely blue, etc.
- **Moving images are not displayed** ☞ p.42
  Moving images played on computer are not displayed.
- **The message "Not Supported" is displayed** ☞ p.42
- **The message "No Signal" is displayed** ☞ p.43
- **Images are fuzzy or out of focus** ☞ p.43
- **Interference or distortion appear in images** ☞ p.43
  Problems such as interference, distortion or black & white checked patterns appear.
- **Image is truncated (large) or small** ☞ p.44
  Only part of the image is displayed.
- **Image colors are not right** ☞ p.44
  The whole image appears purplish or greenish, images are black & white, colors appear dull, etc.
  (Computer monitors and LCD screens have different color reproduction performance, so that the colors projected by the projector and the colors appearing on the monitor may not necessarily match, but this is not a sign of a problem.)
- **Images appear dark** ☞ p.45
- **Projection stops automatically** ☞ p.45

Problems when projection starts

- **Power does not turn on** ☞ p.45

Problems with the remote control

- **The remote control does not work** ☞ p.46

Problems relating to images

■ No images appear

Have you pressed the [Power] button?	Press ⏻ on the remote control or ⏻ on the projector's control panel.
Is the main power switch turned off?	Turn on the main power switch at the rear of the projector.
Are all of the indicators switched off?	Disconnect the power cable and then reconnect it. ☞ p.14 Check the circuit breaker to see if power is being supplied.
Is blank mode active?	Press Blank on the remote control to cancel the blank function.
Is a video signal being input?	Check that the power for the connected equipment is turned on. If the "Messages" menu command has been set to "On", messages relating to the image signals will be displayed. ☞ "Settings" - "Display" - "Messages" p.37

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Are the image signal format settings correct?	If a composite video▸▸ or S-Video▸▸ signal is being input If projection does not occur when the "Video Signal" menu command is set to "Auto", select the signal format that matches the signal source. ☞ "Settings" - "Input Signal" - "Video Signal" p.37
	If the signal source is connected to the [Component] input port If projection does not occur when the "Component" in the "Input Signal" menu command is set to "Auto", set the signal format that matches the signal that is being projected from the connected equipment. ☞ "Settings" - "Input Signal" - "Component" p.37
Have the configuration menu settings been made correctly?	Try resetting all of the current settings. ☞ p.38
Were the projector and computer connected while their power was already turned on? **When a computer is connected**	If the connection is made while the power is already turned on, the function [Fn] key that switches the computer's video signal to external output may not work. Turn the power for the computer that is connected to the projector off and then back on again.

■ Moving images are not displayed

Is the computer image signal set to output simultaneously both externally and to the LCD monitor? **Only when projecting images from a laptop computer or computer with a built-in LCD screen**	Set the image signal to output only externally. ☞ Computer documentation, under a title such as "External output" or "Connecting an external monitor"

■ The message "Not Supported" is displayed

Are the image signal format settings correct?	If a composite video▸▸ or S-Video▸▸ is being input If projection does not occur when the "Video Signal" menu command is set to "Auto", select the signal format that matches the signal source. ☞ "Settings" - "Input Signal" - "Video Signal" p.37
	If the signal source is connected to the [Component] input port If projection does not occur when the "Component" in the "Input Signal" menu command is set to "Auto", set the signal format that matches the signal that is being projected from the connected equipment. ☞ "Settings" - "Input Signal" - "Component" p.37
Does the mode match the frequency and resolution of the image signals? **Only when projecting computer images**	Use the "Resolution" menu command to check the signals being input, and check the "List of Supported Monitor Displays" to make sure that the signals are compatible. ☞ "Info" - "Resolution" p.29, 31 ☞ "List of Supported Monitor Displays" p.53

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The message "No Signal" is displayed

Are the cables connected correctly?	Check that all of the cables required for projection are securely connected. p.12
Has the correct video input port been selected?	Press [HDMI 1], [HDMI 2], [Component], [PC], [S-Video] or [Video] on the remote control or [⇨] on the projector's control panel to change the image source. p.15
Is the power for the connected equipment turned on?	Turn the power on for the devices.
Are the image signals being output to the projector? **Only when projecting images from a laptop computer or computer with a built-in LCD screen**	If the image signals are only being output to the computer's LCD monitor, you need to change the output. For some computer models, when the image signals are output externally, they no longer appear on the LCD monitor. Computer documentation, under a title such as "External output" or "Connecting an external monitor"
	If the connection is made while the power is already turned on, the function [Fn] key that switches the computer's video signal to external output may not work. Turn the power for the projector and the computer off and then back on again. p.14

Images are fuzzy or out of focus

Has the focus been adjusted correctly?	Adjust the focus. p.16
Is the lens cover still attached?	Remove the lens cover.
Is the projector at the correct distance?	The recommended distance from the projector to the screen is within 87 to 1276 cm (2.8 to 41.9 ft.) for a screen size of 16:9, and 107 to 1562 cm (3.5 to 51.2 ft.) for a screen size of 4:3. Set up the projector so that the projection distance is within this range. p.10
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 approximately one hour before it is to be used. If condensation forms on the lens, turn the power off and wait for the condensation to disappear.

