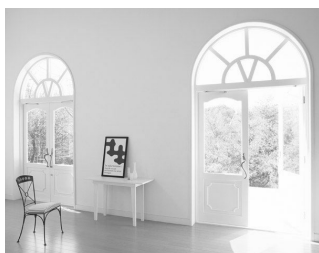


EPSON®

Home Projector

EMP-TW10



User's Guide

使用說明書

使用说明书

English

中文(繁體)

中文(简体)

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Home Projector User's Guide

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Unpacking the Projector

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



Remote control



Power cable
For connecting the projector to a wall outlet.



Rubber feet
Attach when installing the projector upside down.

Documentation
<input type="checkbox"/> User's Guide (this guide)
<input type="checkbox"/> Safety Instructions/World-Wide Warranty Terms
<input type="checkbox"/> Quick Reference Guide

Meaning of Symbols

	Indicates the possibility that people may be injured or the equipment may be damaged if these symbols are ignored.
	Indicates important related information or useful information and things you should know.
	Indicates related topics and pages which contain more detailed information.
	Provides terminology definitions. "Glossary" P.24

The terms "this unit" and "this projector" which appear in this manual may also refer to the accessories supplied with the projector and other optional products.

Features

■ Colour mode

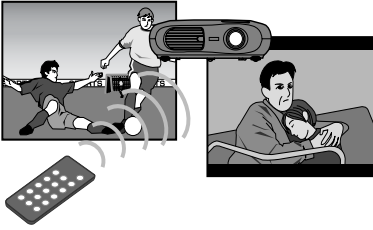
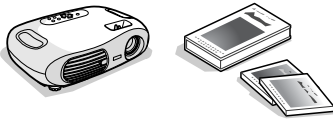


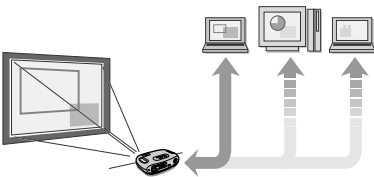
Image quality can be selected according to the type of scene. ➡ "Selecting a colour mode" *Quick Reference Guide*

■ Compact and lightweight



The projector's compact body is easy to carry.
Dimensions: 29.4(d) × 40.2(w) × 11.4(h) cm
Weight : approx. 3.6kg

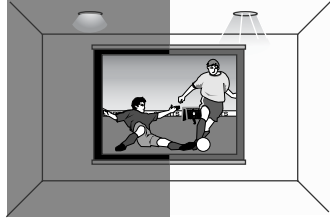
■ Auto setup (Computer connections)



The projector analyses the signal of the computer to which it is connected and automatically makes adjustments to ensure optimal projection results.

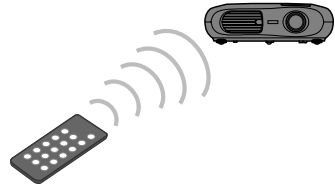
➡ "Auto setup (Computer connections)" P.11

■ Clear, vivid, images



The projector's high resolution and high luminance achieves a legible display. Project sharp, detailed images, even in bright places.

■ Ease of use

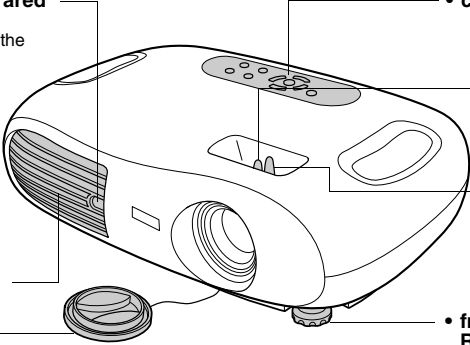


Various projector operations can be easily performed using the included remote control, as follows:

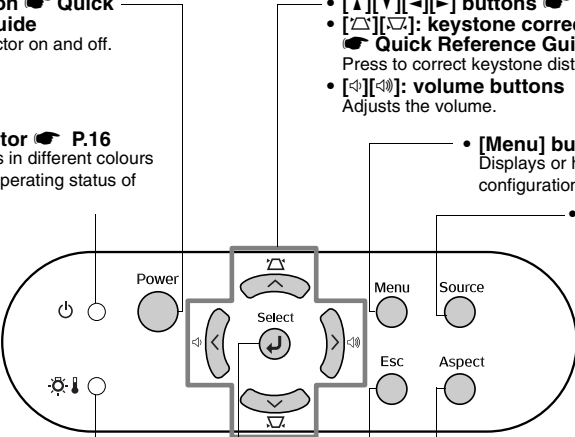
- using the configuration menus
- recalling your favourite settings
- pausing projection

Part Names and Functions


Front/Top


- 
- **remote control infrared receiver** P.7
Receives signals from the remote control.
 - **control panel** P.4
 - **focus ring** Quick Reference Guide
Adjusts the image focus.
 - **zoom ring** Quick Reference Guide
Adjusts the size of the projected image.
 - **ventilation outlet**
 - **lens cover**
Attach when not using the projector to prevent the lens from becoming dirty or damaged.
 - **front foot (left)** Quick Reference Guide
Another front foot is located on the right side. Extend and retract to adjust the projection angle.


Control panel


- 
- **[Power] button** Quick Reference Guide
Turns the projector on and off.
 - **Power indicator** P.16
Flashes or lights in different colours to indicate the operating status of the projector.
 - **[▲][▼][←][→] buttons** P.12
 - **[▽][△]: keystone correction buttons** Quick Reference Guide
Press to correct keystone distortion in images.
 - **[⏪][⏩]: volume buttons**
Adjusts the volume.
 - **[Menu] button** P.12
Displays or hides the configuration menus.
 - **[Source] button** Quick Reference Guide
Switches the input source between the Input A port, S-Video port, Video port and Input B port each time the button is pressed.
 - **[Aspect] button** Quick Reference Guide
Changes the **Aspect ratio** of the projected image.
 - **[Esc] button** P.12
Stops the current function. Displays the previous screen or menu when viewing configuration menus.
 - **[↔] button** P.12
Accepts a menu item or advances to the next screen or menu when viewing configuration menus.

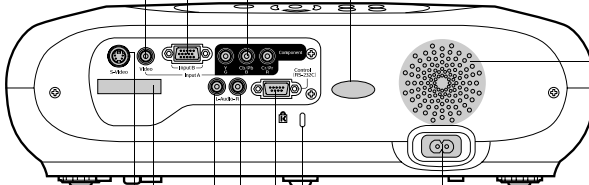
Rear


- **Input B port**  **P.11**
Inputs signals from a computer.


- **Video port**  **Quick Reference Guide**
Inputs Composite Video signals to the projector. Connect using an A/V cable.


- **Input A port**  **Quick Reference Guide**
Inputs Component Video or RGB-Video signals.


- **remote control infrared receiver**  **P.7**
Receives signals from the remote control.



- **S-Video port**  **Quick Reference Guide**
Inputs S-Video signals to the projector. Connect using an S-Video cable.

- **remote control holder**  **P.7**
Store the remote control in here when not in use.


- **Audio port**  **P.11, Quick Reference Guide**
Inputs audio signals to the projector. Connect using an A/V cable, or a stereo RCA cable. When using computer and video equipment alternately, swap the cable or use an audio switch (commercially available).

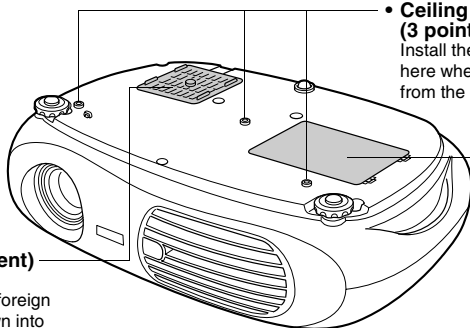
- **power inlet**  **Quick Reference Guide**
Connects the power cable.

- **security lock**  **P.24**


- **Control (RS-232C) port**
Connects the projector to a computer using an RS-232C cable. This port is for control use and should not be used by the customer.

Base

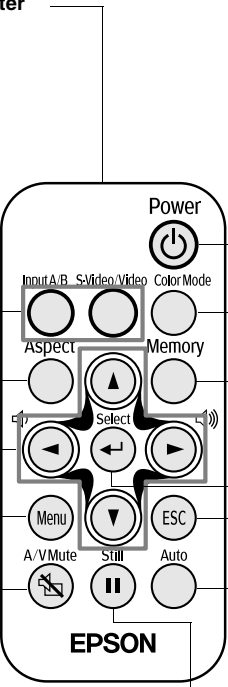












- **air filter (air intake vent)**  **P.20, P.21**
Prevents dust and other foreign particles from being drawn into the projector. Open the cover when changing the air filter.



- **Ceiling mount fixing points (3 points)**
Install the optional ceiling mount here when suspending the projector from the ceiling.

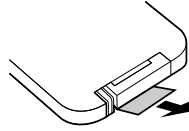
- **lamp cover**  **P.22**
Open this cover when replacing the lamp inside the projector.

Remote Control

- 
- The diagram shows an Epson remote control with the following buttons and functions:
- remote control infrared transmitter**
Transmits remote control signals.
 - [Source] buttons**  **Quick Reference Guide**
[Input A/B]: Switches between the signal source being input to the Input A port, and the Input B port.
[S-Video/Video]: Switches between the signal source being input to the S-Video port and the Video port.
 - [Aspect] button**  **Quick Reference Guide**
Changes the aspect ratio of the projected image.
 - [▲][▼][←][→] buttons**  **P.12**
Selects menu items and setting values.
 - [◀][▶]: volume buttons**
Adjusts the volume.
 - [Menu] button**  **P.12**
Displays or hides the configuration menus.
 - [A/V Mute] button**  **Quick Reference Guide**
Momentarily turns off the audio and video.
 - [Power] button**  **Quick Reference Guide**
Turns the projector on and off.
 - [Color Mode] button**  **Quick Reference Guide**
Selects the colour mode. The colour mode changes in the order of Dynamic, Living Room, Theatre and Theatre Black each time the button is pressed.
 - [Memory] button**  **Quick Reference Guide**
Recalls settings saved to memory in the configuration menus.
 - [←] button**  **P.12**
Accepts a menu item or advances to the next screen or menu when viewing configuration menus.
 - [Esc] button**  **P.12**
Stops the current function. Displays the previous screen or menu when viewing configuration menus.
 - [Auto] button**  **P.11**
Automatically adjusts analog RGB computer signals to their optimum settings.
 - [Still] button**  **Quick Reference Guide**
Keeps the current computer or video image on the screen.

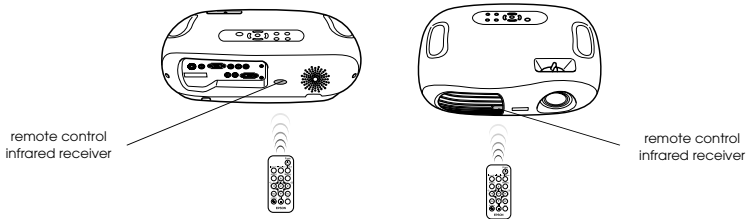
■ Before using the Remote Control

Remove the insulating tape.



■ Using the Remote Control

Operate the remote control by aiming it at the remote control infrared receiver on the projector.



If direct sunlight or fluorescent lighting hits the remote control infrared receiver, you may not be able to use the remote control.

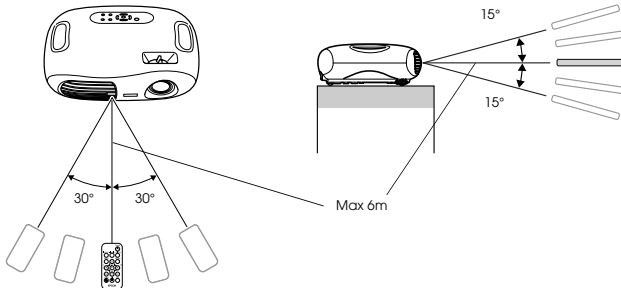
■ Operating range

Operable distance: Max. approx. 6m (20ft.)

(May be shorter depending on conditions.)

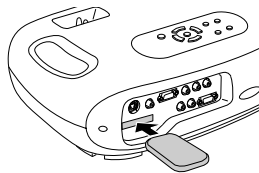
Operable angle : approx. 30° horizontally, 15° vertically

* The remote control infrared receiver on the back of the projector can also be used under the same conditions.



■ Storage

When not using the remote control, please store it in the remote control holder on the projector.



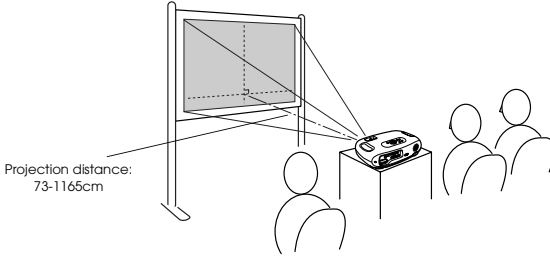
Installation



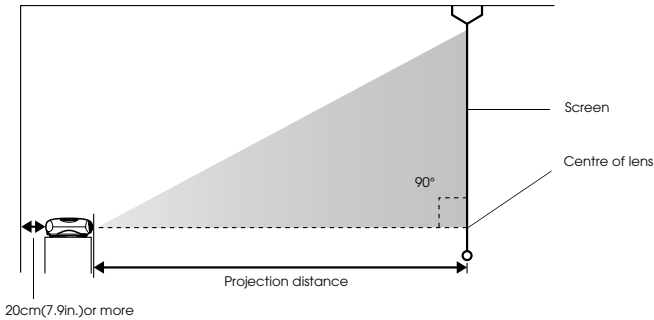
Be sure to read the "Safety Instructions / World-Wide Warranty Terms" guide before installation.

Installation method

Set up the projector so that it is at right angles to a screen.



Projection distance and screen size



16:9 Screen size cm (ft.)	30"	40"	60"	80"	100"	200"	300"
	66 × 37 (2.1 × 1.2)	89 × 50 (2.8 × 1.6)	130 × 75 (4.2 × 2.4)	180 × 100 (5.7 × 3.2)	220 × 120 (7.2 × 4.1)	440 × 250 (14.4 × 8.2)	660 × 370 (21.6 × 12.1)
Projection distance cm (ft.)	73 – 114 (2.4 – 3.7)	98 – 153 (3.2 – 5.0)	149 – 231 (4.9 – 7.6)	200 – 309 (6.6 – 10.1)	251 – 387 (8.2 – 12.7)	504 – 776 (16.5 – 25.5)	758 – 1165 (24.9 – 38.2)

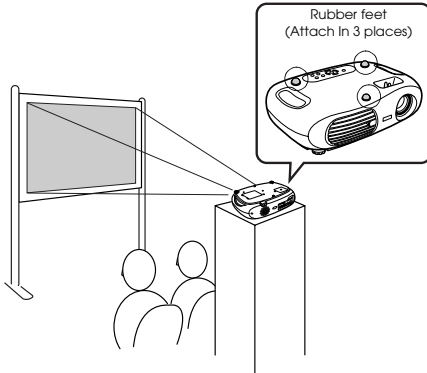
The values should be used as a guide for setting the projector.

