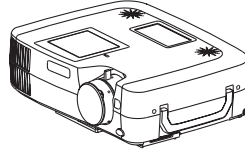**ENGLISH**

Multimedia Projector

About User's manual   Thank you for purchasing the LCD projector.
Please read this user's manual thoroughly to ensure
correct usage of the projector and its features.
After reading, store this instruction manual in
a safe place for future reference.

Features   1. Brilliant
2. 2-Way keystone function, horizontal & vertical
3. True XGA, VGA~SXGA compatible
4. HDTV 1080i/720p ready
5. PIP/PIG function ready
6. RS-232 cable control
7. Auto ceiling function

The content of this manual is subject to change without period notice.
Issue of edition 04 02.16_04

Table of Contents

ENGLISH

About the symbols

Various symbols are used in this instruction manual and on the product itself to ensure correct usage, to prevent danger to the users and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.

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

Caution
This symbol indicates information that, if ignored, could result in personal injury or physical damage.

Typical Symbols

This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents (for example: the illustration to the left indicates danger of electrical shock).

This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or description near the symbol (for example: the symbol to the left indicates that disassembly is prohibited).

This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or description near the symbol (for example: the symbol to the left shows that the power plug should be disconnected from the power outlet).

⚠ **Warning**

• **If a problem should occur**
  * If smoke or strange odors arise, continued use could result in fire or electrical shock. In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer for repairs. Never attempt to make repairs yourself because this is dangerous.
  * Do not use this projector if there is no image or sound, or if the sound is distorted. Continued use could result in fire or electrical shock. In such case, immediately turn off the power switch; disconnect the power plug from the power outlet and contact your dealer.
  * If water should enter the inside of this projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

• **Do not install on an unstable surface.** Do not install this projector on an unstable surface such as a wobbly stand or incline because this could result in the projector falling and causing injury.

• **Do not open the cabinet.** Never open the cabinet. There is high voltage inside which can cause electrical shock. Contact your dealer for internal inspection, adjustment and repair.

• **Do not modify.** Do not modify this projector because this could result in fire or electrical shock.

• **Do not use in the bathroom.** Do not use this projector in the bathroom because this could result in fire or electrical shock.

• **Do not insert objects into the project.**
  * Do not insert metal objects through the ventilation openings, etc., of this projector or drop such objects inside because this could result in fire or electrical shock.
  * If a foreign object should enter this projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.
  * Continued use could result in fire or electrical shock. Use special caution in households where children are present.

ENGLISH

⚠ **Warning**   🚫

- **Do not look through the lens when the lamp is on.** Never look through the lens when the lamp is on. The powerful light could adversely affect vision. Use special caution in households where children are present.

- **Avoid shock or impact on the projector.**
  - ⋆ If the projector should fall, resulting in damage to the cabinet, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.
  - ⋆ Continued use could result in fire or electrical shock.

- **Do not place this projector in a container containing liquid. Do not place flower vases, flowerpots, cups, cosmetics, liquids such as water, etc., on top of this projector.**

- **Do not use any power cable except those supplied with the projector.** The use of any other power cable could result in fire or electrical shock.

- **Do not shine the laser beam onto yourself or other.**
  - ⋆ The laser pointer function of projector remote control emits class II laser beam.
  - ⋆ Do not look directly into the laser beam outlet or direct the laser beam at other people. Vision can be impaired if the laser beam enters the eyes. Especially pay attention if children are present.

- **High temperatures are generated when the lamp is lit; so do not place objects in front of the lens.**

⚠

⚠ **Caution** 🚫

Placing heavy objects on top of this projector could result in loss of balance or falling and cause personal injury or damage the projector.

• **Do not block the ventilation openings.** 🚫

• **Do not block the ventilation openings of this projector.** Blocking ventilation could lead to internal overheating which could result in fire.

 ★ Do not place this projector on its side during use or push it into a small, poorly ventilated location.

 ★ Do not place this projector on a carpet or bedding or cover it with a tablecloth, etc. Also, when installing this projector, make sure the ventilation openings are at least 30cm(12in) clearance around the projector.

• **Care and maintenance.** For safety purposes, disconnect the power plug from the power outlet before starting the care and maintenance of this projector.

• **Battery usage.**

 ★ **Replace the batteries with the same type only.** Do not mix old and new batteries; this could result in fire or personal injury due to battery cracking or leakage.

 ★ **Make sure the plus and minus terminal s are correctly aligned when loading the batteries.**

 ★ Incorrect loading could result in personal injury or contamination of the surroundings due to battery cracking or leakage. 🚫

• **Have the projector interior cleaned every two years. Contact your dealer to arrange for the service.** Accumulations of dust inside the projector can result in fire or malfunction if not cleaned for an extended period.

• **Ask your dealer for details about internal cleaning.** ⚠
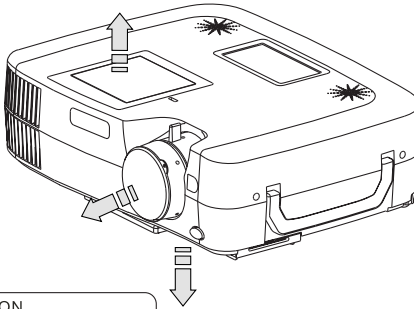
ENGLISH

⚠️ **Caution**

• **Avoid installation in humid or dusty locations. Do not install this projector in a humid or dusty location. This could result in fire or electrical s hock.**

• **Do not handle the power cord roughly.**

• **Keep the power cord away from heaters;** the heat could melt the power cord and cause fire or electrical shock.

• **Do not touch the power plug with wet hands;** this could result in electrical shock.

• **When disconnecting the power plug, do not pull on the power cord.** This could damage the power cord and cause fire or electrical shock. Always grip the plug when disconnecting.

