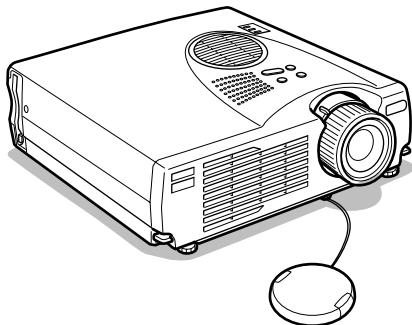


# EPSON®

**MULTI  
MEDIA PROJECTOR**

## EMP-715/505™



Before use

Installation

Connections

Projection

Useful Functions

Adjustments and  
Setting

Using the EasyMP  
Function

Troubleshooting

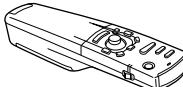
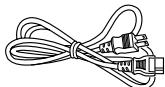
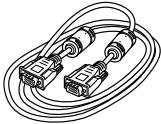
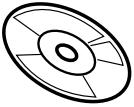
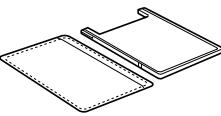
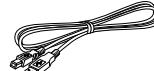
Maintenance

Others

## Owner's Manual

# Accessory Verification

Check to confirm that the following items are included in the package when removing the projector and accessories from the box. Contact your dealer if any items are found to be missing.

|  |   |   |  |
|--|---|---|--|
| · Projector<br>Lens Cover with string  |    | · Remote Control  |   |
| · Power Cord   |    | · Computer Cable<br>(mini D-Sub 15pin/<br>mini D-Sub 15pin) |   |
| · PS/2 Mouse Cable   |    | · Owner's Manual<br>(this document)                         |   |
| · EasyMP Software<br>(CD-ROM)  |  | · Dummy card<br>(Dummy card and card<br>case)               | <br>*The memory set<br>has been inserted<br>into the projector. |
| · 2AA Batteries for<br>the remote control<br>(three-cell alkaline batteries) |    | · RCA Audio Cable<br>(Red/White/Yellow)                     |   |
| · USB Mouse Cable  |    | · Temporary<br>Warranty                                     |   |
| · Memory Card Set<br>(8Mbyte compact flash<br>card + PC card adapter)        |    |   |  |

# ■ Features

- **Crystal clear screen**

Clarity has been vastly improved.

Provides crystal clear projections even in bright areas, perfect for presentation purposes.

- **Wide range of display resolution**

Uses a newly-developed high resolution liquid crystal panel.  
(1024x768)

- **Compact and light**

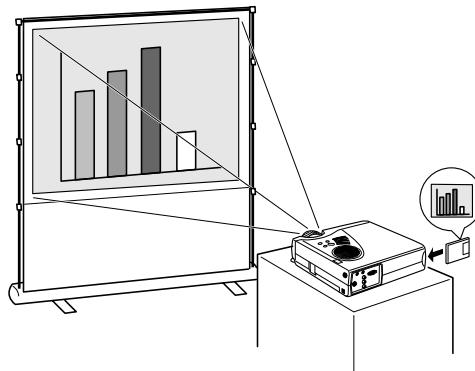
A compact body makes it easy for carrying around.  
(approximately 2.7Kg, 6 litres)

- **Supports the D output port**

Supports digital tuners up to D4 ratings.

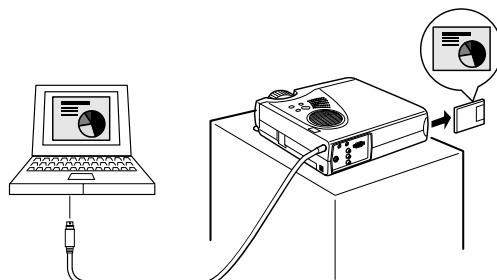
- **Mounting the PCMCIA card slot**

The data saved onto the memory card can be projected for presentation purposes.



- **USB port mounted**

In addition to enabling the use of a USB mouse, this also allows data to be transmitted to the projector's memory card when connected to a computer (only when a list of files is displayed with EasyMP.)



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### **Useful Functions** 49

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# ■ Using this manual

## Symbol displays

A variety of picture displays have been used in this manual and on the actual product to ensure that the projector is used correctly and safely in order to prevent risks to users and other people, and to prevent damage to property. Explanations for these displays are provided below. Ensure that they are fully understood before reading this manual.

|  |  |
|--|--|
|  <b>Warning</b> | Displays details that may result in death or injury if ignored.              |
|  <b>Caution</b> | Displays details that may result in injury or damage to property if ignored. |

**Point:** Includes supplementary explanations and useful tips.

**See page:** Indicates reference pages

**\*:** Refer to the terminology

· Usage of the terms "this unit" and "this projector" in this manual

The terms "this unit" and "this projector" appear regularly in this manual, and these terms also cover the accessories supplied with the projector and other optional products.

## Power cords for use abroad

The power cable supplied with the projector conforms to the Electrical Appliance and Material Control Law and may also be used in Japan.

Ensure that power cords that conform to local laws are used when using the projector in overseas countries.

Contact one of the numbers on the International Assurance Contact List for details on purchasing power cables.

### ● General overseas conditions

The following conditions are common to all countries.

1. The power cord must be a three-core cord (with earth included) that contains the authorization mark of the authorization organization of the country in which the projector is to be used.
2. The power cord must have a minimum permissible current of 7A, an official rated voltage of 125V, or an alternating current of 250V.
3. The power cord must be less than 4.5m in length.
4. The coupler (the connector for connecting to the projector, not the plug for use with a wall-mounted socket) must conform to EN60320/IEC 320 rated inlets (standard sheet C13.)

### ● Authorization organizations in each country

| Country name  | Authorization organization | Country name | Authorization organization |
|---------------|----------------------------|--------------|----------------------------|
| America       | UL                         | Sweden       | SEMKO                      |
| Canada        | CSA                        | Denmark      | DEMKO                      |
| Great Britain | BSI                        | Germany      | VDE                        |
| Italy         | IMQ                        | Norway       | NEMKO                      |
| Australia     | EANSW                      | Finland      | FIMKO                      |
| Austria       | OVE                        | France       | UTE                        |
| Switzerland   | SEV                        | Belgium      | CEBC                       |

Note: The cords for America and Canada must be three-core SJT or SVT type cords.

# ■ Safety Precautions

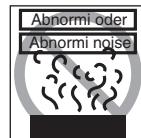
Read and observe the following safety precautions to ensure safe use of the equipment.

## ⚠ Warning

- If any of the following abnormalities occur, switch off the power supply immediately, remove the plug from the power socket and contact your dealer or nearest address provided at page 121.
  - The emission of smoke, strange odours or strange noises.
  - When water or foreign objects have entered the inside of the unit.
  - When the unit has been dropped or the case damaged.

Continuation of operations under these conditions may result in the outbreak of fire or electric shocks.

Repairs should never be attempted by the user.



- The cabinet to the unit should never be opened by anyone other than our service personnel.

The inside of the projector contains many high-voltage parts that may result in the outbreak of fire, electric shocks or other incidents.



- Never use an electrical voltage other than that displayed.

The use of a voltage other than that specified may result in the outbreak of fire or electric shocks.



- Verify the specifications of the Power Cord.

The Power Cord supplied with the projector conforms to the electrical specifications of the country of purchase. If the projector is to be used in any other location, check the electrical voltage and shape of sockets in the relevant country beforehand and purchase a cable that conforms to that country's specifications.



- Never use damaged Power Cord.

Failure to observe this may result in the outbreak of fire or electric shocks.

Also ensure that the following points are strictly observed.

- Never make any modifications to the Power Cord.
- Never place anything heavy on the Power Cord.
- Never bend, twist or pull the cable.
- Ensure that the cable is not installed near heaters.

Contact your dealer or nearest address provided at page 121 if the power cord becomes damaged.



## ⚠ Warning

- **Never look into the lens when the power is switched on.**

An extremely strong light is emitted that may cause sight defects. Special attention must be paid by households with children.



- **Take care when handling power plugs and power connectors.**

Failure to observe these instructions may result in the outbreak of fire or electric shocks.

Observe the following precautions when handling power plugs and power connectors.

- Never connect too many appliances to a single socket.
- Never use plugs or connectors to which dust, dirt or other foreign objects have adhered.
- Ensure that the plugs and connectors are firmly inserted as far as they will go.
- Do not attempt to plug in plugs or connectors with wet hands.
- Do not pull the Power Cord when disconnecting plugs and connectors. Always ensure that the actual plug or connector is firmly gripped.



- **The projector includes many glass parts, such as the lens and lamps.**

If any of these parts should break, handle them with extreme care to avoid injury and then contact your dealer or nearest address provided at page 121 and request repairs.



- **Never place vases or containers that contain liquid on top of the projector.**

If the water is spilt and enters the outer case, it may result in the outbreak of fire or electric shocks.



- **Never insert or drop metal or inflammable objects, or any other foreign objects into the suction inlets and ventilation outlets on the projector.**

Failure to observe this may result in the outbreak of fire or electric shocks.



- **Never place the projector or the battery-operated remote control in locations with excessive temperatures, such as in vehicles with closed windows, in areas subject to direct sunlight, or near the fan outlets of air-conditioners and heaters.**

Failure to observe this may result in heat-distortion that would have an adverse affect on the contents of the projector, and may result in the outbreak of fire or electric shocks.



## ⚠ Caution

- **Never stand on the projector or place any heavy objects on it.**  
Failure to observe this may result in it dropping over, becoming damaged, or causing injury.



- **Never place the projector on unstable surfaces, such as wobbly tables or slanted surfaces.**  
Failure to observe this may result in it dropping over, becoming damaged, or causing injury.



- **Do not place or store the projector within the reach of children's hands.**  
Failure to observe this may result in it dropping over, becoming damaged, or causing injury.



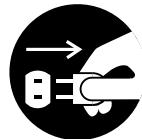
- **Do not place the projector in humid or dusty locations, or in locations where it would be subject to oil steam or water steam, such as kitchens or near humidifiers.**  
Failure to observe this may result in the outbreak of fire or electric shocks.



- **Never block the projector's suction inlets or ventilation outlets.**  
Failure to observe this may result in the build up of high temperatures inside the projector, leading to the outbreak of fire. **Do not place the projector in the following locations.**
  - In narrow, badly ventilated areas, such as in cupboards or in bookcases.
  - On top of carpets, mattresses or blankets.
  - Never cover the projectors with table cloth or other material.Also, if placing by a wall, ensure that at least 20cm of space has been provided between the projector and the wall.

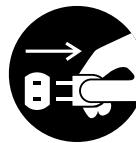


- **Never attempt to remove the lamp immediately after use. Wait for approximately one hour after the power has been cut off to allow the lamp sufficient time to cool.**  
Failure to observe this may result in the outbreak of fire.

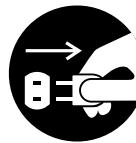


## ⚠ Caution

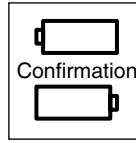
- **Always ensure that the power has been switched off, the plug has been disconnected from the power socket, and all other cables have been disconnected when moving the projector.**  
Failure to observe this may result in the outbreak of fire or electric shocks.



- **Never attempt to remove the lamp immediately after the projector has been used. Wait for the projector to cool down sufficiently by leaving it for at least sixty minutes after the power supply has been switched off before attempting this.**  
Failure to observe this may result in burns or other injuries.



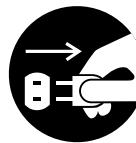
- **Misuse of the batteries may result in damage to the batteries and subsequent leakages, leading to the outbreak of fire, injury and product corrosion. Observe the following precautions to ensure safety.**



- Never use combinations of different batteries, or old batteries together with new batteries.
- Never use batteries that are not specified in the instruction manual.
- If liquid should leak from the battery, wipe up the leakage with a cloth and then replace the battery accordingly.
- Replace the batteries immediately when the time for replacement arrives.
- Remove the batteries when the projector is not to be used for a long period of time.
- Never apply heat to the batteries, or place them in naked flames or water.
- Ensure that the batteries are inserted in accordance with the correct polarity (+ and -).
- If any liquid that has leaked from a battery gets onto the hands, wash it off immediately with water.

Batteries must be disposed of in accordance with the regulations in effect in each relevant area.

- **Ensure that the electric plug and connectors have been disconnected from their sockets when performing maintenance tasks.**  
Failure to observe this may result in electric shocks.



## Safety Precautions

- Using the projector outside of the permissible temperature range (+5C° to +35C°) may result in unstable display and excessive loads being placed on the fan, leading to damage to the equipment.
- Storing the projector outside of the permissible temperature range (-10C° to +60C°) may result in damage of the case. Take special care to avoid placing the equipment in direct sunlight for a long period of time.
- Do not use the projector with the lens cover still in place. The heat generated by the lens may cause the cover to become malformed.
- The liquid crystal display panel has been manufactured with high-accuracy technology and contains more than 99.99% active pixels. However, note that there is a possibility of 0.01% of missing pixels and pixels that will be constantly illuminated.

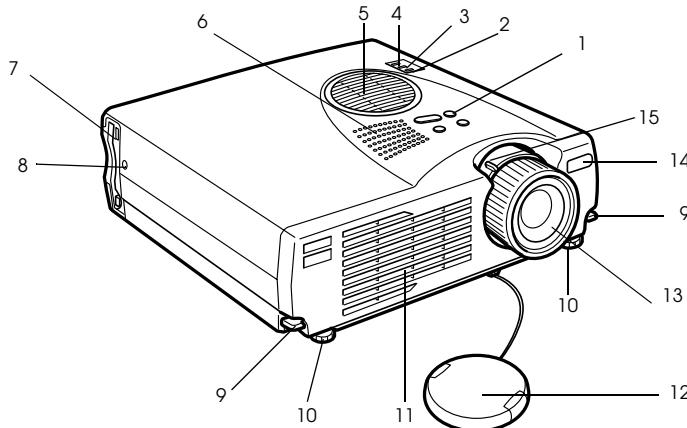
# Before Using This Equipment

This section provides explanations on parts and part names, and the items that should be verified before operating the remote control.

## ■ Parts, Names and Operations

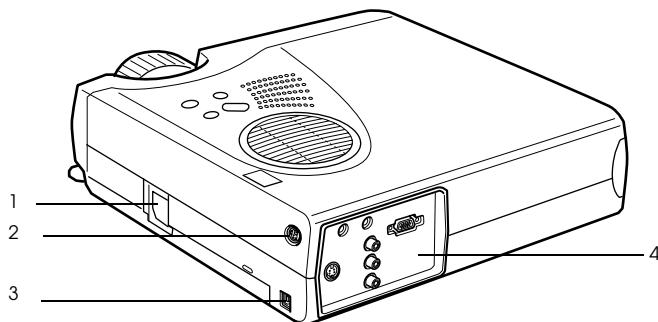
### Projector

#### ● Front Panel



- 1 Operation Panel
- 2 Operation Indicator
- 3 Lamp Indicator
- 4 Temperature Indicator
- 5 Air Filter (ventilation inlet)
- 6 Speaker
- 7 PCMCIA Card Access Lamp
- 8 PCMCIA Card Slot
- 9 Foot Adjust Lever
- 10 Front Foot
- 11 Ventilation Outlet
- 12 Lens Cover
- 13 Focus Ring
- 14 Remote Control Receiver
- 15 Zoom Lever

## ● Rear surface, Side surface



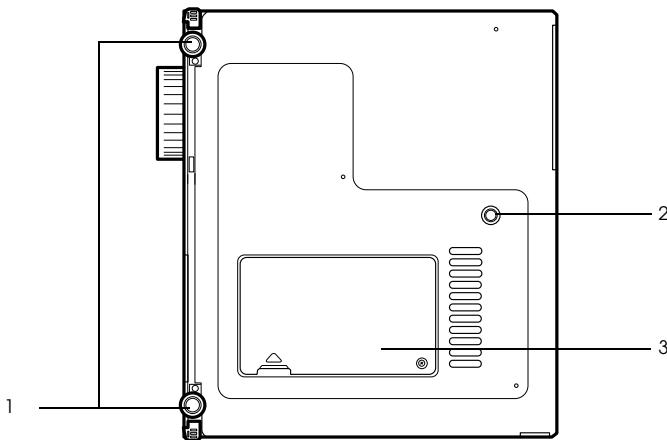
**1 Power Inlet**

**2 Mouse/Com Port**

**3 USB Port**

**4 I/O Port**

## ● Rear Panel

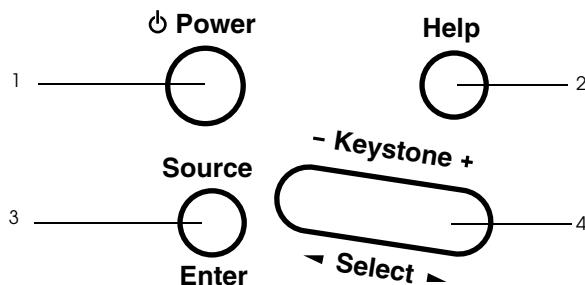


**1 Front Foot**

**2 Rear Foot**

**3 Lamp Cover**

## ● Operation panel (on top of the projector)



### 1 [Power] button ([see page 37, 40](#))

Switches the power supply on and off.

- Press twice to switch off the power supply.

### 2 [Help] button ([see page 49](#))

Displays the methods of solving problems. Press this button when trouble occurs.

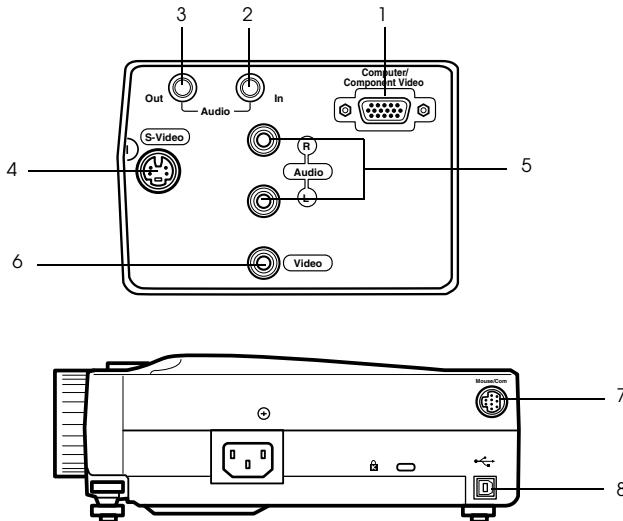
### 3 [Source] (Enter) button ([see page 38, 50](#))

- The projected images will be switched sequentially between Computer (component) --> S-Video --> Composite Video --> EasyMP. S-Video will not be displayed when no S-Video signals are being input. EasyMP will not be displayed when a memory card has not been inserted.
- Operates as an [Enter] button (to set selections) when the help text is displayed.

### 4 [Keystone] (Select) button ([see page 45](#))

- Performs the necessary adjustments when the screen distorts into a trapezoid shape.
- This button functions as the [Select] button (vertical selection) when the help screen is displayed.

## ● I/O Ports



### 1 Computer / Component Video Port

Inputs computer analog image signals and AV equipment component image signals.

### 2 Audio In Port

Inputs the sound signals from equipment connected to the Computer #1 port. Use a stereo mini-jack when making the connection.

### 3 Audio Out Port

Outputs the projector's sound signals.

- The sound will no longer be output from the projector's speakers when a stereo mini-jack is connected here.

### 4 S-Video Port

Inputs the video equipment's S image signals.

### 5 L-Audio-R Port

Inputs the sound signals from A/V equipment connected to the Video port or the S-Video port. The connection is established with an RCA pin jack.

Only the sound for connected computers or A/V equipment is output.

### 6 Video Port

Inputs the A/V equipment's component image signals.

### 7 Mouse/Com Port

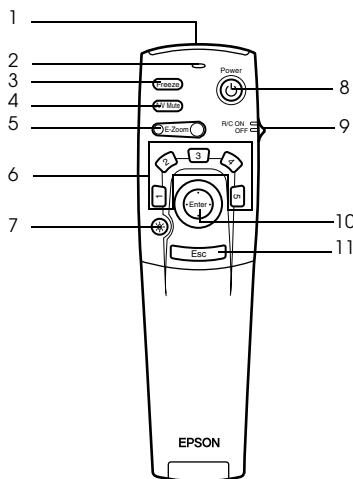
Connected to the computer when the remote control is to be used as a wireless mouse.

### 8 USB Mouse Port

Connect up the computer with the USB mouse cable when the remote control is to be used as a wireless mouse. Connect up the computer with the USB cable when data is to be transferred from the computer to the projector's memory card.

# Remote Control

## ● Front Panel



### 1 Remote control light-receiving area

Outputs the remote control unit's signals.

### 2 Indicator

Illuminated when the remote control unit signals are being output.

- Light will not be emitted when the batteries are getting low or when the [R/C ON OFF] switch is set at [OFF].

### 3 [Freeze] button ([see page 51](#))

Temporarily freezes the image. Press this button once more to cancel the freeze mode.

### 4 [A/V Mute] button ([see page 51](#))

Temporarily mutes the images and sound. To resume projection, press the button once more, adjust the volume control, or display the menu.

It is also possible to project the user logo when the A/V mute function is operating.

### 5 [E-Zoom] button ([see page 54, 59](#))

Enlarges and reduces the size of the image. The image in the sub-screen will be enlarged when Picture-in-Picture images are being projected. Press the [Esc] button to cancel this function.

### 6 [Effect] button ([see page 55](#))

Executes the allocated effect function. Press the [Esc] key to cancel this mode.

### 7 [Light] button

The remote control button will be illuminated for approximately ten seconds.

### 8 [Power] button ([see page 37, 40](#))

Switches the power supply to the projector on and off.

### 9 [R/C ON OFF] switch ([see page 37, 41](#))

Switches the remote control unit on and off. The remote control unit cannot be used for operations when this switch is not set at [ON].

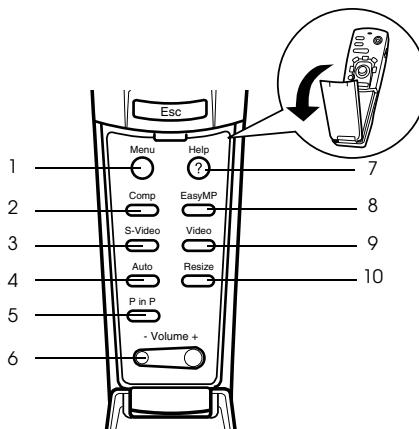
## 10 [Enter] button (see page 31, 63)

- Sets the menu item when pressed, and then moves onto the lower stage. Becomes a cursor key to select the menu items when moved up, down, left or right.
- This function operates as a left-hand click on the mouse when computer images are being projected. The pointer will move when this button is moved up, down, left or right.

## 11 [Esc] button (see page 31, 64)

- Ends the function being used. Returns to the previous stage when the menu or help text is being displayed.
- This function operates as a right-hand click on the mouse when computer images are being projected.

## ● Inside of the Cover



### 1 [Menu] button (see page 63)

Displays and ends the menu.

### 2 [Comp] button (see page 38)

Switches across to the image from computer port.

### 3 [S-Video] button (see page 38)

Switches S-video images (S-Video).

### 4 [Auto] button (see page 46)

Optimizes the computer image.

### 5 [P in P] button (see page 59)

Displays the video image within the computer image or the video image as a sub-screen.

This function is cancelled by pressing this button once again.

### 6 [Volume] button (see page 60)

Adjusts the volume.

### 7 [Help] button (see page 49)

Displays the method of solving problems. Press this button when trouble occurs.

### 8 [Easy-MP] button (see page 38)

Switches the memory card data across to the projected Easy-MP images.