Other installation methods

■ Projecting when upside down

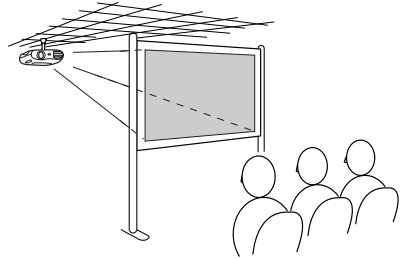
(Front/Ceiling)

Attach the enclosed rubber feet to prevent the operation panel from contacting the surface on which it is placed.

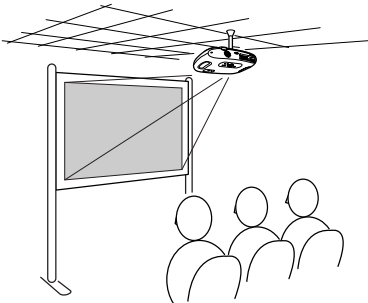


■ Ceiling/Rear projection

(Using a translucent screen)

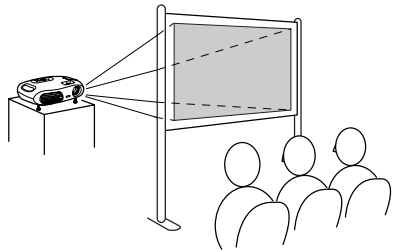


■ Ceiling projection



■ Rear projection

(Using a translucent screen)



*The optional ceiling mount is required when installing the projector from a ceiling. Please contact your dealer if you wish to use this method, as special equipment is required for installation. ● "Optional Accessories" P.28



When using rear projection, or projecting from a ceiling, select the appropriate mode in the "Setting" → "Screen" → "Projection" configuration menu. ● "Setting menu" P.14

Connecting a Computer

See the "Quick Reference Guide" for instructions on connecting to video equipment.



When connecting, be sure to:

- Turn off the power for both the projector and the computer.
Damage may result if you try to make a connection when the power is switched on.
- Check the connector types.
Damage may result if you attempt to insert a connector into the incorrect port.

Compatible computers

Condition 1: Check that the computer has an image output port, such as an RGB port, monitor port or CRT port.

Some computers with an in-built monitor and some laptop computers may not be compatible. Please refer to your computer manual for further details.

Condition 2: The display frequency and resolution of the computer must correspond to that of the projector. ➡ "Supported Display Resolutions" P.26



You may need to purchase a separate adapter depending on the shape of the computer's port. Refer to the documentation provided with the computer for further details.

■ Laptop connection

Setup examples



When using a laptop or a computer with an in-built monitor, select external video output on the computer.

Windows:

Press and hold the [Fn] key, followed by the appropriate function number key.



NEC	[Fn]+[F3]
Panasonic	[Fn]+[F3]
Toshiba	[Fn]+[F5]
IBM	[Fn]+[F7]
SONY	[Fn]+[F7]
Fujitsu	[Fn]+[F10]

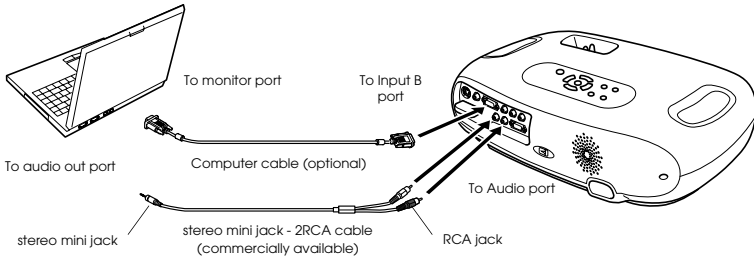
Macintosh:

After start up enable "Mirroring" in the Monitors Control Panel.

Refer to your computer's documentation for further details.

Win	Depending on your version of Windows, a dialog box may appear to alert you that new display hardware has been found. Follow the on-screen instructions to proceed. If you have any problems, please contact the nearest address provided in the "International Warranty Conditions" section in the "Safety Instructions / World-Wide Warranty Terms" guide.
Win/ Mac	<ul style="list-style-type: none"> • It may take a few moments until the computer image is projected. • Depending on the computer, the monitor may go blank when using the external video output on the computer.

Outputting images and audio from a computer



When using computer and video equipment alternately, swap the cable or use an audio switch.

Adjusting computer generated images

■ Auto setup (Computer connections)

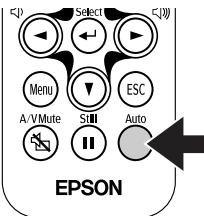
The computer signal is analysed and the following settings are adjusted to ensure the optimum image quality.

- **Tracking** ➤
- Position
- **Sync** ➤



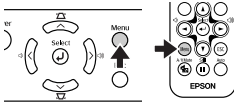
- You can set Auto setup to off in the "Image" → "Auto Setup" configuration menu. (The default is ON) ➤ "Image menu" P.13
- When Auto setup is set to off, press the [Auto] button on the remote control to perform auto setup.
- If you press the [Auto] button during Freeze operation, or when a configuration menu is being displayed, the display will be halted and auto setup will take place.

Adjust the Tracking and Sync settings manually if Auto setup cannot be performed. ([Menu] button → "Image" → "Picture Quality" → "Tracking", "Sync.") ➤ "Image menu" P.13



Menu operation

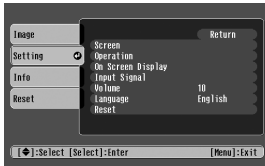
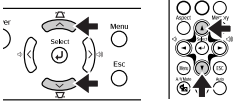
1 Press the [Menu] button.



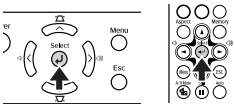
The top configuration menu is displayed.



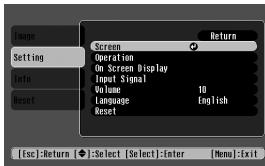
2 Press the [▲] or [▼] buttons to select the Top Menu item.



3 Press the [←] button.



A Sub Menu is displayed.



4 Press the [▲] or [▼] buttons to select the Sub Menu items, then press the [←] button.

5 Settings can be changed in the following ways:

(a) Press the [←] or [→] buttons to change the setting values.



(b) Press the [▲] or [▼] buttons to select the menu item. Then press the [←] button.

(Green): Item currently set.

(Orange): Item currently selected. Press the [←] button to confirm the selection.



The mark is displayed after items which perform a setting or lead to a sub menu.

(c) Press the [←] or [→] buttons to select the value. Then, press the [←] button.



(d) Press the [▲] [▼] [←] [→] buttons to move the image display position.



6 Set other items in the same way.

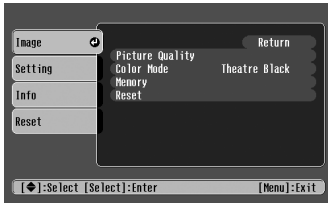
Press the (Esc) button to return to the previous item or menu, or select "Return".

7 Press the [Menu] button to finish.

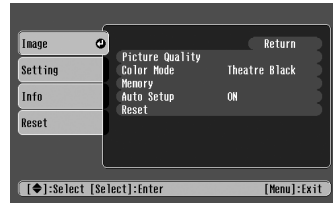
Function list

■ Image menu

- The functions in the "Image" Menu will be different according to the type of signal which is being input.
- When no signal is being input, only the settings for "Auto Setup" can be adjusted.



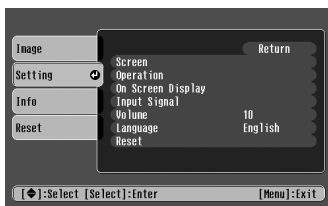
Video (Video/S-Video)/Component



RGB (RGB-Video/Analog RGB)

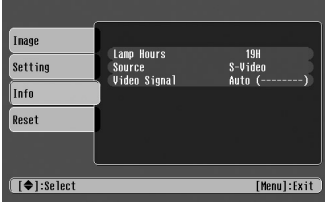
Sub menu		Function
Picture Quality	Brightness	Adjusts the brightness of the image.
	<u>Contrast</u> ▶	Adjusts the contrast of the image.
	Sharpness	Adjusts the sharpness of the image.
	Saturation (Video only)	Adjusts the colour depth.
	Tint (Video only)	(Adjustment is only possible when <u>Component Video</u> ▶ or NTSC signals are being input) Adjusts the tint of the image.
	<u>Color Temperature</u> ▶	Adjusts bright colours from a reddish tinge to a bluish tinge. Lower colour temperature settings produce redder colours and softer colour tones. Higher colour temperature settings produce bluer colours and sharper colour tones.
	Flesh Tone	Adjusts the green colour level. The intensity of green tones becomes stronger when the adjustment value is high as does the intensity of red/purple tones become stronger when the adjustment value is low.
	<u>Tracking</u> ▶ (RGB only)	Adjusts the image when vertical stripes appear in the image.
<u>Sync</u> ▶ (RGB only)	Adjusts the image when flickering, fuzziness or interference occur in the image. Flickering and fuzziness may also occur when the brightness, contrast, sharpness or keystone correction settings are adjusted. Best results can be obtained by adjusting the tracking before the sync.	
Color Mode	Corrects the vividness of the image colour. The settings can be saved separately for each type of source (computer or video). Select from 4 different quality settings depending on the type of scene. <ul style="list-style-type: none"> • Dynamic: Best for projecting video games. Vivid image quality can be enjoyed even in bright places. • Living Room: Best for projecting sports, etc. TV style image quality can be projected, even in the living room. • Theatre: Best for watching movies with a generally bright feel. The range of colours are expressed vividly without lowering the luminosity of the lamp. • Theatre Black: Best for watching movies in a pitch black environment. The luminosity of the lamp is dropped and colours are expressed more subtly. 	
Memory	Saves image adjustment values. Select "Memory1" or "Memory2" and press the [Left Arrow] button to save the current settings. You can recall the saved settings by pressing the [Memory] button.	
Auto Setup (RGB only)	ON: When the input source is switched to a computer signal, the projector automatically adjusts the image to its optimal state. OFF: Auto Setup is disabled.	
Reset	Resets all the adjustment values within the "Image" menu (except for "Memory") to their default settings. <ul style="list-style-type: none"> • Press the [Left Arrow] button and select "Yes" on the confirmation screen which is displayed. • Select "All Reset" to restore all menu settings, such as image and sound, to their default settings. ▶ "Reset menu" P.15 	

■ Setting menu

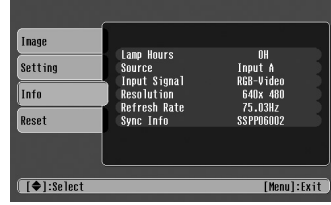


Sub menu		Function
Screen	Position	Moves the image display position vertically and horizontally. <ul style="list-style-type: none"> • Press the [←] button and adjust the display area on the Position adjustment screen which is displayed.
	Zoom Caption	Adjustment is possible only when the Zoom aspect function has been selected. <ul style="list-style-type: none"> • Vertical size : You can adjust the vertical size of the image. • Zoom Position: You can adjust the vertical movement of the display position.
	Keystone	Corrects vertical keystone distortion in the image. <ul style="list-style-type: none"> • The projected image changes when keystone correction is carried out. • If the images become uneven in appearance after keystone correction has been carried out, decrease the sharpness setting.
	Projection	<ul style="list-style-type: none"> • Front : Image is displayed, as is. No vertical/horizontal reversal performed. • Front/Ceiling: The image is displayed vertically reversed. • Rear : The image is displayed horizontally reversed. • Rear/Ceiling : The image is displayed vertically and horizontally reversed.
	Setup Level	You can select one of two preset black levels. (When the image source is an NTSC Video/S-Video signal, or when the image source has been set to Input A, "Component".)
Operation	Sleep Mode	Sets the energy saving option for when no signal is being input. <ul style="list-style-type: none"> • When a Sleep Mode interval has been set, the projector will enter Sleep Mode when no operation has been carried out for the set time (5, 10 and 30 minutes). Projection will shut down and the projector enters a standby state after cooling down. (The power indicator lights orange). • Projection starts again when the [Power] button is pressed on the projector's control panel or the remote control.
	Child Lock	Sets child lock to ON or OFF. When child lock is set to "ON", the power will not come on unless you press and hold the [Power] button on the control panel for at least 3 seconds. (The remote control functions as normal.)
On Screen Display	Message	When set to "OFF", messages such as "No Signal.", and the name of the selected input source or colour mode will no longer be displayed. Warning messages such as "Replace the lamp" will continue to be displayed.
	Background Color	Sets the background colour to black or blue.
	Startup Screen	Sets whether or not the "EPSON" logo will be displayed during projector startup.
Input Signal	Video Signal	Selects the colour system of the video signal being input. (Changes in signal format will only be noticeable when the input source is Video/S-Video.)
	Input A	You can switch between the sources connected to Input A. <ul style="list-style-type: none"> • Component: <u>YCbCr</u>→<u>YPbPr</u> • RGB-Video: <u>SCART</u>→, Sync on Green
Volume	Adjusts the volume setting	
Language	Selects the language in which on-screen messages are displayed. <ul style="list-style-type: none"> • Press the [←] button and select the desired language from the list which is displayed. 	
Reset	Resets all the adjustment values within the "Setting" menu (except for "Child Lock", "Input A" and "Language") to their default settings. <ul style="list-style-type: none"> • Press the [←] button and select "Yes" on the confirmation screen which is displayed. 	

■ Info menu



Video/S-Video

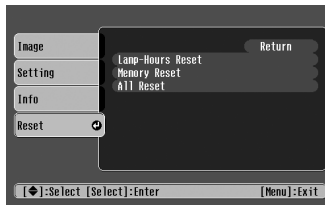


Input A/Input B

When component video is being input into the Input A port, the Refresh Rate and Sync Info will not be displayed.

Sub menu	Function
Lamp Hours	Displays the cumulative lamp operating time. <ul style="list-style-type: none"> When the accumulated usage time of the lamp reaches the appropriate time (*), a warning will be displayed in red. * If Theatre Black has been used continuously: About 2900 hours If other modes have been used continuously: About 1900 hours
Source	Displays the input source being projected.
Input Signal (Input A/Input B only)	Displays the input signal settings.
Video Signal (Video/S-Video only)	Displays the Video signal format.
Resolution (Input A/Input B only)	Displays the input resolution. (Does not appear when the input source is composite video or S-Video.)
Refresh Rate▶▶ (Input A/Input B only)	Displays the refresh rate (Does not appear when the input source is composite video or S-Video.)
Sync Info (Input A/Input B only)	Displays picture signal information. In the event that you are having problems with your projector and need to contact an EPSON dealer, please quote the information displayed on this screen.

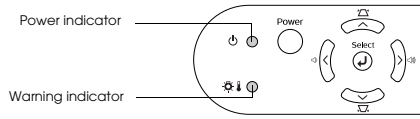
■ Reset menu



Sub menu	Function
Lamp-Hours Reset	Resets the lamp operating time. When this command is selected, the cumulative lamp operating time is reset to the default value.
Memory Reset	Resets all settings stored in Memory.
All Reset	Resets all items in the configuration menus to their default settings. <ul style="list-style-type: none"> Press the [Left Arrow] button and select "Yes" on the confirmation screen which is displayed. Select "Reset" in an individual menu to reset only the settings for the items in that sub menu. "Memory", "Child Lock", "Input A", "Language" and "Lamp Hours" settings will not be reset.