• **When the projector is not to be used for an extended period.** If the projector is not to be used for an extended period because of travel, etc., disconnect the power plug from the power outlet and replace lens cover.

ENGLISH

Location of product safety labels

Safety labels are used on or within the projector to alert you to items or areas requiring your attention.

CAUTION
Turn off power before opening this lamp cover.
Only authorized personnel are allowed to open the light bulb cover as well as replacing the bulb

WARNUNG:
Vor dem Öffnen dieser Abdeckung Gerät ausschalten. Der Austausch der Lampe darf nur von Fachpersonal erfolgen. Ersetzen Sie die Lampe nur mit dem gleichen Typ.

ATTENZIONE
Spegnere l'alimentazione principale prima di aprire questo coperchio della lampada.
La copertura di questo bulbo elettrico puo' essere aperta solo dal personale addetto, non puo' essere aperta personalmente.

ATTENTION
Couper l'alimentation principale avant d'ouvir le couvercle de la lampe. Seuls les membres du personnel sont autorisés à ouvrir le couvercle de cette ampoule, à ne surtout pas ouvrir soi-même.

PRECAUCION
Desconecte la alimentación de corriente al aparato antes de abrir la tapa de la lámpara.
Sólo personal autorizado puede abrir la cubierta de la bombilla. No lo abra usted mismo.

警告
須在關閉電源後方可開啟主灯盖.且只有維修人員被允许开启此盖开进行換灯动作.切勿自行开启.

CAUTION
High temperature. Do not replace the lamp for at least 1 hour after power off.

WARNUNG:
Hohe Temperatur im Inneren! Warten Sie eine Stunde, um die Lampe ausreichend abkühlen zu lassen.

ATTENZIONE
Temperatura elevata. Lasciare passare almeno 1 ora dopo aver spento l'alimentazione principale prima di sostituire la lampada.

ATTENTION
Température élevée. Attendre 1 heure après avoir coupé l'alimentation principale avant de remplacerr la lampe

PRECAUCION
Alta temperatura. No reemplace la lámpara hasta por lo menos 1 hora después de haber desconectado la alimentacion de corriente al aparato.

警告
此处为高温,清在电源关闭後等待1小时.方可进行換灯动作.

CAUTION
High-pressure lamp may explode if improperly handled.

WARNUNG:
Die Hochdrucklampe kann bei falscher Handhabung explodieren.

ATTENZIONE
Lampada ad alta pressione, può esplodere se trattata erroneamente.

ATTENTION
La lampe à haute pression peut exploser si elle est manipulée incorrectement.

PRECAUCION
La lámpara de alta presión podria explotar debido a una manipulación inadecuado.

警告
本产品使用高压灯泡.不当的操作可能会造成灯泡爆裂.

CAUTION
Do not look into the lens during operation.

VORSICHT
Beim betrieb nicht in die linse sehen.

ATTENZIONE
Non guardare nell'obiettivo durante il funzionamento.

ATTENTION
Ne pas regarder dans l'objectif pendant le fonctionnement de l'appareil

PRECAUCIÓN
No more el objectivo durante la operación

LCD Projector
LCD 投影机
Model(型号) :
INPUT(交流额定):
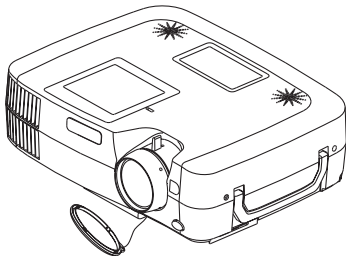100-240V~,50/60Hz,4A
Made in Taiwan(台湾制造)
Serial No.:
A028693

ENGLISH

Checking the Package Contents
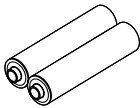
☐ Projector with Lens cover
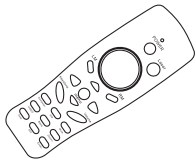
☐ Remote Controller   ☐ 2AAA Batteries
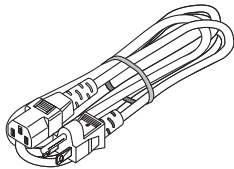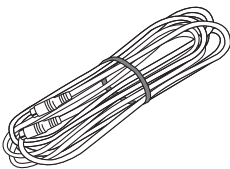
☐ Power Cord   ☐ S-Video   ☐ Audio/Video Cable
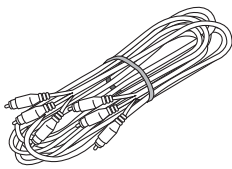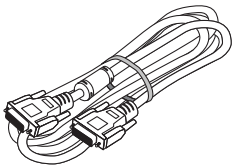
☐ Computer cable   ☐ Speaker Cable   ☐ USB Mouse Cable
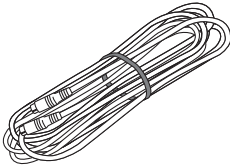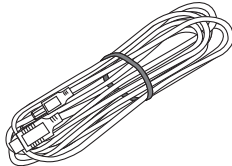
☐ Filter Sponge   ☐ User Manual

10
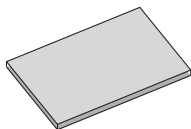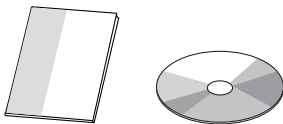
Part Names and Function:

Main Unit

Speaker

10.Control panel

3.Lamp cover

Speaker

5.Rear adjustable foot

Outlet ventilation

8.Handle

4.Filter cover

2.Focus ring

1.Zoom ring

7.IR receiver

6.Release button

5.front adjustable foot

9.Lens cover

PROJECTION LENS
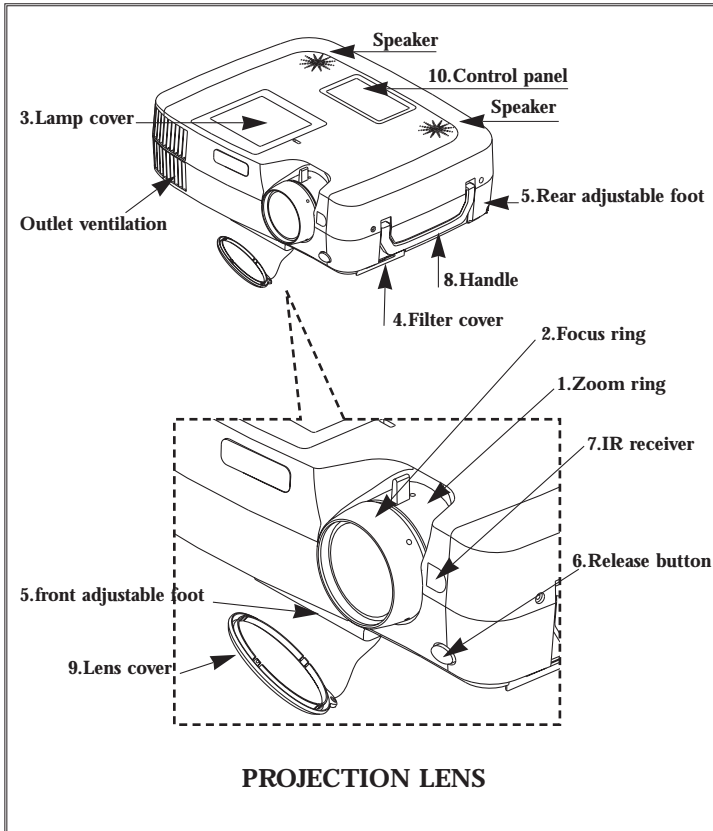
1. Zoom Ring

Use the Zoom Ring to adjust the size of the projected image.
Rotate the Zoom Ring until the image is the desired size.

2. Focus Ring

Use the Focus Ring to focus the projector image.
Rotate the Focus Ring until the image is clear.

3. Lamp cover
Remove the Lamp cover to replace the old lamp.

About to replacing the lamp, please ask your dealer for details. And waiting 1 hour for cooling down. Can't open the lamp cover by self.

CAUTION
Turn off power before opening this lamp cover.
Only authorized personnel are allowed to open the light bulb cover as well as replacing the bulb

VORSICHT
Schalten sie vor dem offnen dieser lampenabdeckung den hauptstrom aus. Nur das Personalkann diese Lampe offnen. Bitte offnen Sie diese nicht selbststandig.

ATTENZIONE
Spegnere l'alimentazione principale prima di aprire questo coperchio della lampada.La coper tura di questo bulbo elettrico puo' essere aperta solo dal personale addetto, non puo' essere aperta personalmente.

ATTENTION
Couper l'alimentation pr incipale avant d'ouvir le couv ercle de la lampe. Seuls les membres du personnel sont autorises a ouvrir le couvercle de cette ampoule, a ne surtout pas ouvrir soimeme.

PRECAUCION
Desconecte la alimentacion de corriente al aparato antes de abrir la tapa de la lampara.Solo personal autorizado puede abrir la cubierta de la bombilla. No lo abra usted mismo.

4. Filter cover
Prevents dust and other foreign particles from being drawn into projector.
Remove the Filter cover to clean the air filter.

5. Front / Rear adjustable foot
Extend and retract to adjust the projection angle

6. Foot adjuster button
Lock/unlock the adjustable foot.

7. IR receiver
When using the remote control, point the remote control at this sensor.

8. Projector handle
Holding the projector when lifting and transporting.

9. Lens cover
Attach when not using to project the lens from becoming dirty or damaged

10. Control panel (key pads)
Operating system.

Keypad control

11.Lamp indicator
10.Power indicator
8.Menu-left and right
1.Power
9.Keystone
4. Blank
5. Auto
7.Menu-up and down
3. Video source
2. Computer source
6. Menu
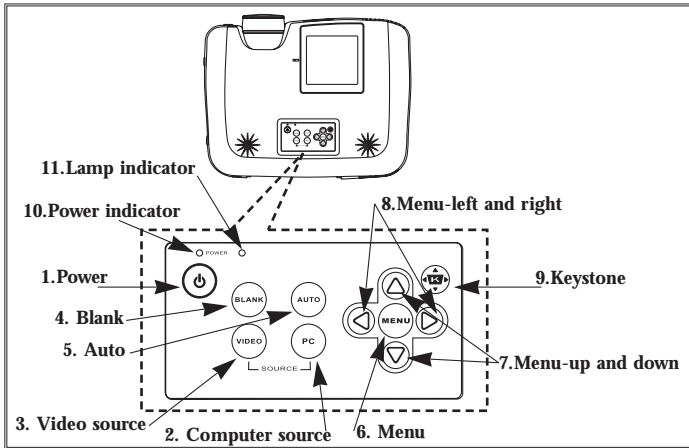
1. Power button
   Power on / operation mode, Standby mode, Cooling-down mode

2. Computer source
   Selects between RGB input source-Computer1, Computer 2 / RGB, DVI

3. Video source
   Composite Video, S-Video, Component Video (Y, Cb, Cr)

4. Blank
   Blanks the projected image. If the projector is left in blank mode for more than 15minutes, the projector will automatically shut off the lamp and enter cool-down mode.