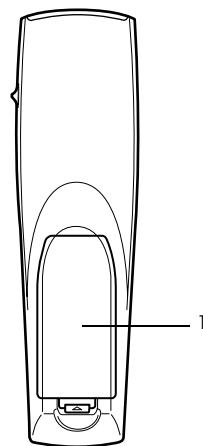
### 9 [Video] button (see page 38)

Switches across to the video images.

### 10 [Resize] button (see page 52)

Switches between the window display and the resizing display when computer images are being projected. Switches the aspect ratio between 4:3 and 16:9 when video images are being projected.

● Rear Panel



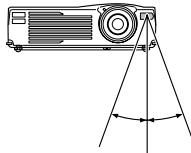
**1** Battery Cover

## Range of Remote Control Operations

Depending on the distance and angle from the main unit's light receiving area, there are cases where the remote control will not function. Ensure that the remote control is used within the following conditions:

- **Operable distance: Approximately 10 metres**

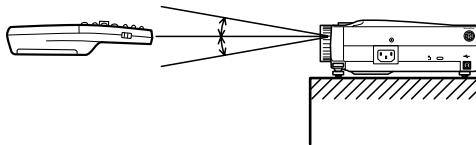
- **Operable range:**



Approximately 30 degrees to the left and right



Approximately 15 degrees up and down



### Point

- Ensure that the [R/C ON OFF] switch is set at [ON] when using the remote control unit.
- Aim the remote control at the projector's light-receiving area.
- There are cases where the operable distance (approximately 10 meters) of the remote control is diminished when signals are reflected off screens depending on the type of screen in use.
- Ensure that sunlight and fluorescent lighting is not shining directly into the projector's light-receiving area.
- If the remote control will not function or malfunctions, there is a possibility that the batteries need changing. In this event, replace the batteries accordingly.

## Inserting the Remote Control Batteries

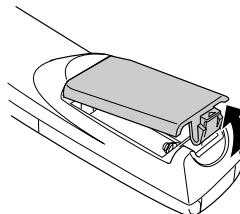
The remote control batteries are inserted in accordance with the following procedure:

### ⚠ Caution

Ensure that unused batteries of the same type are used.

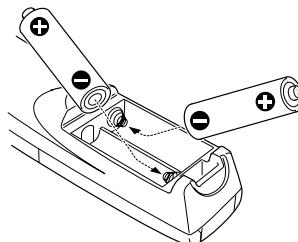
#### 1 Remove the Battery Cover.

Apply pressure to the clip holding the Battery Cover, and then lift it upwards.



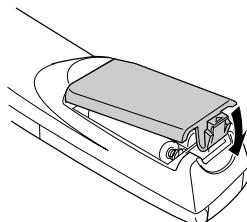
#### 2 Insert the batteries.

Ensure that the batteries are aligned correctly with the “+” and “-” labels on the remote control.



#### 3 Replace the cover.

Apply pressure to the battery cover until it clicks firmly into place.



#### Point

- Specified batteries: Phase-3 alkali dry-cell batteries (LR6) X 2
- The batteries should be replaced approximately once every three months when used for thirty minutes per day.

# Installation

This section provides an example of projector installation, and explanations on the projection distances and projection angles.

## ■ Installation Procedure

This section provides an example of projector installation, and explanations on projection distances and angles.

### ⚠ Caution

- Do not block the ventilation outlet on the front of the projector, or the air filter (suction inlet) on the top.
- Take note that there is a possibility that pieces of cloth or paper may be sucked into the air filter on the top of the projector during projection.
- Do not place the projector in a location where it is subject to the direct air flow from air conditioners or heaters.
- When the projector is to be placed near a wall, ensure that there is at least 20cm of space between the wall and the projector.
- Do not cover the projector with table cloths or other material.

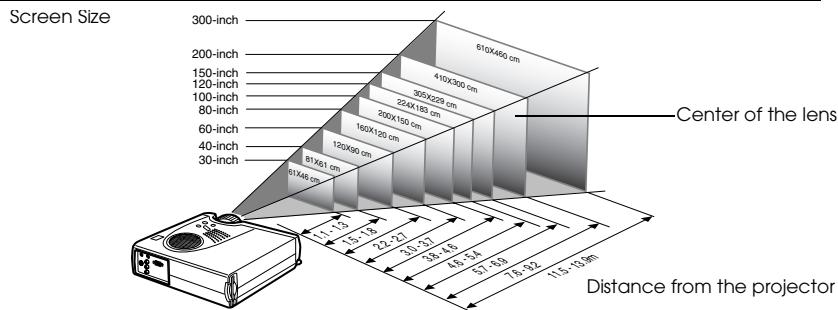
## Screen size and projection distance

Determines the distance that the screen must be from the lens in order to obtain the required screen size.

The projector's Standard Lens is approximately a 1.2x zoom lens and the largest screen size is about 1.2 times the size of the smallest screen.

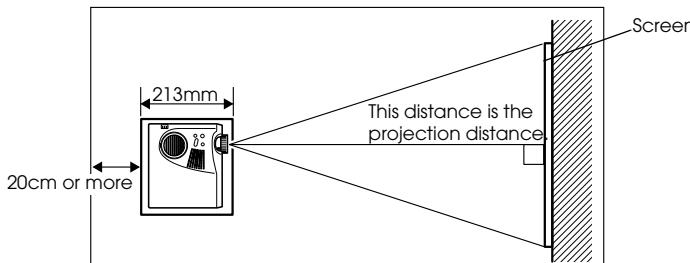
Using the following table for reference purposes, install the projector so that the screen size is smaller than the screen.

| Screen Size          | Approximate Projection Distance |
|----------------------|---------------------------------|
| 30-inch (61×46cm)    | 1.1m to 1.3m                    |
| 40-inch (81×61cm)    | 1.5m to 1.8m                    |
| 60-inch (120×90cm)   | 2.2m to 2.7m                    |
| 80-inch (160×120cm)  | 3.0m to 3.7m                    |
| 100-inch (200×150cm) | 3.8m to 4.6m                    |
| 120-inch (224×183cm) | 4.6m to 5.4m                    |
| 150-inch (305×229cm) | 5.7m to 6.9m                    |
| 200-inch (410×300cm) | 7.6m to 9.2m                    |
| 300-inch (610×460cm) | 11.5m to 13.9m                  |



### Point

- The screen size will become smaller when the trapezoid correction function is used.
- Install the projector at least 20cm away from the wall.

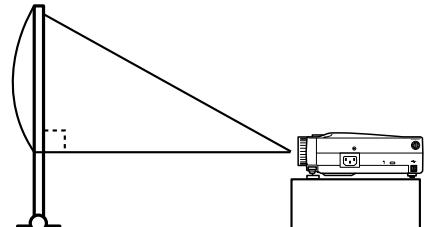


## Projection angles

The optimum projection screen is acquired by placing the center of the projector's lens and a right-angle to the screen.

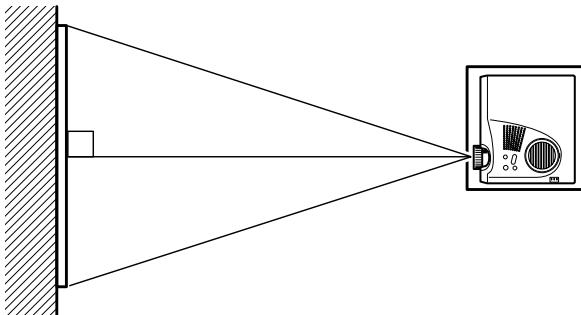
### When viewing from the side

\* It is possible to move the projection position up and down with the lens shift function



A:B 10: Becomes 0

### When viewing from the top or bottom



#### Point

Although the projection angle can be adjusted with the front foot ([see page 43](#)), there are cases where the screen will distort into a trapezoid shape. In this event, adjust the trapezoid distortion with the trapezoid correction function. ([see page 45](#))

# Connections

This section provides explanations on connecting the projector to computers and video equipment.

## ■ Connecting the projector to a computer

Switch off the power supply to the projector and computer before attempting to make the connection.

### Eligible computers

There are computers with which connections cannot be established and computers that cannot be used for projection purposes even though a connection has been established. First of all, it is necessary to confirm that a connection can be established with the computer in use.

#### ● Conditions for eligible computers

##### Condition #1: The computer must be fitted with an image signal output port.

Check to ascertain that the computer is fitted with ports that will output image signals, such as the [RGB Port], the [Monitor Port] and the [Video Port]. If you have trouble confirming this, refer to chapter on external monitor connections in the computer's instruction manual.

There are computers, such as combined computer/monitor models and laptop models, that do not allow connections or for which optional external output ports must be purchased.

#### Point

Depending on the computer, there are cases when it is necessary to switch the image signal output with the connection key (▲, etc.) and the settings.

| NEC   | Panasonic | Toshiba | IBM   | SONY  | FUJITSU | Macintosh  |
|-------|-----------|---------|-------|-------|---------|--|
| Fn+F3 | Fn+F3     | Fn+F5   | Fn+F7 | Fn+F7 | Fn+F10  | Mirroring is set up with monitor adjustments on the control panel after starting up. |

The table shown above provides examples for certain products. Refer to the computer's instruction manual for further details.

**Condition #2: The resolution and frequency of the computer must be within the boundaries listed in the chart on the next page.**

Projection will not be possible if the computer does not support the output image signal resolutions and frequencies shown in the chart on the next page (there are cases where projection is possible, but vivid projection will not be possible).

Confirm the image signal resolution and frequency with the computer's instruction manual.

There are also computers available that allow the output resolution to be amended. In this case, amend the parameters to fit within the ranges shown in the chart on the next page.

| Signal            | Refresh Rate (Hz) | Resolution (Dots) | Pixels (dots) Used During Resizing Display (Resize On) | Pixels (dots) Used During Real Display (Resize Off) | Remarks                   |
|-------------------|-------------------|-------------------|--|---|---------------------------|
| VGAEGA            |                   | 640×350           | 1024×560   | 640×350   |                           |
| VGA               | 60                | 640×480           | 1024×768   | 640×480   |                           |
| VGA Text          |                   | 720×350           | 1024×640   | 720×350   |                           |
|                   |                   | 720×400           | 1024×640   | 720×400   |                           |
| VESA              | 72/75/85          | 640×480           | 1024×768   | 640×480   |                           |
| SVGA              | 56/60/72/75/85    | 800×600           | 1024×768   | 800×600   |                           |
| XGA               | 43i/60/70/75/85   | 1024×768          | 1024×768   | 1024×768  |                           |
| SXGA              | 70/75/85          | 1152×864          | 1024×768   | 1152×864  | Virtual (Partial) Display |
| SXGA              | 60/75/85          | 1280×960          | 1024×768   | 1280×960  | Virtual (Partial) Display |
| SXGA              | 43i/60/75/85      | 1280×1024         | 960×768  | 1280×1024   | Virtual (Partial) Display |
| UXGA <sup>1</sup> | 60                | 1600×1200         | 1024×768   | 1600×1200   | Virtual (Partial) Display |
| MAC13             |                   | 640×480           | 1024×768   | 640×480   |                           |
| MAC16             |                   | 832×624           | 1024×768   | 832×624   |                           |
| MAC19             |                   | 1024×768          | 1024×768   | 1024×768  |                           |
| MAC21             |                   | 1152×870          | 1016×768   | 1152×870  | Virtual (Partial) Display |
| NTSC              |                   |                   | 1024×768   | 1024×576  | 4:3 ↔ 16:9, Selectable    |
| PAL               |                   |                   | 1024×768   | 1024×576  | 4:3 ↔ 16:9, Selectable    |
| SECAM             |                   |                   | 1024×768   | 1024×576  | 4:3 ↔ 16:9, Selectable    |
| SDTY (480i/P)     | 60                |                   | 1024×768   | 1024×576  | 4:3 ↔ 16:9, Selectable    |
| HDTV (720P)16:9   |                   |                   | 1024×576   |   |                           |
| HDTV (1080i)16:9  |                   |                   |  |   |                           |

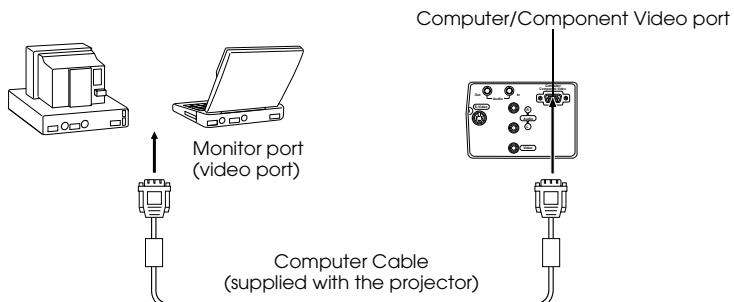
<sup>1</sup>The EMP-505 is not compatible with UXGA.

## In the case of the mini D-Sub 15 pin

### ⚠ Caution

- Switch off the power supply to the projector and computer before attempting to make the connection. Failure to observe this may result in damage.
- Confirm the shape of the cable connector and the shape of the port before making the connection. Applying excessive force when the direction or shape of the connector and port differ may result in defects and damage to the equipment.
  - Connect the computer's monitor port to the projector's Computer/Component Video port with the computer cable supplied.

### ● When the monitor port is the D-Sub 15 pin



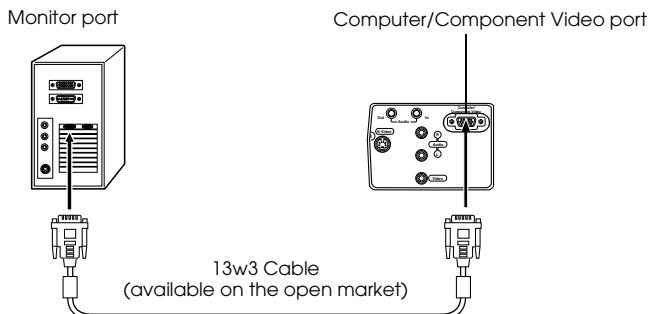
#### Point

- Set the input signal parameter on the image menu to [RGB] once the connection has been established.
- Do not bunch the power cable and the computer cable together. Failure to observe this may result in noise appearing in the images, and may cause malfunctions.
- An adapter may be required when making the connection depending on the stand of the computer's port. Refer to the computer instruction manual for further details.
- An optional MAC desktop adapter (ELPAP01) is required when connecting up to a Macintosh computer.

## ● When the monitor port is 13w3

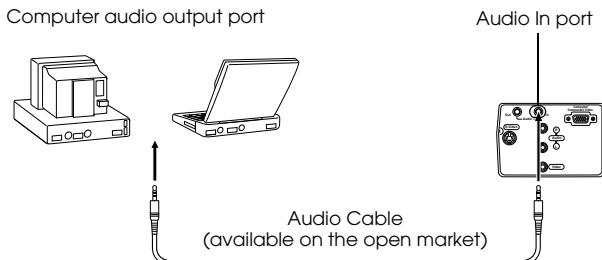
The Computer/Component Video port is also connected to the D-Sub 15 port with the use of the conversion cable when the 13w3 port is used for connecting the computer's monitor port to a work station.

- Connect the computer's monitor port (13w3) to the projector's Computer/Component Video port with a 13w3 <--> D-Sub 15 cable (available on the open market).



## Sound connection

The projector is equipped with a single speaker capable of outputting a maximum of 1W, and it is possible to output computer sound from the projector's speaker. Connect the computer's Audio Out port to the projector's Audio In port (stereo mini-jack) with an audio cable (available on the open market).

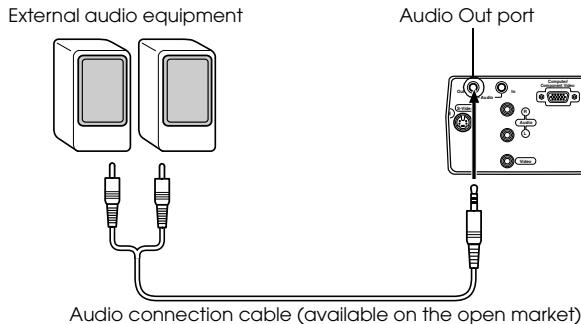


### Point

The audio signals output the selected image's sound.

## Connecting external audio equipment

It is possible to enjoy dynamic sound by connecting the Audio Out port on the projector to a PA system, an active speaker system, or other speakers equipped with built-in amplifiers.



Audio connection cable (available on the open market)

Use audio connection cables available on the open market (pin plug <-> 3.5mm stereo mini-jack plug).

### Point

- The sound will be output externally if a stereo mini-jack is inserted into the Audio Out port.
- The sound will not be emitted from the projector's speakers at this time.
- The sound on the images being projected will be output.
- Purchase an audio connection cable that matches up with the connector on the external audio equipment to be used.

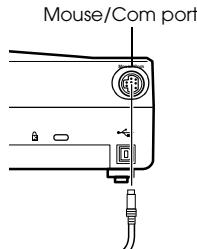
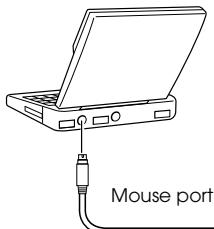
## Connecting up the mouse (wireless mouse function)

This enables the computer's mouse pointer to be operated with the remote control in the same way as a wireless mouse.

Connect the computer's mouse port to the projector's Mouse/Com port or USB mouse port with the mouse cable.

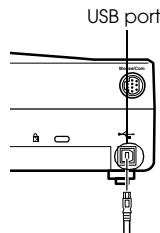
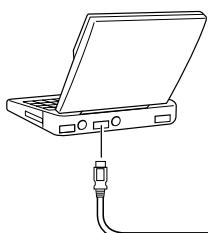
| Computer                     | Mouse to use | Mouse cable to use          |
|------------------------------|--------------|-----------------------------|
| PC/AT<br>DOS/V               | PS/2 mouse   | PS/2 mouse cable (supplied) |
|                              | USB mouse    | USB mouse cable (supplied)  |
| Macintosh<br>(OS9 or higher) | USB mouse    | USB mouse cable (supplied)  |

### PS/2 mouse connection



PS/2 Mouse Cable (supplied with the projector)

### USB mouse connection



USB Mouse Cable (supplied with the projector)

Refer to the above table before making your selection.

#### Point

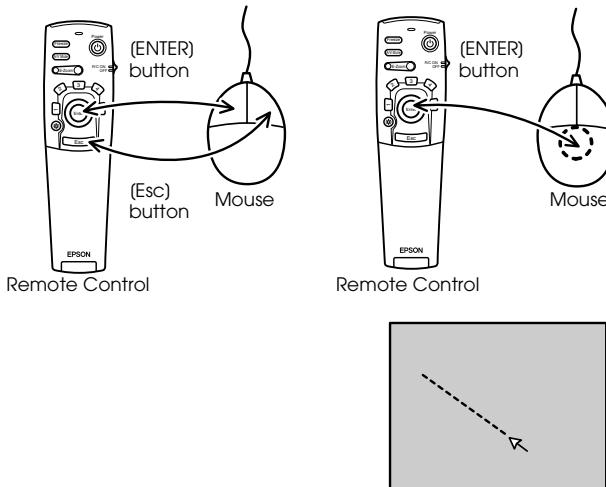
- Only the USB standard mounted model supports USB Mouse Cable connections. In the case of Windows, only the Windows 98/2000/Me preinstalled model is supported. Operations cannot be guaranteed on upgraded Windows 98/2000/Me environments.
- Supports OS9 and higher with the Macintosh environment.
- There are cases where it is not possible to use a mouse with both the Windows and Macintosh platforms depending on the version of the OS.
- There are cases where certain settings must be made on the computer in order to use a mouse. Refer to the computer's instruction manual for further details.
- Switch off the power supply to the projector and computer prior to making the connection.
- The computer will require rebooting if it does not work.
- Consult with your vendor if with to use a serial mouse, or ADB mouse on a Macintosh.

Perform the following mouse operations after the connection has been established:

Left click ----- Press the [Enter] button.

Right click ----- Press the [Esc] button.

Mouse pointer movement -- Lower the remote control [Enter] button.



#### Point

- The operations will be reversed if the left/right button functions of the mouse pointer have been amended with the computer.
- The mouse cannot be used when the menu is being displayed, when the effect, Picture-in-Picture or E-zoom functions are in use, or when the size of the image is set for real display(resize off).
- The movement speed of the mouse pointer can be changed. (see page 66)

# ■ Connecting the video equipment

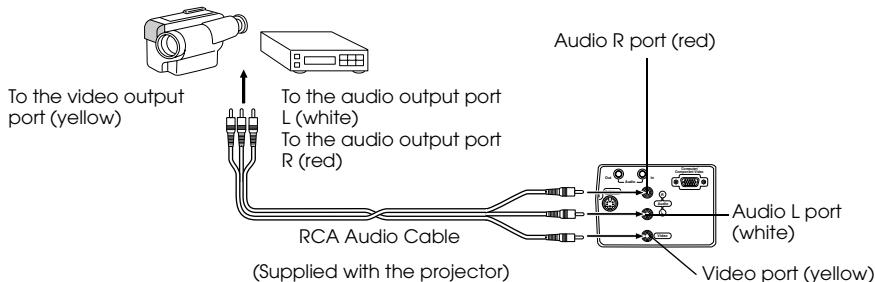
Switch off the power supply to the projector and video equipment prior to attempting to make the connection.

## Point

The sound for the selected image will be output.

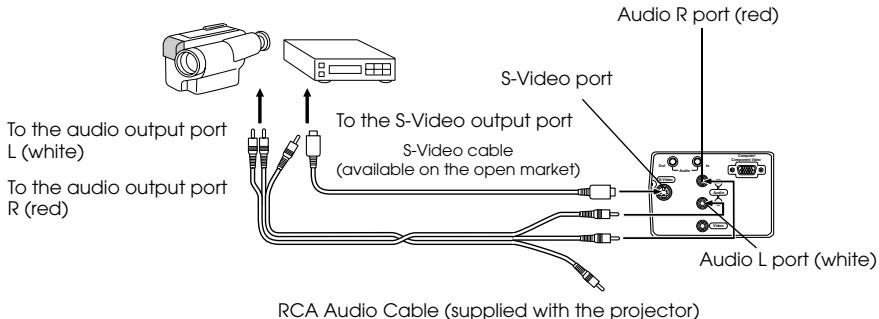
## In the case of composite image signals

- Connect the video port, the projector's video port and the L-Audio-R port with the RCA Audio Cable (red/white/yellow) supplied.



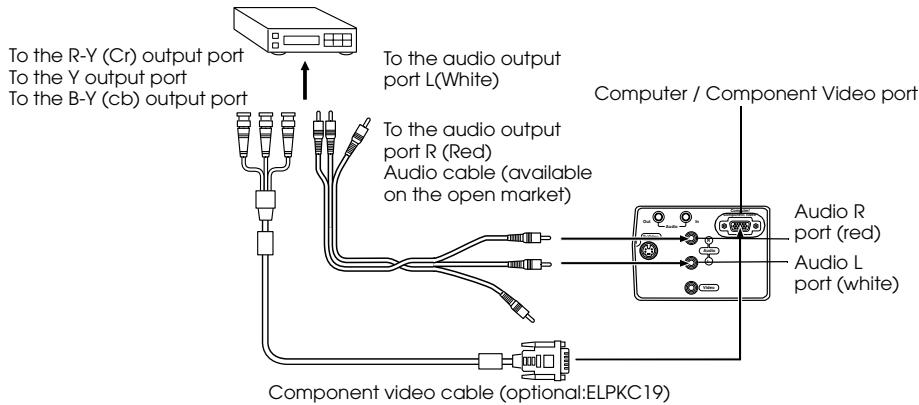
## In the case of S image signals

- Connect the projector's S-Video port to the video equipment with the S-Video cable (available on the open market).
- Connect the L-Audio-R ports with the RCA Audio Cable (red/white/yellow) supplied to output the sound from the projector's speaker.