When You Suspect a Problem

First, check the indicators on the projector.
There are two indicators on the projector unit which notify you of projector conditions.



Power indicator

- lit ● flashing ● If the indicator is not lit, the power supply is not on.

Condition	Cause/Remedy	
Orange ●	Standby state (Not abnormal) The power cable should only be disconnected when the projector is in this state. Press the [Power] button to start projection.	Quick Reference Guide
Orange ●	Cool-down[➔] in progress (Not abnormal) <ul style="list-style-type: none"> • Please wait. The cool-down period lasts about 20 seconds. • You cannot operate the [Power] button during the cool-down period. Press the power button again after cool-down has finished. 	
Green ○	Projection in progress (Not abnormal)	
Green ●	Warming-up (Not abnormal) Please wait. Warming up takes about 40 seconds. When warming up is complete, the indicator changes to steady green.	

Warning indicator

- lit ● flashing ● Not lit under normal operating conditions.


Condition	Cause/Remedy	
Red ●	High internal temperature (overheating) The lamp turns off automatically and projection stops. Wait for about 5 minutes without operating the projector. After about 5 minutes have passed, unplug the power cable and check the following: <ul style="list-style-type: none"> • Make sure the air filter and ventilation outlet are clear and that the projector is not positioned against a wall. • If the air filter is dirty, it should be cleaned. When the power cable is plugged back in, the projector will return to its previous state. Press the [Power] button on the projector or on the remote control to turn it back on.	P.8 P.20
Red ● (0.5 second interval)	Lamp problem <ul style="list-style-type: none"> • Disconnect the power cable from the electrical outlet. Remove the lamp and check that it is not broken. If the lamp is not broken, re-install it. Reconnect the power cable and press the [Power] button on the projector or the remote control to turn it back on. • If the lamp is broken, please contact your dealer or the nearest address provided in the "International Warranty Conditions" in the "Safety Instructions/World-Wide Warranty Terms" guide. (You will not be able to use the projector until the lamp is replaced). • Check that the lamp and lamp cover are securely installed. If the lamp or lamp cover are not securely installed, the lamp will not switch on. 	P.22
Red ● (1 second interval)	Internal problem Stop using the projector, disconnect the power cable from the electrical outlet and contact your dealer or the nearest address provided in the "International Warranty Conditions" in the "Safety Instructions/World-Wide Warranty Terms" guide.	
Orange ●	High-speed cooling in progress (This is not abnormal, but, if the temperature rises too high again, projection will stop automatically.) Set up the projector in a place which is well ventilated and ensure the air filter and ventilation outlet are clear. Clean the air filter.	P.8 P.20




- If problems with projection do occur, but the indicators do not show any abnormal conditions, please refer to the section below, "When the indicators provide no help".
- If a condition occurs which is not listed in this table, please consult your dealer or contact the nearest address provided in the "International Warranty Conditions" in the "Safety Instructions/World-Wide Warranty Terms" guide.
- If you follow the above steps and are still unable to correct the problem, please cease using the projector, unplug the projector from the electrical outlet and request repairs from your dealer or nearest address provided in the "International Warranty Conditions" in the "Safety Instructions/World-Wide Warranty Terms" guide.

When the indicators provide no help


■ No images appear (Nothing is displayed)

	<ul style="list-style-type: none"> • Was the power turned off and then straight back on again? 	You cannot begin projecting again for at least a minute after projection has been stopped, even if you press the [Power] button on the control panel or remote control. Allow the projector to cool-down completely before projecting again.
	<ul style="list-style-type: none"> • Has a Sleep Mode interval (5, 10 or 30 minutes) been set? 	When a Sleep Mode interval has been set, the lamp cuts out after no operations have been carried out for the set time (5, 10 or 30 minutes). The power indicator lights orange at this time.
	<ul style="list-style-type: none"> • Has the image brightness been adjusted correctly? 	Adjust the brightness in the following way. [Menu] button → "Image" → "Picture Quality" → "Brightness".
	<ul style="list-style-type: none"> • Is the projected image completely black? 	Some images being displayed, including some screen savers, may be completely black.
	<ul style="list-style-type: none"> • Is an image signal being input? 	Check if a picture signal is being input. Set the "Message" option to "ON" in the "Setting" → "On Screen Display" → "Message" configuration menu, in order to view the picture signal information.


■ No images appear (Messages are displayed)

 "No Signal."	<ul style="list-style-type: none"> • Is the input source properly selected? 	Press the [Source] button on the Control panel until the correct input source is selected. For the remote control, press the [Input A/B] button or the [S-Video/Video] button.
	<ul style="list-style-type: none"> • Are the cables connected properly? 	Check that the cables are securely connected. Depending on the equipment you are using, some settings may need to be made on the video equipment. Refer to the User's guide of your video equipment.
	<ul style="list-style-type: none"> • Has external video output been selected on the computer? 	When using a laptop or a PC with an in-built monitor, select external video output on the computer. ☛ "Laptop connection" P.10



■ Image is out of focus (unclear)

 <ul style="list-style-type: none"> • The image is fuzzy • Part of the image is out of focus • The whole image is out of focus 	<ul style="list-style-type: none"> • Is the projector at the correct distance from the screen? 	<p>The optimum range for projection is 73-1165cm (2.4-38.2ft.). Set the projector within this range.</p> <p>☛ "Installation method" P.8</p>
	<ul style="list-style-type: none"> • Is the lens dirty? 	<p>☛ "Cleaning the lens" P.20</p>
	<ul style="list-style-type: none"> • Has condensation formed on the lens? 	<p>If the projector is suddenly taken from a cold environment to a warm environment, 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 in which it is to be used approximately one hour before use. If condensation forms on the lens, turn off the power and wait for the condensation to disappear.</p>
	<ul style="list-style-type: none"> • Has the focus been correctly adjusted? 	<p>Turn the focus ring to adjust the focus.</p>


■ Image is distorted / Image contains interference

	<ul style="list-style-type: none"> • Is an extension cable being used? 	<p>If using an extension cable, electrical interference may affect the signals.</p>
	<ul style="list-style-type: none"> • Are the cables connected correctly? 	<p>Check that the cables are securely connected. Interference may occur if the cables are not connected securely.</p>


■ Only part of the image is displayed (large/small)

 	<ul style="list-style-type: none"> • Is the aspect ratio set correctly? 	<p>Press the [Aspect] button to change the aspect ratio.</p> <p>☛ "Changing aspect ratio" <i>Quick Reference Guide</i></p>
	<ul style="list-style-type: none"> • Has the "Position" been adjusted correctly? 	<p>Use the "Setting" → "Screen" → "Position" configuration menu to correctly adjust the display position.</p>


■ Image colours are poor, tinted green or tinted red/purple

	<ul style="list-style-type: none"> • Does the lamp need replacement? 	<p>When the lamp is due for replacement, colours will weaken and the image will become dark. Replace the lamp when this is the case. ☛ "Lamp replacement period" P.22</p>
	<ul style="list-style-type: none"> • Adjust each of the settings in the following menus. [Menu] button → "Image" → "Picture Quality" 	<p>"Contrast", "Color Temperature" "Saturation", "Tint", "Brightness"</p>
	<ul style="list-style-type: none"> • Are the cables connected correctly? 	<p>If cables connecting to component video equipment are not connected securely, certain colours may not be displayed.</p>


■ Image is dark

	<ul style="list-style-type: none"> Does the lamp need replacement? 	When the lamp is due for replacement, colours will weaken and the image will become dark. Replace the lamp when this is the case. ➤ "Lamp replacement period" P.22
	<ul style="list-style-type: none"> Adjust each of the settings in the following menus. [Menu] button → "Image" → "Picture Quality" 	"Brightness", "Contrast"


■ No sound can be heard

	<ul style="list-style-type: none"> Is the volume turned down to the minimum setting? 	Adjust the volume using the remote control or the control panel.
	<ul style="list-style-type: none"> Is the audio source connected correctly? 	Connect an audio cable from the equipment you are using to the Audio port.
	<ul style="list-style-type: none"> Is the connected video equipment in playback mode? 	Turn on the power to the connected equipment and press the play button.

■ The remote control does not work

	<ul style="list-style-type: none"> Is direct sunlight or strong light from fluorescent lamps shining onto the remote control infrared receiver? 	➤ "Using the Remote Control" P.7
	<ul style="list-style-type: none"> Is the remote control too far from the projector? 	The operating distance for the remote control is approximately 6m (20ft.).
	<ul style="list-style-type: none"> When in use, is the remote control infrared transmitter facing the remote control infrared receiver on the projector? 	The operating angle for the remote control is approximately $\pm 30\frac{1}{2}^\circ$ horizontally and approximately $\pm 15\frac{1}{2}^\circ$ vertically.
	<ul style="list-style-type: none"> Has the battery insulating tape been removed? 	Remove the insulating tape.
	<ul style="list-style-type: none"> Is the battery dead? 	➤ "Changing the battery" P.21

■ The power does not turn off (after the (Power) button is pressed)

	<ul style="list-style-type: none"> The power indicator remains orange. 	This projector is designed so that the Power indicator remains lit even after the power has been turned off. The Power indicator will switch off when the power cable is disconnected from the electrical outlet.
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■ The power will not turn on

<ul style="list-style-type: none"> The power does not come on, even when you press the [Power] button on the control panel. 	Is the "Child Lock" set to "On"? Press and hold the [Power] button for at least 3 seconds to turn the power on.
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Be sure to read the separate "Safety Instructions/World-Wide Warranty Terms" before proceeding.

Cleaning

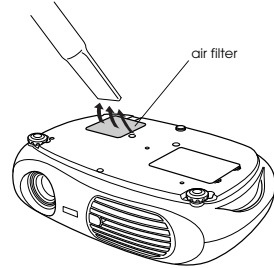
You should clean the projector if it becomes dirty or if the projected image starts to deteriorate.

■ Cleaning the air filter

If the air filter becomes clogged with dust, it can cause overheating and damage the projector. Keeping the projector horizontal, use a vacuum cleaner to clean away the dust from the air filter.



If the air filter is difficult to clean or if it is broken, it should be replaced. Contact your dealer for a new air filter.



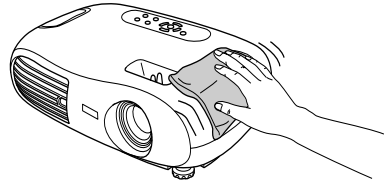
■ Cleaning the projector case

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 (ph) neutral detergent, and then firmly wring the cloth dry before using it to wipe the projector case. After you have done this, wipe the projector another time with a soft, dry cloth.



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 surface coating peel off.

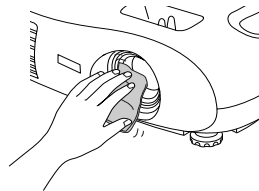


■ Cleaning the lens

Use a commercially-available air blower, or lens cleaning paper to gently wipe the lens.



As the lens can be easily damaged, do not rub the lens with harsh materials or subject the lens to shocks.



Replacing consumables

■ Replacing the air filter

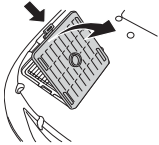
(Air filter: ELPAF04)

Replacing the air filter can also be performed when the projector is mounted to a ceiling.

- 1 Turn off the projector power, wait for the cool-down period to end, then disconnect the power cable.**

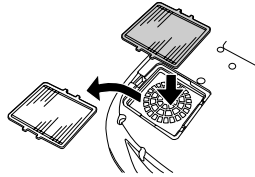
Cool-down takes about 20 seconds.

- 2 Put your finger into the latch and lift off the cover. Lift up the air filter to remove it.**



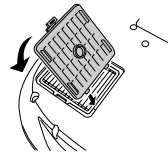
- 3 Replace the air filter with a new one.**

Take out the old air filter and install the new one. Please ensure there are no gaps between the air filter and the plastic grill.



- 4 Replace the air filter cover.**

First insert the tabs, and then press down on the opposite side until it clicks into place.



Dispose of used air filters properly in accordance with your local regulations.

■ Changing the battery

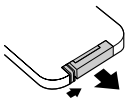
(Replacement battery: 1 × CR2025 lithium battery)



Keep batteries away from children to avoid the risk of accidents. If a child swallows the battery, contact your doctor immediately.

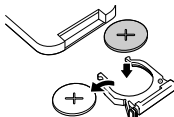
- 1 Remove the battery holder.**

While pressing the catch of the battery holder inwards, pull the battery holder out.



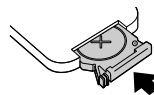
- 2 Remove the old battery and insert the new one.**

Check the position of the (+) mark inside the battery holder to ensure that the battery is inserted the correct way.



- 3 Replace the battery holder.**

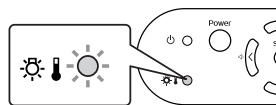
Press the battery holder in until it clicks.



Please dispose of used batteries in accordance with local waste disposal regulations.

■ Lamp replacement period

- It is time to change the lamp when the "Replace the lamp" message appears in the bottom left hand corner of the screen at the commencement of projection and remains for 30 seconds.
- It is also time to change the lamp when the Warning indicator flashes red at 0.5 second intervals.



- *The time when the replacement message appears varies depending on the colour mode which has been used. If Theatre Black has been used continuously: About 2900 hours. If other modes have been used continuously: About 1900 hours.*
- *When this message is displayed, please replace the lamp as quickly as possible.*
- *The lamp may explode if you continue to use it beyond the lamp replacement period.*
- *Some lamps may stop operating before the replacement message is displayed. It is recommended that you have a replacement lamp ready in case this happens.*
- *Replacement lamps can be purchased at your nearest dealer.*

■ Replacing the lamp

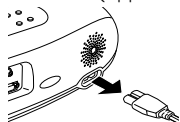
(Spare lamp: ELPLP25H)



- *Wait until the lamp has cooled down sufficiently before opening the lamp cover. It takes a further one hour after the cool-down period has finished for the lamp to be cool enough.*
- *When the lamp is broken, replace it with a new lamp, or contact your dealer for further advice. If replacing the lamp yourself, be careful to avoid pieces of broken glass.*

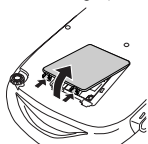
1 Turn off the projector and wait for the cool-down period to end. (Approx. 20 seconds)

Remove the power cable and wait for the lamp to cool down. (Approx. 1 hour)

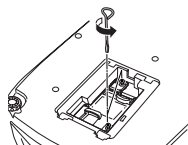


2 Open the lamp cover.

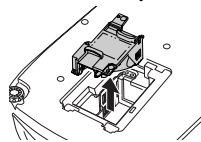
Lift the lamp cover by putting your fingers in the latches and lifting upwards.