5. Auto
   Automatically adjusts the setting to match the current input.

6. Menu
   Display or hides the OSD main menu page.

7. Menu-up / Menu-down
   Selects OSD menu item up or down

8. Menu-right / Menu-left
   Selecting and adjusting the function of OSD menu item

9. Keystone
   Adjusts the vertical keystone with menu-right, menu-left

10. Power indicator
   Lights on or flashes to indicate the operating status of the projector. (see page 54)

11. Lamp indicator
   Indicate a problem in the internal projector temperature, lamp cover or cooling down. (see page 54)

Rear View / IO Board

13.Rear IR recever

Inlet Ventilation

11.Power socket

Security lock

12.Power switch

Input/Output connector
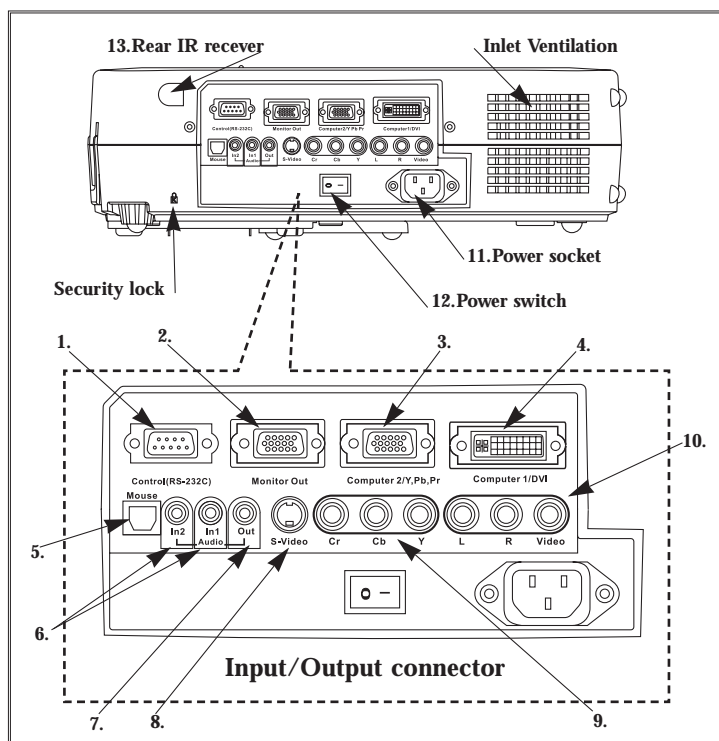
1. Computer1/ DVI connector
Input Analog / Digital RGB video signal from a computer

2. Computer2 / RGB IN and Y, Pb, Pr (Component video) connector
Analog RGB video signal from a computer or Component Video (Y, Pb, Pr) signal from the video source.

3. Monitor out connector
Connect an external monitor to this connection view the computer 2 input.

4. RS-232 connector
Serial data port for controlling the projector with a computer or other RS-232 control device.

5. USB mouse connector
Connects a USB mouse cable to a computer to control computer mouse functions.

6. Audio in 1 / Audio in 2 connector
Stereo mini jack for PC input

7. Audio out connector
Connecting to an external speaker system.

8. S-Audio connector
S-Video signal from a video source.

9. Component video connector (Y Cb Cr)
Component video (Y, Cb, Cr) signal from a video source.

10. Video/Audio connector
Composite video signal from a video source. There is also R&L RCA Jack for Audio input.

11. Power socket
Connects the power core to this connection.

12. Power switch
Turns the power on/off.

13. Rear IR receiver
When using the remote control, point the remote control at this sensor.

Bottom View

1.Suspension bracket Fixing points(4)

Front adjustable foot

Air filter cover

EMI label   Rear adjustable foot
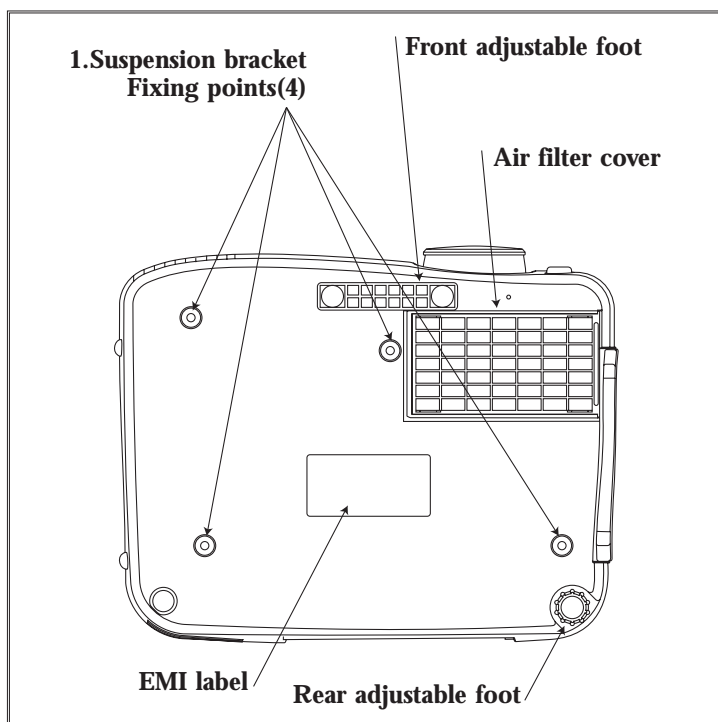
1. Suspension bracket fixing points (4 points)
Install the optional ceiling mount here when suspending the projector from the ceiling.