## In the case of component (color differential\*) image signals

- Connect the video equipment to the projector's Computer /Component Video port with the optional component video cable (ELPKC19.)
- Connect the L-Audio-R ports with the RCA audio cable supplied (red/white/yellow) to output sound from the projector's speakers.

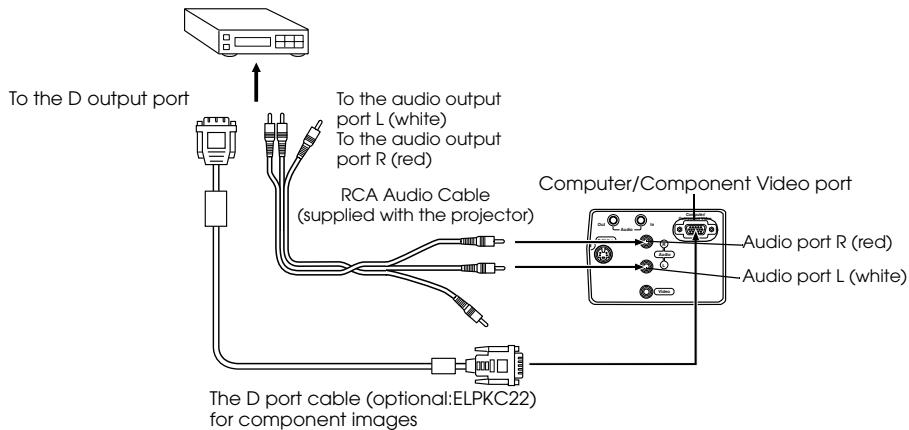


### Point

Set the input signal parameter on the image menu to [YCbCr] or [YPbPr] in accordance with the equipment's signals after the connection has been established.

## In the case of the digital tuner's D output port

- Connect the digital tuner to the projector's Computer/Component Video port with the optional D port cable (ELPKC22).
- Connect the L-Audio-R ports with the RCA audio cable supplied (red/white/yellow) to output sound from the projector's speakers.



### Point

- Set the image menu's input signals to either [YCbCr] or [YPbPr] in accordance with the equipment being used when establishing the connections. (see [page 65](#))
- Establishing connections with digital tuners is only possible in Japan.
- Supports digital tuners up to the D4 rating.

# Projecting

This section provides explanations on starting and ending projection, and on the basic functions for adjusting projected images.

## ■ Projection

Images can be projected after all connections have been completed.

## Preparations

### ⚠ Warning

- Never look directly into the lens once the power supply has been switched on. Failure to observe this may result in the powerful light damaging eyesight.
- Ensure that the Power Cord supplied is used. The use of cables other than the one supplied may result in the outbreak of fire or electric shocks.

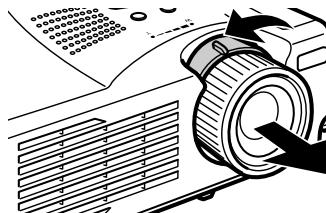
### ⚠ Caution

Do not perform any projection tasks with the Lens Cover attached. Failure to observe this may result in the cover becoming malformed due to heat.

**1** Connect the projector to a computer and video equipment. (see [page 25, 32](#))

**2** Rotate the zoom lever to the central position to extend the lens.

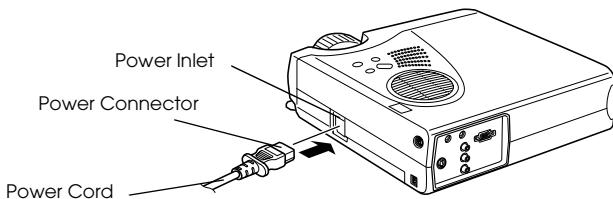
Images will be out of focus when projected if the zoom lever is not moved to the central position.



**3** Remove the Lens Cover.

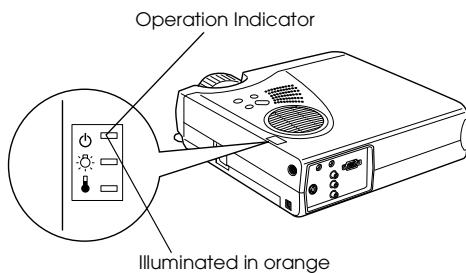
#### 4 Attach the supplied Power Cord to the projector.

Check to confirm the shape of the projector's Power Inlet and Power Connector, align the connector in the correct direction, and then insert it as far as it will go.



#### 5 Plug the Power Plug into the power socket.

The Operation Indicator will be illuminated in orange.



---

##### Point

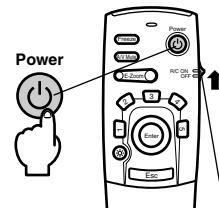
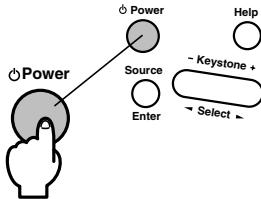
Button operations are not possible when the Operation Indicator is blinking in orange.

---

## Commencing projection

### 1 Press the [Power] button to turn on the power supply.

The Operation Indicator will begin to blink in green, and projection will be started.

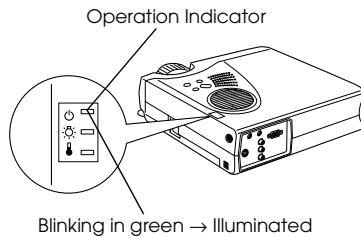


Set the R/C ON OFF switch to (ON) first of all when using the remote control unit

The operation indicator will change from blinking to being illuminated in green after a while.



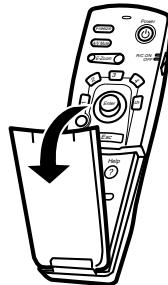
A message stating (No image signals being input) will be displayed when no image signals are being input. (Note that there are cases where this will not be displayed depending on the no-signal display setting.)  
(see page 67)



### Point

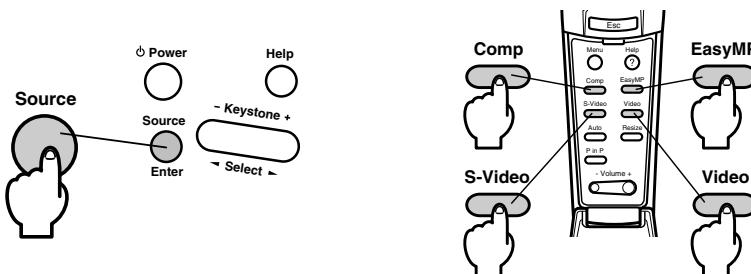
Button operations are not possible when the Operation Indicator is blinking in green.

### 2 Open the remote control cover when a remote control is to be used.



### 3 Select the Port to which the connection has been made when more than one item of equipment has been connected.

Press the port button connected to the computer or video equipment to switch the input source.



| Image                | Button to Select                        |                | Display at the top right-hand corner of the screen |
|----------------------|---|----------------|--|
|                      | Main Unit                               | Remote Control |  |
| Computer (Component) | [Source] (will change whenever pressed) | [Comp]         | Computer   |
| Video                |   | [Video]        | Video  |
| S-Video              |   | [S-Video]      | S-Video  |
| Memory card          |   | [EasyMP]       | [EasyMP]   |

#### Point

- Projection will take place without pressing the button if only one item of equipment is connected.
- It is not possible to switch across to S-Video with the [Source] button when no S-Video input exists.
- It is not possible to switch across to EasyMP with the [Source] button when a memory card has not been inserted.

#### 4 Starting projection.

Switch on the power supply to the computer or video equipment. If the equipment connected is video equipment, then also press the [Playback] or [Play] buttons.

The [No Signal] display will be erased, and projection will commence.

##### Point

- If [No Signal] remains displayed, check the connections once again.
- Depending on the computer, there are cases when it is necessary to switch the image signal output destination with the key (□, etc.) or the settings after establishing the connection.

| NEC   | Panasonic | Toshiba | IBM   | SONY  | FUJITSU | Macintosh  |
|-------|-----------|---------|-------|-------|---------|--|
| Fn+F3 | Fn+F3     | Fn+F5   | Fn+F7 | Fn+F7 | Fn+F10  | Mirroring is set up with monitor adjustments on the control panel after starting up. |

The table shown above provides examples for certain products. Refer to the computer's instruction manual for further details.

- Press the [Resize] button when signals that support DVD players or wide television screens (16:9 images) have been input. The parameters will change between 4:3 images and 16:9 images whenever the switch is pressed.
- There are cases where a projected image will remain projected if a still image is projected for a long period of time.

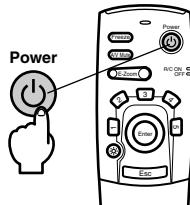
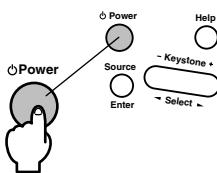
# ■ Ending

End projection in accordance with the following procedure.

**1** Switch off the power supply to the connected equipment.

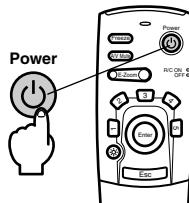
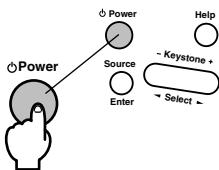
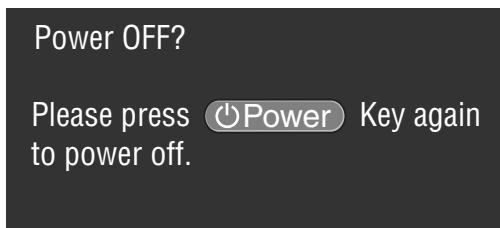
**2** Press the [Power] button.

A message to confirm that the power needs to be switched off will be displayed.



**3** Press the [Power] button once more.

The lamp will be extinguished, the Operation Indicator will blink in orange, and the cool-down process will commence.

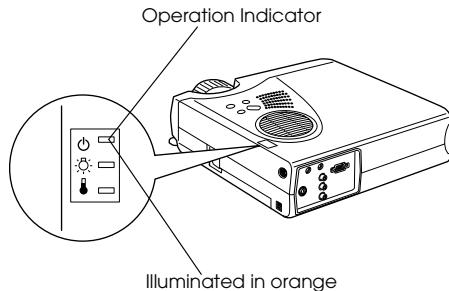


The Operation Indicator will change from blinking to being illuminated in orange once the cool-down process has been completed. The cool-down period will take approximately ninety seconds (depending on the surrounding temperature).

## Point

- Press a different button if the power is not to be switched off. The message will be erased after seven seconds if no buttons are pressed (the power will remain on).
- Button operations are not possible when the Operation Indicator is blinking in orange. In this event, please wait until full illumination has been attained.

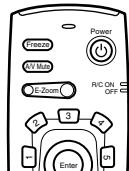
**4** Check to ascertain that the cooling down period has ended (the operation indicator will be illuminated in orange), and then remove the power plug from the socket.



### ⚠ Caution

Do not remove the Power Plug from the socket when the Operation Indicator is blinking in orange. Failure to observe this may result in damage to the equipment and will speed up the period for replacing the lamp.

**5** Set the R/C ON OFF switch to [OFF] when not using the remote control.

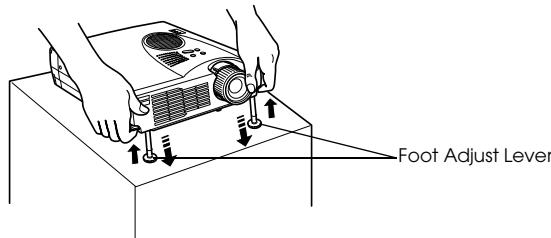


#### Point

The batteries are being consumed when the [R/C ON OFF] switch on the remote control unit is set at [ON]. Ensure that the [R/C ON OFF] switch on the remote control unit is set to [OFF] when not in use.

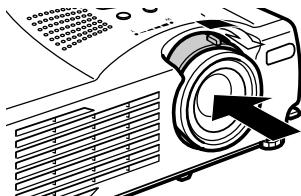
**6** Restore the Front Foot if it has been extended.

Steady the projector by hand, and then lift the Foot Adjust Lever with a finger and gently lower it into the main Unit.



**7** Attach the lens cover.

**8** Rotate the zoom lever to store the lens inside the projector.



# ■ Adjusting the Projection Position

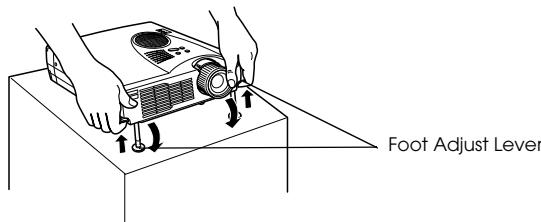
The projector can be adjusted into the following vertical projection positions.

## Feet adjustments

Adjusts the projection angle of the projector.

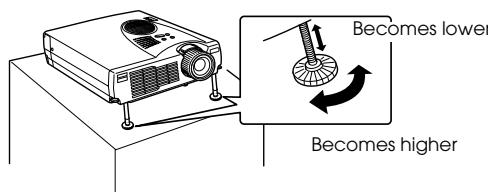
- 1 Lift the Foot Adjust Lever with a finger and raise the front part of the projector.

The Front Foot will protrude.



- 2 Remove your finger from the Foot Adjust Lever, and then let go of the projector.

- 3 Rotate the lower part of the Front Foot to minutely adjust the height.



### Point

- There are cases where the screen will be distorted into a trapezoid shape when foot adjustments are performed. This trapezoid distortion can be adjusted with the use of the keystone correction function. (see page 45)
- The Front Foot is restored by lifting the Foot Adjust Lever with a finger and lowering the projector.

# ■ Adjusting the Projection Size

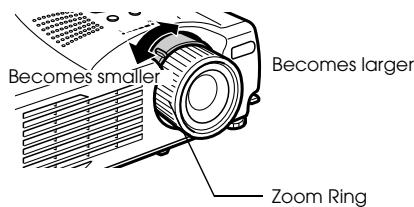
It is possible to adjust the size of the projection and correct any trapezoid distortion.

## Point

A function to resize the screen ([see page 52](#)) and an E-Zoom function for enlarging certain areas ([see page 54](#)) are also available.

## Zoom adjustment

- 1 Turn the zoom lever to make the adjustment (enlargement up to 1.2X is possible).



The projection distance must also be adjusted when enlarging the screen. ([see page 23](#))

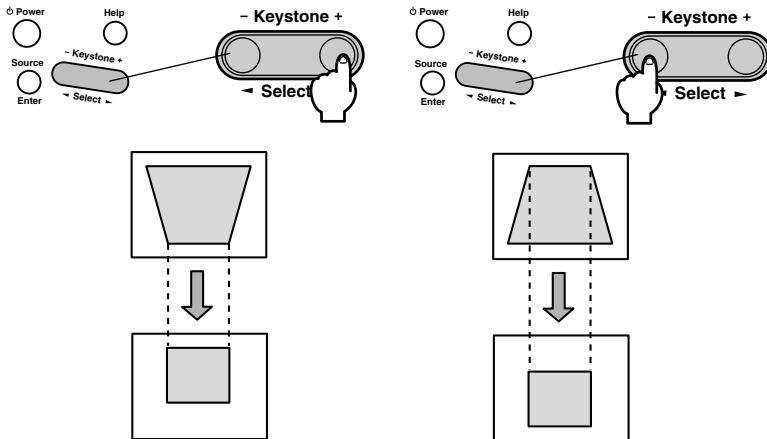
## Point

Set the zoom lever between the [W] and [T] positions during projection. If the lever is set at a position that exceeds the adjustable range from the [W] (center) position, the lens will be stored inside the projector and the images will be out of focus.

## Keystone adjustment

Make the necessary adjustment when the screen has been distorted into a trapezoid with foot adjustment.

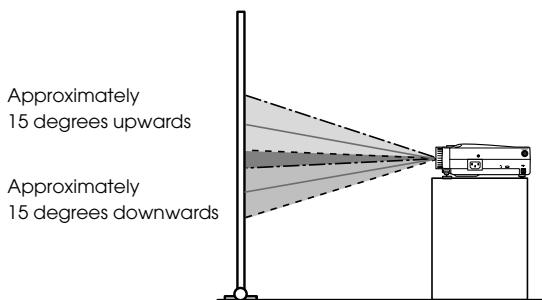
**1** Press the [Keystone +, -] button on the projector to change the screen into a rectangle.



The corrected screen will shrink in size.

It is possible to make adjustments with keystone correction (through 30 stages) as long as the tilt angle of the projector is within a maximum vertical range of approximately 15 degrees.

The maximum value of the tilt angle will differ slightly in accordance with the projected size adjusted with the zoom.



### Point

- The screen will be reduced in size when keystone correction has been performed.
- The details of trapezoid correction will be stored. This must be readjusted to match the installation status after the projection position and angle have been amended.
- Reduce the sharpness if blurring occurs after keystone correction. ([see page 65](#))
- Keystone correction is performed from the menu. ([see page 67](#))

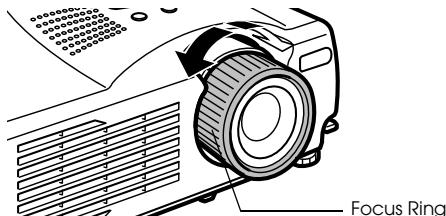
# ■ Picture Quality Adjustment

Adjusts image focus and disturbance.

## Focus adjustment

Aligns the focus of the image.

### 1 Rotate the Focus Ring to make the required adjustment.



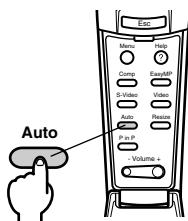
#### Point

- It is not possible to align the focus if the lens is dirty or fogged over with condensation. In this event, clean the lens accordingly. (see page 109)
- Correct adjustment is not possible if the installation position is out of line by between 1.1 to 13.9 meters.
- Images will be out of focus if the position of the zoom lever is outside of the [W] to [T] range.

## Auto adjustment (when projecting computer images)

Automatically adjusts the computer image to attain the optimum effect. The items adjusted include the Tracking, Position and Sync.

### 1 Press the [Auto] button on the remote control.



#### Point

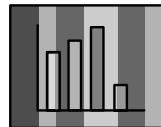
- If auto adjustments are initiated when the E-Zoom, A/V Mute or P in P functions are executing, adjustment will not be carried out until the executing function has been cancelled.
- Depending on the type of signals being output by the computer, there are cases when adjustment cannot be carried out correctly. In this event, adjust the Tracking and Sync. (see page 47)

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## Tracking adjustments (when projecting computer images)

Adjusted when vertical stripes are apparent on the computer image.

**1** Make the adjustment with the [Menu] - [Video] - [Tracking] function.

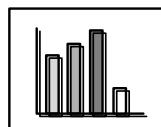


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## Synchronization adjustments (when projecting computer images)

Adjusted when flashing, blurring and vertical noise are apparent on the computer image.

**1** Make the adjustment with the [Menu] - [Video] - [Sync.] function.



# ■ Introduction of Functions

The functions that can be operated by pressing buttons when images are being projected are listed below.

| Function            | Outline  | Button    |                     | Reference Page |
|---------------------|--|-----------|---------------------|----------------|
|                     |  | Main Unit | Remote Control Unit |                |
| Help                | Displays the method of solving problems when trouble occurs. | Help      | Help                | 49             |
| A/V Mute            | Temporarily mutes the image and sound.                       | -         | A/V mute            | 51             |
| Freeze              | Temporarily pauses image movement.                           | -         | Freeze              | 51             |
| Resize              | Changes the size of the image.                               | -         | Resize              | 52             |
| E-Zoom              | Proportionally enlarges the image.                           | -         | E-Zoom              | 54             |
| Effect              | Adds decorations to the image.                               | -         | [1]-[5] (Effect)    | 55             |
| P in P              | Adds a sub-screen to the image.                              | -         | P in P              | 59             |
| Keystone correction | Corrects trapezoid correction.                               | Keystone  | -                   | 45             |
| Auto adjustment     | Automatically adjusts the image for optimum effect.          | -         | Auto                | 46             |
| Volume              | Adjusts the volume.  | -         | Volume              | 60             |
| Menu                | Displays the menu.   | -         | Menu                | 63             |

# Useful Functions

This section provides explanations on the effective and useful functions, such as presentations, available with this projector.

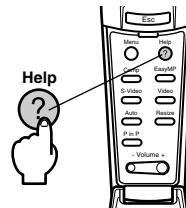
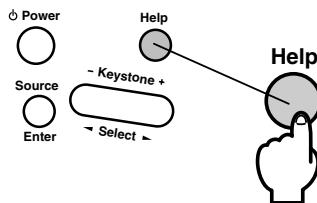
## ■ Useful Functions

### Help Function

The methods of solving trouble when it occurs are divided into separate sections and explained below for use when problems arise.

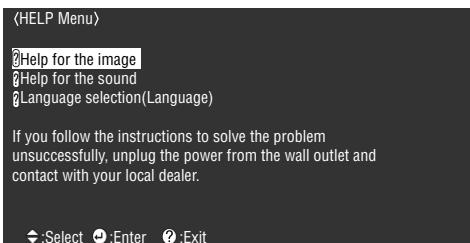
#### 1 Press the [Help] button.

The help menu will be displayed.



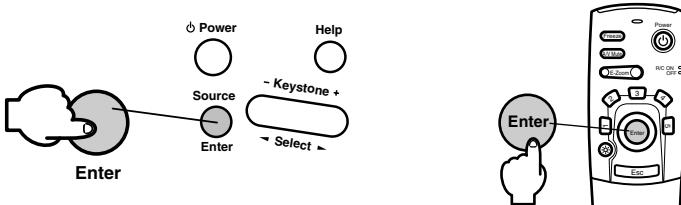
#### 2 Select the item.

Press the [Select] button on the main unit (move the [Enter] button up and down on the remote control) to select the item.

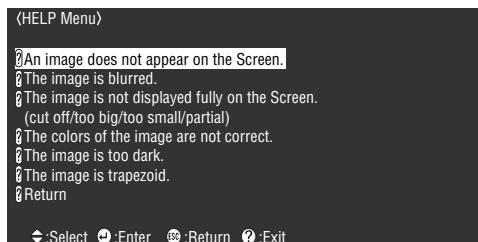


### 3 Set the item.

Press the [Enter] button to select the required item.



### 4 Repeat the operations explained in procedures 2 and 3 to select and set the detailed items.



#### Point

- Refer to [Troubleshooting] in this manual if the help text does not solve your problems.  
([see page 96](#))
- The help menu can be cancelled by pressing the [Esc] or [Help] buttons.

# ■ Projection Cutting

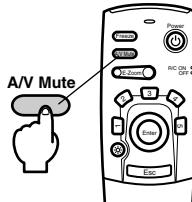
It is possible to temporarily mute or pause images and sound.

## A/V Mute Function

Temporarily mutes the images and sound.

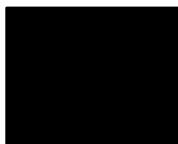
- 1 Press the [A/V Mute] button on the remote control.

The images and sound will be erased.



To resume projection, press the [A/V Mute] button once more, adjust the volume control, or display the menu. It is possible to select the status to be assumed when the images and sound are temporarily muted from the following three different types with the A/V mute settings on the setup menu. (see page 67)

Black color



(Default settings)

Blue color



User logo



### Point

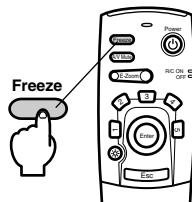
The Epson logo has been registered in the user logo. User logo registration and setup is necessary to amend the user logo. (see page 67)

## Freeze Function

Temporarily pauses the movement of images. However, the sound will not be muted.

- 1 Press the [Freeze] button on the remote control.

The image will freeze.



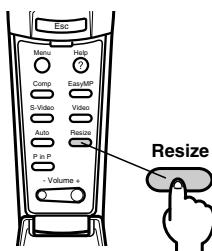
Press the [Freeze] button once more to cancel this mode.