3 Loosen the fixing screws holding the lamp in place.

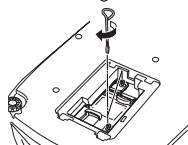


4 Remove the old lamp.



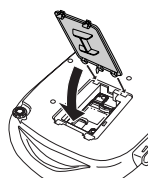
5 Install the new lamp.

Press the lamp until it clicks into place, then tighten the two fixing screws.



6 Replace the lamp cover.

First insert the tabs, and then press down on the opposite side until it clicks into place.





- Install the lamp securely. If the lamp cover is removed, the lamp turns off automatically as a safety precaution. The lamp will not turn on if the lamp or the lamp cover is not installed correctly.
- After replacing the lamp, be sure to reset the lamp operating time.
- The air filter should also be replaced when the lamp is replaced. ➔ "Lamp replacement period" P.22
- Dispose of used lamps properly in accordance with your local regulations.

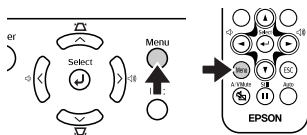
■ Resetting the lamp operating time

The projector has a built-in counter which keeps track of the lamp operating time and causes the replacement warning message to be displayed when the cumulative operating time reaches a certain point. Therefore, the counter needs to be reset from the configuration menu, after the lamp has been replaced with a new one.



Please do not reset the lamp operating time except when the lamp has been changed. Otherwise, the lamp operating time will not be displayed correctly.

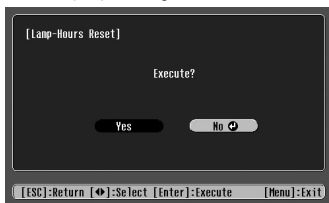
- 1 Turn on the power and press the [Menu] button.



- 2 Select "Lamp-Hours Reset" from the "Reset" menu, using the [▲][▼][←] buttons.

- 3 Use the [←][→] buttons to select "Yes", then press the [←] button.

The lamp operating time will be reset.



Glossary

Complex terms used in this book, or terms not explained in the body of the text, will be briefly explained here. For further explanation, please consult commercially available reference texts.

Aspect ratio	The ratio between an image's length and its height. Images which have an aspect ratio of 16:9 are called Widescreen. The aspect ratio for standard images is 4:3.
Color Temperature	The temperature of an object which is emitting light. When the colour temperature is high, colours tend to take on a bluish tinge; when the colour temperature is low, colours tend to take on a reddish tinge.
Component Video	A type of video signal which has the video brightness and colour signal information 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 (colour difference signals).
Composite Video	The standard home video signal (NTSC, PAL, SECAM) which has the video brightness and colour signal information mixed together. Composite video consists of the carrier signal Y (luminance signal) and the chroma (colour) signal, combined within the colour bar signal.
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, or appear softer. Adjusting this particular property of an image is called "contrast adjustment".
Cool-down	The process used to cool down a projector lamp that is hot from use. Cool-down happens automatically when the [Power] button is pressed on the projector or on the remote control to turn the projector off. Do not unplug the projector power cable whilst it is cooling down. If cool-down is interrupted, heat from the lamp gets trapped inside the projector, potentially shortening the life of the lamp and causing projector failure.
Dolby digital	An audio format developed by Dolby Laboratories. Normal stereo is a 2-channel format which uses two speakers, whereas Dolby Digital is a 6-channel (5.1-channel) system which adds a centre speaker, two rear speakers and a sub-woofer.
HDTV	An abbreviation for High-Definition Television, it refers to high definition systems which satisfy the following conditions. <ul style="list-style-type: none"> • Vertical resolution of 750p or 1125i or greater (p=Progressive scanning^{▶▶}, i=Interlaced scanning^{▶▶}) • Screen aspect ratio of 16:9 • <u>Dolby digital</u>^{▶▶} audio reception and playback (or output)
Interlaced scanning	Each screen is divided into fine horizontal lines which are displayed in sequence starting from left to right and then from top to bottom. This method of image scanning, whereby even numbered lines and odd numbered lines are displayed alternately, is called Interlaced scanning.
Progressive scanning	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 colour for an extremely short time. For this reason, 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).
RGB-Video	A term used to describe a video signal most commonly output to computer monitors. RGB video is made up of electrical pulses representing the intensities of the three primary colours of light, red, green and blue. A fourth or fifth pulse carries timing information.
SCART	A 21pin rectangular shaped connector for transmitting audio and video signals between TV, VTR and AV equipment. RGB, S-Video/Composite video and two audio channels can be transmitted.
SDTV	An abbreviation for Standard Definition Television. It refers to standard television systems which do not satisfy the conditions for High-Definition Television.
Security lock	A device consisting of a projector 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.
Squeeze mode	The method of compressing 16:9 Widescreen images and recording them on video software as 4:3 images. When projecting with Squeeze mode on, the images will return to their original 16:9 format.

SVGA	A type of video signal with a resolution of 800 (horizontal) \times 600 (vertical) dots which is used by IBM PC/AT-compatible computers.
S-Video	A type of video signal which has the video brightness and colour signal information separated, in order to provide better image quality. It refers to images which consist of two independent signals: Y (luminance signal), and C (colour signal).
Sync. (Synchronisation)	The signals output from computers have a specific frequency. Image quality will suffer if the projector frequency and the computer frequency do not match. The process of matching the phases of these signals (the relative position of the crests and troughs in the signal) is called "synchronisation". If the signals are not synchronised, problems such as flickering, blurriness and horizontal interference can occur.
Tracking	The signals output from computers have a specific frequency. Image quality will suffer if the projector frequency and the computer frequency do not match. 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 video signal with a resolution of 640 (horizontal) \times 480 (vertical) dots which is used by IBM PC/AT-compatible computers.
XGA	A type of video signal with a resolution of 1,024 (horizontal) \times 768 (vertical) dots which is used by IBM PC/AT-compatible computers.
YCbCr	The carrier signal contained in the colour bar signal used in modern (NTSC) TV transmissions. The name comes from the Y (luminance) signal and the CbCr (chroma (colour)) signals.
YPbPr	The carrier signal contained in the colour bar signal used in high-definition TV (HDTV) transmissions. The name comes from the Y (luminance) signal and the PbPr (colour difference) signals.

Supported Display Resolutions

■ Component Video

Signal	Resolution	Aspect mode		
		Normal	Squeeze	Zoom
<u>SDTV</u> ^{*)} (525i, 60Hz)	640 × 480	640 × 480 (4:3 aspect)	○	○
SDTV(625i, 50Hz)	768 × 576	640 × 480 (4:3 aspect)	○	○
SDTV(525p)	640 × 480	640 × 480 (4:3 aspect)	○	○
SDTV(625p)	768 × 576	640 × 480 (4:3 aspect)	○	○
<u>HDTV</u> ^{*)} (750p) 16:9	1280 × 720	854 × 480 (16:9 aspect)	-	-
HDTV (1125i) 16:9	1920 × 1080	854 × 480 (16:9 aspect)	-	-

■ Composite Video/S-Video

Signal	Resolution	Aspect mode		
		Normal	Squeeze	Zoom
TV (NTSC)	640 × 480	640 × 480 (4:3 aspect)	○	○
TV (PAL, SECAM)	768 × 576	640 × 480 (4:3 aspect)	○	○

■ SCART (4RCA/RGB-Video)

Signal	Resolution	Aspect mode		
		Normal	Squeeze	Zoom
SDTV (525i, 60Hz)	640 × 480	640 × 480 (4:3 aspect)	○	○
SDTV (625i, 50Hz)	768 × 576	640 × 480 (4:3 aspect)	○	○
SDTV (525p)	640 × 480	640 × 480 (4:3 aspect)	○	○
SDTV(625p)	768 × 576	640 × 480 (4:3 aspect)	○	○

■ Computer (Analog RGB)

Signal	Resolution	Aspect mode		
		Normal	Squeeze	Zoom
EGA	640 × 350	854 × 468	-	-
<u>VGA</u> ▶60	640 × 480	640 × 480 (4:3 aspect)	○	○
VESA 72 / 75 / 85,iMac*	640 × 480	640 × 480 (4:3 aspect)	○	○
<u>SVGA</u> ▶ 56 / 60 / 72 / 75 / 85,iMac*	800 × 600	640 × 480 (4:3 aspect)	○	○
<u>XGA</u> ▶ 43i / 60 / 70 / 75 / 85,iMac*	1024 × 768	640 × 480 (4:3 aspect)	○	○
MAC13"	640 × 480	640 × 480 (4:3 aspect)	○	○
MAC16"	832 × 624	640 × 480 (4:3 aspect)	○	○
MAC19"	1024 × 768	640 × 480 (4:3 aspect)	○	○
MAC21"	1152 × 870	636 × 480	○	○
SDTV(525i, 60Hz)	640 × 480	640 × 480 (4:3 aspect)	○	○
SDTV(525p)	640 × 480	640 × 480 (4:3 aspect)	○	○
SDTV(625i, 50Hz)	768 × 576	640 × 480 (4:3 aspect)	○	○
SDTV(625p)	768 × 576	640 × 480 (4:3 aspect)	○	○
HDTV (750p) 16:9	1280 × 720	854 × 480 (16:9 aspect)	-	-
HDTV (1125i) 16:9	1920 × 1080	854 × 480 (16:9 aspect)	-	-

"○" indicates the aspect modes available according to each signal.
The supported resolution is 854 × 480 (16:9 aspect).

* Connection is not possible if the equipment does not have a VGA output port.
It may be possible to project signals which are not listed in the above table. However, not all functions may be supported with such signals.

Optional Accessories

The following optional accessories are available for purchase if required. This list of optional accessories is current as of August 2003. Details of accessories are subject to change without notice.

Part number	Part name	Use
ELPLP25H	Spare lamp	Use as a replacement for spent lamps.
ELPAF04	Air filter	Use as a replacement for spent air filters.
ELPST12	Remote controller	Identical to the remote control provided with the projector.
ELPSC06	50" Portable screen	A compact screen which can be carried easily. (4:3 aspect ratio)
ELPSC07	60" screen	
ELPSC11	60" wall hanging screen	
ELPSC08	80" screen	
ELPSC10	100" screen	
ELPKC02	VGA-HD15 PC cable (1.8m/6ft.) (for mini D-Sub 15pin/mini D-Sub 15pin)	Use to connect the projector to a computer.
ELPKC09	VGA-HD15 PC cable (3m/9.8ft.) (for mini D-Sub 15pin/mini D-Sub 15pin)	
ELPKC10	VGA-HD15 PC cable (20m/65.6ft.) (for mini D-Sub 15pin/mini D-Sub 15pin)	
ELPKC29	RGB SCART adapter (0.3m/0.98ft.) (for RCA x 4/SCART)	Use when connecting to video equipment by a SCART cable.
ELPAP01	Mac adapter set	Used to convert a Macintosh D-sub 15pin plug into a mini D-sub 15 pin plug.
ELPMB11	Ceiling mount*	Use when installing the projector to a ceiling.
ELPFC03	Ceiling plate*	Use when installing the projector to a high ceiling or a ceiling with veneer panels.
ELPFP04	Pipe 370 (370mm silver)*	
ELPFP05	Pipe 570 (570mm silver)*	
ELPFP06	Pipe 770 (770mm silver)*	
ELPKS51	Soft carrying case	

* A special method of installation is required in order to suspend the projector from the ceiling. Please contact your dealer if you require this installation method.

Specifications

MODEL	Home Projector EMP-TW10			
Dimensions	402(W)×114(H)×294(D)mm (not including feet)			
LCD Size	0.55" wide			
LCD Driving Method	Poly-silicon TFT Active Matrix			
Pixel number	854 × 480 pixels			
Projection Type	Manual zoom/focus			
Projection Zoom ratio	1-1.54			
Lamp Type	UHE Lamp 132W			
Sound output	1W Monaural			
Power Consumption	100-240VAC 50/60Hz 2.3-1.0A			
Operating temperature	+5°C to +35°C (41°-95°F) (No condensation)			
Weight	Approx. 3.6kg			
Connectors	Input A port	SCART	1	4RCA pin jack
		Component		3RCA pin jack
	Input B port		1	Mini D-Sub 15pin(female)
	S-Video port		1	Mini DIN 4pin
	Video port		1	RCA pin jack
	Audio port		1	RCA pin jack×2(L,R)
	Control (RS-232C) port		1	D-Sub 9 pin(male)



Pixelworks ICs are used in this projector.

Safety

USA (100-120VAC)
 UL1950 3rd Edition
 Canada (100-120VAC)
 CSA C22.2 No.950-95 (cUL)
 European Community (200-240VAC)
 The Low Voltage Directive (73/23/EEC)
 IEC60950 2nd Edition, +Amd.1,
 +Amd.2, +Amd.3, +Amd.4

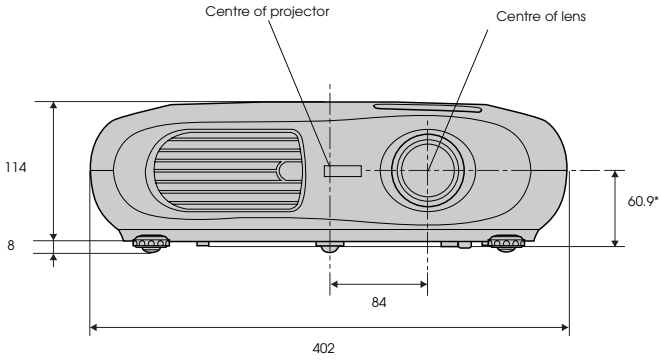
EMC

USA (100-120VAC)
 FCC 47CFR Part15B Class B (DoC)
 Canada (100-120VAC)
 ICES-003 Class B

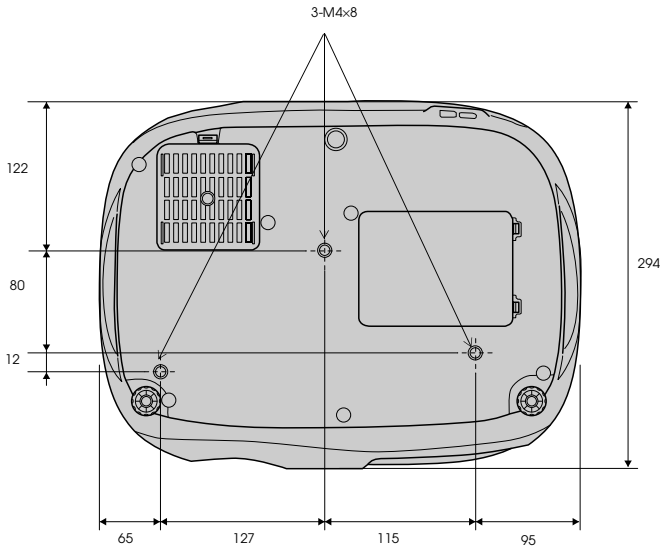
European Community (200-240VAC)
 The EMC Directive (89/336/EEC)
 EN55022, 1998 Class B
 EN55024, 1998
 IEC61000-4-2, IEC61000-4-3,
 IEC61000-4-4, IEC61000-4-5,
 IEC61000-4-6, IEC61000-4-8,
 IEC61000-4-11,
 IEC61000-3-2, IEC61000-3-3