2. Air filter
Prevents dust and other foreign particles from being drawn into the projector.

ENGLISH

Remote Controller

1. Power
Power on /
operation mode,
Stand by mode,
Cooling-down mode

2. Laser pointer
Use laser pointer
from remote control.

3. Mouse Left
Mouse left
multipurpose key.

4. Mouse Right
Mouse right
multipurpose key.

5. Menu
Display or hides the
OSD main menu
page.

6. Menu-up / Menu-down
Selects OSD menu
item up or down

7. Menu-right / Menu-left
Selecting and
adjusting the
function of OSD
menu item

8. Keystone up / down
Adjusts the
horizontal key stone
function

9. Volume up / down
Sound louder or
lower
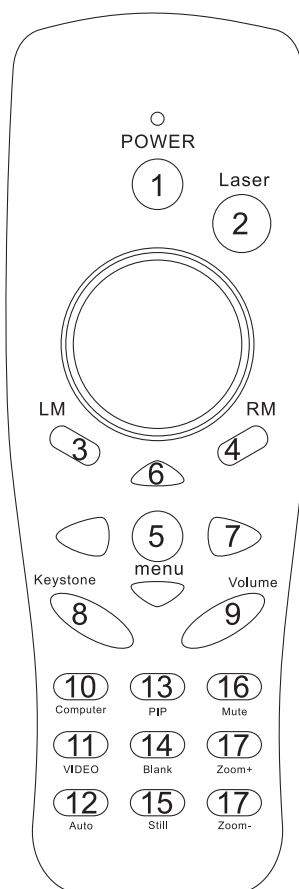
10. Computer source
Selects between
RGB input source–
computer1,
computer2 / RGB,
computer2 / Y, Pb,
Pr, DVI

11. Video source
Select between
Video input source–
Composite Video,
S-Video, Y, Cb, Cr
Video

12. Auto Sync
Refresh the current
image.

13. Pip
Show picture in
picture function.

14. Blank
Hide the current
image, Become
black color on the
screen

15. Still
Keep the current
image on the
screen.

16. Mute
Mute audio

17. Zoom in / Zoom out
Zoom in or zoom
out

POWER

1 Laser

2

LM   RM

3   6   4

Keystone   5   7   Volume
menu
8   9

10 13 16
Computer PIP Mute

11 14 17
VIDEO Blank Zoom+

12 15 17
Auto Still Zoom-

ENGLISH

Inserting the batteries

Loading AAA batteries into the remote control.

1. Remove the battery cover.
Push the knob while lifting up the battery cover.

2. Loading the batteries.
Make sure the plus and minus poles are correctly oriented.

3. Close the battery cover.

⚠ **Caution**
* *Avoid excessive heat and humidity.*
* *Do not drop the remote control.*
* *Do not expose the remote control to water or moisture, this could result in malfunction.*
* *When the remote control will not be used for an extended period, remove the batteries.*
* *Replace the batteries when remote control becomes sluggish or unresponsive.*
* *Do not place the remote control close to the cooling fan of the projector.*
* *Do not disassemble the remote control .if the remote control needs service.. Please bring it to the service station.*
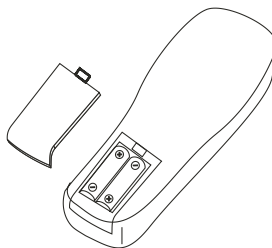
⚠ **Warning**
The laser pointer function emits a classII laser beam. Do not look directly into the laser beam outlet or point the laser beam at other people. Vision can be impaired by shining the beam in to the eyes.

Installation

Setting Up the Projector

The projector supports the following four different projection methods
- **Front projection**
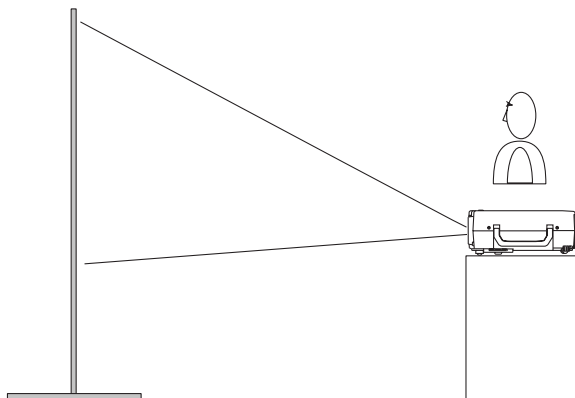
- **Rear**
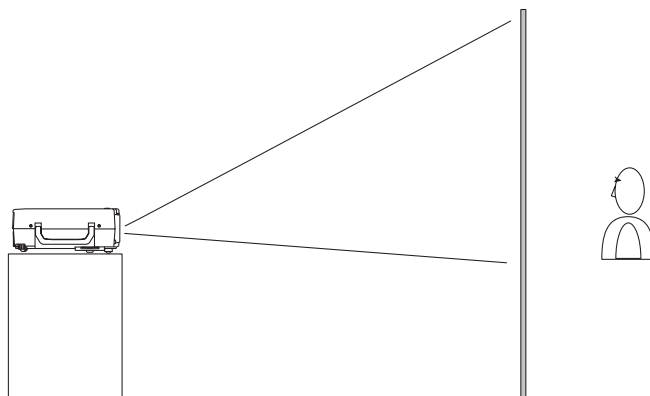
• **Rear ceiling projection**

300''
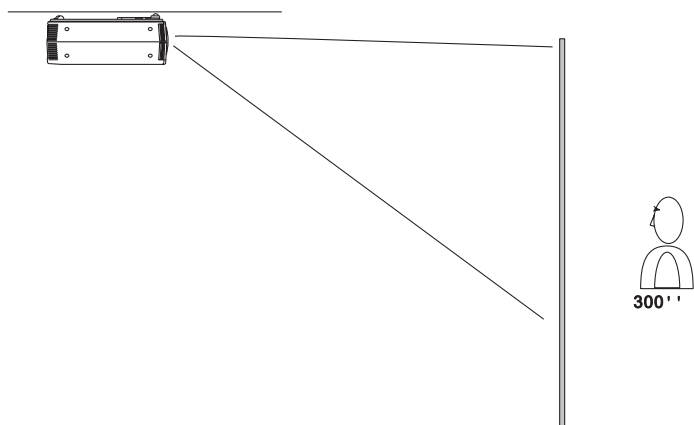
• **Front ceiling projection**
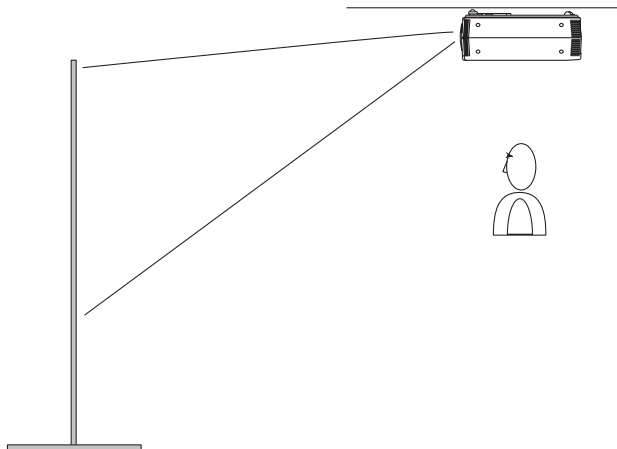
* A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for details.