Interference or distortion appear in images

Are the image signal format settings correct?	If a composite video or S-Video is being input If projection does not occur when the "Video Signal" menu command is set to "Auto", select the signal format that matches the signal source. "Settings" - "Input Signal" - "Video Signal" p.37
	If the signal source is connected to the [Component] input port If projection does not occur when the "Component" in the "Input Signal" menu command is set to "Auto", set the signal format that matches the signal that is being projected from the connected equipment. "Settings" - "Input Signal" - "Component" p.37
Are the cables connected correctly?	Check that all of the cables required for projection are securely connected. p.12

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Is an extension cable being used?	If an extension cable is used, interference may increase. Try connecting a signal amplifier.
Have the "Sync." and "Tracking" settings been adjusted correctly? **Only when projecting computer images**	The projector has an automatic adjustment function that causes the optimum images to be projected. However, for some types of signal, the correct adjustments may not be obtained even after automatic adjustment is carried out. In such cases, use the "Tracking" and "Sync." menu commands to make the adjustments. ☞ "Signal" - "Tracking", "Sync." p.33
Has the correct resolution been selected? **Only when projecting computer images**	Set the computer so that the signals that are output are compatible with this projector. ☞ "List of Supported Monitor Displays" p.53 Computer documentation

■ Image is truncated (large) or small

Has the correct aspect been selected?	Press [Aspect] to select the aspect that corresponds to the input signal. ☞ p.18 If images with subtitles are being projected using "Zoom", use the "Zoom Caption Pos." menu command to adjust the images. ☞ p.33
Has the "Position" setting been adjusted correctly?	Use the "Position" the menu command to make the adjustment. ☞ "Signal" - "Position" p.34
Has the computer been set for dual display? **Only when projecting computer images**	If the dual display setting has been activated by the connected computer, only half of the images on the computer screen is displayed by the projector. To display the whole of the image on the computer screen, turn off the dual display setting. ☞ Computer video driver documentation
Has the correct resolution been selected? **Only when projecting computer images**	Set the computer so that the signals that are output are compatible with this projector. ☞ "List of Supported Monitor Displays" p.53 Computer documentation

■ Image colors are not right

Are the image signal format settings correct?	If a composite video or S-Video is being input If projection does not occur when the "Video Signal" menu command is set to "Auto", select the signal format that matches the signal source. ☞ "Settings" - "Input Signal" - "Video Signal" p.37
	If the signal source is connected to the [Component] input port If projection does not occur when the "Component" in the "Input Signal" menu command is set to "Auto", set the signal format that matches the signal that is being projected from the connected equipment. ☞ "Settings" - "Input Signal" - "Component" p.37
Are the cables connected correctly?	Check that all of the cables required for projection are securely connected. ☞ p.12
Has the image contrast been adjusted correctly?	Use the "Contrast" menu command to adjust the color. ☞ "Image" - "Contrast" p.32
Has color been adjusted appropriately?	Use the "Advanced" menu command to adjust the color. ☞ "Image" - "Advanced" p.32

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Have the color intensity and tint been adjusted correctly? **Only when projecting images from a video source**	Use the "Color Saturation" and "Tint" menu commands to adjust the color and tint. ☞ "Image" - "Color Saturation", "Tint" p.32

■ Images appear dark

Has the image brightness been adjusted correctly?	Use the "Brightness" menu commands to make the adjustments. ☞ "Image" - "Brightness" p.32
Has the image contrast been adjusted correctly?	Use the "Contrast" menu command to adjust the color. ☞ "Image" - "Contrast" p.32
Is the lamp due for replacement?	When the lamp is nearly due for replacement, the images will become darker and the color quality will become poorer. When this happens, the lamp should be replaced with a new one. ☞ p.50