Australia/New Zealand (200-240VAC)
 AS/NZS 3548:1995, A1:1997, A2:1997,
 Class B
 CISPR Pub.22:1993, A1:1995, A2:1996,
 Class B

Appearance



* Distance from centre of lens to ceiling mount



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Home Projector

使用說明書

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投影機拆封

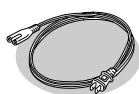
當您將投影機拆封時，確定內含下列組件。若有組件遺失或不正確，請與販售商店聯繫。



投影機



遙控器



電源線
用於將投影機連接至牆壁插座。



橡膠腳
顛倒安裝投影機時固定用。

文檔

- 使用說明書 (本說明書)
- 安全使用須知 / 全球保修條款
- 快速查閱說明書

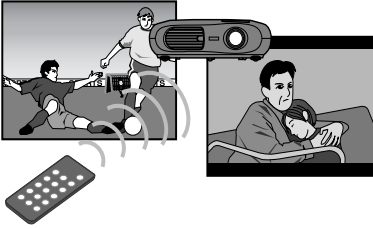
符號的意義

	表示如果忽略這些符號，可能會引起人員受傷或設備損壞的情況。
	表示用戶應該知道的重要相關資訊或實用資訊。
	表示包含更詳細資訊的主題或章節頁。
	提供專有名詞定義。☛ “用語解說” 56 頁

本使用說明書中出現的“本機”和“投影機”，除指投影機本身外，有時還包括附件或選購件。

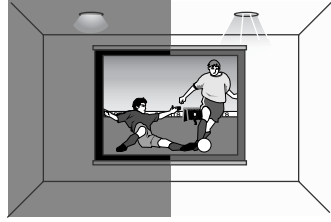
功能

■ 顏色模式



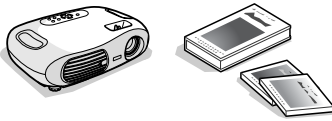
可以依照場景類型選擇映像質量。☛ “選擇顏色模式” 快速查閱說明書

■ 映像鮮明生動



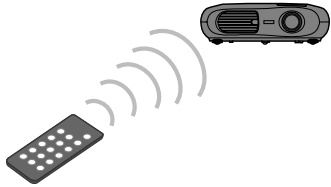
本投影機能以高解析度和高亮度顯示映像。即使在明亮的環境也能提供非常清晰的映像。

■ 體積小，重量輕



投影機體積小，易於攜帶。
外形尺寸：29.4（深）× 40.2（寬）× 11.4（高）cm
重量：約 3.6kg

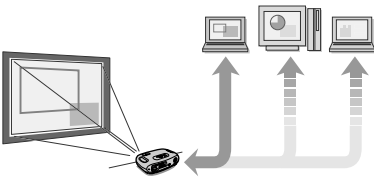
■ 操作簡單



使用附帶的遙控器可以輕鬆執行下列各項投影機操作：

- 使用配置選單
- 呼叫最喜愛的設定
- 暫停投影

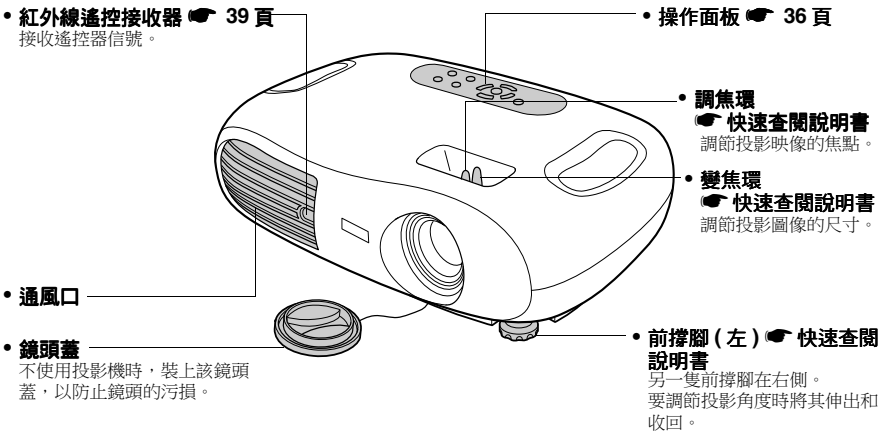
■ 自動設置 （電腦連接）



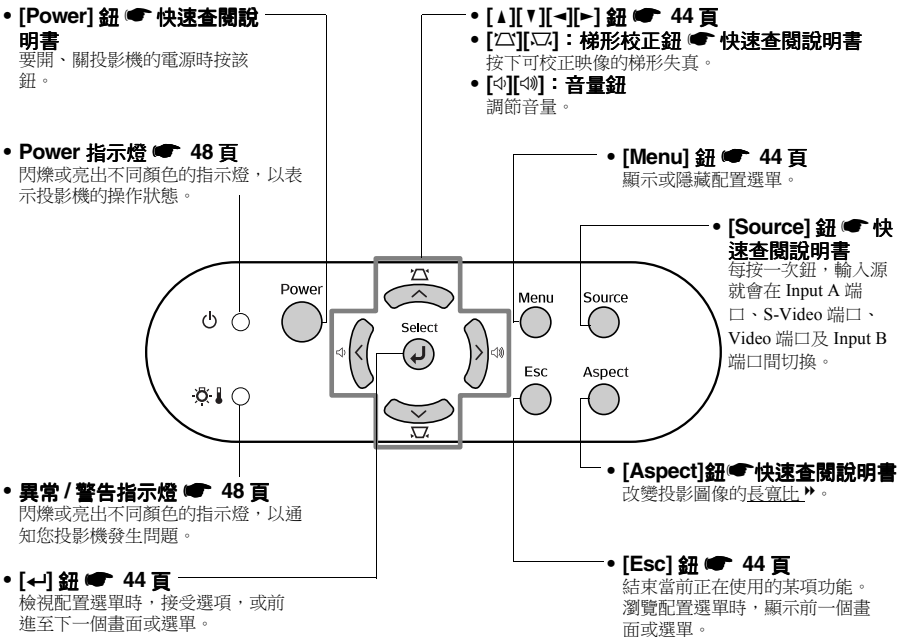
投影電腦映像時，自動分析並調節來自所連電腦的信號，使投影的映像質量最佳。☛ “自動設置（電腦連接）” 43 頁

各部件的名稱和作用

前面 / 上面



操作面板



後面

- **Input B 端口** 43 頁
輸入電腦信號。

- **Video 端口** 快速查閱說明書
用於輸入 複合視頻 信號給投影機。
用 A/V 電纜連接。

- **S-Video 端口** 快速查閱說明書
用於輸入 S- 視頻 信號給投影機。
使用 S- 視頻電纜連接。

- **遙控器座** 39 頁
隨附的遙控器不用時放在遙控器座上。

- **Audio 端口** 43 頁, 快速查閱說明書
用於輸入信號給投影機。用 A/V 電纜或立體聲 RCA 電纜連接。
交互使用電腦和視頻設備時, 請切換電纜線或使用音頻切換 (市售)。

- **Input A 端口** 快速查閱說明書
輸入 色差視頻 或 RGB- 視頻 信號。

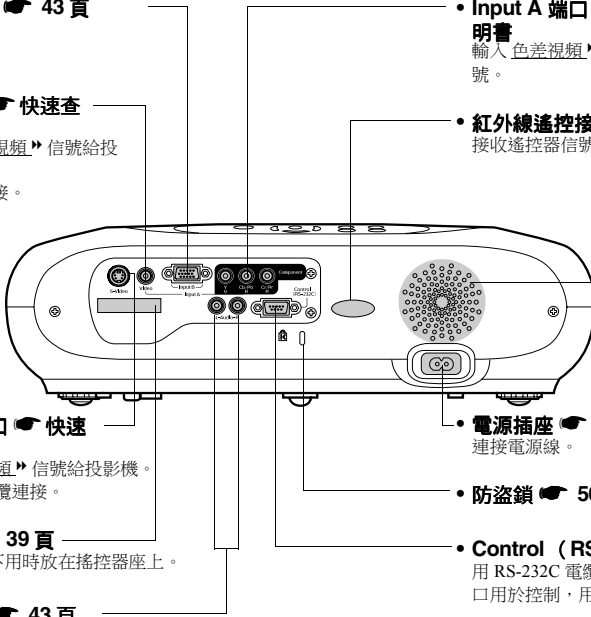
- **紅外線遙控接收器** 39 頁
接收遙控器信號。

• 揚聲器

- **電源插座** 快速查閱說明書
連接電源線。

- 防盜鎖 56 頁

- **Control (RS-232C) 端口**
用 RS-232C 電纜與電腦連接。該端口用於控制, 用戶不應使用。

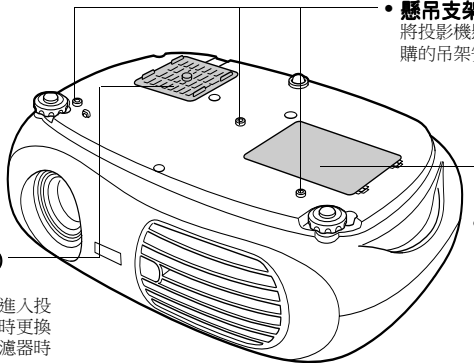


底座













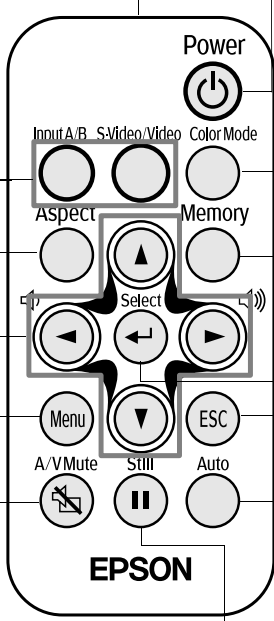
- **空氣過濾器 (進氣口)** 52 頁, 53 頁
防止塵土和其它外界雜質進入投影機。更換主燈時, 請同時更換空氣過濾器。更換空氣過濾器時打開此蓋。

- **懸吊支架固定點 (3 點)**
將投影機懸吊在天花板上時, 請將選購的吊架安裝在這裡。

- **主燈蓋** 54 頁
更換投影機內的主燈時打開該蓋。

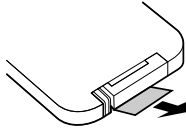


遙控器

- **紅外線遙控發射器**
發射遙控器信號。
 - **[Source] 鈕**  **快速查閱說明書**
[Input A/B]：切換至由 Input A 端口以及 Input B 端口輸入的信號源。
[S-Video/Video]：在輸入到 S-Video 端口及 Video 端口的信號源之間切換。
 - **[Aspect] 鈕**  **快速查閱說明書**
改變投影圖像的長寬比。
 - **[▲][▼][←][→] 鈕**  **44 頁**
選擇選單選項和設定值。
 - **[◀][▶]：音量鈕**
調節音量。
 - **[Menu] 鈕**  **44 頁**
顯示或隱藏配置選單。
 - **[A/V Mute] 鈕**  **快速查閱說明書**
臨時關閉音頻和視頻。
 - **[Power] 鈕**  **快速查閱說明書**
要開、關投影機的電源時按該鈕。
 - **[Color Mode] 鈕**  **快速查閱說明書**
選擇顏色模式。每次按下此鈕顏色模式就會依照“動態”、“起居室”、“劇院”及“劇院黑”的順序改變。
 - **[Memory] 鈕**  **快速查閱說明書**
在設置選單內呼叫儲存在記憶內的設定。
 - **[←] 鈕**  **44 頁**
檢視配置選單時，接受選項，或前進至下一個畫面或選單。
 - **[Esc] 鈕**  **44 頁**
結束當前正在使用的某項功能。瀏覽配置選單時，顯示前一個畫面或選單。
 - **[Auto] 鈕**  **43 頁**
自動將模擬 RGB 電腦信號調節至最佳設定。
 - **[Still] 鈕**  **快速查閱說明書**
在投影畫面上保持當前的電腦映像或視頻映像。
- 
- The diagram shows the front of an Epson remote control with various buttons labeled. Lines connect these buttons to descriptive text blocks on either side. The buttons shown are: Power (top right), Input A/B, S-Video/Video, Color Mode, Aspect, Memory, Select (center), Menu, A/V Mute, Still, Auto, ESC, and a directional pad (up, down, left, right). The Epson logo is at the bottom.

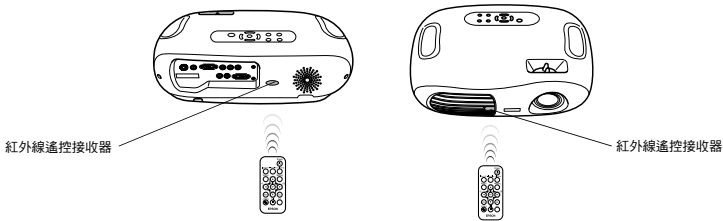
■ 使用遙控器之前

移除絕緣帶。



■ 遙控器的使用方法

將遙控器對準投影機的紅外線遙控接收器並操作遙控器上的鈕。



如果直射陽光或熒光燈光等直接照到紅外線遙控接收器，則有可能無法使用遙控器。

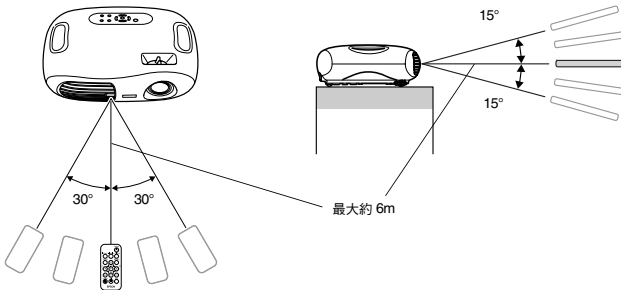
■ 操作範圍

操作距離：最大約為 6m

(可能會視操作情況而縮短距離。)

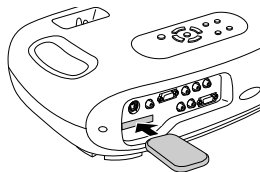
操作角度：左右約 30° ，上下約 15°

* 投影機後方的紅外線遙控接收器可在相同情況下使用。



■ 存放

不使用遙控器時，請將遙控器存放於投影機的遙控器座。



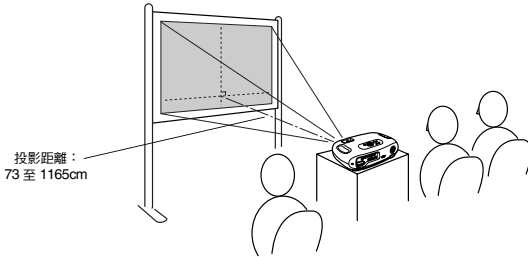
安裝



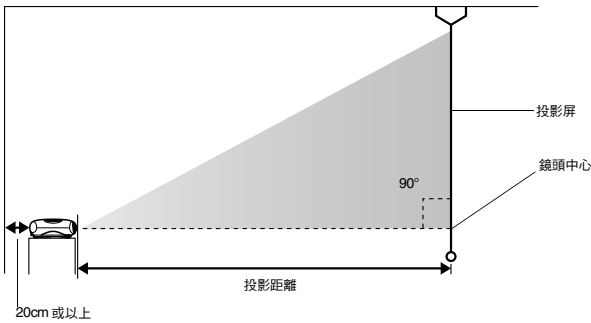
安裝投影機之前，請務必先閱讀“安全使用須知/全球保修條款”說明書。

安裝方法

投影機安裝時應儘可能與投影屏垂直。



投影距離和投影屏尺寸



16:9 投影屏尺寸 cm	30"	40"	60"	80"	100"	200"	300"
		66 × 37	89 × 50	130 × 75	180 × 100	220 × 120	440 × 250
投影距離 cm	73 - 114	98 - 153	149 - 231	200 - 309	251 - 387	504 - 776	758 - 1165