Screen Size and Projection Distance

The distance between the projector and screen determines the actual image size. Refer to the table below to determine the image size at a given distance..

Image Size (inch)	Distance (M)	
30	1.05	1.36
40	1.33	1.79
50	1.72	2.23
60	2.05	2.67
80	2.73	3.54
100	3.41	4.42
200	6.78	8.79
300	10.15	13.16

200"
100"
80"
60"
50"
40"
30"

1.05~1.36
1.38~1.79
1.72~2.23
2.06~2.67
2.73~3.54
3.41~4.42
6.78~8.79
10.15~13.16

ENGLISH
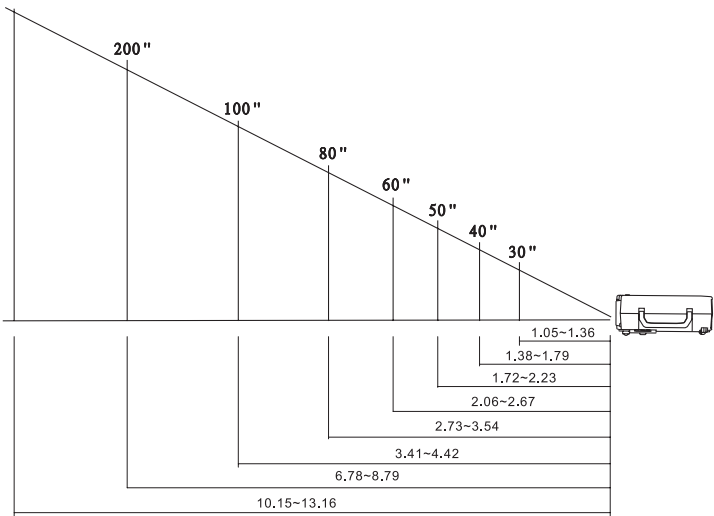
Adjusting the Image Position

Use the adjustable foot at the front of the projector to set the image height. Rotate the adjustable foot at the rear of the projector to fine-tune the image position.
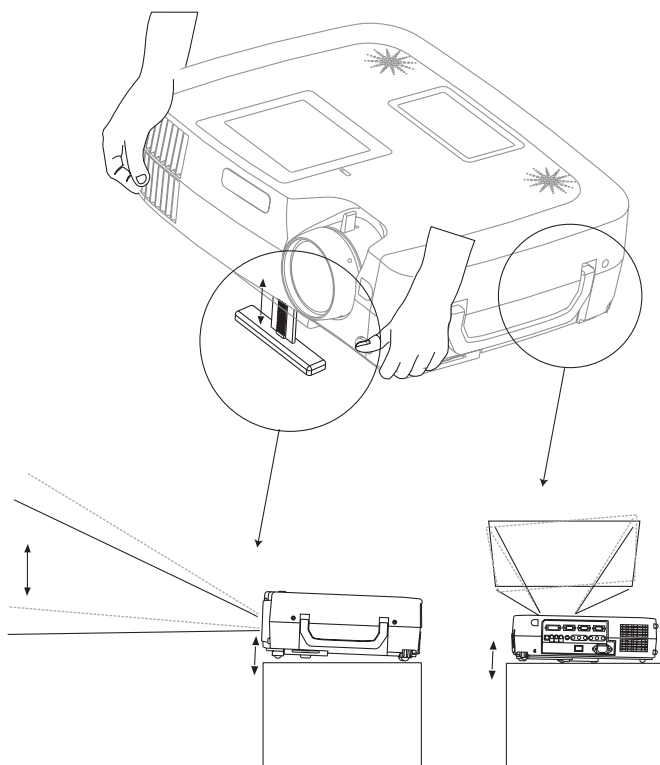
* *When the foot is adjusted, it may cause the shape of the projected image to become distorted. Use the keystone correction function to correct this distortion.*
* *To retract the front adjustable foot, press the foot release button. The front adjustable foot will slowly retract inside the projector.*

Moving the projector

1. Use the carrying handle when moving the projector.(option)
2. Replace the lens cover and retract the front adjustable foot when moving the projector to prevent damage to the projector.
3. the lens side must up to present damage the lens.

⚠ **Caution**

* The optional carry bag is intended to protect the projector from dust and scratches on the surface of the cabinet. It is not designed to protect the projector from external shock.
* Do not transport the projector in an unsuitable transport case when using a courier or transport service. This may cause damage to the projector.

Lens up
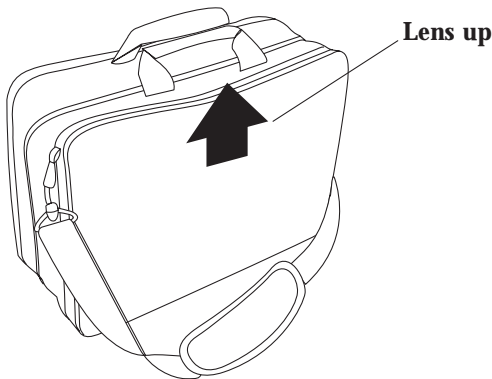
Soft carrying bag (option)

ENGLISH

How to Connect

Before starting, make sure that the projector and computers are both turned off.