■ Projection stops automatically

Is sleep mode active?	When "Sleep Mode" has been set to On, the lamp turns off automatically if no signal is input for about 30 minutes, and the projector switches to standby mode. Press the ⏻ button on the remote control or the ⏻ button on the projector's control panel to turn the projector's power back on. To cancel the sleep mode setting, change "Sleep Mode" menu command to "Off". ☞ "Settings" - "Sleep Mode" p.36

Problems when projection starts

■ Power does not turn on

Have you pressed the [Power] button?	Press ⏻ on the remote control or ⏻ on the projector's control panel.
Is "Child Lock" set to "On"?	If the "Child Lock" menu command is set to "On", press ⏻ on the projector's control panel for about 3 seconds or press ⏻ on the remoto control to turn the power on. ☞ "Settings" - "Child Lock" p.36
Is "Control Panel Lock" set to "On"?	If the "Control Panel Lock" menu command is set to "On", all buttons on the projector's control panel are disabled. Press ⏻ on the remote control. ☞ "Settings" - "Control Panel Lock" p.36
Are all of the indicators switched off?	Disconnect the power cable and then reconnect it. ☞ p.14 Check the circuit breaker to see if power is being supplied.
Do the indicators turn off and on when the power cable is touched?	Turn the power off, disconnect the power cable and then reconnect it. If this does not solve the problem, there may be a problem with the power cable. Then contact your local dealer or the nearest address provided in the *Support and Service Guide*. ☞ *Epson Projector Contact List*

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Problems with the remote control

The remote control does not work

Is the remote control light-emitting area facing towards the remote control light-receiving area when it is operated?	Face the remote control towards the remote control light-receiving area. Operating range ☞ p.13
Is the remote control too far from the projector?	The operating range for the remote control is approximately 10m. ☞ p.13
Is direct sunlight or strong light from fluorescent lamps shining onto the remote control light-receiving area?	Set the projector up in a location where strong light will not shine onto the remote control light-receiving area.
Are the batteries dead, or have the batteries been inserted correctly?	Insert new batteries, while making sure that they face correctly. ☞ p.13

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This section describes maintenance tasks such as cleaning the projector and replacing consumable parts.

Cleaning

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

> Attention Be sure to read the separate *Safety Instructions/Support and Service Guide* for details on safe handling of the projector during cleaning.

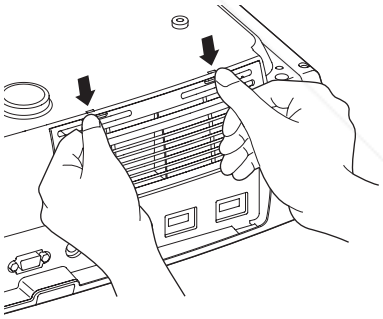
Cleaning the air filter

If the air filter becomes blocked with dust and the message "The projector is overheating. Make sure nothing is blocking the air vent, and clean or replace the air filter" is displayed, clean the air filter.

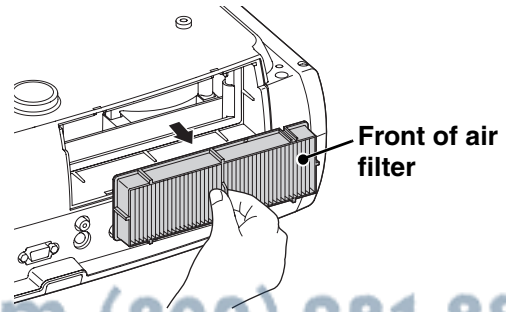
> Attention
> - If the air filter becomes clogged with dust, it can result in overheating which may cause operating problems or reduce the operating life of the optical parts. It is recommended that you clean the air filter about once every three month. If using the projector in a dusty location, the air filter should be cleaned more often.
> - The air filter is not washable. Also do not use detergent or solvents.
> - When using a brush for cleaning, use a soft brush with long bristles and brush the filter gently. If you brush too strong, dust may be pushed inside the air filter and hardly be removed.

1 Remove the air filter cover.

Press the knobs to release the catches, and then pull the cover upward.



2 Take out the air filter.



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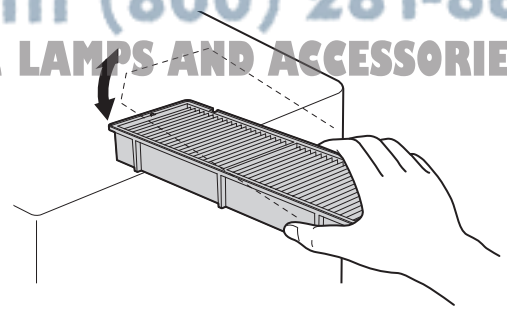
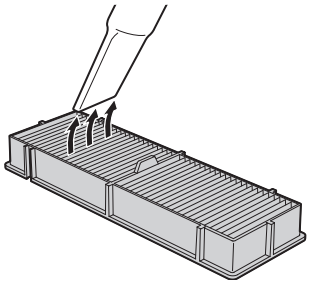
3 Tap the air filter four or five times with the surface facing downwards to shake off the dust.