# ■ Switching Image Sizes

Switches between the window display and the resize display when projecting computer images. Switches between an aspect ratio of 4:3 and 16:9 when projecting video images.

## 1 Press the [Resize] button on the remote control.

The screen size will switch.



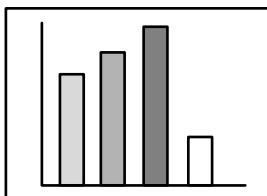
### ● In the case of computer images

Window display: Projects with the input resolution (real display). There are cases where the size of the projection and the size of the image will differ.

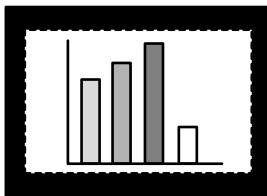
Resize display: Reduces or enlarges the resolution so that the size of the projection fits the entire screen.

**(Example) When the input resolution is smaller than the display resolution (in the case of 800 x 600)**

Resize Display



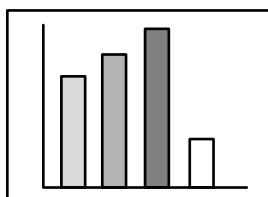
Window Display



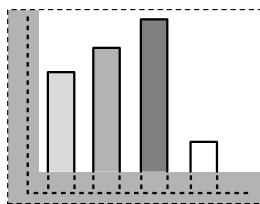
Lower the (Enter) button on the remote control to enable scrolling.

**(Example) When the input resolution is greater than the display resolution  
(in the case of 1600 x 1200)**

Resize Display



Window Display



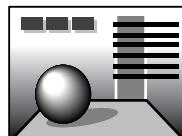
**Point**

- The size will not be switched if the display resolution of the liquid crystal is the same as the entered resolution (1024 x 768 dots).
- A certain portion of the image will not be displayed if the entered resolution is larger than the display resolution of the liquid crystal. Lower the [Enter] button on the remote control unit to scroll through the areas not displayed.

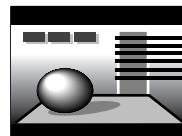
**● In the case of video images**

Switching will be performed for 4:3 and 16:9 image sizes. Images recorded with digital videos and DVD images can be projected on 16:9 wide screens.

4:3 display



16:9 display

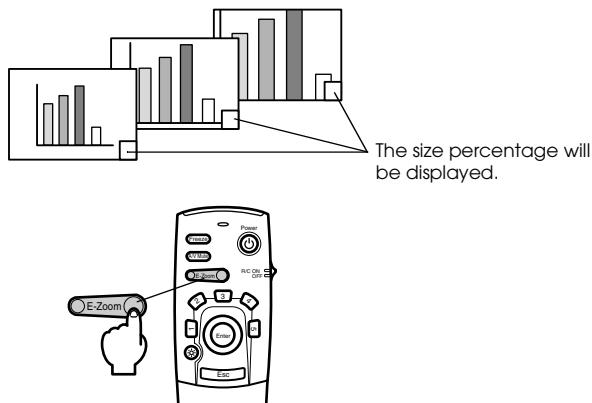


## ■ Enlarging Images (E-zooming function)

The projected size will remain as it is while the image will be proportionally enlarged.

### 1 Press the [Zoom] button on the remote control.

The size percentage will be displayed in the bottom right-hand corner to enable the image to be reduced or enlarged.



Press the [Esc] button on the remote control to cancel the setting.

#### Point

- Enlargement is possible with 24 stages between 1x and 4x at increments of 0.125x.
- A certain portion of the image will not be displayed when it has been enlarged. Lower the [Enter] button on the remote control to scroll the screen and display this portion accordingly.
- Sub-screens will be enlarged when the P in P function is being used.

# ■ Effect Function

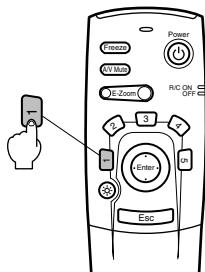
Effects can be added to the presentation images with the use of the [Effect1] to [Effect4] buttons on the remote control. The effects used can be amended on the [Effect] screen. (see [page 66](#))

## Cursor/Stamp

Imprints a stamp on the image.

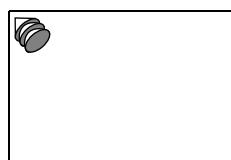
- 1 Press the [1] button on the remote control.

The Cursor/Stamp will be displayed.



- 2 Lower the [Enter] button on the remote control unit to move the position of the cursor/stamp.

- 3 The stamp will be imprinted at the location of the cursor when the [Enter] button on the remote control unit has been pressed.



### Point

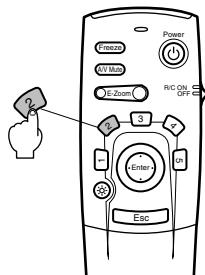
- The effect function will be canceled and the cursor will disappear when the [Esc] or [5] button is pressed.
- The mouse cannot be used when the effect function is in progress.

## Box

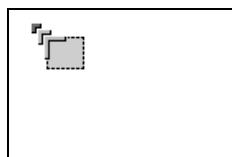
Draws a Box on the image.

**1** Press the [2] button on the remote control.

A box will be displayed.

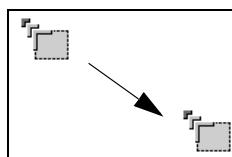


**2** Lower the [Enter] button on the remote control unit to move the cursor to the starting position.



**3** Press the [Enter] button to set the start position.

**4** Lower the [Enter] button on the remote control unit to move the cursor to the ending position.



**5** Press the [Enter] button to set the end position.

### Point

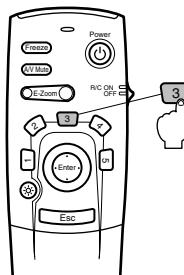
- The decoration will be erased when the [5] button is pressed.
- There are cases where the effect will be difficult to see depending on the color combination of the image's background and four corners. Amend the color of the corners in this event. (see page 66)
- The mouse cannot be used when the effect function is in progress.

## Spotlight

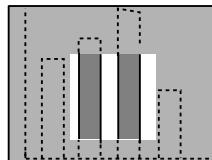
Shines a spotlight on a certain part of the image.

**1** Press the [3] button on the remote control.

The spotlight will be displayed.



**2** Lower the [Enter] button to move the spotlight.



### Point

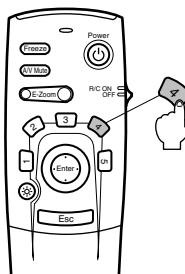
- The effect function will be cancelled and the spotlight will disappear when the [Esc] or [5] button is pressed.
- The mouse cannot be used when the effect function is in progress.

## Bar

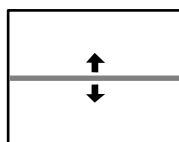
Draws a bar line on the image.

### 1 Press the [4] button on the remote control.

A bar will be displayed.



### 2 Press the [Enter] button to set the end position.



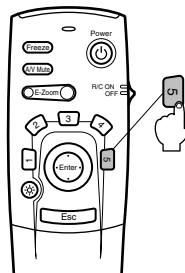
#### Point

- The effect function will be cancelled and the bar will disappear when the [Esc] or [5] button is pressed.
- There are cases where the effect will be difficult to see depending on the color combination of the image's background and the bar. Amend the color of the bar in this event. (see [page 66](#))
- The mouse cannot be used when the effect function is in progress.

## Cancelling effects

### 1 Press the [5] button on the remote control.

The box and bar decorations will all disappear.

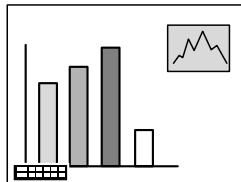


## ■ P in P Function

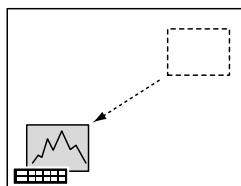
It is possible to display a video image as a sub-screen within a computer image or component video image. It is also possible to output the sound.

### 1 Press the [P in P] button on the remote control.

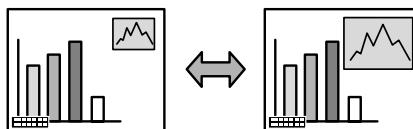
An operation guide will be displayed in the top left-hand corner of the screen and the sub-screen will be displayed at the top right-hand side of the screen.



### 2 Press the [Enter] button on the remote control to move the position of the sub-screen.



### 3 Press the [E-Zoom] button to change the size of the sub-screen.



### 4 Press the [Enter] button to set the sub-screen display.

#### Point

- The sub-screen will be erased when the [PinP] button is pressed again.
- The computer image or video image (only component video image signals) will be displayed in the main screen, and the video image (Video, S-Video) will be displayed in the sub-screen. The video image displayed in the sub-screen can be amended with the PinP setting. (see page 67)
- Adjust the position and size of the sub-screen prior to displaying it.
- The sub-screen can be switched between five different sizes.
- When the position of the sub-screen has been amended, it will be displayed in the previously determined position the next time the Picture-in-Picture function is executed.

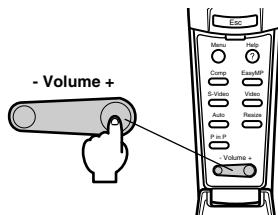
# Adjustment and Settings

This section provides explanations on adjusting the projector volume and on setup menu operations.

## ■ Volume Adjustment

The volume can be amended when sound is emitted from the projector speakers.

- 1 Press the [Volume +, -] button on the remote control.



### Point

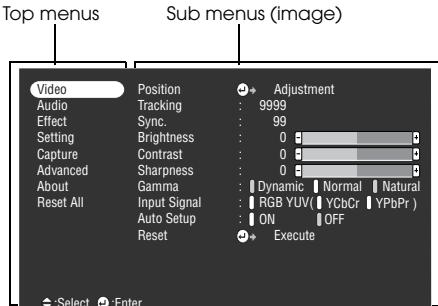
- Adjustment is not possible when no sound signals are being input.
- Adjustment is possible when outputting sound to external speakers.

# ■ Menu Configuration

The menu enables the various adjustments and settings to be made.

## Menu items

The menus are split into top menus and sub menus and consist of a hierarchy structure. Also, the image menu will differ in accordance with the input source (connected port).



## ● Menu items

Video menu · Computer



Video menu · EasyMP



Video menu · Video (Video/S-Video)



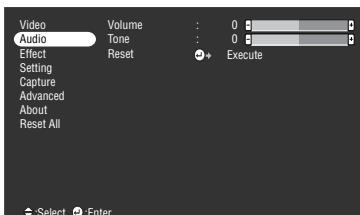
Video menu · Component



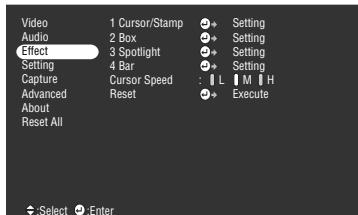
### Point

- The items displayed on the image menu will differ in accordance with the projected input source, and menus other than that belonging to the projected input source cannot be adjusted. When the input source is switched with the menu displayed as it is, the menu will be automatically switched to the one for the relevant input source.
- The image menu cannot be adjusted when no image signals are being input.

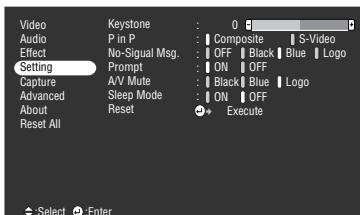
Audio menu



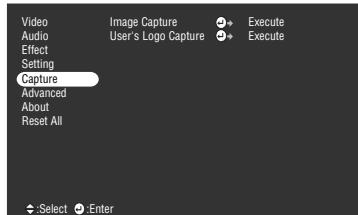
Effect menu



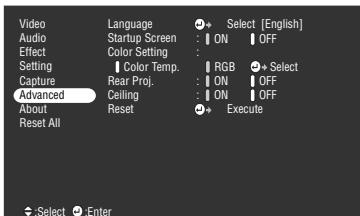
Setting menu



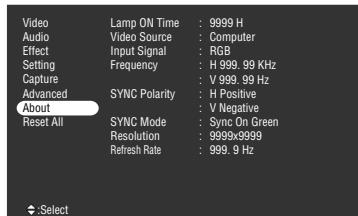
Capture menu



Advanced menu

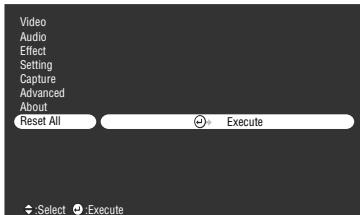


About menu



The information menu displays the setup status of the projected input source

Reset All menu



## Point

The lamp illumination time is displayed in units of 0H between 0 and 10 hours, and, in units of 1 hour above 10 hours.

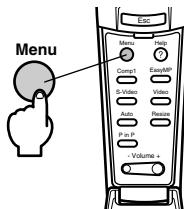
# ■ Menu Operations

The menu is operated with the remote control.

## Operation method

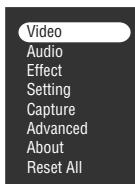
### 1 Press the [Menu] button on the remote control.

The top menu will be displayed.



### 2 Select the required item.

Move the [Enter] button on the remote control up and down to select the required item.



### 3 Set the selected item.

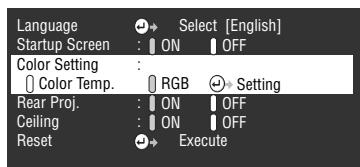
Press the [Enter] button to determine the relevant item.

The sub-menu is selected.

### 4 Then select the detailed sub item.

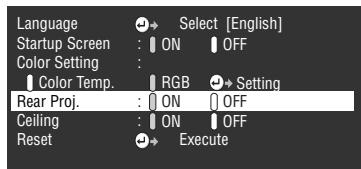
Move the [Enter] button up and down to select the required sub-item.

The items displayed on the image menu and information menu will differ depending on the input source being projected.



## 5 Select the parameter value.

Move the [Enter] button to the left and right to select the required setting.



### Point

- ↲ (Enter) is attached to the rear of the sub item names that execute the parameters and continue onto the lower hierarchies. Press the [Enter] button to set this selection, and then select the parameter setting again.
- Refer to the list of settings for further information on the function of each setting. (see [page 65](#))

## 6 Set all of the other items in the same way.

## 7 Press the [Menu] button.

The menu will end.

### Point

- Press the [Esc] button to return to the previous menu in the hierarchy.
- The items displayed on the image menu will differ in accordance with the projected input source, and menus other than that belonging to the projected input source cannot be adjusted.
- Image menus cannot be adjusted when no image signals are being input.

## Setting items

| Top Menu | Sub Menu      | Function   | Default Value                     |
|----------|---------------|--|-----------------------------------|
| Video    | Position      | Moves the position of the image display up, down, left and right. Press the [Enter] button to perform the adjustments on the display position adjustment screen.   | Depends on the connection signals |
|          | Tracking      | Adjusts vertical stripes that appear on the Computer image.  | Depends on the connection signals |
|          | Sync.         | Adjusts disturbance, blurring and vertical noise that appears on the Computer image.<br>· Disturbance and blurring may occur as a result of adjusting the brightness and contrast.<br>· It is possible to regulate the vividness of the image by adjusting the synchronization after adjusting the tracking. | 0                                 |
|          | Brightness    | Adjusts the brightness of the image.   | Center value (0)                  |
|          | Contrast      | Adjusts the contrast of the image.   | Center value (0)                  |
|          | Color         | Adjusts the strength of the color.<br>Press the [Enter] key to display the adjustment screen, and then adjust the strength of the red, green and blue.   | 0                                 |
|          | Color         | Adjusts the color depth of the image.  | Center value (0)                  |
|          | Tint          | Adjusts the tint of the image.   | Center value (0)                  |
|          | Sharpness     | Adjusts the sharpness of the image.  | Center value (0)                  |
|          | Gamma         | Corrects the color vividness of the image.<br>Dynamic: Produces an image with clear color differences. Suitable for displaying plans, etc.<br>Normal: Projects tint without correction.<br>Natural: Produces an image with natural tint. Suitable for video images.  | Normal                            |
|          | Input signals | Sets the mode for the input image signals connected to the Computer/Component Video port.<br>RGB : Set when RGB signals are being input.<br>YCbCr: Set when component video signals (YCbCr) are being input.<br>YPbPr : Set when component video signals (YPbPr) are being input.                            | RGB                               |
|          | Auto Setup    | Automatic setup: Optimizes the computer input image when set at [ON].  | ON                                |
|          | Reset         | Returns all image menu adjustment values to the default values.<br>Press the [Enter] button and then select [Yes] on the confirmation screen displayed.<br>· Select [Reset All] to return all image and sound values to the default settings. (see page 68)  | -                                 |

| Top Menu | Sub Menu     | Function  | Default Value  |
|----------|--------------|---|--|
| Audio    | Volume       | Adjusts the volume.   | 15   |
|          | Tone         | Adjusts the tone  | 0  |
|          | Reset        | Returns all sound menu adjustment values to the default values.<br>Press the [Enter] button and then select [Yes] on the confirmation screen displayed.<br>· Select [Reset All] to return all image and sound values to the default settings. (see page 68)   | -  |
| Effect   | Cursor/Stamp | Sets the shape, size, color and length of the cursor/stamp assigned to the [1] button on the remote control.<br>Press the [Enter] button and select the item to be displayed from the cursor/stamp setup menu. (depending on the selected cursor shape, size, color and length cannot be set up.)<br>· The [1] button executes the cursor/stamp function. (see page 55) | Model: <br>Zoom: 100% |
|          | Box          | Sets color, shape and the necessity of the shading for the square assigned to the [2] button on the remote control.<br>Press the [Enter] button and select the required item from the Box setup menu.<br>· The [2] button executes the Box function. (see page 56)  | Color: Green<br>Shading: No<br>Shape: Square   |
|          | Spotlight    | Sets the size of the spotlight assigned to the [3] button on the remote control.<br>Press the [Enter] button and select the required item from the spotlight setup menu.<br>· The [3] button executes the spotlight function. (see page 57)   | Size: Medium   |
|          | Bar          | Sets the color, direction and width of the bar assigned to the [4] button on the remote control.<br>Press the [Enter] button and select the required item from the bar setup menu.<br>· The [4] button executes the bar function. (see page 58)   | Color: Magenta<br>Direction: Horizontal<br>Line thickness: 8   |
|          | Cursor Speed | Selects the speed of Cursor:<br>L: Slow M:Medium H:Fast   | M  |
|          | Reset        | Returns all effect menu adjustment values to the default values.<br>Press the [Enter] button and then select [Yes] on the confirmation screen displayed.<br>· Select [Reset All] to return all image and sound values to the default settings. (see page 68)  | -  |

| Top Menu | Sub Menu            | Function  | Default Value    |
|----------|---------------------|---|------------------|
| Setting  | Keystone            | <p>Corrects screens distorted into trapezoid shapes.</p> <ul style="list-style-type: none"> <li>The screen will be reduced in size when trapezoid correction has been performed.</li> <li>The status of trapezoid correction will be recorded. Perform readjustments that match the installation position when the projection position or angle have been changed.</li> <li>Reduce the sharpness if blurring occurs after trapezoid correction. (see page 65)</li> </ul>  | Center value (0) |
|          | P-in-P              | <p>Sets the input source for the P in P function's sub-screen.</p> <ul style="list-style-type: none"> <li>The P in P function is executed by pressing the [PinP] button. (see page 59)</li> </ul>   | Composite        |
|          | No-Signal Msg       | <p>The status for [No Image Signal Input] and other message display.</p> <ul style="list-style-type: none"> <li>The user logo must be registered and set up before it can be amended.</li> </ul>  | Blue             |
|          | Prompt              | Sets whether to display the input source on the screen or not.  | ON               |
|          | A/V Mute            | <p>Sets up the screen status for when the [A/V Mute] button is pressed.</p> <ul style="list-style-type: none"> <li>User logos must be registered and set up before they can be amended.</li> </ul>  | Black            |
|          | Sleep Mode          | <p>Sets the energy-saving function for when no image signals are being input. When this is set at [ON], projection will be automatically ended and the projector will enter the sleep mode if no image signals are input and no operations are performed for a period of thirty minutes (the operation indicator will be illuminated in orange).</p> <p>Press the [Power] button to restart projection.</p>   | ON               |
|          | Reset               | <p>Returns all setting menu adjustment values to the default values.</p> <p>Press the [Enter] button and then select [Yes] on the confirmation screen displayed.</p> <ul style="list-style-type: none"> <li>Select [Reset All] to return all image and sound values to the default settings. (see page 68)</li> </ul>   | -                |
| Capture  | Image capture       | <p>Saves the image currently being projected in the memory card. Press the [Enter] button and perform the operations as directed with the confirmation screen displayed. (see page 69)</p> <ul style="list-style-type: none"> <li>A certain amount of time is required for the saving process.</li> </ul>   | -                |
|          | User's Logo Capture | <p>Registers user logos. (see page 71)</p> <p>Press the [Enter] button and follow the instructions displayed on the confirmation screen.</p> <ul style="list-style-type: none"> <li>The saving procedure requires a certain amount of time to complete. Do not attempt to operate the projector or the equipment connected to the projector while this procedure is running. Failure to observe this may result in damage.</li> <li>The size that can be registered is 400 x 300 dots.</li> <li>The display size will be adjusted when video images are being projected.</li> </ul> | Epson's logo     |

| Top Menu  | Sub Menu       | Function  | Default Value     |
|-----------|----------------|---|-------------------|
| Advanced  | Language       | Sets the language with which messages are to be displayed.<br>Press the [Enter] button and select the required language from the language selection menu displayed.   | English           |
|           | Startup Screen | Displays the user logo during warm-up after the power has been switched on.<br>· The user logo must be registered and set up before it can be amended.  | ON                |
|           | Color Setting  | Adjusts the color temperature (*) of the image.<br>Color temperature: Sets the color temperature.<br>Press the [Enter] button and make the setting on the color setup menu displayed.<br>RGB: Sets the strength of the RGB colors (red, green and blue.)<br>· Press the [Enter] button, select the R (red), G (green) and B (blue) items on the color setup menu displayed, and then make the necessary setting.<br>· Observe the status of the screen when adjusting the settings. | Color temperature |
|           | Rear Proj.     | Set at [ON] to project images onto a half-transparent screen from the rear. The projected image will be inverted.   | OFF               |
|           | Ceiling        | The projected image will be inverted up, down, left and right when this is set at [ON].   | OFF               |
|           | Reset          | Returns all advanced setting menu adjustment values to the default values.<br>Press the [Enter] button and then select [Yes] on the confirmation screen displayed.<br>· Select [Reset All] to return all image and sound values to the default settings.  | -                 |
| About     |                | (Displays the current settings)   | -                 |
| Reset all | Execute        | Returns all items in the set-up menus to the default values.<br>Press the [Enter] button and then select [Yes] on the confirmation screen displayed.<br>· Execute the [Reset] function from each individual sub menu to return the image and sound settings to the default values for each menu.<br>· The User's Logo Capture, Lamp ON Time, language and BNC settings cannot be restored to the default values.  | -                 |

- The image menu and information displayed will differ in accordance with the projected input source, and Menus other than that belonging to the projected input source cannot be adjusted.
- The information menu displays the status of the input source settings being projected.

## Image capture

The image currently being displayed will be saved onto the memory card.

**1** Displays the images that are to be captured.

**2** Press the [Menu] button and then select [Capture] - [Image Capture].

A confirmation screen will be displayed.



**3** Select [Yes] and then press the [Enter].

A screen to reconfirm the image to be registered will be displayed.



**4** Select [Yes] and then press the [Enter].

The image will be saved. Wait for a moment until the saving completion screen is displayed.