1. Connect the computer cable.

    1.1 Connect either end of the computer cable to the projector's computer 2 / Y, Pb, Pr, input port.

    1.2 Disconnect the monitor cable from the computer and connect the other end of the terminal where the monitor cable is disconnected from the computer.

    1.3 If needed, connect the monitor cable of the computer monitor to the projector's Computer out.

    1.4 Tighten the screw on all connectors.
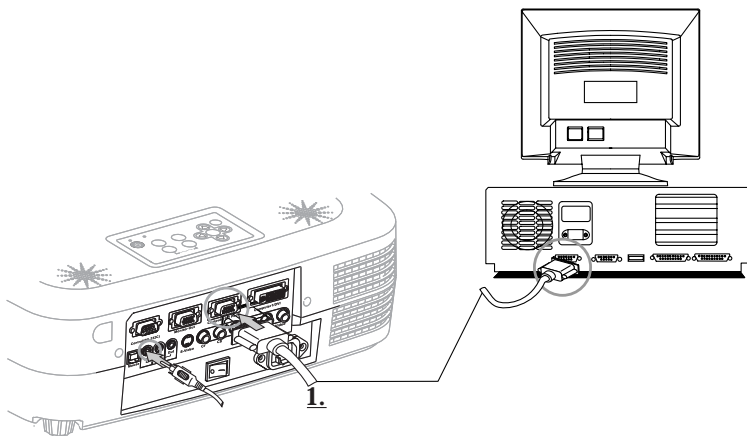
2. Connect the audio cable if necessary.

    2.1 Connect one end of the audio cable to the Audio in 2 jack on the projector.

    2.2 Connect the other end of the audio cable to the audio output port on the computer sound card.

Laptop PC

A PC laptop computer

Before beginning, make sure that the projector and computers are both turned off.

1. Connect the computer cable.

   1.1 Connect either end of the computer cable to the projector's computer 2 / Y Pb Pr input port.

   1.2 Connect the other end of the project cable to the monitor out connection on the laptop.

   1.3 Tighten the all connectors.

2. Connect the audio cable if necessary.

   2.1 Connect one end of the audio cable to the Audio in 2 jack on the projector.

   2.2 Connect the other end of the audio cable to the audio output port on the laptop PC.

A PC desktop computer (DVI-I port)

Before beginning, make sure that the projector and computers are both turned off.

1. Connect the computer DVI cable. (optional)

1.1 Connect either end of the DVI cable to the projector's computer 1 input port.

1.2 Disconnect the monitor cable from the computer and connect the other end of the terminal where the monitor cable is disconnected from the computer.

1.3 Tighten the screw on all connectors.

2. Connect the audio cable if necessary.

2.1 Connect one end of the audio cable to the Audio in 1jack on the projector

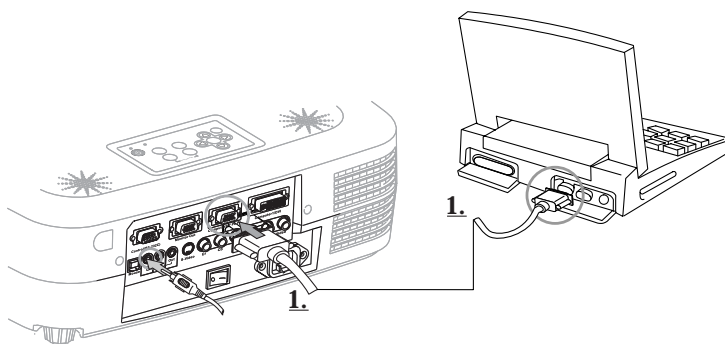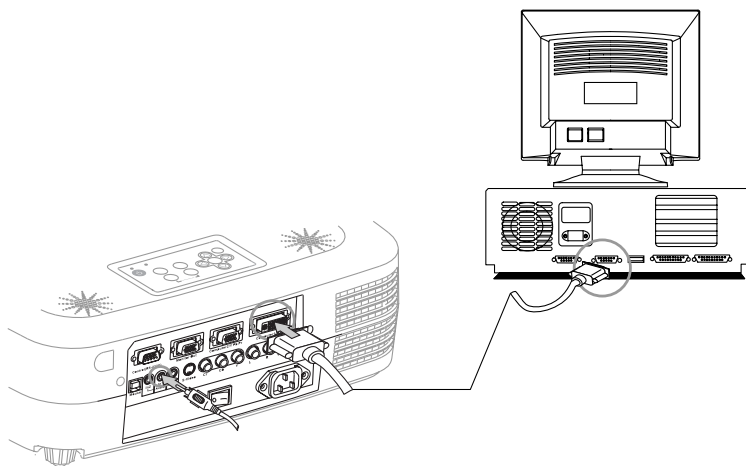2.2 Connect the other end of the audio cable to the audio output port on the computer.

External Speaker

1. Connect a 3.5mm stereo mini-plug from the external speaker system to the projector Audio out jack.

ENGLISH

Speaker
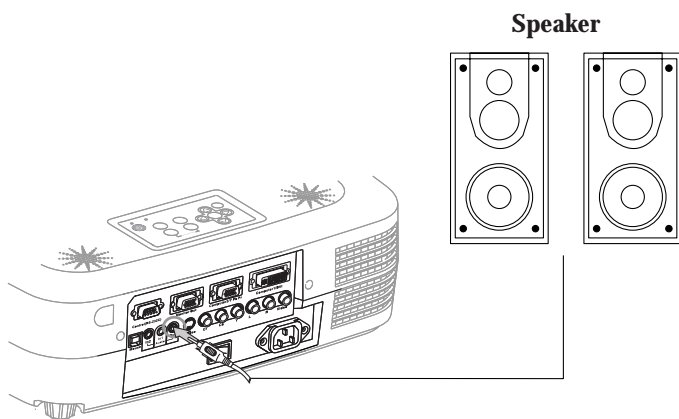
USB Mouse

USB mouse compatible MS-Window98/2000/NT/XP/Me,
Macintosh : OS8.6~10.1, and a Microsoft Mouse driver installed.
1. Insert the end of the USB Cable (B-Type) to the projector's USB port.
2. Connect the end of the USB Cable (A-type) to the computer's USB port.
3. When the projector and computer are turned on, the appropriate drivers should load automatically.