Hold the filter at the other side and tap it again to shake off the dust.

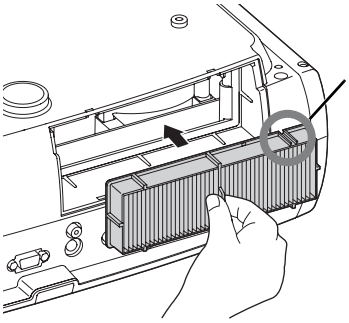


> Attention Do not hit the air filter hard, otherwise it may become bent or broken and can no longer be used.

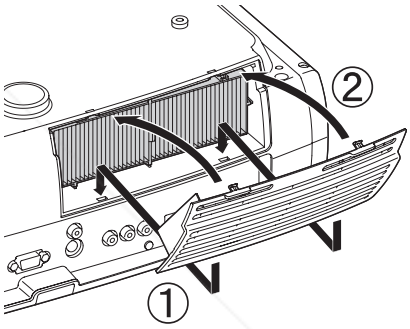
4 **Use a vacuum cleaner to remove any remaining dust from the surface of the air filter.**



5 **Install the air filter.**

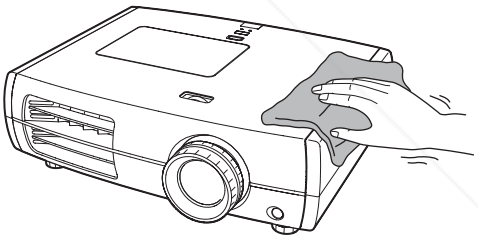


6 **Install the air filter cover.**



Cleaning the projector case

Clean the projector case 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 case. Then wipe the case again with a soft, dry cloth.



Attention — Do not use volatile substances such as wax, alcohol or thinner to clean the projector case. These can cause the case to warp and make the coating finish peel off.

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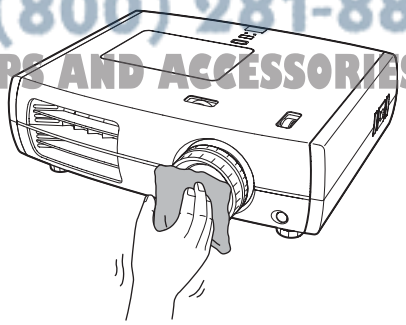
Cleaning the lens

To clean the lens it is preferable to use an air blower purchased for the purpose. But alternatively you can wipe it gently clean with a spectacle-cleaning cloth.



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

Consumable replacement periods

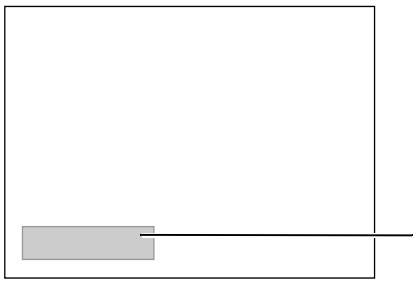
Air filter replacement period

- If the air filter has been broken or the "Replace" message is displayed even though the air filter has been cleaned.

  Replace with an optional air filter.
  ☞ Replacing the air filter p.50

Lamp replacement period

- The message "Replace the lamp." appears on the screen when projection starts.



- The projected images get darker or start to deteriorate.

TIP

- The replacement warning message is set to appear after a minimum of about 3900 hours of lamp use in order to maintain the initial brightness and quality of the projected images. The time taken for the message to appear will vary depending on usage conditions such as Color Mode settings.
  If you continue to use the lamp after this period, the possibility of the lamp breaking becomes greater. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.
- Depending on the characteristics of the lamp and on 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 ready in case it is needed.
- Contact your local dealer or the nearest address provided in the *Epson Projector Contact List*.