---

**Point**

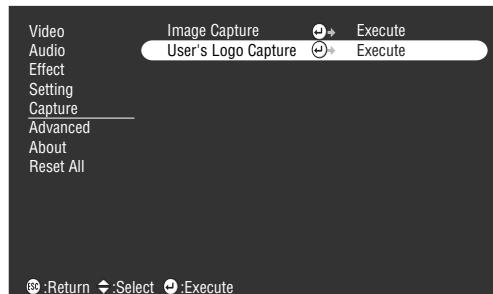
- A certain amount of time is required for the saving process. Do not operate the projector or connected equipment while saving is in progress. Failure to observe this may result in defects.
- Images cannot be saved if the memory card has not been inserted.
- Do not remove the memory card while images are being saved.
- A [Capture] folder will be created on the memory card when an image has been captured, and the contents of that screen will be saved in the jpg format.
- Images cannot be captured when a USB connection has been established with the computer.
- Images cannot be captured if the memory card has not been inserted.
- EasyMP images cannot be captured.

---

## User logo registration

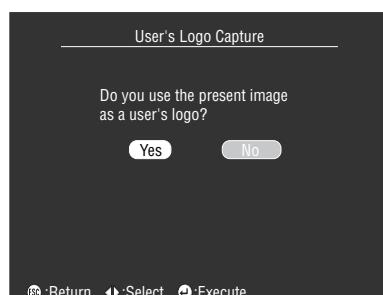
Registers the images currently displayed as the user logo.

- 1 Displays the image that is to be registered as the user logo.
- 2 Press the [Menu] button and select [Capture]-[User's Logo Capture].  
A confirmation screen will be displayed.



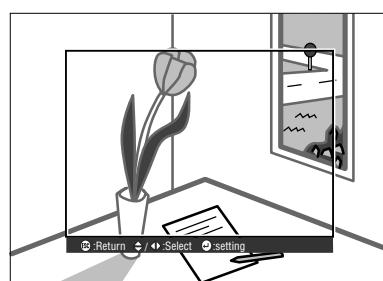
- 3 Select [Yes] and then press the [Enter].

A screen to save will be displayed.



- 4 Adjust the position of the image then press the [Enter].

A confirmation screen will be displayed.



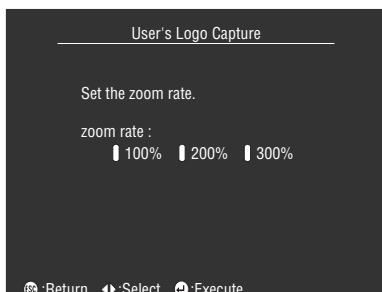
## 5 Select [Yes] and then press the [Enter].

The enlargement/reduction screen will be displayed.



## 6 Select the enlargement/reduction rate and then press the [Enter].

A screen to confirm saving will be displayed.



## 7 Select [Yes] and then press the [Enter].

The image will be saved. Wait for a moment until the saving completion screen is displayed.



### Point

- A certain amount of time is required for the saving process. Do not operate the projector or connected equipment while saving is in progress. Failure to observe this may result in defects.
- The image size that can be registered is 400 x 300 dots.
- The display size will be amended when the video image is being projected.
- It is not possible to return the user logo to the default settings once it has been registered.

# Using the EasyMP Function

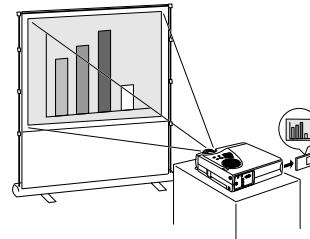
This section provides explanations on the EasyMP functions that enable the contents of memory cards to be confirmed and scenarios to be created and played back.

## ■ Function description

The following functions are available for use with EasyMP

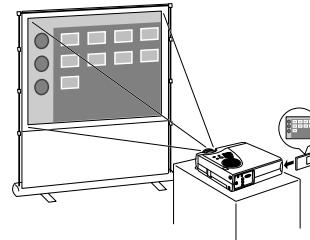
### ● Image capturing

It is possible to save projected computer images and video images onto a memory card in the jpg format.



### ● Browsing memory card files

It is possible to display a list of the folders and files contained in the projector's memory card in order to verify the captured images and scenarios stored on the memory card.



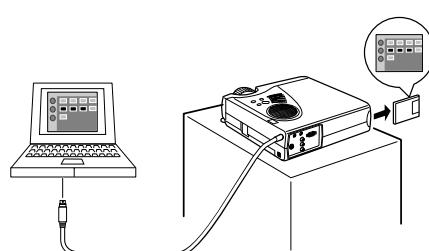
### ● Replayng scenarios

It is possible to replay the scenarios stored on the projector's memory card. The playback sequence and settings for displaying or not displaying screens can also be amended.

- Scenarios can be created with the special [EMP Slide Maker] software beforehand on the computer in use.

### ● Computer and USB connections

It is possible to connect the projector to computers with a USB cable to allow the operation of files contained in the memory card.



# ■ Inserting the memory card

A memory card is required when using the EasyMP functions.

## ● Memory cards that can be used

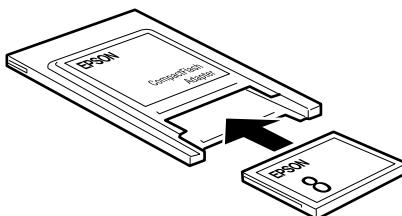
The following memory cards which are compatible with the Type II ATA standard can be used.

- Compact flash (a PC card adapter is required during mounting)
- Smart media (a PC card adapter is required during mounting)
- Memory stick (a PC card adapter is required during mounting)
- ATA flash card
- Micro drive (a PC card adapter is required when mounting.)

## ● Method of insertion

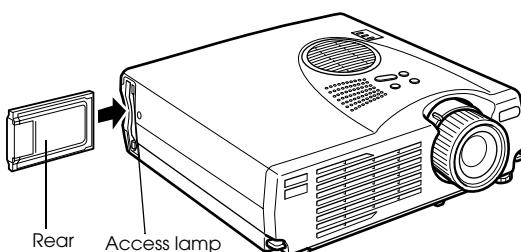
### 1 Set the memory card in the card adapter.

Refer to the card adapter's instruction manual for details on the direction it should be inserted.



### 2 Insert the memory card set in the card adapter into the projector's PCMCIA card slot.

Insert the card firmly to the back, as shown in the illustration.



#### Point

- The card will not be able to be inserted to the back if it is inserted back to front. Do not apply excessive force in this case.
- The access lamp for the PCMCIA card slot will change as follows:
  - Extinguished: Access not achieved or the card has not been inserted.
  - Illuminated in orange: Access achieved.(Do not remove the memory card while it is being accessed.)
  - Illuminated in red: A non-usuable card has been inserted.
- FAT12/16 formatted memory cards can be recognized.
- Depending on the manufacturer, there are smart media adapters that are write-protected and malfunction when an attempt is made to write in them. Ensure that the write-protect has been released prior to using smart media.

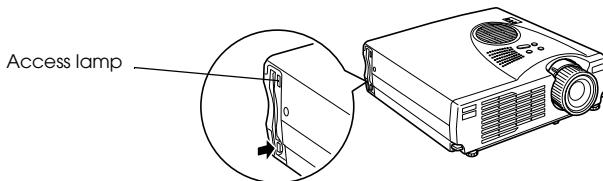
## ● Removing the card

### Point

- Do not remove the memory card when the access lamp is illuminated in orange, or when scenarios are being played back.
- Replace the memory card with a dummy card to prevent dust and dirt from entering the slot.

### 1 Press the button on the left-hand side of the PCMCIA card slot.

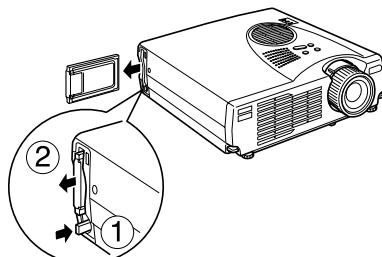
The button will protrude.



### 2 Press the button on the left-hand side of the PCMCIA card slot once more time.

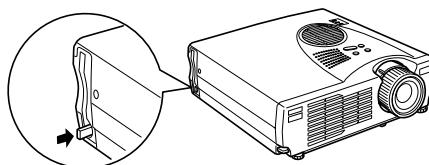
The memory card will be pushed out. Remove the card at this point.

Remove the memory card from the card adapter if necessary.



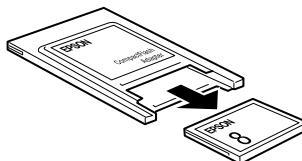
### 3 Press the button on the left-hand side of the PCMCIA card slot if it is protruding.

This will restore the button in its original place.



### 4 Remove the memory card from the card adapter if necessary.

Refer to the card adapter's instruction manual for details on removing the memory card.



# ■ Viewing EasyMP files

It is possible to view the folders and files stored on the memory card with EasyMP.

It is possible to display a list of files contained within the memory card inserted in the projector, and enlarge each image for confirmation purposes (preview).



The preview function can be used on the following image formats:

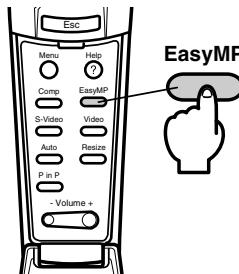
- jpg files saved with the capture function.
- jpg files saved during scenario creation.
- SXGA (1024 x 1280) or lower bitmap (bmp) files.
- SXGA (1024 x 1280) or lower jpg files (excluding certain special jpg formats).

## Point

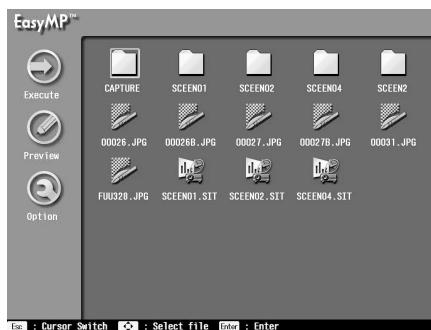
- Only 24-bit color bmp files can be viewed with the preview function. 256 color files cannot normally be displayed.
- There are cases where jpg files saved with digital cameras and other software cannot be previewed.
- Displays is not possible when the extension log is [jpeg].
- The capture function is executed with the [Image Capture] function on the projector's capture menu. ([see page 69](#))
- Create scenarios with the special [EMP Slide Maker] software beforehand on the computer in use. ([see page 87](#))
- Due to the characteristics of jpeg files, if the compression ratio is high, the image may not be very sharp when it is displayed.

## Switching projected images across to EasyMP

1 Press the [EasyMP] button on the remote control.



The projected image will switch across to a list of EasyMP files, and the contents of the memory card will be displayed.



### Point

- A message stating [No Memory Card] will be displayed when no memory card has been inserted. The EasyMP functions cannot be used in this event.
- Scenario files that have been saved on the memory card as auto-run files will be automatically played back.(see page 92)
- The screen will automatically switch across to the EasyMP screen and the scenario replayed if a memory card containing a scenario file that has been setup on-line is inserted in the projector, even when the projector is displaying other image sources (computer, video).

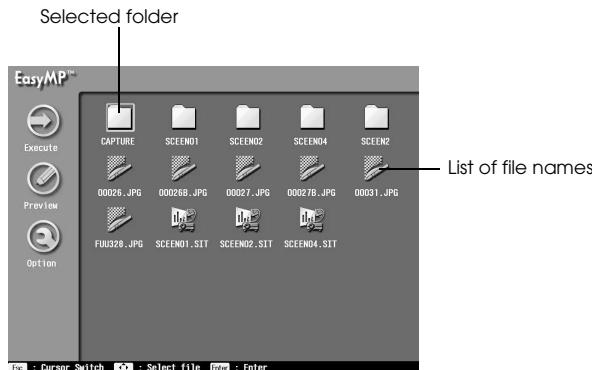
## Operations on the file list display

### ● Basic operations

The contents of folders and files can be verified with the EasyMP file list display function. The required folder or file is selected with the [Enter] button on the remote control.

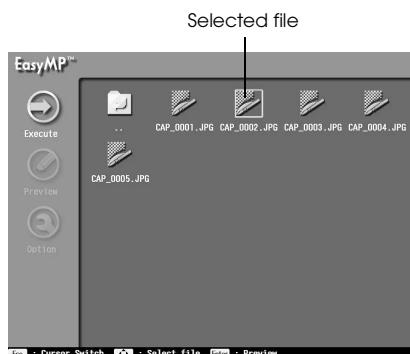
#### 1 Align the cursor with the required folder, and then press the [Enter] button.

The files contained within that folder will be displayed.



#### 2 Align the cursor with the required file, and then press the [Enter] button.

This will select the relevant file and provide a preview of displayable files.



#### Point

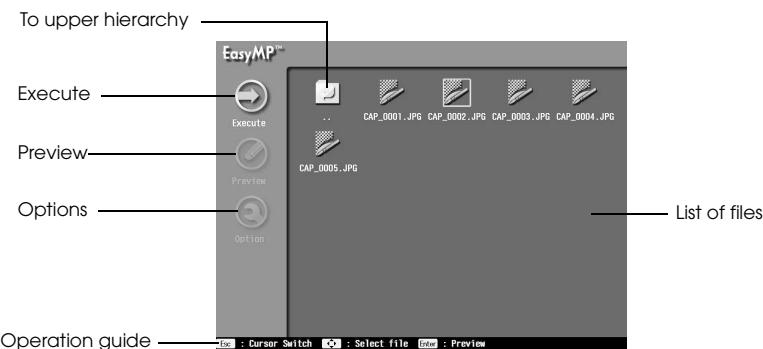
- The preview screen will also be displayed if the [Execute] icon on the left-hand side is pressed after the cursor has been aligned with the relevant file. Press the [EasyMP] button to move across to the menu on the left-hand side.
- Press the [EasyMP] button to update the display to the latest information.

### 3 Press the [ESC] button when the preview is being displayed.

The preview will end and the screen will return to the list of files.



## ● Functions available on the file list display screen



|   |  |
|---|--|
| [Execute]                               | Shows a preview of the selected file. When a folder has been selected, the files contained within that folder will be displayed.   |
| [Preview]<br><u>(see page 80)</u>       | When a scenario folder has been selected, a preview of the scenario image files contained in that folder is shown. If the [Execute] button is then pressed, the files are enlarged and then shown in sequence. <ul style="list-style-type: none"><li>Operations are not possible when an image file has been selected.</li><li>The icon will change to [Edit Scenario] when a scenario file has been selected.</li><li>A list of file icons will be displayed for files other than scenario image files.</li></ul> |
| [Edit Scenario]<br><u>(see page 83)</u> | Switches the sequence of the scenario and sets the display/non-display status for the files. <ul style="list-style-type: none"><li>Only displayed when a scenario file has been selected.</li></ul>  |
| [Options]<br><u>(see page 81)</u>       | Sets the display conditions for enlarging and displaying files from the preview list when a folder has been selected. Only the repeat condition can be set when a scenario has been selected.  |
| To upper hierarchy                      | Returns to the folder list on the next higher hierarchy.   |
| Operation guide                         | Provides information on the operations that can be performed on this screen.   |

## Point

It is possible to browse through the memory card from a computer that has a USB connection when the file list is being displayed. (see [page 94](#))

### ● List preview for each folder

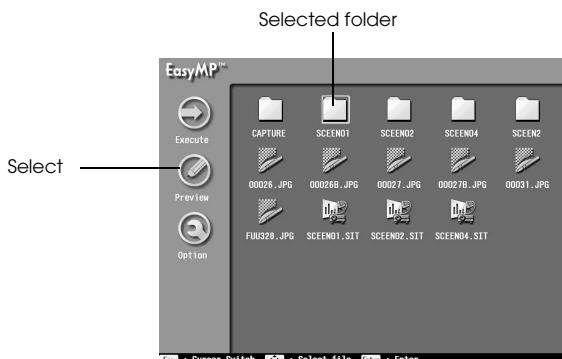
It is possible to show a preview list of files contained within a folder with the file list display.

#### 1 Align the cursor with the required folder, and then press the [Esc] button.

The folder will remain selected and the menu on the left-hand side will be enabled for use.

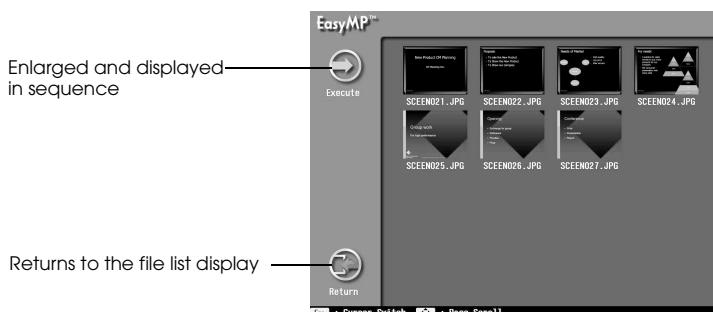
#### 2 Align the cursor with [Preview], and then press the [Enter] button.

A preview list of the files contained within the folder will be displayed.



#### 3 Check the files

Press the [Return] button on the preview list display to return to the file list display. Select [Execute] on the preview list display to enlarge and display a preview of the files one-by-one. Press the [Enter] button when a file has been enlarged and displayed to proceed to the next file. Press the [Esc] button to return to the previous file (this will differ depending on the optional settings). Press the [EasyMP] button to end the display.



## Point

- Press the [Esc] button if the cursor is not on the left-hand side of the menu.
- Files that cannot be previewed will be displayed as file icons.
- The display conditions for enlarging and displaying are set on the [Options] screen. (see [page 81](#))

## ● Setting up the display conditions

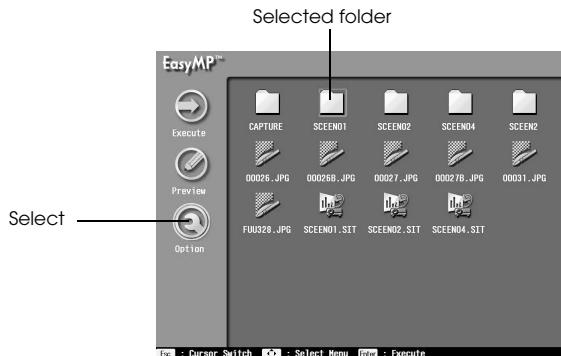
This sets up the list preview and scenario playback display conditions.

### 1 Align the cursor with the required folder or scenario, and then press the [Esc] button.

The folder or scenario will remain selected and the menu on the left-hand side will be enabled for use.

### 2 Align the cursor with [Options], and then press the [Enter] button.

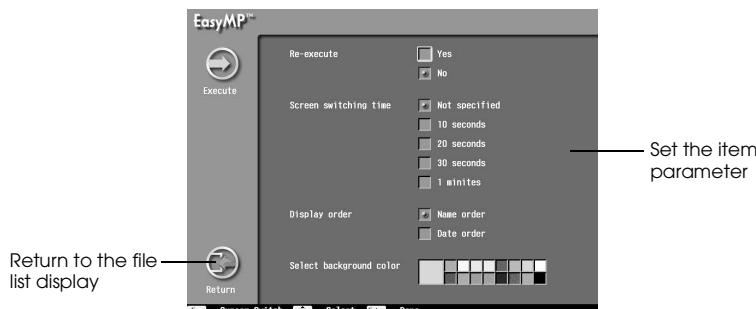
The display condition setup screen will be displayed.



### 3 Set up the relevant items

Select the parameter for the required item, and then press the [Enter] button to enable modification.

The files will be enlarged and displayed one-by-one if the [Execute] button is selected on this screen.



|                         |  |
|-------------------------|--|
| Re-execute              | Sets whether to repeat enlargement and display or not.<br>* Only this item will be displayed when a scenario file has been selected.                                 |
| Screen switching time   | Sets the amount of time before proceeding to the next screen. When this parameter is not specified, the next screen is displayed when the [Enter] button is pressed. |
| Display order           | Sets the sequence in which the files are to be displayed.  |
| Select background color | Sets the color of the background to be displayed.  |

# ■ Operating scenarios

It is possible to play back scenarios stored in the memory card.

## Playing back scenarios

### 1 Press the [EasyMP] button on the remote control to switch across to EasyMP images.

The projected image will switch across to a list of EasyMP files, and the contents of the memory card will be displayed.

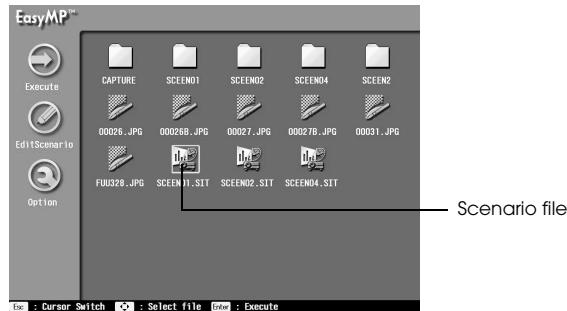
#### Point

- Create scenarios with the special [EasyMP Software] software beforehand on the computer in use. (see page 87)
- Scenario files that have been saved on the memory card as auto-run files will be automatically played back from this screen.

### 2 Align the cursor with the scenario file to be played back, and then press the [Enter] button.

The scenario will be played back. The screen will automatically return to the file list display after the playback has been completed (the playback will be repeated if set for repeat).

Although the preview will proceed in accordance with the conditions set for the scenario, it is possible to proceed to the next screen by pressing the [Enter] button or return to the previous screen by pressing the [Esc] key. Press the [EasyMP] button to end the playback.

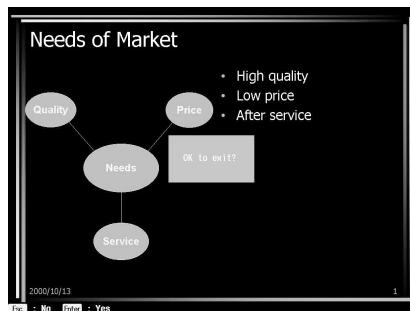


#### point

It is not possible to advance to the next screen with the [Enter] button or return to the previous screen with the [Esc] button after the scenario source being executed has been switched with the [Source Control] function in the scenario file.

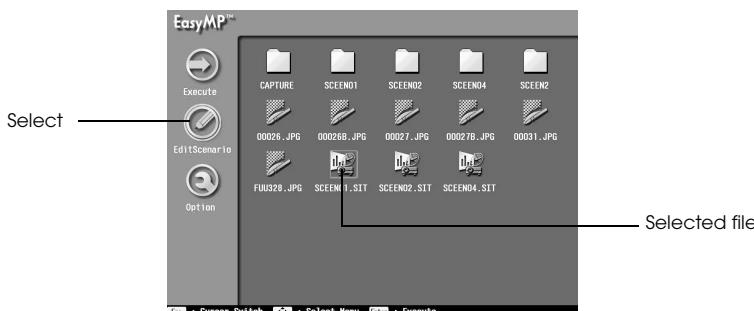
### Point

- The playback conditions must be set at the time of creation, but the playback sequence and display/non-display parameters can be amended with the [Edit Scenario] button. (see [page 83](#))
- A confirmation message will be displayed when the [Easy/MP] button is pressed during scenario playback. Press the [Enter] button one more time to end playback.



## Editing scenarios

- 1 Align the cursor with the required scenario file on the file list display, and then press the [Esc] button.  
The file will remain selected and the menu on the left-hand side will be enabled for use.
- 2 Align the cursor with [Edit Scenario], and then press the [Enter] button.  
A preview of the files contained within the scenario will be shown.