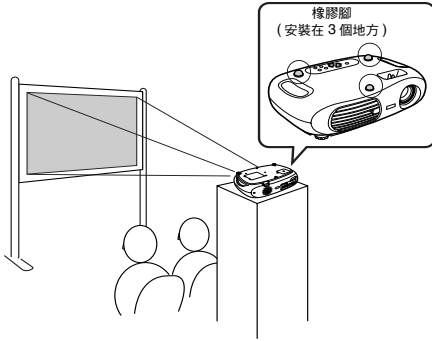
這些值應該作為設定投影機的指南。

其他安裝方法

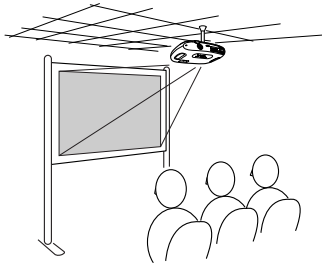
■ 顛倒時投射

(前 / 天花板)

裝上隨附的橡膠腳，避免操作面板與其放置的表面接觸。

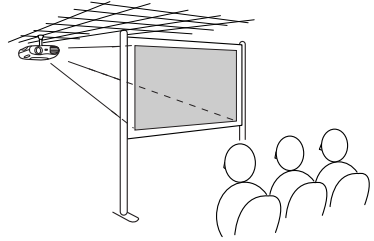


■ 從天花板投影



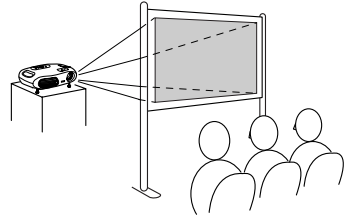
■ 從天花板 / 後面投影

(使用半透明投影屏)



■ 從後面投影

(使用半透明投影屏)



* 在天花板上懸吊安裝必須選購天花板支架。這種安裝需要特殊的技術，要使用此種安裝方法時請向經銷店諮詢。☛ “選購件一覽表” 60 頁



當懸吊在天花板上，使用從後面投影的方法時，請在配置選單中“設定”→“屏幕”→“投影”，選擇適當的模式。
☛ “設定”選單 46 頁

有關連接至視頻設備的指示，請參閱“快速查閱說明書”。



連接時，請務必：

- 切斷投影機和電腦的電源。
在接入電源的狀態下連接，會引起故障。
- 檢查端子類型。
若試圖將端子插入不適當的端口，可能會造成損壞。

兼容的電腦

條件 1：請確認電腦上是否有 RGB 端口、監視器端口或 CRT 端口等映像輸出端口。

如果某些電腦有固定的監視器，或使用便攜式電腦，可能不兼容。更多的細節，請參閱電腦使用說明書。

條件 2：要連接的電腦的顯示頻率和解析度應該與投影機的相對應。👉 “支援的顯示解析度” 58 頁



根據電腦端口的形狀，可能需要購買單獨的配接器。更多的細節，請參閱電腦提供的說明。

■ 與便攜式電腦的連接

安裝範例



使用便攜式電腦或有固定監視器的電腦時，請在電腦上選擇外部視頻輸出。

Windows:

按住 [Fn] 鈕，然後再按下適當的功能數字鍵。



NEC	[Fn]+[F3]
Panasonic	[Fn]+[F3]
Toshiba	[Fn]+[F5]
IBM	[Fn]+[F7]
SONY	[Fn]+[F7]
Fujitsu	[Fn]+[F10]

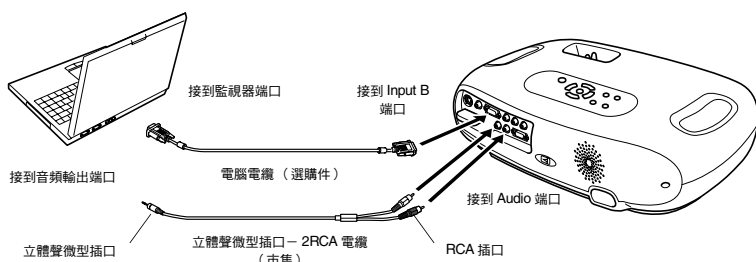
Macintosh:

啟動後用操作面板上的調節設定“鏡像”。

更多的細節，請參閱電腦的使用說明書。

Win	視您的 Windows 版本而定，可能會顯示通知您找到新顯示硬件的對話方塊。請按著螢幕的指示進行。如有任何問題，請聯絡“安全使用須知 / 全球保修條款”說明書中“國際保修制度”章節所提供的最近經銷店。
Win/ Mac	<ul style="list-style-type: none"> ● 可能需要等待一會才能投影出電腦映像。 ● 根據電腦的不同，使用電腦的外部視頻輸出時，監視器可能會呈現空白。

從電腦輸出映像與聲音



交互使用電腦和視頻設備時，請切換電纜線或使用音頻切換。

電腦映像的調節

■ 自動設置 (電腦連接)

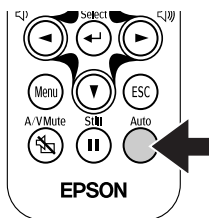
將分析電腦信號，並調節下列設定以確保最佳映像質量。

- 跟踪 ▶
- 位置
- 同步 ▶



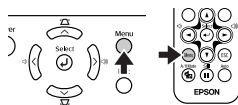
- 您可以在“圖像”→“自動設置”配置選單中，將自動設置設為“關”。(缺省設定為“開”) ▶ “圖像”選單” 45 頁
- 自動設置設為“關”時，按遙控器的 [Auto] 鈕，可執行自動設置。
- 如果您在 Freeze 操作過程中或顯示配置選單時按 [Auto] 鈕，顯示畫面會暫停並進行自動設置。

如果無法執行自動設置，則請手動調節跟踪和同步設定。([Menu] 鈕 → “圖像” → “圖像質量” → “跟踪”、“同步”) ▶ “圖像”選單” 45 頁



配置選單 選單操作

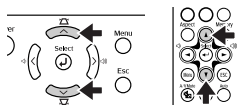
1 按下 [Menu] 鈕。



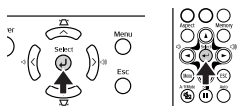
顯示主配置選單。



2 按 [▲] 或 [▼] 鈕，選擇主選單的選項。



3 按 [←] 鈕。



顯示子選單。



4 按 [▲] 或 [▼] 鈕，選擇子選單的選項，然後按 [←] 鈕。

5 可以利用以下方式變更設定：

(a) 按 [←] 或 [→] 鈕變更設定。



(b) 按 [▲] 或 [▼] 鈕選擇單項目。然後按 [←] 鈕。

⬆ (綠色)：目前設定的選項。

⬇ (橙色)：目前選擇的選項。

按 [←] 鈕確認選擇。



執行設定或使子選單出現的選項，其後面會顯示 **標記**。

(c) 按 [←] 或 [→] 鈕選擇一個值。然後按 [←] 鈕。



(d) 利用 [▲][▼][←][→] 鈕移動映像顯示位置。



6 以相同方式設定其他選項。

按 [Esc] 鈕返回前一個選項或選單，或選擇“返回”。

7 按 [Menu] 鈕完成。

功能一覽表

■ “图像” 選單

- “图像” 選單中的功能將視輸入的信號類型而異。
- 如果沒有輸入信號，只能夠調整 “自动設置” 的設定。



Video(視頻 / S- 視頻) / 色差)



RGB(RGB- 視頻 / 模擬 RGB)

子選單	功能	
图像质量	亮度	調節映像的亮度。
	对比度 ▶	調節映像的對比度。
	清晰度	調節映像的清晰度。
	饱和度 (僅限視頻)	調節映像飽和度。
	色度 (僅限視頻)	(只有在輸入 色差視頻) 或 NTSC 信號時才能進行調節) 調節映像的色度。
	色溫 ▶	將明亮的顏色從紅色色調至藍色色。 減小色溫設定可產生較紅的顏色和較柔和的色度。 提高色溫設定可產生較藍的顏色和較強烈的色度。
	肤色	調節綠色水平。 調高此值會使綠色度的亮度變亮，若調低則紅色 / 紫色度的亮度變亮。
	跟蹤 ▶ (僅限 RGB)	電腦映像上出現縱向條紋時進行調節。
同步 ▶ (僅限 RGB)	電腦映像上出現閃爍、模糊不清或干擾時進行調節。 閃爍、模糊不清也可能在調節亮度、對比度、清晰度或校正梯形設定時出現。 調節了跟蹤以後再調節同步會使調節效果最佳。	
颜色模式	補償映像顏色的鮮艷度。每個信號源 (電腦或視頻源) 的設定都可以單獨保存。可根據周圍環境從 4 種畫面質量中選擇。 • 动态 : 最適合投射電視遊樂器畫面。即使在亮處也能有鮮豔的映像質量。 • 起居室 : 最適合投射運動節目等等。即使在起居室也可投射出電視風格的映像質量。 • 剧院 : 最適合以一般明亮的感覺觀賞電影。不用降低主燈亮度就可展現出鮮豔的色彩。 • 剧院黑 : 最適合在調節成漆黑的環境內觀看電影。主燈的亮度降低並且表現出來的色彩更細膩。	
记忆	儲存映像調整值。選擇 “记忆 1” 或 “记忆 2” 並按下 [←] 鈕可儲存目前的設定。按下 [Memory] 鈕可叫出儲存的設定。	
自动设置 (僅限 RGB)	开 : 當輸入源切換為電腦信號時，投影機將自動調整映像至最佳狀態。 关 : 停用自動設置。	
重设	將 “图像” 選單的所有調節值 (除 “记忆” 設定外) 恢復到缺省設定。 • 按 [←] 鈕，在顯示的確認畫面上選擇 “是”。 • 要將所有選單設定 (如映像和聲音) 恢復到缺省設定時，選擇 “全部重设”。 ● “重设” 選單 ” 47 頁	

■ “設定” 選單



子選單	功能	
屏幕	位置	將映像的顯示位置上下左右移動。 • 按下 [←] 鈕，並在出現的顯示位置調節螢幕上，調節顯示區域。
	縮放說明	只有在選擇“变焦”比例功能時才可以調整。 • 垂直尺寸：您可調整映像的垂直尺寸。 • 变焦位置：您可調整顯示位置的垂直移動。
	梯形校正	校正映像上下方向的梯形失真。 • 進行梯形校正後，投影映像的尺寸會改變。 • 經過校正梯形後，如果映像顯得不勻，請减小清晰度設定。
	投影	• 前：照實顯示映像。沒有執行上下/左右顛倒。 • 前/天花板：投影映像會上下顛倒。 • 后：投影映像會左右顛倒。 • 后/天花板：投影映像會垂直並且左右顛倒。
	黑白基準水平	有兩種預設黑白水平可供選擇 (當映像來源是 NTSC 視頻 /S- 視頻信號，或當映像來源已經設為 Input A、Component)。
操作	睡眠模式	當沒有信號輸入時，請設定節能選項。 • 若已設定“睡眠模式”的間隔，如果超過設定的時間（5、10 和 30 分鐘）仍然沒有執行操作，那麼投影機將進入“睡眠模式”。此時會停止投影，而投影機在冷卻期間後，將進入備用狀態。（Power 指示燈點亮橙色）。 • 按投影機操作面板或遙控器上的 [Power] 鈕後，再次開始投影。
	兒童鎖	將兒童鎖設定為“開”或“關”。 當兒童鎖設定為“開”時，除非按下操作面板上的 [Power] 鈕 3 秒鐘或以上，否則投影機的電源不會打開。（遙控器功能則如常運作。）
在屏顯示	消息	設為“關”時，如“無信號”的訊息以及選擇輸入源的名稱或顏色模式，將不會再顯示。如“更換主燈”的警告訊息，仍將繼續顯示。
	背景色	設定背景色為黑或藍。
輸入信號	启动屏幕	設定是否於投影機啟動時，顯示“EPSON”標誌。
	視頻信號	選擇輸入視頻信號的顏色系統。 (輸入源為 Video/S-Video 時，才會注意到信號格式中的變更。)
音量	Input A	您可在連接至 Input A 的來源之間切換。 • Component：YCbCr/YPbPr • RGB-Video：SCART、綠色同步
	語言	調節音量。
重設	語言	設定畫面上訊息顯示的語言。 • 按下 [←] 鈕，並從顯示的一覽表選擇想要的語言。
	重設	將“設定”選單的所有調節值（除“兒童鎖”、“Input A”和“語言”設定外）恢復到缺省設定。 • 按 [←] 鈕，在顯示的確認畫面上選擇“是”。

■ “信息” 選單



Video/S-Video



Input A/Input B

當色差視頻輸入到 Input A 端口時，不會顯示“刷新率”和“同步信息”。

子選單	功能
灯时	顯示主燈的累計使用時間。 <ul style="list-style-type: none"> • 如果主燈累計的使用時間達到 (*) 小時，會以紅色顯示警告訊息。 * 若持續使用“劇院黑”模式：大約 2900 個小時 若持續使用其他模式：大約 1900 個小時
源	顯示當前正在投影的輸入信號源。
輸入信號 (僅限 Input A/Input B)	顯示輸入信號設定。
視頻信號 (僅限 Video/S-Video)	顯示視頻信號格式。
分辨率 (僅限 Input A/Input B)	顯示輸入解析度。 (當輸入源是複合視頻或 S- 視頻時不會出現。)
刷新率 ▶ (僅限 Input A/Input B)	顯示刷新率。 (當輸入源是複合視頻或 S- 視頻時不會出現。)
同步信息 (僅限 Input A/Input B)	顯示映像信號資訊。 如果使用投影機時遇到問題，或者需要聯絡 EPSON 服務中心，請告知本畫面上顯示的信息。

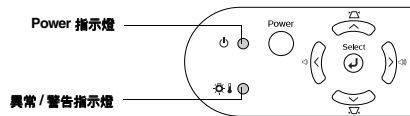
■ “重设” 選單



子選單	功能
灯时重设	重設主燈使用時間。選擇這個命令時，主燈的累計使用時間即會恢復到缺省設定值。
存储重置	重設儲存在“记忆”內的所有設定。
全部重设	將配置選單的所有項目恢復到缺省設定。 <ul style="list-style-type: none"> • 按 [←] 鈕，在顯示的確認畫面上選擇“是”。 • 要僅將個別子選單的設定恢復到缺省設定時，請用該子選單執行“重设”功能。 • “记忆”、“儿童锁”、“Input A”、“语言”和“灯时”設定不會被重設。