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Replacing consumables

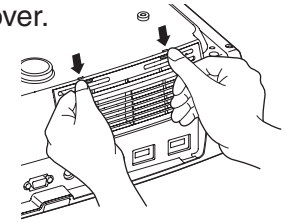
Replacing the air filter

TIP

Dispose of used air filters properly in accordance with your local regulations.
Frame material: PP
Filter materials: PP, PET

1 Press ⏻ or ⏻ to turn off the power, and then turn the main power switch OFF.

2 Remove the air filter cover.



Press the knobs to release the catches, and then pull the cover upward.

Replacing the lamp

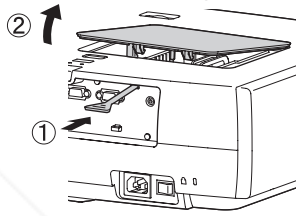
⚠ Warning

If the lamp stops working and needs to be replaced, there is the danger that the lamp may already be broken. If replacing the lamp of a projector which has been installed to the ceiling, you should always assume that the lamp is broken and handle it with extreme care during removal. Furthermore, you should stand to the side of the projector, not underneath it.

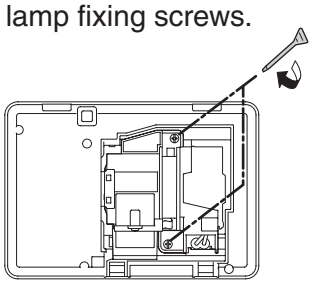
1 Press ⏻ or ⏻ to turn off the power, and then turn the main power switch OFF.

* Wait until the lamp cools down (takes approximately 1 hour).

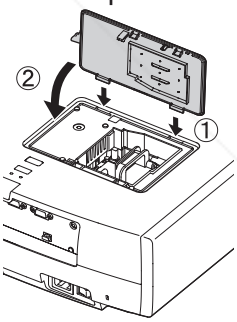
2 Insert the supplied screwdriver of the replacement lamp into the lamp cover opening switch, then remove the lamp cover.



6 Securely tighten the lamp fixing screws.



7 Install the lamp cover.



Resetting the lamp operating time

The lamp operating time must always be reset after the lamp has been replaced with a new one.
The projector has a built-in counter which keeps track of the lamp operating time. When the cumulative operating time reaches a certain point, it causes the replacement warning message to be displayed.

1 Press ⏻ to turn on the power.

2 Press Menu to display the configuration menu.

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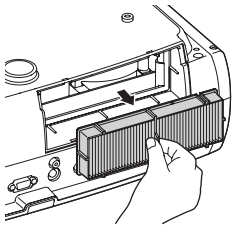
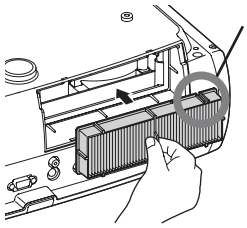
3 Remove the old air filter.

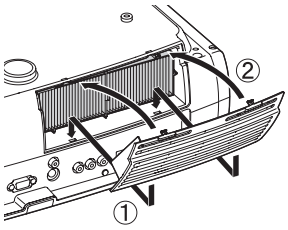


4 Insert the new air filter.

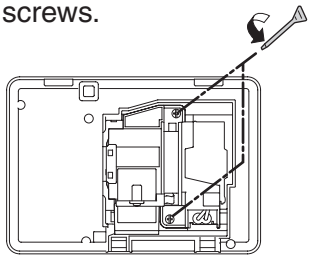


Install with the groove faced to the right.

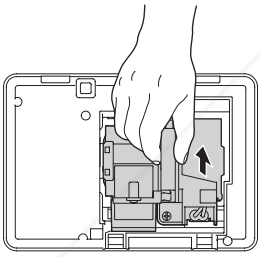
5 Install the air filter cover.



3 Loosen the lamp fixing screws.

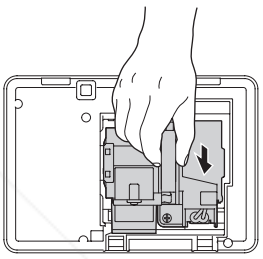


4 Remove the old lamp.



Pull out straight.

5 Insert the new lamp.



Make sure that it faces the correct way.

Attention

- Install the lamp and the lamp cover securely. The projector will not turn on if the lamp or the lamp cover is not installed correctly.
- 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.

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3 Select "Reset Lamp Hours" from the "Reset" menu.

4 Select "Yes" and then press Enter.

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Optional Accessories/Consumables

The following optional accessories/consumables are available for purchase if required. This list of optional accessories/consumables is current as of: 2008.11. Details of accessories are subject to change without notice.

Varies depending on country of purchase.