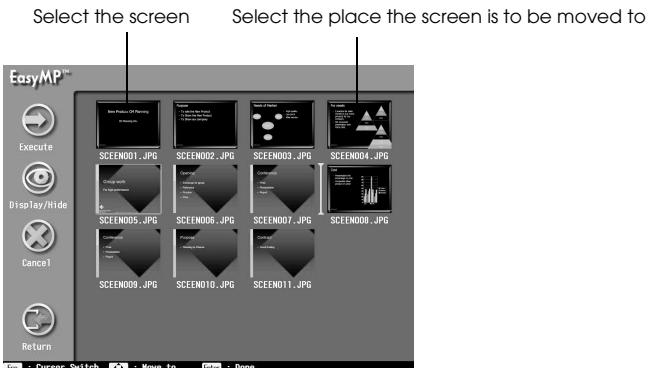


### Point

Select [Options] to amend the repeat setting. (see [page 81](#))

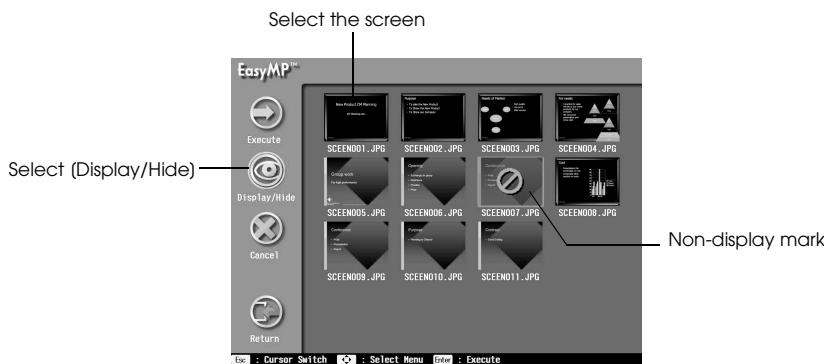
### 3 Perform the following procedure to amend the sequence.

- (1) Align the cursor with the screen to be moved, and then press the [Enter] button.
- (2) Align the cursor with the place the screen is to be moved to, and then press the [Enter] button.



### 4 Perform the following procedure to prevent a selected screen from not being displayed during playback.

- (1) Align the cursor with the screen that is not to be displayed, and then press the [Esc] button.
- (2) Align the cursor with [Display/Non-Display], and then press the [Enter] button.  
A disabled mark will be attached to screens that have been set for non-display.



## 5 Align the cursor with [Return] and then press the [Enter] button.

The results of editing will be automatically saved in the scenario, and the screen will return to the list of files.

Select [Cancel] if the details are not to be saved.



### Point

The scenario will be played back with the edited conditions when [Execute] is selected. The results of editing will be automatically saved in this case.

# ■ Creating scenarios

Scenarios are created with the special [EasyMP software] software.

## Install the EasyMP Software

### ● Operating environment

Check to ascertain that this software can be operated on the computer in use.

|                          |   |
|--------------------------|---|
| Computer                 | Computers that operate on Windows 95/98/NT4.0/2000/Me platforms |
| CPU                      | Pentium 166MHz or higher (Pentium II 300MHz is recommended)     |
| Memory capacity          | 32 Mbyte or more (96MB or more is recommended)                  |
| Required hard disk space | 12 MB or more   |
| Display                  | Resolution of VGA (640 x 480) or higher                         |

### ● Installation

Windows 98 screens are used here for explanatory purposes, but the procedures are the same with Windows 95.

#### 1 Start up Windows and set the EasyMP Software CD-ROM in place.

The set-up program will automatically start.

##### Point

If the setup program will not start, open the [Specify and execute files] dialog box with [Start] - [Specify and execute files], and then execute [CD-ROM Drive name: \SETUP].

#### 2 Select the language and then click on the [OK] button.

The installation procedures will commence. Follow the instructions on all subsequent screens to proceed with the process.



##### Point

Select [EMP SlideMaker] with [Settings] - [Control Panel] - [Add and Delete Applications], and then execute [Add and Delete] to uninstall the program.

## Creating scenarios

It is possible to create image scenarios that combine several Microsoft PowerPoint (97 or above) and image files for presentation purposes with the use of [EasyMP Software].

### Point

- Supports both PowerPoint 97 (SR-1 or higher) and PowerPoint 2000 (PowerPoint 2000 is recommended).
- Ensure that the PowerPoint data and image files to be used have already been created.
- The animation effects set up with PowerPoint will be disabled. If these effects are to be enabled when switching between screens, make the relevant setting on the [Cell Property].
- Created scenarios can be played back with the projector's EasyMP function. ([see page 82](#))

### 1 Specify [Start] - [Programs] - [EMP SlideMaker] - [EMP SlideMaker].

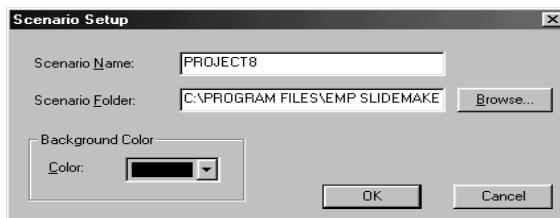
The EasyMP Software software will start up.

### 2 Specify [File] - [Create New].

A scenario setup dialog box will be displayed.

### 3 Enter the various items for setting up the scenario, and then click on the [OK] button.

A new scenario window will be displayed.



|                  |  |
|------------------|--|
| Scenario name    | The name of the scenario. This must be entered without fail. Ensure that the number of characters used for the work folder and the scenario name do not exceed 127 characters. Upper-case alphabet characters and numerals can be entered. |
| Scenario folder  | Specifies the place inside the computer that the created scenario is to be saved.  |
| Background color | Specifies the color of the background to be displayed during scenario playback.  |

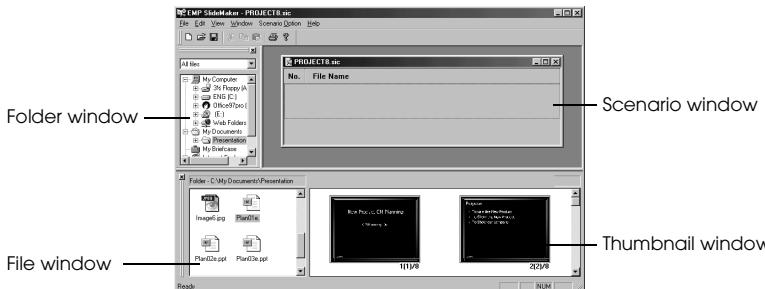
### Point

A folder with the scenario name will be created inside the work folder when a new scenario is created.

#### 4 Specify the document folder to be added to the scenario with the folder window on the left.

A list of files will be displayed in the file window at the bottom left-hand side of the screen.

When PowerPoint files have been selected, each page will be displayed in thumbnail windows.

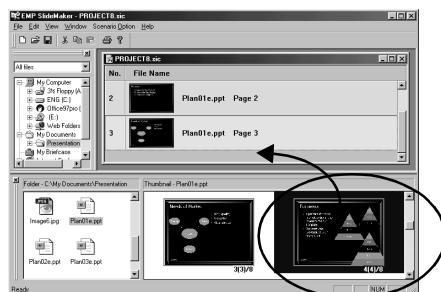


##### Point

Only thumbnails that have been created with PowerPoint 97 or above can be displayed. Display is also not possible if PowerPoint has not been installed on the computer. PowerPoint is started up when thumbnails are displayed.

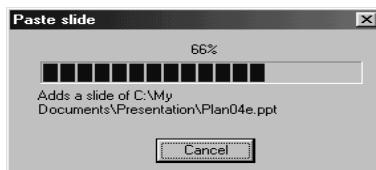
#### 5 Drag the files and pages that need to be added across to the scenario window.

Drag the file from the file window on the bottom left-hand side. Drag the PowerPoint page from the thumbnail window on the bottom right-hand side. The selected files and pages will be added to the scenario.



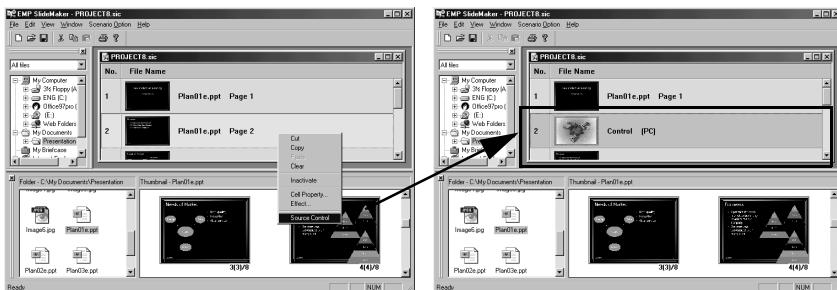
##### Point

- If the entire contents of a single PowerPoint file are to be included in the scenario, drag the relevant file on top of the [EMP Slide Maker] icon.
- The following screen will be displayed when the addition procedure is taking time.



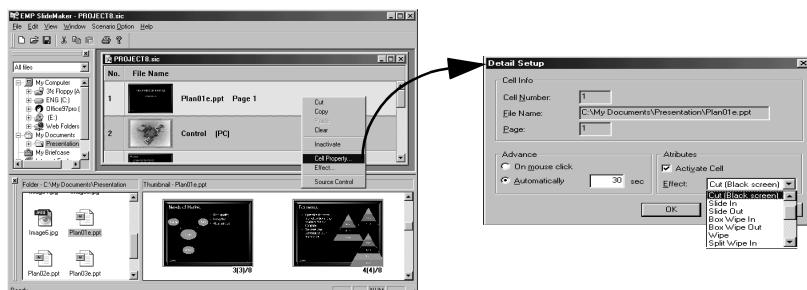
## 6 Follow the same procedure to add required items to the scenarios.

When it is necessary to switch across to other source images, such as computer images or video images, during the scenario playback, click on the right-hand mouse button at the relevant line and specify [Source Control] to insert a control line that will switch the display. The PC (computer images) will be displayed when inserted, but this can be amended with the [Cell Property] (procedure #7).



## 7 When it is necessary to amend the projection time or add display effects, click on the right-hand mouse button at the relevant line and specify [Cell Property] to allow the setup with a detailed setting dialog box.

The detailed setting dialog box will be displayed.



|               |  |
|---------------|--|
| Advance       | The amount of time for switching screens can be set between 15 seconds and 1,800 seconds. Switching can be performed manually by pressing the [Enter] button during playback.  |
| Activate Cell | This is displayed when it has been ticked. It will not be displayed if the tick is removed, and a disabled mark will be attached to that line. (The same setting can be achieved by clicking on the right-hand mouse button at the relevant line and specifying [Activate (Inactivate)]).  |
| Effect        | It is possible to specify animated and other screen switching effects when switching between screens. An example of these effects is shown below. The effect displays can be specified for multiple lines at the same time. Other lines can be selected by clicking on them while pressing the [Ctrl] or [Shift] keys.<br>Slide In/Out: Switches the images from the left or right.<br>Box Wipe In/Out: Switches the images from the outside or from the inside.<br>Random |

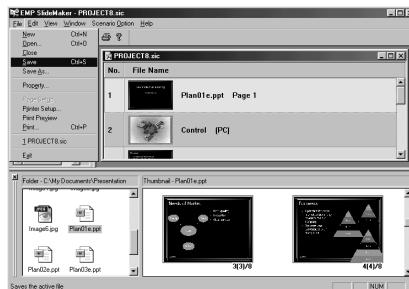
## Point

- It is possible to select the switching source when control lines have been inserted with the source switching function.
- It is possible to set effect functions to be enabled during playback by clicking on the right-hand mouse button and specifying [Cell Effect]. The effect functions are activated with buttons [1] to [5] on the remote control.
- When rearranging the order of the scenario, drag the relevant lines on the scenario window.
- When switching between display/non-display of the scenario sequence, it is also possible to make the amendment with the projector after transmission. (see page 83)

## 8 Specify [File] - [Save].

The created scenario will be saved.

Select [Save as] and then enter the required name if the scenario is to be renamed.



## Point

- Scenarios cannot be transmitted before they have been saved.
- A file with the [scenario.sic] name and the jpeg data for each screen will be saved in the scenario folder located inside the work folder when the scenario is saved. All PowerPoint pages will be converted to the jpg format at this point.
- Refer to the help functions for further details on each of the [EMP Slide Maker] menu functions.

## Transmitting scenarios

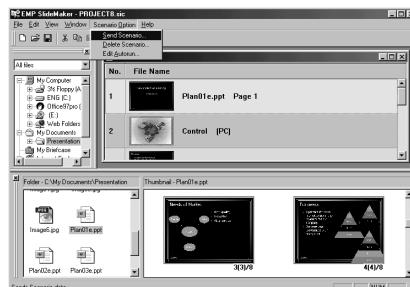
It is necessary to transmit created scenarios to the memory card for projection purposes.

### 1 Set the memory card in the computer.

Set the memory card in a card adapter if necessary.

### 2 Specify [Scenario Option] - [Send Scenario].

The forward scenario dialog box will be displayed.



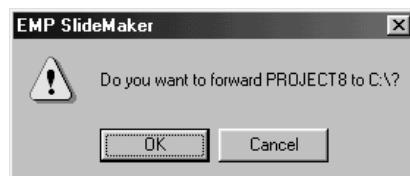
### 3 Specify the drive in which the memory card is set, and then click on the [OK] button.

A confirmation message will be displayed.



### 4 Click on the [OK] button.

Transmission will be started. A message for confirming the auto-run setting will be displayed when transmission has been completed.



## 5 Click on the [Yes] button.

Click on the [Yes] button and proceed onto the following procedures if the auto-run and repeat functions are to be set.

Click on [No] if these functions do not need to be set. Operations will be ended if [No] is clicked.

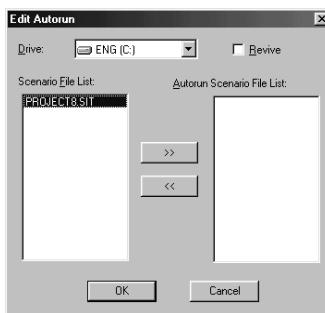


## 6 Amend the settings and then click on the [OK] button.

When the auto-run parameter is to be set, select the relevant scenario from the box on the left-hand side, and then click on the [>] button.

The scenarios specified for auto-run will be displayed in the box on the right-hand side. When the repeat parameter is to be set, select the relevant scenario from the box on the left-hand side, and then add a tick to the [Execute Repeat] field.

Click on the [OK] button to terminate operations.



### Point

- If memory cards on which scenario files that have been set as auto-run files are inserted in the projector, the scenario files will be automatically played back when EasyMP function is started up .
- The auto-run parameter can also be set by selecting [Scenario Operations] - [Edit Auto-run] after the scenario has been transmitted.
- The auto-run setting cannot be specified from the projector.
- When two or more files have been specified with the auto-run setting, they will be executed in the order in which they were registered in the auto-run scenario file list.
- It is possible to transmit created scenarios directly to a memory card inserted in the projector when the computer and projector are connected with a USB cable. (see page 93)
- The scenario file will be saved under the name of [scenario-name.sit] on the memory card when it is transmitted to the projector. These [.sit] files cannot be edited with the computer's SlideMaker.
- Images for projection purposes will be saved in the scenario folder as jpg files (images files) and jps files (thumbnails).

# ■ Connecting up computer with USB cables

By connecting the computer and projector together with an USB cable, it is possible to view the contents of the memory card inserted in the projector from the computer.

## Point

The computers that can be connected to the projector with a USB connection and used are restricted to those that operate on the Windows 98, Me and 2000 platforms.

Install the USB driver into the computer to be used if the projector is to be connected to a computer with a USB connection and a memory card used. The following differences exist with the driver to be installed depending on the OS in use.

- Windows 98

Refer to #2 and subsequent procedures below to install the USB driver registered on the EasyMP Software contained on the CD-ROM provided.

- Windows Me

Install either the USB driver provided as standard with the OS, or the USB driver registered on the EasyMP Software contained on the CD-ROM provided with the projector. If the USB driver provided as standard with the OS has already been installed, it is not necessary to install the USB driver provided with the projector. The USB cable can be connected up and used without making any amendments.

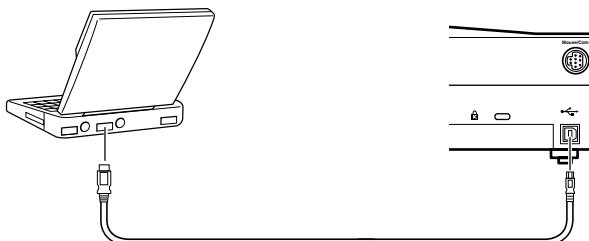
- Windows 2000

Install the USB driver provided as standard with the OS. The USB driver provided with the projector cannot be used.

---

## Connections and installation of the USB driver

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



### 2 Installs the USB driver. Switch on the power supply to the projector, start up Windows on the computer, and set the EasyMP software CD-ROM in place.

[Add New Hardware Wizard] will be displayed on the computer screen. The setup program will be started up automatically.

## Point

[Add New Hardware Wizard] will be displayed during procedure #1 if the USB cable is connected with a bi-directional power supply.

- 3** The [Add New Hardware Wizard] and the setup program can be ended with [Cancel].
- 4** Open the [Specify and Execute File Name] dialog box with [Start] - [Specify and Execute File Name].
- 5** Enter [CD-ROM drive name:\USB-Driver\Win98\language\Disk1\Setup] in the [Open] field, and then click on [OK].

Installation will commence. Proceed with all subsequent procedures by observing the on-screen instructions.



**Point**

Execute [Program Files\EMP Series\Easympun.exe] to uninstall the program.

---

## Browsing the memory card from the computer

When the computer is connected to the projector with a USB cable and the required drivers have been installed, the projector's memory card will be displayed as if it were a computer driver.

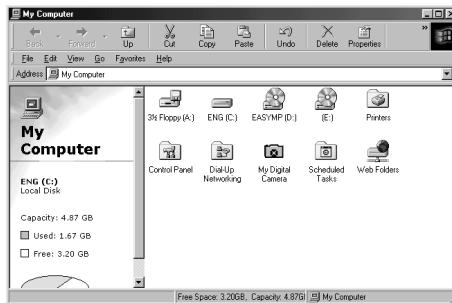
- 1** Displays the projector display as a file list.



- 2** Double-click [My Computer] on the computer.  
[My Computer] will open.

### 3 Select the added drive.

All subsequent operations are the same as Windows file operations.



#### Point

- You cannot connect to Macintosh. Do not transfer or connect to Macintosh, as it might cause a data crush.
- Projector memory card operations from a connected computer are only possible when the projector display is displayed as a file list.
- Operations are not possible when the projector's memory card is being accessed.

Pay attention to the following when a USB connection has been established.

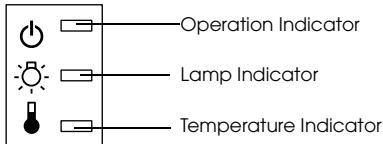
- Do not remove the memory card or unplug the USB cable when the access lamp is blinking. Failure to observe this may result in damage to the memory card or malfunctions on the computer.
- Confirm that the access lamp has been extinguished before selecting [Yes] (or [No] to return the system to the original status) when the Abort USB Access message is displayed. Failure to observe this may result in damage to the memory card or malfunctions on the computer.
- Do not perform access from the computer after the Abort USB Access message has been displayed. Access will be possible after the screen has returned to the file selection screen.
- Select [Disconnect Removable Devices] when removing memory cards on the Windows 2000/Me platforms.
- The image capture function cannot be used during USG connections.

# Troubleshooting

This section provides explanations on potential problems and the methods of taking care of them.

## ■ Troubleshooting

When you think you have a problem, first of all check the Indicators on the projector. The projector is fitted with Operation Indicator, Lamp Indicator and Temperature Indicator to advise the user of the projector's status.



## Operation Indicator

| Indicator Status      | Cause                           | Recovery or Status   | Reference Page |
|-----------------------|---------------------------------|--|----------------|
| Illuminated in Orange | Stand-by status                 | (Not an error)<br>Projection will be started when the [Power] button is pressed.   | 36             |
| Blinking in Orange    | Cool-down procedure in progress | (Not an error)<br>· Wait for a moment. The account of time for the projector to cool down (cooling the lamp) will depend on the external temperature, etc.<br>· The [Power] button cannot be used during the cool-down period. This will be illuminated in orange once the cool-down process has been completed, so press the button once more then. | 45             |
| Illuminated in Green  | Projection in progress          | (Not an error)   | 37             |

| Indicator Status  | Cause                        | Recovery or Status  | Reference Page |
|-------------------|------------------------------|---|----------------|
| Blinking in Green | Warm-up in progress          | (Not an error)<br>· Wait for a moment.<br>· The green lamp will stop blinking and become illuminated once the warm-up procedure has been completed. | 37             |
| Blinking in Red   | Internal error               | Cease operations, remove the Power Plug from the socket and contact your dealer or nearest address provided at page 121 and request repairs.        |                |
| Extinguished      | The power is not switched on | The power is not switched on.<br>· Check the power cord connection.<br>· Check the power supply to the socket.                                      | 36             |

## Lamp Indicator

| Indicator Status   | Cause                                   | Recovery and Status  | Reference Page |
|--------------------|---|--|----------------|
| Illuminated in red | Time to replace the lamp.               | Replace the lamp with a new one (ELPLP14).   |                |
| Blinking in Red    | Lamp error                              | · Replace with a new lamp (ELPLP14).<br>· Check to ensure that the lamp or fan are correctly attached if the lamp has been replaced. If the lamp or fan are not correctly attached, the projector will assume the same status as if the power has not been switched on.<br>· If the lamp is broken, take care to avoid injury and contact your nearest address provided at page 121 to request repairs (images cannot be projected unless the lamp is replaced). | 111            |
| Blinking in Orange | Nearing the time for replacing the lamp | Prepare a new lamp. It is recommended that the lamp is replaced as soon as possible, as there are cases where the time for replacement is earlier than stated in the conditions of usage.  | 111            |
| Extinguished       |   | (Not an error)<br>The power has not been switched on or normal projection is in progress.  |                |

## Temperature Indicator

| Indicator Status   | Cause  | Recovery and Status   | Reference Page |
|--------------------|--|---|----------------|
| Illuminated in Red | Excessive internal temperature (overheating) | <p>The lamp goes off automatically and projection becomes impossible. Wait for approximately 5 minutes with the projector in that state. After 5 minutes has passed, pull out the power plug once, then insert it again.</p> <p>If the projector overheats, check the following 2 points and make the necessary improvements.</p> <ul style="list-style-type: none"> <li>Is the projector installed in a place with good ventilation?</li> <li>Make sure the air intake and exhaust vents are not covered, and that it is not placed up against the wall.</li> <li>Has dust accumulated in the air filter?</li> <li>If the air filter is dirty, clean it.</li> </ul> <p>When the power plug is reinserted, the projector will recover to the normal state, so press the power button and turn on the power again. If the projector overheats again even when the above measures have been taken, and when an error is displayed in the indicator when the power is turned on again, discontinue use, pull the power plug out of the receptacle and request repairs by the retail shop where you purchased it, or by the service office at the nearest address provided on page 121.</p> | 22<br>109      |
| Blinking in Red    | Internal error                               | Cease operations, remove the Power Plug from the socket and contact your dealer or nearest address provided at page 121 and request repairs.  |                |
| Blinking in Orange | High-temperature cooling in progress         | <ul style="list-style-type: none"> <li>(This is not an error, but the projector will automatically cease operating if the temperature increases any further.)</li> <li>Use the projector within the permissible temperature range of between 5 degrees Celsius and 40 degrees Celsius.</li> <li>Install the projector in a well-ventilated place and ensure that the ventilation inlet and outlet are not blocked.</li> <li>Clean the Air Filter.</li> </ul>  | 22<br>109      |
| Extinguished       |  | (Not an error)<br>The power has not been switched on or normal projection is in progress.   |                |

### Point

- Refer to the section on [When the Indicators Provide No Help] on the following page if the Indicators appear normal but the projected image is defective.
- Contact your dealer or nearest address provided at page 121 if an Indicator status not covered by the above table is apparent.