認為出了故障時

您認為有故障時，請首先看一下投影機上的指示燈。
 投影機上設有下述 2 種指示燈，會告訴您投影機的狀態。



Power 指示燈

- 點亮 ● 閃亮 ● 如果指示燈沒有亮起，表示沒有開啟電源。

狀態	原因 / 處理或者狀態	
橙色 ●	表示處於備用狀態（不是異常） 當投影機處於該狀態時才能斷開電源線的連接。 按下 [Power] 鈕開始投影。	快速查閱說明書
橙色 ●	表示處於冷卻期間 [▶] （不是異常） • 請稍待片刻。冷卻期間持續約 20 秒鐘。 • 在冷卻期間中，[Power] 鈕無法操作。冷卻期間結束後，請再次按下 [Power] 鈕。	
綠色 ●	表示處於投射中（不是異常）	
綠色 ●	表示處於升溫中（不是異常） 請稍待片刻。升溫時間約為 40 秒鐘。升溫結束後，綠燈從閃亮變為常亮。	

異常 / 警告指示燈

- 點亮 ● 閃亮 ● 在一般操作情況下不會亮起


狀態	原因 / 處理或者狀態	
紅色 ●	內部處於高溫狀態（過熱） 主燈自動熄滅並停止投影。請等待約 5 分鐘，不要操作投影機。約 5 分鐘後，請拔下電源線，然後檢查下面兩點： • 請檢查一下：空氣過濾器 and 通風口是否清潔？投影機是否靠牆放置？ • 空氣過濾器如積有污物，請進行清掃。 當電源線重新插入時，投影機將恢復到先前的狀態。按下投影機操作面板或遙控器上的 [Power] 鈕重新接通電源。	40 頁 52 頁
紅色 ● (間隔為 0.5 秒)	主燈異常 • 從電源插座上拔下電源線。然後拆下主燈，並檢查主燈是否破裂。如果主燈沒有破裂，則重新裝上主燈。然後重新連接電源線，並按投影機操作面板或遙控器上的 [Power] 鈕重新接通電源。 • 如果主燈已損壞，請洽詢您的經銷商或與“安全使用須知 / 全球保修條款”說明書中“國際保修制度”章節所提供的就近地址聯繫。（在更換主燈之前不能進行投影。） • 檢查主燈和主燈燈罩是否安裝牢固。如果主燈和燈罩安裝不平，則主燈電源無法接通。	54 頁
紅色 ● (間隔為 1 秒)	內部有異常 請停止使用投影機，從電源插座上拔下電源線，並洽詢您的經銷商或與“安全使用須知 / 全球保修條款”說明書中“國際保修制度”章節所提供的就近地址聯繫。	
橙色 ●	表示處於快速冷卻中 (雖不是異常，但如果溫度再升高，會自動停止投影。) 請將投影機安裝在通風良好的場所，以保持空氣過濾器和通風口的清潔。 清潔空氣過濾器。	40 頁 52 頁



- 指示燈未顯示異常，但投影機操作出現異常時，請閱讀下一節“看了指示燈仍不明白時”。
- 如果發生此表格沒有列出的問題，請洽詢您的經銷商或與“安全使用須知 / 全球保修條款”說明書中“國際保修制度”章節所提供的就近地址聯繫。
- 如果按照以上步驟執行仍舊無法改善問題，請停止使用投影機，從電源插座拔除投影機的電源線，並要求您的經銷商或“安全使用須知 / 全球保修條款”說明書的“國際保修條款制度”章節所提供的就近地址進行維修。

看了指示燈仍不明白時


■映像不投影（沒有任何顯示）

	<ul style="list-style-type: none"> • 是否在切斷電源後立即又接通了電源？ 	停止投影後一分鐘以內，即使按下操作面板或遙控器上的 [Power] 鈕，也不能再次開始投影。再次投影前請先讓投影機完全冷卻。
	<ul style="list-style-type: none"> • “睡眠模式”間隔（5、10 或 30 分鐘）是否設定？ 	如果已經設定“睡眠模式”的間隔，如果超過設定的時間（5、10 或 30 分鐘），仍然沒有執行操作，那麼主燈將熄滅。 這時，Power 指示燈點亮橙色。
	<ul style="list-style-type: none"> • 映像亮度的調節是否正確？ 	用下列方式調節亮度。 [Menu] 鈕 → “圖像” → “圖像質量” → “亮度”。
	<ul style="list-style-type: none"> • 輸入映像本身是否為全黑？ 	正在顯示的映像，包括螢幕保護等，可能是全黑。
	<ul style="list-style-type: none"> • 有否輸入映像信號？ 	檢查是否正在輸入映像信號。 將“設定” → “在屏顯示” → “消息”配置選單中的“消息”設為“開”，以檢視映像信號資訊。


■映像不投影（訊息顯示）

	<ul style="list-style-type: none"> • 所選擇的輸入源是否正確？ 	用投影機操作面板上的 [Source] 鈕選擇正確的信號源。如果使用遙控器，請按下 [Input A/B] 鈕或 [S-Video/Video] 鈕。
“无信号”	<ul style="list-style-type: none"> • 電纜連接是否正確？ 	檢查電纜線是否連接妥當。 根據您所用的設備，某些設定需要在視訊設備上設定。請參閱視訊設備的使用說明書。
	<ul style="list-style-type: none"> • 是否已在電腦上選擇外部視頻輸出？ 	使用便攜式電腦或有固定監視器的電腦時，請在電腦上選擇外部視頻輸出。 ● “與便攜式電腦的連接” 42 頁

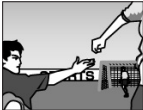

■映像對焦不準（不清楚）

 <ul style="list-style-type: none"> 映像模糊不清 部分映像在焦點外 整幅映像焦點完全不準 	• 投影距離是否在最佳範圍內？	投影距離的最佳範圍是 73cm ~ 1165cm。請將投影機設定在該範圍內。● “安裝方法” 40 頁
	• 鏡頭是否髒污？	● “鏡頭的清潔” 52 頁
	• 鏡頭上是否結露？	如果突然將投影機從冷的環境帶到溫暖的環境，鏡頭表面可能會形成結露，從而有可能使映像模糊不清。在使用投影機之前，請將它放置在房間中約 1 小時。如果鏡頭表面形成結露，請切斷電源並等待結露消失。
	• 焦點調節是否正確？	旋轉調焦環調節映像焦距。


■映像失真 / 映像出現干擾

	• 是否使用加長電纜？	如果有使用加長電纜，電氣干擾可能會影響這些信號。
	• 電纜連接是否正確？	檢查電纜線是否連接妥當。若電纜線未連接妥當可能會發生干擾。


■僅部分映像顯示（過大 / 過小）

	• 長寬比的設定是否正確？	按下 [Aspect] 鈕改變長寬比。 ● “改變長寬比” 快速查閱說明書
	• 是否正確調節“位置”？	使用“設定”→“屏幕”→“位置”配置選單正確調節顯示位置。
		


■映像色彩不正確，呈淺綠或略帶紅色 / 紫色

	• 主燈是否需要更換了？	主燈接近更換期時，顏色質量下降且映像會變暗。出現這種情況時，應更換新的主燈。● “主燈更換期” 54 頁
	• 調整下列選單內的每個設定。 [Menu] 鈕 → “圖像” → “圖像質量”	“對比度”、“色溫” “飽和度”、“色度”、“亮度”
	• 電纜連接是否正確？	若連接至色差視頻設備的電纜線未連接妥當，會無法顯示某些顏色。


■映像灰暗

	• 主燈是否需要更換了？	主燈接近更換期時，顏色質量下降且映像會變暗。出現這種情況時，應更換新的主燈。● “主燈更換期” 54 頁
	• 調整下列選單內的每個設定。 [Menu] 鈕 → “圖像” → “圖像質量”	“亮度”、“對比度”


■無聲

	• 音量是否調到了最小？	使用遙控器或控制面板調整音量。
	• 是否已連接了正確的音頻源？	從您所使用的設備將音頻電纜連接至 Audio 端口。
	• 連接的視頻設備是否在播放模式？	打開所連接視頻設備的電源並按下播放鈕。

■無法用遙控器進行操作

	• 紅外線遙控接收器是否受到直射陽光或熒光燈的強光照射？	☛ “遙控器的使用方法” 39 頁
	• 遙控器離投影機的距離是否太遠？	遙控器的操作距離約為 6m。
	• 使用遙控器時，紅外線遙控發射器是否對著投影機上的紅外線遙控接收器？	遙控器的操作角度範圍為：左右約 $\pm 30\frac{1}{2}^\circ$ ，上下約 $\pm 15\frac{1}{2}^\circ$ 。
	• 電池的絕緣帶是否已取出？	移除絕緣帶。
	• 電池是否已耗盡？	☛ Δ

■電源無法切斷（按了 [Power] 鈕後）

	• Power 指示燈仍保持橙色。	本投影機的構造特點是，切斷電源後 Power 指示燈也不會熄滅。將電源線從電源插座上拔下後，Power 指示燈才會熄滅。
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■電源無法打開

	• 即使按下了操作面板上的 [Power] 鈕，電源也無法打開。	“兒童鎖”是否設定為“開”？ 按住 [Power] 鈕至少 3 秒鐘打開電源。
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保養投影機之前，請務必先閱讀單獨的“安全使用須知/全球保修條款”。

清潔

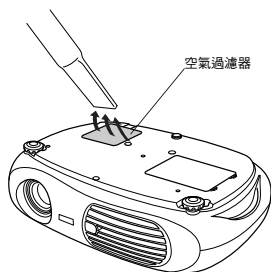
投影機沾染污物或映像的顯示效果變壞時，請進行清潔打掃。

■ 空氣過濾器的清潔

空氣過濾器上如積聚灰塵，就會影響到空氣的流通，引起投影機內部溫度上升而導致故障的出現。將投影機水平放置，用吸塵器清除空氣過濾器的灰塵。



空氣過濾器上的污物無法去除或者空氣過濾器出現破損時，說明空氣過濾器需要更換了。對於備用的空氣過濾器，請向您的經銷店諮詢。



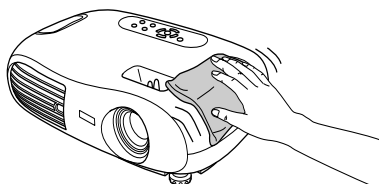
■ 投影機外殼的清潔

請以軟布輕輕拭去投影機外殼上的污物。

污物難以去除時，請用經水稀釋過的（ph 值）中性洗滌劑浸濕軟布，擰乾後拭去污物，再用柔軟的乾布拭靜。擦拭乾淨後，再另外以其他的柔軟乾布擦拭投影機。



清潔投影機外殼時，請不要使用如蠟、酒精或稀釋劑等揮發性物質。否則會引起外殼變形或塗漆剝落。

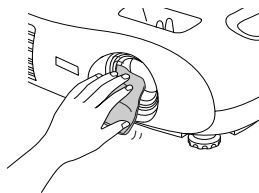


■ 鏡頭的清潔

利用市售的吹風器或拭鏡紙等輕輕拭去污物。



鏡頭表面很容易劃傷，所以請避免用硬物擦拭或拍打。



消耗品的更換

■ 空氣過濾器的更換方法

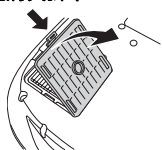
(空氣過濾器: ELPAF04)

即使投影機安裝在天花板上，也可以更換空氣過濾器。

- 1 切斷投影機的電源，待冷卻期間結束以後再拔下電源線。

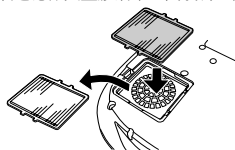
冷卻期間▶ 通常需約 20 秒鐘。

- 2 將手指放入門位並將蓋抬起。向上提空氣過濾器蓋將其拆下。



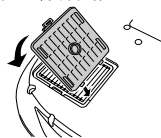
- 3 用新的空氣過濾器將其更換。

取出舊的空氣過濾器，安裝新的空氣過濾器。請確定空氣過濾器與塑膠網架之間沒有空隙。



- 4 安裝空氣過濾器蓋。

安裝時先插進鎖舌部分，再從另一側推進去，直到發出“喀嗒”聲安裝到位。



請按照當地法規處置用過的空氣過濾器。

■ 電池的更換方法

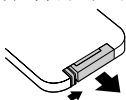
(更換電池: 1 塊 CR2025 鋰電池)



請將電池置於孩童無法觸及之處，以防意外發生。
如果孩童不慎吞入電池，請立即就醫。

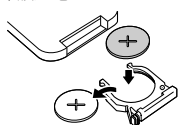
- 1 取出電池支架。

向內按電池支架的卡鉤，拉出電池支架。



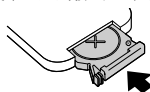
- 2 取出舊電池，裝上新電池。

確定電池的正極 (+) 符號對準電池盒內的相同符號，以正確放入電池。



- 3 置回電池支架。

推入電池支架，直到發出“喀嗒”聲。



請按當地的廢棄物處理法規處理用過的電池。

■主燈更換期

- 投影機起動時，“更換主燈”訊息在畫面左下角顯示約 30 秒，那麼應當更換主燈。
- 異常 / 警告指示燈以 0.5 秒的間隔閃爍紅色時，也應更換主燈。



- 更換信息出現的時間取決於所用的顏色模式。
若持續使用“影院黑”模式：大約 2900 個小時
若持續使用其他模式：大約 1900 個小時
- 顯示此訊息時，請盡快更換主燈。
- 如果在這段時期後仍繼續使用主燈，則主燈破裂的可能性增大。
- 有些主燈可能會在顯示更換訊息之前，便停止操作。建議您隨時備妥備用主燈，以防不時之需。
- 有關備用主燈，請向您就近的經銷店諮詢。

■主燈的更換方法

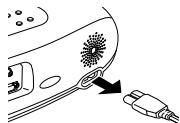
(備用主燈：ELPLP25H)



- 打開主燈燈罩之前，請等待片刻，直到主燈充分冷卻。冷卻期間結束後到主燈充分冷卻需 1 個多小時。
- 如果主燈破裂，請更換新主燈，或向您的經銷店諮詢。如果要自己更換主燈，請小心處理以防玻璃碎片割傷。

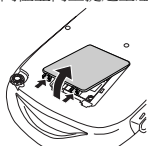
1 先切斷投影機的電源，待冷卻期間結束。 (約 20 秒鐘)

然後拔除電源線，並等待主燈充分冷卻。(約 1 小時)