■ Optional Accessories

50" Portable Screen	ELPSC06

A compact screen which can be carried easily.
(Aspect 4:3)

60" Portable Screen	ELPSC07
80" Portable Screen	ELPSC08
100" Portable Screen	ELPSC10

A portable roll-type screen. (Aspect 4:3)

VGA-HD15 PC Cable (1.8 m)	ELPKC02
VGA-HD15 PC Cable (3 m)	ELPKC09
VGA-HD15 PC Cable (20 m)	ELPKC10

(For mini D-Sub 15-pin/mini D-Sub 15-pin)
Use to connect the projector to a computer.

Ceiling Mount*	ELPMB20

(with ceiling plate)
Use when installing the projector to a ceiling.

Celling Pipe 600 (600 mm/white)*	ELPFP07

Use when installing the projector to a high ceiling or a ceiling with veneer panels.

Cable Cover (Black)	ELPCC01B
Cable Cover (White)	ELPCC01W

Use to cover cables of the projector that is suspended from a ceiling to improve the appearance.

* A special method of installation is required in order to suspend the projector from the ceiling. Please contact the place of purchase if you would like to use this installation method.

■ Consumables

Lamp Unit	ELPLP49

(1 spare lamp, 1 spare screwdriver)
Use as a replacement for spent lamps.

Air Filter Set	ELPAF21

(1 air filter)
Use as a replacement for old air filters.

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Depending on the setting, the output screen resolution will change slightly.

Component Video

4:3 16:9 : Aspect Units: Dots

Signal	Resolution	Aspect mode			
		Normal	Full	Zoom	Wide
SDTV (480i, 60Hz)	720×480 720×360 *	1440×1080 4:3	1920×1080 16:9	1920×1080 16:9	1920×1080 16:9
SDTV(576i, 50Hz)	720×576 720×432 *	1440×1080 4:3	1920×1080 16:9	1920×1080 16:9	1920×1080 16:9
SDTV(480p)	720×480 720×360 *	1440×1080 4:3	1920×1080 16:9	1920×1080 16:9	1920×1080 16:9
SDTV(576p)	720×576 720×432 *	1440×1080 4:3	1920×1080 16:9	1920×1080 16:9	1920×1080 16:9
HDTV (720p) 16:9	1280×720	1920×1080 16:9	-	-	-
HDTV(1080i) 16:9	1920×1080	1920×1080 16:9	-	-	-
HDTV(1080p) 16:9	1920×1080	1920×1080 16:9	-	-	-

*Letterbox signal

Composite Video/S-Video

4:3 16:9 : Aspect Units: Dots

Signal	Resolution	Aspect mode			
		Normal	Full	Zoom	Wide
TV(NTSC)	720×480 720×360 *	1440×1080 4:3	1920×1080 16:9	1920×1080 16:9	1920×1080 16:9
TV(PAL, SECAM)	720×576 720×432 *	1440×1080 4:3	1920×1080 16:9	1920×1080 16:9	1920×1080 16:9

*Letterbox signal

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Computer image (analog RGB)

Units: Dots

Signal	Resolution	Aspect mode			
		Normal	Full	Zoom	Wide
VGA 60	640×480 640×360 *2	1440×1080	1920×1080	1920×1080	1920×1080
VESA72/75/85, iMac*1	640×480 640×360 *2	1440×1080	1920×1080	1920×1080	1920×1080
SVGA 56/60/72/75/85, iMac*1	800×600 800×450 *2	1440×1080	1920×1080	1920×1080	1920×1080
XGA 60/70/75/85, iMac*1	1024×768 1024×576 *2	1440×1080	1920×1080	1920×1080	1920×1080
WXGA60-1	1280×768	1800×1080	1920×1080	1920×1080	-
WXGA60-2	1360×768	1912×1080	1920×1080	1920×1080	-
SXGA 60/70/75	1152×864	1440×1080	1920×1080	1920×1080	1920×1080
	1280×1024	1350×1080			-
	1280×960	1440×1080			1920×1080
MAC13"	640×480	1440×1080	1920×1080	1920×1080	1920×1080
MAC16"	832×624	1440×1080	1920×1080	1920×1080	1920×1080
MAC19"	1024×768	1440×1080	1920×1080	1920×1080	1920×1080
MAC21"	1152×870	1430×1080	1920×1080	1920×1080	-

*1 Connection is not possible if the equipment does not have a VGA output port.
*2 Letterbox signal
It may be possible to project signals which are not listed in the above table. However, some functions may be limited in that case.