# ■ When the Indicators Provide No Help

Refer to each relevant item if the following situations arise but the indicators provide no help.

|                                     |          |
|-------------------------------------|----------|
| · The image is not projected        | page 99  |
| · No sound                          | page 106 |
| · The image is unclear              | page 103 |
| · The remote control will not work  | page 106 |
| · The image is cut up (Large)/Small | page 104 |
| · Cannot end                        | page 107 |
| · The image color is bad            | page 105 |
| · The image is dark                 | page 105 |

## The image is not projected

### ● Nothing is displayed



Nothing is displayed

#### ● Is the Lens Cover still in place?

[see page 35](#)

#### ● Has the power been switched off and then on immediately?

The [Power] button will not operate after projection has been finished (during the cooling down procedure). The [Power] button will work again after the cooling down process. Projection lamp (cooling operations: the operation indicator is illuminated in orange) has been completed.

[see page 45](#)

#### ● Is the Sleep Mode set at ON?

When the sleep mode has been set at [ON], the lamp will be automatically extinguished if no operations occur and no signals are input for a period of thirty minutes.

[see page 67](#)

#### ● Did you press the [Power] button?

[see page 37](#)

#### ● Has the brightness of the image been correctly adjusted?

[see page 65](#)

#### ● Is the system in the [A/V Mute] mode?

[see page 51](#)

Perform the reset procedure.

[see page 68](#)

#### ● Is the input image completely black?

There are cases where input images will become completely black owing to screen saves, etc.

#### ● Are image signals being input?

No message will be displayed when the [Menu] - [Settings] and [No Signal Display] parameter is set at [OFF]. Set either black or blue to display the message. Refer to each relevant item when the message is displayed.

[see page 100](#)

#### ● Perform the reset procedure.

[see page 68](#)



## ● Messages



[Not Supported]  
will be displayed

- Is the resolution of the image signal output from the computer higher than UXGA (1,600 x 1,200)?  
[see page 26](#)
- Check to ensure that the mode supports the frequency of the image signals output from the computer.  
Refer to the computer's instruction manual to discover how to amend the resolution and frequency of the image signals output from the computer.  
[see page 26](#)



[No Signal]  
will be displayed

- Have the cables been connected correctly?  
[see page 25](#)
- Has the correct image input port been selected for the connection?  
Press the [Source] buttons on the projector ([Comp], [S-Video], [Video] on the remote control) to switch the image.  
[see page 38](#)
- Has the power supply to the connected computer or video equipment been switched on?  
[see page 39](#)
- Note-type and liquid crystal type computers must output image signals to the projector.  
Image signals are not output externally simply because they are output to the LCD screen under normal conditions, so the setting must be switched to external output.  
There are models for which image signals are not output to the LCD screen when output externally.  
[see page 25](#)



A message stating  
[Error discovered  
in the EasyMP  
system] will be  
displayed.

- It is necessary to restart the system.  
Unplug the power cord from the socket, plug it in again and then switch on the power supply. If the same problem occurs again, unplug the power cord from the socket and contact your dealer or information center.



A message stating  
[No memory card]  
will be displayed.

- Has the memory card been inserted?  
Insert the memory card in the card slot (on the projector.)



A message stating  
[No displayable  
files] will be  
displayed.

- **Have displayable files be saved onto the memory card?**

The files that can be displayed with EasyMP are scenario files (.sit), jpeg files (.jpg) and bitmap files (.bmp). Other files will not be recognized.

- Although files with a log extension of .jpeg are recognized on the Widows platform as jpeg files, they are not recognized by EasyMP. Amend the log extension to .JPG or .jpg.



A message stating  
[No files] will be  
displayed.

- **Has the specified file been deleted?**

There are cases where the list of files displayed differs from the actual contents of the memory card when memory cards have been overwritten by a PC with a USB connection. Press the [EasyMP] button to update the file display.



A message stating  
[Display not  
possible] will be  
displayed.

- **Has a grayscale jpeg image been specified?**

Grayscale jpeg images cannot be displayed with EasyMP.

- **Has a progressive JPEG image been specified?**

Progressive JPEGs cannot be displayed with EasyMP.

- **Is the specified file damaged?**

There is a possibility that the contents of the jpeg file or bitmap file are incorrect. There are also cases where images taken with certain digital cameras or processed with certain software cannot be displayed.



A message stating  
[This size cannot be  
displayed] will be  
displayed.

- **Has a jpeg image with a resolution exceeding SXGA (1024 x 1280) been specified?**

Jpeg and bitmap files with a resolution that exceeds SXGA (1024 x 1280) cannot be displayed. Adjust the resolution with the EMP SlideMaker.



A message stating  
[Insufficient image  
file colors] will be  
displayed.

- **Has a bitmap with a color count other than 24-bit color been specified?**

Bitmap with a color count other than 24-bit color (256 colors, 16 color, etc.) cannot be displayed. Amend the bitmap to 24-bit color.



- **Is the memory card full?**

If there is no more space left to save files, increase the capacity of the memory card by deleting other files.

A message stating  
[File cannot be  
saved] will be  
displayed.

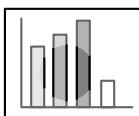


- **Was an image captured while the computer was connected with a USB connection?**

It is not possible to capture images when a USB connection is in use.  
Disconnect the USB cable.

A message stating  
[Capture failed]  
will be displayed.

## The image is unclear



- The screen is blurred.
- Focus can only be attained in certain areas.

- **Has the lens been stored in the projector?**

Images will be out of focus if the position of the zoom lever is outside of the [W] to [T] range. Ensure that the lever is set within the [W] to [T] range.

- **Has the focus been set correctly?**

[see page 46](#)

- **Has the projection angle been increased by adjusting the feet?**

There are cases where the vertical focus is difficult to align if the projection angle is too large.

- **Is the projection distance suitable?**

The recommended projection distance range is between 1.1m and 13.9m. Locate the projector within this distance range.

[see page 23](#)

- **Is the lens soiled?**

[see page 24](#)

- **Is the projection light shining at right angles onto the screen?**

[see page 109](#)

- **Is the lens fogged?**

Condensation will form on the surface of the lens when the projector is suddenly brought into a warm room from a cold room, and this may lead to the image seeming blurred. In this event, switch the power off and leave the unit to stand for a while.

- **Has the [Sync., Tracking and Position] been adjusted?**

The image can be adjusted by regulating the [Tracking] and [Sync] buttons on the projector while monitoring the image on screen. Adjustments can also be made by opening the [Menu].

[see page 47, 65](#)

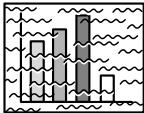
- **Has the signal format setting for the image been set correctly?**

Set the signal format with [Menu] – [Image] – [Video Signal]. There are cases where the image signals being input cannot be determined in the [Auto] mode.

[see page 65](#)

- **Do the input signals match the connected equipment?**

Set the signal type with the [Menu] - [Image] - [Input Signal] parameter. Set [RGB] for computer signals, and [YCbCr] or [YPbPr] (depending on the equipment signals) for component video signals.



- The image is disturbed.
- Noise appears

- **Has the cable been connected correctly?**

[see page 25, 32](#)

- **Is the selected resolution correct?**

Align the computer with the signals supported by the projector. Refer to the computer's instruction manual for details on how to amend the signals.

[see page 26](#)

- **Have the [Synchronization \* , Tracking \* , Display Position] settings been correctly adjusted?**

Press the [Auto] button to make the adjustments.

The [Menu] will be displayed to enable adjustment to be made.

[see page 47, 65](#)

- **Has the cable length been extended?**

There are cases where noise will occur if the cable length is extended. Either use the cable supplied or connect amplification equipment, etc, and confirm the situation.

- **Has the signal format setting for the image been set correctly?**

Select the video signal format with [Menu] – [Image] – [Video Signal Format]. There are cases where the video image signals being input cannot be determined in the [Auto] mode.

[see page 67](#)

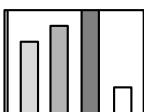
- **Do the input signals match the connected equipment?**

Set the signal type with the [Menu] - [Image] - [Input Signal] parameter. Set [RGB] for computer signals, and [YCbCr] or [YPbPr] (depending on the equipment signals) for component video signals.

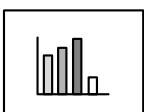
[see page 65](#)

---

## The image is cut up (Large)/Small



- The image is cut up
- The image is small



- **There is a possibility that the [Resize] setting has not been correctly selected.**

Press the [Resize] button.

[see page 52](#)

- **Has the [Display Position] been correctly adjusted?**

Adjust with [Menu] – [Image] – [Position].

[see page 65](#)

- **Is the selected resolution correct?**

Align the computer with the signals supported by the projector. Refer to the computer's instruction manual for details on how to amend the signals.

[see page 26](#)

- **Amend the resolution for note-type and liquid crystal type computers.**

Either amend the resolution so that the display fills the entire screen, or set the image signals so that only external output is possible.

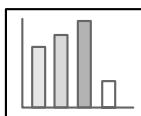
[see page 25](#)

- **Has the system been set for dual display?**

Only half of the computer screen's image will be displayed with the projector if dual display has been set with [Display Properties] on the control panel. Cancel the dual display setting to display the entire computer screen image. Refer to the video driver manual supplied with the computer in use for further details.

---

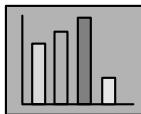
## The image color is bad



- Has the image brightness been correctly adjusted?  
[see page 65](#)
- Have the cables been connected correctly?  
[see page 25, 32](#)
- Has the contrast been correctly adjusted?  
[see page 65](#)
- Has the color setting been correctly adjusted?  
[see page 68](#)
- Have the color density and tint been correctly adjusted?  
(The display on the computer monitor or the liquid crystal screen will not always match up with the tint of the image, but this is not an abnormality.)  
[see page 65](#)
- Is it time to replace the lamp?  
If the Lamp Indicator is blinking, it means that the time to replace the lamp is drawing near. When the time to replace the lamp draws near, the image will appear dark and the tint will deteriorate. In this event, replace the lamp with a new one.  
[see page 111](#)
- Do the input signals match the connected equipment?  
Set the signal type with the [Menu] - [Image] - [Input Signal] parameter. Set [RGB] for computer signals, and [YCbCr] or [YPbPr] (depending on the equipment signals) for component video signals.

---

## The image is dark



- Is it time to replace the lamp?  
If the Lamp Indicator is blinking, it means that the time to replace the lamp is drawing near. When the time to replace the lamp draws near, the image will appear dark and the tint will deteriorate. In this event, replace the lamp with a new one.  
[see page 111](#)
- Has the image brightness been correctly adjusted?  
[see page 65](#)
- Has the contrast been correctly adjusted?  
[see page 65](#)

---

## No sound



- Has the sound input been connected correctly?  
[see page 28, 32](#)
- Has the image for which sound is required been selected?  
[see page 38](#)
- Has the volume been set to the minimum?  
[see page 60](#)
- Is sound being emitted from connected equipment?  
Confirm the sound from connected equipment, etc.  
Has the volume been turned right down?
- Has the [A/V Mute] function been left on?  
There is a possibility that the [A/V Mute] mode is in effect.  
Press the [A/V Mute] button, adjust the volume, or display the menu to cancel the [A/V Mute] status.  
[see page 51](#)
- Is the sound being output to external speakers?  
Sound will not be output from the projector's speaker if a stereo mini-jack has been connected to the Audio Out port.

---

## The remote control will not work



- Is the [R/C ON OFF] switch on the remote control on?  
[see page 37](#)
- Is the remote control being aimed in the correct direction?  
The operable range of the remote control unit is 30° to the left and right, and 15° up and down.  
[see page 20](#)
- Is the distance between the remote control and the projector too great?  
The operable distance of the remote control unit is approximately 10m.  
[see page 20](#)
- Is the remote control receiver connected and the remote control being aimed at the projector?
- Is the light-receiving area on the remote control blocked?
- Has the remote control light-receiving area been subject to direct sunlight, flourescent light or any other strong light source?
- Have the batteries been mounted in place?  
[see page 21](#)
- Have the batteries run out?
- Have the batteries been mounted back to front?  
[see page 21](#)

---

## The projector will not switch off (after the [Power] button has been pressed)



- **Is the Operation Indicator illuminated in orange?**

The projector has been designed so that the Operation Indicator is not extinguished even when the power has been switched off.

The Operation Indicator will be extinguished when the Power Plug has been disconnected from the socket.

- **The fan will not cease operations.**

The cool-down process (to allow the projector lamp to cool down; the operation indicator will blink in orange) will be performed after the power has been switch off by pressing the [Power] button. The operation indicator will be illuminated in orange when this has been completed, so remove the power plug from the socket at this point.

\*The amount of time required for the cool-down process will depend on the external temperature.

---

## Problems with EasyMP images

- **The image acts strangely (distorted)**

A jpeg image with a resolution that cannot be displayed normally is being used. If the image is not displayed normally, adjust the resolution so that the vertical lines are double 8-pixels and the horizontal lines are double 8-pixels or double 32-pixels. There should be no trouble with scenario files created with the EasyMP Software or images with a normal resolution (VGA, XGA.)

---

## Problems when using the EasyMP Software

- **PowerPoint files (.ppt) will not be displayed in the file window.**

Files created with PowerPoint 95 and files saved in the PowerPoint 95 format cannot be edited with the EasyMP Software. These files must first be resaved in the PowerPoint 97 or PowerPoint 2000 formats before they can be used.

- **Not possible to paste PowerPoint files (.ppt) onto scenarios or display thumbnails.**

It could be that the MS-Office jpeg converter has not been installed. Displays the [Converters and Files] - [Graphic Filter] option from the Office97 installer, and then install it all or only the jpeg filter (the jpeg filter is installed with the standard Office2000 installation.)

- **Created scenarios files cannot be edited.**

Scenario files (.sit) that have been transferred across to the memory card cannot be edited. Use the scenario data (.sic) temporarily saved in the EasyMP Software.

---

### Point

If an abnormality remains after checking the results of the above inspections, disconnect the Power Plug from the socket and contact your dealer or nearest address provided at page 121.

# Maintenance

This section provides explanations on taking care of the projector, replacing consumable items and other maintenance procedures.

## ■ Cleaning the Projector, Cleaning the Lens, Cleaning the Air Filter

Clean the projector if it becomes soiled or if the quality of the projected images deteriorate. Please clean the air filter about every 100 hours of operation.

### ⚠ Warning

- Personnel other than qualified servicemen must never open the projector. Many high-voltage parts are contained inside the cover that may cause electric shocks. Contact your dealer or your nearest address provided at page 121 to request internal inspections, repairs, adjustments, cleaning and other tasks.
- Exercise caution when handling the Power Plug and Power Connector. Mishandling may result in the outbreak of fire and electric shocks. Observe the following when handling the Power Plug.
  - Do not connect plugs or connectors that have become dirty or have foreign matter adhering to them.
  - Ensure that the plugs and connectors are firmly inserted in the relevant sockets as far as they will go.
  - Never attempt to connect plugs and connectors with wet hands.

### ⚠ Caution

- Never attempt to remove the lamp immediately after use. Failure to observe this may result in burns and other injuries caused by heat. Wait for approximately one hour after the power has been cut off to allow the lamp sufficient time to cool.
- Disconnect the Power Plug and Power Connector from their sockets when carrying out maintenance tasks. Failure to observe this may result in electric shocks.

Switch off the power supply and disconnect the Power Cord prior to cleaning any part of the projector.

## Cleaning the projector

- Gently wipe the soiled parts of the projector with a soft cloth.
- When the soiling is severe, wipe the area with a cloth moistened with a medium-strength cleaning agent diluted with water, and then gently wipe it with a dry cloth.
- Never use wax, Benzene, thinner or other active agents. Failure to observe this may result in damage or paint peeling from the casing.

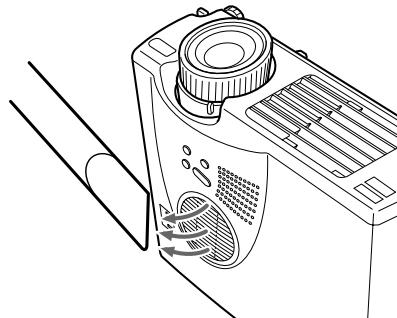
## Cleaning the lens

Clean the lens with an air-blower (available on the open market) and special lens cleaning paper. The surface of the lens is easily damaged, so exercise extreme caution and avoid using anything other than soft materials.

## Cleaning the Air Filter

Air ventilation will deteriorate and the internal temperature of the projector will rise if the Air Filter becomes blocked with dirt and dust, and this may result in damage.

Ensure that the projector is stood on its end and the Air Filter cleaned with a vacuum cleaner to prevent the dirt and dust from penetrating inside.



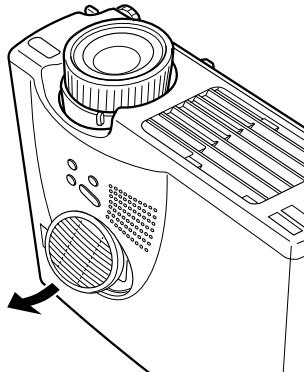
### Point

- If it is no longer possible to remove the dirt from the Air Filter or it begins to crack, it is time to replace it. Contact your dealer in this event.
- A replacement air filter is packaged with the replacement lamp. Replace the Air Filter at the same time as replacing the lamp.

# ■ Replacing the Air Filter

## Replacement method

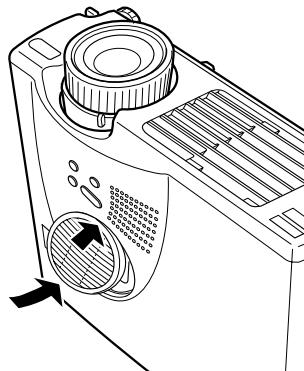
- 1 Switch off the power supply, allow the projector to cool down, and then disconnect the Power Cord. The amount of time required for the projector to cool down will depend on the surrounding temperature.
- 2 Raise the air filter with a screwdriver or similar object to remove it.



### Point

Ensure that the projector is stood on its end when replacing the Air Filter to prevent the dirt and dust from penetrating inside.

- 3 Set a new Air Filter in place.



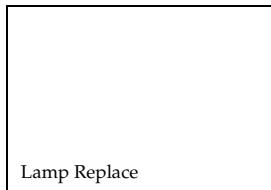
### Point

- Slip the clip in place first, and then press the other side to set it in place.
- Dispose of used air filters in accordance with local disposal regulations.

## ■ Replacing the Lamp

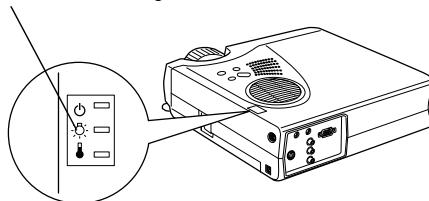
Replace the lamp at the following times (model number: ELPLP14).

**When a message stating [Lamp Replace] is displayed for thirty seconds after the start of projection**



**When the lamp indicator is blinking in orange**

The lamp indicator will blink in orange.



**When the brightness and picture quality has deteriorated below the initial levels**

### Point

- Replace the lamp as quickly as possible after the message has been displayed to maintain the initial brightness levels and picture quality.
- The replacement message has been set at approximately 900 hours of use in order to maintain the initial brightness levels and picture quality.
- Although the replacement message is displayed after approximately 900 hours of use, there are cases where the individual characteristics of each lamp and other usage conditions result in it not lighting up before this 900 hours has elapsed. For this reason, always prepare a replacement lamp well in advance.
- Replacement lamps are available from Epson OA Supplies Inc. Order your lamps from your nearest Epson dealer.

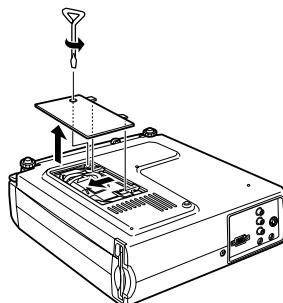
## Replacement method

**1** Switch off the power supply, allow the projector to cool down\*, and then disconnect the Power Cord.

The amount of time required for the projector to cool down will depend on the surrounding temperature.

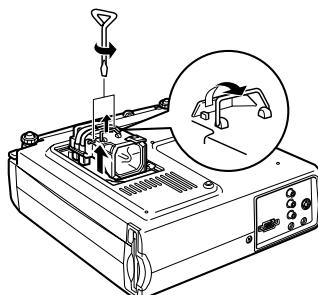
**2** Wait until the lamp has cooled down sufficiently, and then remove the lamp cover.

- Approximately one hour is required for the lamp to cool down sufficiently.
- Loosen and remove the screw holding the fan in place.



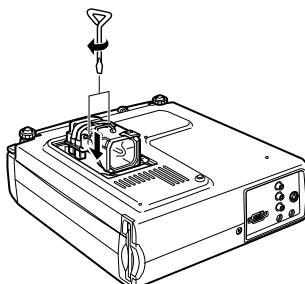
**3** Withdraw the lamp.

Loosen the two screws holding the lamp in place, and then pull the lamp out towards you.



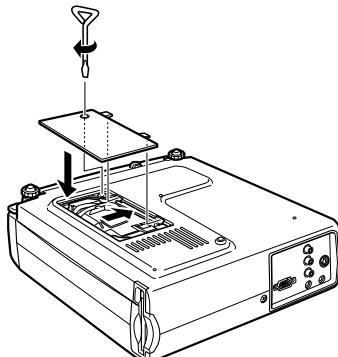
**4** Attach a new lamp.

Align the direction, push the lamp in as far as it will go, and then secure it in place with the two screws.



## 5 Attach the lamp cover.

Align the direction, insert the fan, and then secure it in place with the one screw.



### Point

- Attach the lamp firmly. A safety mechanism on the projector switches off the power automatically when the lamp cover has been removed. The power will not be reinstated unless the lamp and lamp cover are set firmly in place.
- A replacement Air Filter is packaged with the replacement lamp. Replace the Air Filter at the same time as replacing the lamp.
- The illumination time will be automatically reset when the lamp has been replaced with a new one.

## Others

This section provides explanations on optional items and after service care, as well as providing details on specifications, terminology and other technical information.

### ■ Optional Parts

The following optional parts are available for purchase in accordance with your needs.

|  |         |
|--|---------|
| MAC Adapter Set                            | ELPAP01 |
| Image Presentation Camera (XGA)            | ELPDC02 |
| Image Presentation Camera (PAL/NTSC)       | ELPDC03 |
| Computer Cable                             | ELPKC02 |
| VGA-HD15 PC Cable (3.0m)                   | ELPKC09 |
| VGA-HD15 Extension Computer Cable (20m)    | ELPKC10 |
| Component Video Cable (D-Sub15/3BNC, 3.0m) | ELPKC19 |
| Soft Carrying Case (for PC)                | ELPKS16 |
| Soft Carrying Case                         | ELPKS24 |
| Spare Lamp                                 | ELPLP14 |
| Portable Screen (50")                      | ELPSC06 |
| 60" Screen                                 | ELPSC07 |
| 80" Screen                                 | ELPSC08 |

## ■ Transportation

The projector contains many glass and precision parts. Ensure that the following precautions are observed to prevent the projector from being damaged by impact during transportation.

### ● When sending the projector to the manufacturer for repairs, etc.

- Use the box in which the projector was packed at the time of purchase.
- If the box is no longer available, protect the projector by wrapping it in shock-proof material to prevent impact, and then place it in a strong cardboard box for transportation purposes.

### ● When carrying by hand

- Use the soft case supplied.
- \* Carry on board as cabin baggage when transporting by air.
- \* All damage arising during transportation by the user is not covered by the warranty.