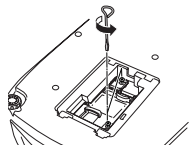


2 打開主燈燈罩。

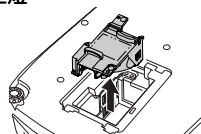
將手指放入門位並向上提起主燈燈罩。



3 鬆開主燈固定螺絲。

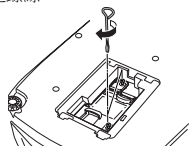


4 拉出主燈。



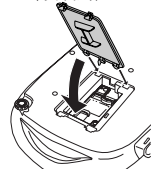
5 裝上新的主燈。

插入主燈直到發出“喀嗒”聲安裝到位，再擰緊主燈的固定螺絲。



6 裝上燈罩。

安裝時先插進鎖舌部分，再從另一側推進去，直到發出“喀嗒”聲安裝到位。



- 請牢固地安裝主燈。為安全起見，本投影機在構造上設計為一旦拆下燈罩，主燈就會自動熄滅。主燈或燈罩的安裝若不正确，主燈不會點亮。
- 更換主燈後，請務必重設主燈使用時間。
- 因此請與主燈同時更換空氣過濾器。☛ “主燈更換期” 54 頁
- 請按照當地法規處置用過的主燈。

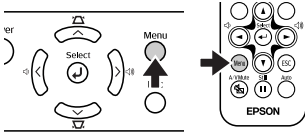
■主燈工作時間的重設

本投影機內置主燈工作時間計數器，可記錄主燈的工作時間，而且到達一定值後，計數器會顯示主燈更換的警告訊息。因此在更換了新主燈之後，需要從配置選單重設主燈工作時間計數器。



除了更換主燈之後，其他時候請不要進行主燈工作時間的重設。否則會無法正確顯示主燈的更換期。

1 接通投影機電源，並按下遙控器上的 [Menu] 鈕。



2 利用 [▲][▼][←] 鈕，從“重設”選單選擇“灯时重设”。

3 使用 [←][→] 鈕選擇“是”，然後按下 [↵] 鈕。

主燈工作時間被重設。



用語解說

以下就本書說明中加以使用而在正文中未作說明或少見的用語作一簡單說明。如需詳細了解，請參閱市面上的有關書籍。

HDTV	是高清晰度電視的縮寫，它指能滿足下列條件的高清晰度系統。 • 垂直解析度為 750p 或 1125i，甚至更高 (p= 順序掃描 ▶, i= 隔行掃描 ▶) • 螢幕長寬比為 16 : 9 • 杜比數碼 ▶1 個音頻接收和播放 (或輸出)
RGB- 視頻	用於描述輸出至電腦監視器的一種常用視頻信號。RGB 視頻是由代表光的三原色 (紅、綠、藍) 的強度的電脈衝組成。第四或第五個脈衝裝載時間信息。
SCART	用於在 TV、VTR 和 AV 設備之間傳輸音頻和視頻信號的 21 針矩形接頭。可以傳輸 RGB、S- 視頻 / 複合視頻和 2 個聲道。
SDTV	是為標準解析度畫質電視的縮寫。它指不能滿足高解析度電視要求的標準電視系統。
SVGA	指 IBM PC/AT 兼容電腦的一種視頻信號，水平 800 點 × 垂直 600 點的解析度。
S- 視頻	這是將視頻的亮度信號和彩色信號分開，提供高畫面質量的信號。它指由兩種獨立信號組成的映像：Y (亮度信號) 與 C (顏色信號)。
VGA	指 IBM PC/AT 兼容電腦的一種視頻信號，水平 640 點 × 垂直 480 點的解析度。
XGA	指 IBM PC/AT 兼容電腦的一種視頻信號，水平 1,024 點 × 垂直 768 點的解析度。
YCbCr	這是現行電視彩條信號波中的傳送用信號。用 Y (亮度信號) 和 CbCr (色度 (顏色)) 來表示。
YPbPr	這是高清晰度電視 (HDTV) 彩條信號波中的傳送用信號。用 Y (亮度信號) 和 CbCr (色度 (顏色)) 來表示。
同步	電腦是按其某種規定的頻率輸出信號。投影機的頻率與該頻率不一致時，映像就會不清晰。使兩者信號在相位 (波峰和波谷的相對位置) 上取得一致稱為同步。信號不同步時，投影映像上就會出現閃爍、模糊不清和橫向干擾。
色差視頻	這是將視頻的亮度信號和彩色信號分開，提供高畫面質量的信號。指在高清晰度電視 (HDTV) 中由 Y (明亮信號)、Pb 和 Pr (色差信號) 這 3 個獨立的信號組成的映像。
色溫	指發光物體的溫度。色溫越高，色調就越偏藍，色溫越低，色調就越偏紅。
冷卻期間	通過此過程令使用後變熱的投影機主燈冷卻。當按下投影機或遙控器上的 [Power] 鈕關閉裝置時，冷卻過程會自動開始。請勿在冷卻期間拔出投影機的電源線。如果沒有讓主燈充分冷卻，主燈的熱力會困在投影機內，因而縮短主燈的壽命，並導致投影機發生故障。
杜比數碼	普通的立體聲是使用 2 個揚聲器的 2 聲道格式。杜比數碼則是 6 聲道 (5.1 聲道) 系統，它在普通的立體聲基礎上添加了一個中置揚聲器、兩個後置揚聲器和一個超低音揚聲器。
防盜鎖	可在投影機的外殼上開設的專用孔中穿入商品防盜用纜索，將投影機固定在桌子或柱子等上面。適用於 Kensington 公司生產的微型存放保安系統。
刷新率	顯示器的發光元件在極短時間內保持相同的亮度和色彩。為此，映像必須每秒鐘掃描多次以便刷新發光元件。每秒鐘的刷新操作次數稱為“再生率”，以赫茲 (Hz) 表示。
長寬比	指畫面的縱長和橫長的比例。HDTV 映像的長寬比為 16 : 9，映像被拉長。標準畫面的長寬比為 4 : 3。
順序掃描	一種映像掃描的方法。單幀映像的映像資料從上到下按順序掃描，以建立單幀映像。
跟蹤	電腦是按其某種規定的頻率輸出信號。投影機的頻率與該頻率不一致時，映像就會不清晰。使兩者信號在頻率 (波峰數) 上取得一致稱為“跟蹤”。跟蹤不良時，投影映像上就會出現較寬的縱向條紋。
隔行掃描	這種掃描方法將映像資料分成細的水平線，按從左到右、從上到下的順序在投影屏上顯示這些水平線。偶數線和奇數線交替顯示的映像掃描方式稱為隔行掃描。
對比度	強調或削弱顏色的明暗差別，可以使文字和圖案顯得更清晰或者變得更柔和。這種調節就稱為“對比度調節”。

複合視頻	這是將視頻的亮度信號和彩色信號混合在一起的、普遍家用電視信號（NTSC、PAL 和 SECAM 制式）。指由彩色條信號波中的傳送用信號 Y（亮度信號）與色度（顏色）信號組成的映像。
壓縮模式	如果要減少 16：9 寬屏視頻映像的寬度，請在視頻軟件中將視頻映像記錄為 4：3 映像。 開啟壓縮模式投影時，可以將視頻映像恢復為 16：9 寬屏格式。

支援的顯示解析度

■ 色差視頻

信號	解析度	長寬比模式		
		正常	挤压	变焦
SDTV [▶] (525i · 60Hz)	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
SDTV(625i · 50Hz)	768 × 576	640 × 480 (4 : 3 長寬比)	○	○
SDTV(525p)	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
SDTV(625p)	768 × 576	640 × 480 (4 : 3 長寬比)	○	○
HDTV [▶] (750p) 16:9	1280 × 720	854 × 480 (16 : 9 長寬比)	-	-
HDTV (1125i) 16:9	1920 × 1080	854 × 480 (16 : 9 長寬比)	-	-

■ 複合視頻 /S- 視頻

信號	解析度	長寬比模式		
		正常	挤压	变焦
TV (NTSC)	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
TV (PAL, SECAM)	768 × 576	640 × 480 (4 : 3 長寬比)	○	○

■ 電腦 (模擬 RGB)

信號	解析度	長寬比模式		
		正常	挤压	变焦
EGA	640 × 350	854 × 468	-	-
VGA▶60	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
VESA 72 / 75 / 85 · iMac*	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
SVGAP▶ 56 / 60 / 72 / 75 / 85 · iMac*	800 × 600	640 × 480 (4 : 3 長寬比)	○	○
XGAP▶ 43i / 60 / 70 / 75 / 85 · iMac*	1024 × 768	640 × 480 (4 : 3 長寬比)	○	○
MAC13"	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
MAC16"	832 × 624	640 × 480 (4 : 3 長寬比)	○	○
MAC19"	1024 × 768	640 × 480 (4 : 3 長寬比)	○	○
MAC21"	1152 × 870	636 × 480	○	○
SDTV(525i · 60Hz)	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
SDTV(525p)	640 × 480	640 × 480 (4 : 3 長寬比)	○	○
SDTV (625i · 50Hz)	768 × 576	640 × 480 (4 : 3 長寬比)	○	○
SDTV(625p)	768 × 576	640 × 480 (4 : 3 長寬比)	○	○
HDTV (750p) 16:9	1280 × 720	854 × 480 (16 : 9 長寬比)	-	-
HDTV (1125i) 16:9	1920 × 1080	854 × 480 (16 : 9 長寬比)	-	-

“○”表示根據每種信號可用的長寬比模式。
支援的解析度為 854 × 480(16:9 長寬比)。

* 如果設備沒有 VGA 輸出端口，就不可能連接。
也可以投影上表中沒有列出的信號。但是，並非所有的功能都支援這樣的信號。

選購件一覽表

本公司備有下述選購件，請按照用途選購。此選購件一覽表是 2003 年 8 月的在庫品。選購件的細節若有變更，恕不另行通知。

部件號碼	部件名稱	使用
ELPLP25H	備用主燈	用於更換使用過的主燈。
ELPAF04	空氣過濾器	用於更換使用過的空氣過濾器。
ELPST12	遙控器	與投影機提供的遙控器相同。
ELPSC06	50" 便攜式投影屏	攜帶方便的輕巧投影屏。(4:3 長寬比)
ELPSC07	60" 投影屏	
ELPSC11	60" 壁掛式投影屏	
ELPSC08	80" 投影屏	
ELPSC10	100" 投影屏	
ELPKC02	VGA-HD15 電腦線 (1.8m) (適用於微型 D-Sub 15 針 / 微型 D-Sub 15 針)	用於連接投影機至電腦。
ELPKC09	VGA-HD15 電腦線 (3m) (適用於微型 D-Sub 15 針 / 微型 D-Sub 15 針)	
ELPKC10	VGA-HD15 電腦線 (20m) (適用於微型 D-Sub 15 針 / 微型 D-Sub 15 針)	
ELPAP01	Mac 電腦配接器套件	用於將 Macintosh D-sub 15 針插頭轉換成微型 D-sub 15 針插頭。
ELPMB11	吊架 *	將投影機安裝在天花板時使用。
ELPFC03	吊板 *	於較高的天花板或於有夾板的天花板安裝投影機時使用。
ELPPF04	管道 370 (370mm 銀色) *	
ELPPF05	管道 570 (570mm 銀色) *	
ELPPF06	管道 770 (770mm 銀色) *	
ELPKS51	軟式攜帶箱	若您需要隨身攜帶投影機時可以使用此攜帶箱。

* 特殊的安裝方法，用於從天花板懸吊投影機。如果需要這種安裝方法，請聯絡您的經銷店。

規格

MODEL	Home Projector EMP-TW10		
Dimensions	402(W)×114(H)×294(D)mm (not including feet)		
LCD Size	0.55" wide		
LCD Driving Method	Poly-silicon TFT Active Matrix		
Pixel number	854 × 480 pixels		
Projection Type	Manual zoom/focus		
Projection Zoom ratio	1-1.54		
Lamp Type	UHE Lamp 132W		
Sound output	1W Monaural		
Power Consumption	100-240VAC 50/60Hz 2.3-1.0A		
Operating temperature	+5°C to +35°C (41°-95°F) (No condensation)		
Weight	Approx. 3.6kg		
Connectors	Input A port	Component	1 3RCA pin jack
	Input B port		1 Mini D-Sub 15pin(female)
	S-Video port		1 Mini DIN 4pin
	Video port		1 RCA pin jack
	Audio port		1 RCA pin jack×2(L,R)
	Control (RS-232C) port		1 D-Sub 9 pin(male)



本投影机使用 Pixelworks IC。

Safety

USA (100-120VAC)
 UL1950 3rd Edition
 Canada (100-120VAC)
 CSA C22.2 No.950-95 (cUL)
 European Community (200-240VAC)
 The Low Voltage Directive (73/23/EEC)
 IEC60950 2nd Edition, +Amd.1,
 +Amd.2, +Amd.3, +Amd.4

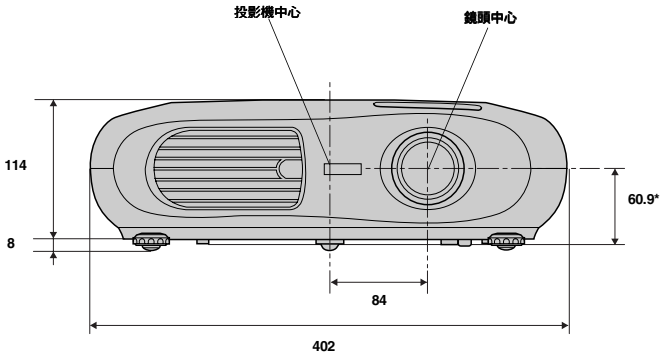
EMC

USA (100-120VAC)
 FCC 47CFR Part15B Class B (DoC)
 Canada (100-120VAC)
 ICES-003 Class B

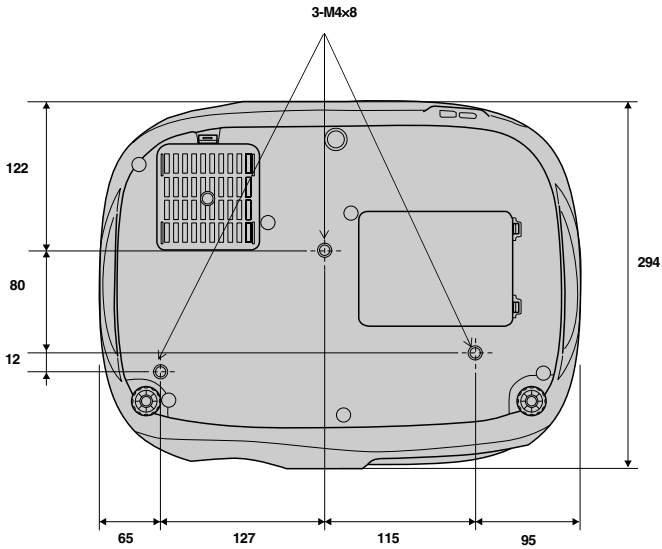
European Community (200-240VAC)
 The EMC Directive (89/336/EEC)
 EN55022, 1998 Class B
 EN55024, 1998
 IEC61000-4-2, IEC61000-4-3,
 IEC61000-4-4, IEC61000-4-5,
 IEC61000-4-6, IEC61000-4-8,
 IEC61000-4-11,
 IEC61000-3-2, IEC61000-3-3

Australia/New Zealand (200-240VAC)
 AS/NZS 3548:1995, A1:1997, A2:1997,
 Class B
 CISPR Pub.22:1993, A1:1995, A2:1996,
 Class B

外形尺寸圖



* 鏡頭中心到懸吊支架的距離



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