Input signal from the [HDMI1] / [HDMI2] input port

Units: Dots

Signal	Resolution	Aspect mode			
		Normal	Full	Zoom	Wide
VGA 60	640×480 640×360 *2	1440×1080	1920×1080	1920×1080	1920×1080
SDTV (480i, 60Hz)	720×480 720×360 *2	1440×1080	1920×1080	1920×1080	1920×1080
SDTV(480p)	720×480 720×360 *2	1440×1080	1920×1080	1920×1080	1920×1080
SDTV(576i, 50Hz)	720×576 720×432 *2	1440×1080	1920×1080	1920×1080	1920×1080
SDTV(576p)	720×576 720×432 *2	1440×1080	1920×1080	1920×1080	1920×1080
HDTV (720p)	1280×720	1920×1080	-	-	-
HDTV(1080i)	1920×1080	1920×1080	-	-	-
HDTV(1080p)	1920×1080	1920×1080	-	-	-

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*1 Connection is not possible if the equipment does not have a VGA output port.
*2 Letterbox signal
It may be possible to project signals which are not listed in the above table. However, some functions may be limited in that case.

Product name		EH-TW4000	EH-TW3000/TW2800
Dimensions		450 (W) × 136 (H) × 360 (D) mm (not including feet)	
Panel size		0.74 inch wide	
Display method		Polysilicon TFT active matrix	
Resolution		2,073,600 pixels (1920 (W) × 1080 (H) dots) × 3	
Scanning frequencies (Analogue/Digital)		Pixel clock: 13.5 to 150 MHz	
		Horizontal: 15 to 80 kHz	
		Vertical: 24, 50 to 85 Hz	
Focus adjustment		Manual	
Zoom adjustment		Manual (Approx. 1 : 2.1)	
Lens shift		Manual (Maximums: Approx. 96% vertically, 47% horizontally)	
Lamp (light source)		UHE lamp, 200 W, Model No.: ELPLP49	
Power supply		100 to 240V AC±10%, 50/60Hz, 3.3 to 1.5A	100 to 240V AC±10%, 50/60Hz, 3.2 to 1.4A
Power Consumption	100 to 120V area	Operating: 285W	Operating: 269W
		Standby: 0.2W	
	220 to 240V area	Operating: 299W	Operating: 281W
		Standby: 0.4W	
Operating altitude		0 to 2286m (0 to 7500ft.)	
Operating temperature		+5 to +35°C (No condensation)	
Storage temperature		-10 to +60°C (No condensation)	
Mass		Approx. 7.5kg	Approx. 7.3kg

Ports			
	Component input	1	RCA pin jack × 3
	PC input	1	Mini D-sub 15-pin (female) blue
	HDMI1 input	1	HDMI
	HDMI2 input	1	HDMI
	Video input	1	RCA pin jack
	S-Video input	1	Mini DIN 4-pin
	RS-232C	1	D-sub 9-pin (male)
	Trigger out	1	3.5 mm mini jack

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Pixelworks DNX™ ICs are used in this Projector.

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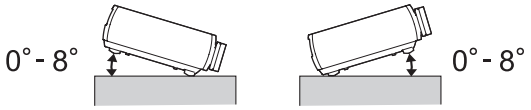
This product is also designed for IT power distribution system with phase-to-phase voltage 230V.

■ Angle of tilt

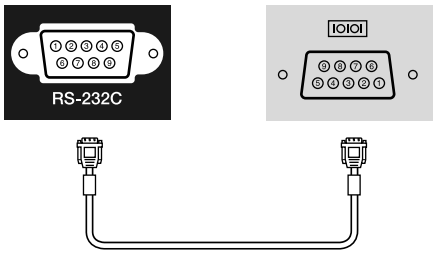


If you set the projector higher than 8 °, it could damage the projector and cause an accident.

■ RS-232C cable layout

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

<At projector> <At computer>



<At projector> (PC serial cable) <At computer>

GND	5	———	5	GND
RD	2	←———	3	TD
TD	3	———→	2	RD
DTR	4	———→	6	DSR
DSR	6	←———	4	DTR

Signal	Function
GND	Signal wire earth
TD	Transmit data
RD	Receive data
DSR	Data set ready
DTR	Data terminal ready

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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: 313 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	: H291C/H292C

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.

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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.

Following is an explanation of some of the terms used in this guide which may be unfamiliar or which were not explained in the manual itself. Further information can be obtained by referring to other commercially-available publications.

Aspect

The ratio between an image's length and its height. HDTV images have an aspect of 16:9 and appear elongated. The aspect for standard images is 4:3.