# ■ Terminology

This section provides simple explanations for the terminology used within the manual, items for which explanations are not available, and other complex processes.

|                           |   |
|---------------------------|---|
| A/V Mute                  | Temporarily erases the image and sound. The sound and image can be muted by pressing the [A/V Mute] button on the projector. Press the [A/V Mute] button once again or adjust the volume or display the menu to cancel the mute mode.   |
| D output port             | The output port for digital tuners that support the new digital broadcasts within Japan.  |
| SVGA                      | IBM PC/AT compatible (DOS/V equipment) signals with 800 horizontal pixels and 600 vertical pixels.  |
| SXGA                      | IBM PC/AT compatible (DOS/V equipment) signals with 1,280 horizontal pixels and 1,024 vertical pixels.  |
| Sync(synchronization)     | Outputs computer signals at a pre-determined frequency. The image will not be projected clearly unless this frequency is aligned with the frequency of the projector. Aligning the signal phasing is known as synchronization. Projected images will be subject to disturbance, blurring and horizontal noise if not synchronized.  |
| VGA                       | IBM PC/AT compatible (DOS/V equipment) signals with 640 horizontal pixels and 480 vertical pixels.  |
| XGA                       | IBM PC/AT compatible (DOS/V equipment) signals with 1,024 horizontal pixels and 768 vertical pixels.  |
| USB                       | An abbreviation for Universal Serial Bus. This is an interface for connecting comparatively low frequency equipment to the computer.  |
| UXGA                      | IBM PC/AT compatible (DOS/V equipment) signals with 1,600 horizontal pixels and 1,200 vertical pixels.  |
| Color temperature         | The temperature of the subject that emits light. A blue hue is attained when the color temperature is high, and a red hue is attained when the color temperature is low.  |
| Color differential signal | Video equipment transmits signals through three cables as Red-Bright (R-Y), Yellow-Bright (Y) and Blue-Bright (B-Y). This enables the composite signals (the red, green and blue signals and their brightness signals are transmitted along one cable) to be projected more clearly.  |
| Operating system          | The software necessary to operate the computer. The EMP Link V supplied with the projector operates the computers with the use of the Windows 95 (Japanese version) operating system, the Windows 98 (Japanese version) operating system, the Windows NT 4.0 (Japanese version) operating system, the Windows 2000 (Japanese version) operating system, and the Macintosh Kanji Talk 7.5.5 or higher operating systems.   |
| Cool-down                 | A lamp cooling procedure continues to operate even after the power supply has been switched off and the lamp extinguished. The cooling fan will begin to operate when the lamp is extinguished, and button operations will no longer be possible. This period is known as the cooling down period. The amount of time required for the cooling down procedure will differ in accordance with the surrounding temperature. |

**Contrast**

By strengthening or weakening the tone of the colors, it is possible to project characters and pictures more clearly and attain a softer tint. This is known as contrast adjustment.

**Tracking**

Outputs computer signals at a pre-determined frequency. The image will not be projected clearly unless this frequency is aligned with the frequency of the projector. Aligning the signal frequency is known as tracking. Projected images will be subject to disturbance, blurring and horizontal noise if not synchronized.

# ■ Specifications

|                                  |  |
|----------------------------------|--|
| Product Name                     | Multi-Media Projector  |
| Model                            | EMP-715/505  |
| External Dimensions              | Width 267 × Height 72 × Depth 213 mm(excluding the lens and feet)  |
| Panel Size                       | 0.9-inch (Width 18.5mm × Height 13.9mm × Corner-to-corner 23.1 mm)   |
| Display Emthod                   | Poly-silicone TFT  |
| Drive Method                     | Full-line 12-phase block sequential writing  |
| Pixel Count                      | EMP-715 : 786,432 (Horizontal 1,024 × Vertical 768 pixels) × 3<br>EMP-505 : 480,000 (Horizontal 800 × Vertical 600 pixels) × 3 |
| Focus Adjustment                 | Manual   |
| Zoom Adjustment                  | Manual (approximately 1:1.2)   |
| Lamp (light source)              | UHE lamp model: ELPLP14 rated 150W   |
| Maximum Sound Output             | 1W monaural  |
| Speakers                         | 1  |
| Power Supply                     | 100 - 240VAC 50/60 Hz<br>Rated electrical consumption: 230W, 5W during standby.  |
| Temperature range during use     | +5 to +35°C (with no condensation)   |
| Temperature range during storage | -10 to +60°C (with no condensation)  |
| Weight                           | Approximately 2.7kg  |
| Connection ports                 | Computer/Component Video Single-system mini D-Sub 15pin(female)  |
|                                  | Audio In Single-system Stereo mini-jack  |
|                                  | Audio Out Single-system stereo mini-jack   |
|                                  | Video Single-system RCA pin jack   |
|                                  | S-Video Single-system mini DIN 4pin  |
|                                  | L-Audio-R (for video use) Single-system RCA pin jack × (L, R)  |
|                                  | Mouse/Com Single-system DIN 13pin  |
|                                  | USB Single-system USB (Series B)   |
| Card slot                        | PCMCIA TYPE II   |
| Card supplied (card adapter)     | Supports CFA specification compact flash cards<br>Conforms to ATA Standard   |

\* The USB port does not guarantee the operations of all equipment that supports USB.

# ■ Check Sheet

Kindly take a copy of the check sheet and fill out the relevant items before contacting us in order to provide us with details on the systems of the trouble that has occurred with your projector.

## ● Images

### Inquiry details

- The power supply cannot be switched on
- Nothing is displayed on the screen
  
- A message is displayed
  - NO SIGNAL
  - The image signals are not being input
  - The projector is not able to receive the signals
  
- Blue screen (blue back)
- Projection pattern
- Logo (the message is not displayed)

- The image breaks up or is too small
  - An area on which nothing is displayed exists
  - The image is smaller than the screen
  - The screen is distorted into a trapezoid shape
  - Certain dots are missing
  
- The image is not clear
  - The image is blurred or cannot be focused.
  - Stripes are displayed
  - Flickering
  - Certain characters are missing
  
- The color or the image is bad or too dark
  - Dark
  - The color is bad or dark (computer)
  - The color is bad or dark (video)
  - The color is different on a TV and CRT

### Menu

- The menu is displayed
  - Setup  Sleep Mode ON
  - Information (computer)
  - Lamp ON Time H
  - Frequency H Hz
  - SYNC polarity H  Positive  Negative
  - V  Positive  Negative
  - SYNC mode  Separate  Composite
  - Sync on Green
  
- Input resolution X Hz
- Refresh sheet H
  
- Information (video)
- Lamp ON Time H
- Video signal system  AUTO
- NTSC
- Others

Describe the problem

EMP

Serial number

Purchasing time

Year, month

Indicator

(Describe the color of the indicator lamps and the status of illumination and blinking)

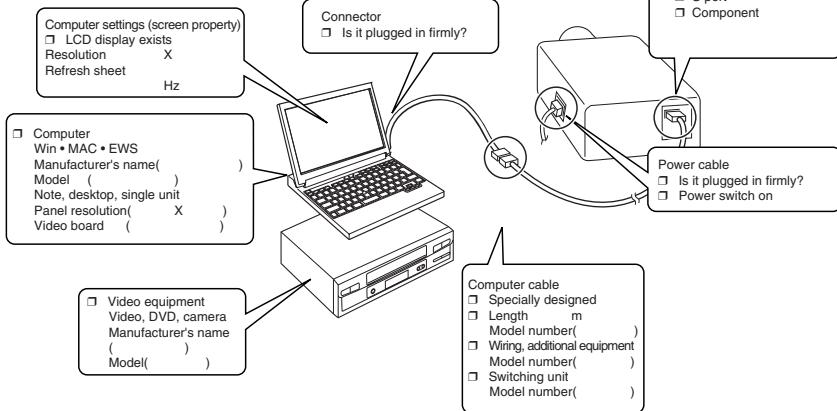
Operation

Lamp

Temperature

Connector

- Is it plugged in firmly?
- Computer
  - D-Sub15 pin
- Video
  - Composite
  - S port
  - Component



Always occurs when \_\_\_\_\_ is performed, etc.

Time of occurrence  Before use.  Immediately after the start of usage.  During usage.  Other.( )

Frequency of occurrence  Always.  Sometimes ( \_\_\_ times per \_\_\_ usage).  Other.( )

## ● Sound

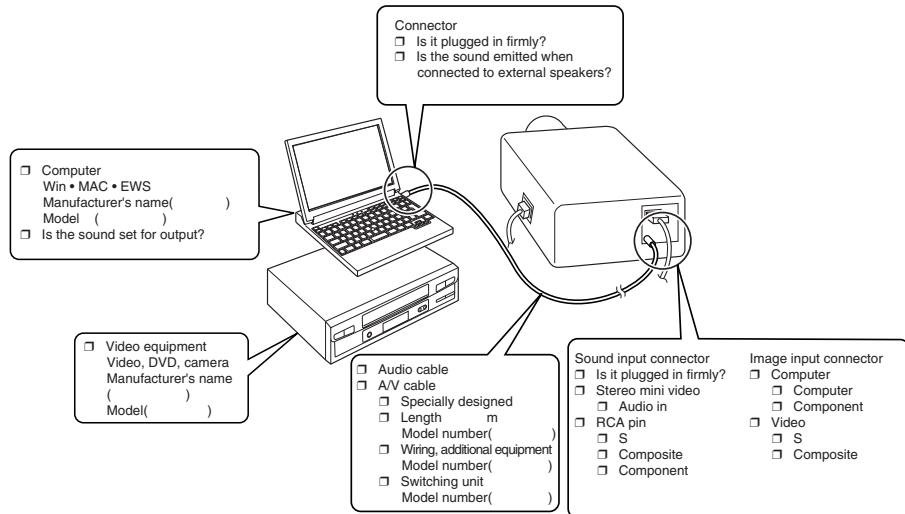
### Inquiry details

- No sound can be heard
- The volume is too low
- The sound breaks up
- A different sound is emitted

### Menu

- The menu is displayed
- Sound
- Volume( )

EMP  
Serial number  
  
Purchasing time  
Year, month



Always occurs when \_\_\_\_\_ is performed, etc.

Time of occurrence  Before use.  Immediately after the start of usage.  During usage.  Other.( )  
Frequency of occurrence  Always.  Sometimes ( \_\_\_ times per \_\_\_ usage).  Other.( )

# ■ World-Wide Warranty Terms

This product includes a world-wide warranty, which allows the equipment to be repaired in more than forty-five countries of the world. Note that product is not covered by the terms of warranty stated here, but by the terms of warranty laid out on the warranty card supplied when the equipment is purchased in each relevant country.

## **The world-wide warranty for the Epson Multi-Media Projector is valid in the following countries:**

### **<Europe>**

·Austria ·Belgium ·Bulgaria ·Croatia ·Cyprus ·Czech  
·Denmark ·Finland ·France ·Germany ·Greece ·Hungary  
·Ireland ·Italy ·Luxemburg ·Macedonia ·Holland  
·Norway ·Portugal ·Poland ·Romania ·Slovakia ·Slovenia  
·Spain ·Sweden ·Switzerland ·Turkey ·United Kingdom ·Yugoslavia

### **<North America and Central America>**

·Canada ·Costa Rica ·Mexico ·United States of America

### **<South America>**

·Argentina ·Brazil ·Chile ·Colombia ·Peru ·Venezuela

### **<Asia and Oceania>**

·Australia ·Hong Kong ·Japan ·South Korea ·Malaysia ·Singapore ·Taiwan ·Thailand

## **The warranty is subject to the following terms and conditions.**

- 1)The warranty is only valid when the product is presented together with the warranty card or receipt of purchase issued in the country of purchase.
- 2)The warranty will be implemented based on the warranty terms and conditions established by Epson or a service organization stipulated by Epson in countries listed in the instruction manual.
  - The period of warranty is twelve months from the date of purchase.
  - The warranty will cover the cost of spare parts and labor in accordance with the conditions laid out by Epson within the applicable range of the warranty.
  - The user will not be supplied with a substitute product during the period of repair as a basic policy.
- 3)The warranty will not apply in the following situations.
  - a.Defects in consumables (lamps) or optional parts.
  - b.When the product is damaged owing to inappropriate use, damaged during transportation, or handled in a manner not stipulated by the instruction manual.
  - c.When repairs or modified work have been carried out by a third party other than Epson or a service organization stipulated by Epson.
  - d.When trouble arises through the use of optional parts or consumable parts not manufactured by Epson or not otherwise authorized for use by Epson.

### **Note:**

The power cable supplied with the product is subject to the power supply conditions of the country of purchase. When using the product overseas, ensure that an Epson cable specifically manufactured for use in that relevant country is purchased.

### **List of contacts for the Epson Multi-Media Projector's world-wide warranty**

This list of contacts is current as of April 26, 2001. Access the relevant home pages for up-to-date information. If no home page is available, access the main web site at [www.epson.com](http://www.epson.com).

## <EUROPE>

### AUSTRIA :

#### EPSON Support Center

##### Austria

Tech. Help Desk: 00491805 235470

Web Address:

<http://www.epson.at>

### BELGIUM :

#### EPSON Support Center

##### BeNeLux

Tech. Help Desk: 032 70220282

Web Address:

<http://www.epson.be>

### BULGARIA :

#### PROSOFT

6. Al Jendov Str.

BG-1113 Sofia

Tel: 00359.2.730.231

Fax: 00359.2.9711049

E-mail: [Prosoft@internet-BG.BG](mailto:Prosoft@internet-BG.BG)

### CROATIA :

#### Recro d.d.

Trg. Sportova 11

HR-10000 Zagreb

Tel: 00385.1.6350.777

Fax: 00385.1.6350.716

E-mail: [recro@recro.hr](mailto:recro@recro.hr)

Web Address:

<http://www.recro.hr>

### CYPRUS :

#### CTC- INFOCOM

6a. Ionos Str., Engomi

P. O. Box 1744

2406 Nicosia, Cyprus

Tel: 00357.2.458477

Fax: 00357.2.668490

### CZECH :

#### EPRINT s.r.o.

Stresovicka 49

CZ-16200 Praha 6

Tel: 00420.2.20180610

Fax: 00420.2.20180611

E-mail: [eprint@mbox.vol.cz](mailto:eprint@mbox.vol.cz)

### FINLAND :

Tech. Help Desk: 0800.523010  
(note. Some geographical  
areas excluded)

### FRANCE :

**EPSON France,**  
68 bis rue Marjolin, F-92300  
Levallois,  
Tech. Help Desk: 0836.686.687  
Web Address:  
<http://www.epson.fr>

### GERMANY :

**EPSON Deutschland  
GmbH**  
Zülpicher Straße 6  
D-40549 Düsseldorf  
Tech. Help Desk: 01805 235470  
Web Address:  
<http://www.epson.de>

### GREECE :

**Pouliadis Ass. Corp.**  
Aristotelous St. 3  
GR-19674 Athens  
Tel: 0030.1.9242072  
Fax: 0030.1.9441066

### HUNGARY :

**R.A. Trade Kft.**  
Petőfi Sandor u. 64  
H-2040 Budaör  
Tel: 0036.23.415.317  
Fax: 0036.23.417.310

### IRELAND :

Tech. Help Desk: 01.6799016

### LUXEMBURG :

**EPSON Support Center**  
**BeNeLux**  
Tech. Help Desk:  
0032 70 222082  
Web Address:  
<http://www.epson.be>

### MACEDONIA :

**Rema Kompjuteri d.o.o.**  
St. Naroden Front 19a  
lok 16  
91000 Skopje/ Macedonia  
Tel: 00389.91.118159  
Fax: 00389.91.118159

### NETHERLANDS :

**EPSON Support Center**  
**BeNeLux**  
Tech. Help Desk: 043 3515752  
Web Address:  
<http://www.epson.nl>

### NORWAY :

Tech. Help Desk: 800.11828

### POLAND :

**FOR EVER Sp. z.o.o.**  
Ul. Franciszka Kawy 44  
PL- 01-496 Warszawa  
Tel: 0048.22.638.9782  
Fax: 0048.22.638.9786  
E-mail: [office@for-ever.com.pl](mailto:office@for-ever.com.pl)

### PORTUGAL :

**EPSON Portugal, S.A.**  
Rua do Progresso, 471-1  
Perafita- Apartado 5132  
Tech. Help Desk: 0808 200015  
Web Address:  
<http://www.epson.pt>

### ROMANIA :

**MB Distribution S.R. L.**  
162, Barbu Vacarescu Blvd.  
Sector 2  
RO- 71422 Bucharest  
Tel: 0040.1.2300314  
Fax: 0040.1.2300313  
E-mail: [office@mbd-epson.ro](mailto:office@mbd-epson.ro)

**DENMARK :**

Tech. Help Desk: 80881127

**SLOVENIA :****Repro Ljubljana d.o.o.**

Smartinska 106  
SLO-1001 Ljubljana  
Tel: 00386.61.1853411  
Fax: 00386.61.1400126

**SPAIN :****EPSON IBERICA, S.A.**

Avda. Roma 18-26,  
08290 Cerdanyola del Vallès,  
Barcelona, SPAIN  
Centro At. al Cliente: 902.404142  
E-mail: [soporte@epson.es](mailto:soporte@epson.es)  
Web Address:  
<http://www.epson.es>

**SWEDEN :**

Tech. Help Desk: 08 445 1258

**<NORTH, CENTRAL AMERICA & CARIBBEAN ISLANDS>****CANADA :****Epson Canada, Ltd.**

100 Mural Street, Suite 300  
Richmond Hill, Ontario  
CANADA L4B 1J3  
Tel: 905-709-3839  
Web Address:  
<http://www.epson.com>

**COSTA RICA :****Epson Costa Rica, S.A.**

Embajada Americana,  
200 Sur y 300 Oeste  
San Jose, Costa Rica  
Tel: (50 6) 296-6222  
Web Address:  
<http://www.epsoncr.com>

**ITALY :****EPSON Italia s.p.a.**

Assistenza e Servizio Clienti  
Viale F. Lli Casiragi, 427  
20099 Sesto  
San Giovanni (MI)  
Tech. Help Desk: 02.29400341  
Web Address:  
<http://www.epson.it>

**SWITZERLAND :****EXCOM Service AG**

Moosacher Str. 6  
CH-8820 Wädenswil  
Tel: 01.7822111  
Fax: 01.7822349  
Web Address:  
<http://www.excom.ch>

**TURKEY :****Romar Pazarlama Sanayi  
ve TIC. A.S.**

Rihtim Cad. No. 201  
Tahir Han  
TR-Karaköy-Istanbul  
Tel: 0090.212.2520809  
Fax: 0090.212.2580804

**SLOVAKIA :****Print Trade spol. s.r.o.**

Cajkovskeho 8  
SK-98401 Lucenec  
Tel: 00421.863.4331517  
Fax: 00421.863.4325656  
E-mail: [Prntrd@lc.psg.SK](mailto:Prntrd@lc.psg.SK)  
Web Address:  
<http://www.printtrade.sk>

**UNITED KINGDOM :****EPSON (UK) Ltd.**

Campus 100, Maylands Avenue  
Hemel Hempstead,  
Herts, HP2 7TJ  
Tech. Help Desk: 0990 133640  
Web Address:  
<http://www.epson.uk>

**YUGOSLAVIA :****BS Procesor d.o.o.**

Hadzi Nikole Zivkovica 2  
11000 Beograd  
Tel: 00381.11.639610  
Fax: 00381.11.639610

**MEXICO :****Epson Mexico, S.A. de C.V.**

AV. Sonora #150  
Mexico, 06100, DF  
Tel: (52 5) 328-4008  
Web Address:  
<http://www.epson.com.mx>

**U. S. A. :****Epson America, Inc.**

3840 Kilroy Airport Way  
Long Beach, CA90806  
Tel: (562) 276-4394  
Web Address:  
<http://www.epson.com>

## <SOUTH AMERICA>

### ARGENTINA :

**Epson Argentina S.A.**  
Avenida Belgrano 964/970  
(1192), Buenos Aires  
Tel: (54 11) 4346-0300  
Web Address:  
<http://www.epson.com.ar>

### BRAZIL :

**Epson Do Brasil Ltda.**  
Av. Tucunare, 720  
Tambore Barueri,  
Sao Paulo, SP 06460-020  
Tel: (55 11) 7295-1757  
Web Address:  
<http://www.epson.com.br>

### CHILE :

**Epson Chile S.A.**  
La Concepcion 322  
Providencia, Santiago  
Tel: (562) 236-2543  
Web Address:  
<http://www.epson.cl>

### PERU :

**Epson Peru S.A.**  
Av. Del Parque Sur #400  
San Isidro, Lima, Peru  
Tel: (51 1) 224-2336  
Web Address:  
<http://www.epson.com>

## <ASIA & OCEANIA>

### AUSTRALIA :

**EPSON AUSTRALIA PTY LIMITED**  
70 Gibbes Street Chatswood  
NSW 2067 AUSTRALIA  
Tel: 1300 361 054  
Web Address:  
<http://www.epson.com.au>

### HONGKONG :

**EPSON Technical Support Centre (Information Centre)**  
Rooms 4706-4710,  
China Resources Building,  
26 Harbour Road, Wan Chai,  
HONG KONG  
Tech. Hot Line: (852) 2585 4399  
Fax: (852) 2827 4383  
Web Address:  
<http://www.epson.com.hk>

### KOREA :

**EPSON KOREA CO., LTD**  
17F HANSOL Bldg., 736-1,  
Yaksam-dong Kangnam-gu,  
Seoul, 135-080, KOREA  
Tel: 2-553-3515  
Fax: 2-5584271  
<http://www.epson.co.kr>

### TAIWAN :

**EPSON Taiwan Technology & Trading Ltd.**  
10F, No.287, Nanking East Road,  
Section 3, Taipei, Taiwan, China  
Tel: 02-2717-7360 ext. 327  
Fax: 02-2713-2155  
<http://www.epson.com.tw>

### MALAYSIA :

**EPSON TRADING (MALAYSIA) SDN. BHD.**  
No. 21 Jalan U 1/19, Seksyen U1,  
Hicom-grenmarie Industrial  
Park, 40150 Shan Alam,  
Selangor Darul Ehsan  
Tel: 03-5191366  
Fax: 03-5191386

### THAILAND :

**EPSON (Thailand) Co., Ltd.**  
24th Floor, Empire Tower,  
195 South Sathorn Road, Yannawa,  
Sathorn, Bangkok 10120, Thailand  
Tel: 6700680 Ext. 309,316,317  
Fax: 6700688  
<http://www.epson.co.th>

### EPSON Technical Center

21st Floor, Payathai Tower,  
128/227 Payathai Road, Rachataewee,  
Bangkok 10400, Thailand  
Tel: 6120291~3  
Fax: 2165005  
<http://www.epson-tech.in.th>

### JAPAN :

**SEIKO EPSON CORPORATION  
SHIMAUCHI PLANT**  
VD Customer Support Group:  
4897 Shimauchi, Matsumoto-shi,  
Nagano-ken, 390-8640 JAPAN  
Tel: 0263-48-5438  
Fax: 0263-48-5680  
<http://www.i-love-epson.co.jp>

### SINGAPORE :

**EPSON SINGAPORE PTE. LTD.**  
401 Commonwealth Drive  
#01-01 Haw Par Technocentre  
SINGAPORE 149598  
Tel: 4722822  
Fax: 4726408

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# DECLARATION of CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer : SEIKO EPSON CORPORATION  
Address : 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392-8502 Japan  
Representative : EPSON EUROPE B. V.  
Address : Entrada 701, 1096 EJ AMSTERDAM,  
The Netherlands

Declares that the Product

Kind of Equipment : LCD Projector

Model : ELP-715/505 / EMP-715/505

Conforms to the following Directives and Norm(s)

## **Directive 89/336/EEC**

: EN 55022

: EN 55024

: EN61000-3-2

: EN61000-3-3

## **Directive 73/23/EEC**

: EN 60950

# DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15 for

## **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 : MS: 3-13  
3840 Kilroy Airport Way  
Long Beach, CA 90806-2469  
Telephone: (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** : LCD Projector  
**Model** : EMP-715/505 / ELP-715/505

## **FCC Compliance Statement For United States Users**

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

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

### **WARNING**

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

## **For Canadian Users**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

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