Component video

Video signals which have the video brightness signals and color signals separated, in order to provide better image quality.
In high-definition TV (HDTV), it refers to images which consist of three independent signals: Y (luminance signal), and Pb and Pr (color difference signals).

Composite video

Video signals which have the video brightness signals and color signals mixed together. The type of signals commonly used by household video equipment (NTSC, PAL and SECAM formats).
Video signals which consist of a carrier signal Y (luminance signal) within the color bar signal, and a chroma or color signal (CbCr).

Contrast

The relative brightness of the light and dark areas of an image can be increased or decreased in order to make text and graphics stand out more clearly, or to make them appear softer.

Cool-down

This is the process by which the projector's lamp is cooled down after it has become hot through use. It is carried out automatically when the [Power] button on either the remote control or the projector's control panel has been pressed to turn off the projector. Do not turn off the main power switch while cool-down is in progress, otherwise the cool-down process will not work properly. If the cool-down period is not allowed to finish normally, the projector's lamp and internal components will remain at high temperatures, and this may shorten the useful life of the lamp or cause problems with the operation of the projector. The projector takes about 16 seconds to cool down. The actual time will vary depending on the external air temperature.

HDMI

An abbreviation for High Definition Multimedia Interface, and refers to a standard for digital transmission of high-definition images and multi-channel audio signals.
HDMI is a standard that is targeted towards household digital equipment and computers that allows digital signals to be transmitted in their original high quality without compression, and it also includes a digital signal encryption function.

HDTV

An abbreviation for High-Definition Television. It refers to high-definition systems which satisfy the following conditions.
- Vertical resolution of 720p or 1080i or greater (p = progressive , i = interlaced)
- Screen aspect of 16:9
- Dolby Digital audio reception and playback (or output)

Interlace

A method of image scanning whereby the signal bandwidth used is approximately half that required for sequential scanning when images with the same still picture resolution are broadcast.

NTSC

An abbreviation for National Television Standards Committee, and a format for ground-based analogue color television broadcasts. This format is used in Japan, North America and Central and South America.

PAL

An abbreviation for Phase Alternation by Line, and a format for ground-based analogue color television broadcasts. This format is used in Western European countries except France, and also in Asian countries such as China and in Africa.

Progressive

A method of image scanning whereby the image data from a single image is scanned sequentially from top to bottom to create a single image.

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 in order to refresh the light emitting element. The number of refresh operations per second is called the "refresh rate", and is expressed in hertz (Hz).

S-Video

A video signal which has the luminance component and color component separated in order to provide better image quality.
It refers to images which consist of two independent signals: Y (luminance signal), and C (color signal).

SDTV

An abbreviation for Standard Definition Television. It refers to standard television systems which do not satisfy the conditions for HDTV.

SECAM

An abbreviation for Sequential Couleur A Memoire, and a format for ground-based analogue color television broadcasts. This format is used in France, Eastern Europe and the former Soviet Union, the Middle East and Africa.

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Security lock

A device consisting of a protector case with a hole in it that a commercially-available theft-prevention cable can be passed through in order to secure the device to a table or pillar. This projector is compatible with the Microsaver Security System manufactured by Kensington.

SVGA

A type of image signal with a resolution of 800 (horizontal) x 600 (vertical) dots which is used by IBM PC/ AT-compatible computers.

SXGA

A type of image signal with a resolution of 1280 (horizontal) x 1024 (vertical) dots which is used by IBM PC/ AT-compatible computers.

Sync. (Synchronization)

The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images will not be of a good quality. The process of matching the phases of these signals (the relative position of the crests and troughs in the signal) is called "synchronization". If the signals are not synchronized, problems such as flickering, blurriness and horizontal interference can occur.

Tracking

The signals output from computers have a specific frequency. If the projector frequency does not match this frequency, the resulting images will not be 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 will appear in the projected images.

VGA

A type of image signal with a resolution of 640 (horizontal) x 480 (vertical) dots which is used by IBM PC/ AT-compatible computers.

XGA

A type of image signal with a resolution of 1,024 (horizontal) x 768 (vertical) dots which is used by IBM PC/ AT-compatible computers.

YCbCr

The carrier signal which is contained in the color bar signal used in modern TV transmissions. The name comes from the Y (luminance) signal and the CbCr (chroma [color]) signals.

YPbPr

The carrier signal which is contained in the color bar signal used in high-definition TV (HDTV▸▸) transmissions. The name comes from the Y (luminance) signal and the PbPr (color difference) signals.

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