A-type

B-type
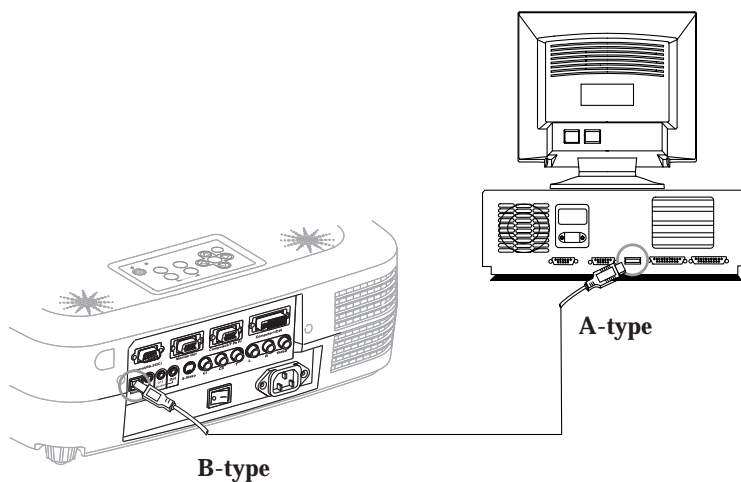
Video

A. Connect to a video source

The Projector can receive composite Video/stereo-audio, S-Video or Component video (Y, Cb, Cr) signals.

1. The composite video and stereo-audio inputs are yellow, white and red RCA connect on the projector. Connect the yellow RCA plug at one end of the video/stereo-audio cable to the yellow video jack. Connect the other yellow RCA plug to the video-out jack on the video source.

2. The red and white connections are audio connections. To use the projector speakers connect the audio cable between the projector and the audio source as shown below.
    2.1 Insert the write plug into the L-Jack and red plug into the R-Jack.
    2.2 Connect the other end of the cable to the output jacks of the audio source.
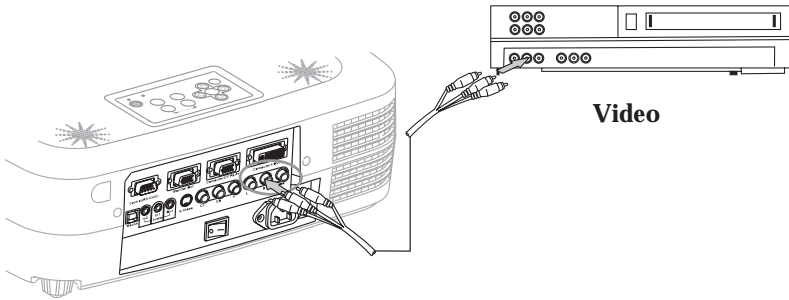
Video

3. For S-Video, insert one end of the S-Video cable into the projector's S-Video jack. Insert the other one end in the S-Video out jack on your S-Video source.
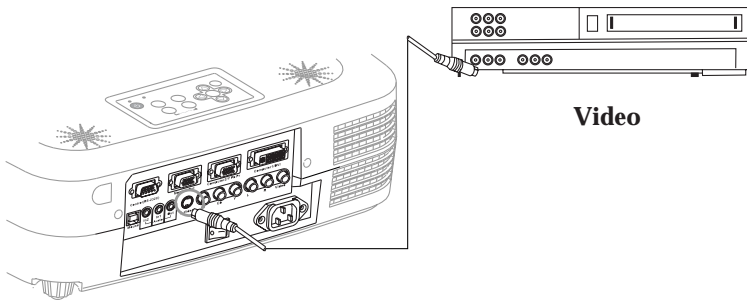
Video

4. For the Component video (Y, Cb, Cr) input uses the green, red, and blue RCA connections on the back of the projector. Connect the green RCA plug at one end of the component video cable to the projector's Y Jack (green connection). Connect the blue RCA plug at one end of the component video cable to the projector's Cb jack (blue color). Connect the red RCA plug at one end of the component video cable to the projector's Cr Jack (red color).

Note : when using the S-Video or Y, Cb, Cr input, connect the video/stereo-audio cable to the red and white R and L jack on the projector : Insert the red RCA plug to the right channel and white RCA plug to the left channel.
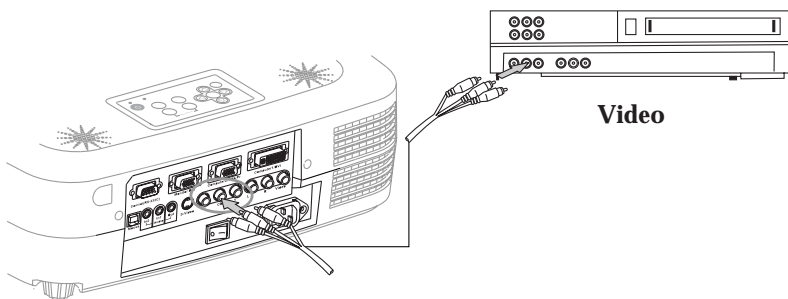
Video

B. Connect to a Component Video(RGB) source
The Projector can receiver Component Video(RGB) signals.
1. Use the optional HD15/component video cable to connect the video source to the Computer 2/ Y, Pb, Pr connector at the rear of the projector.

Note : for RGB Video's audio sound, connect the video/stereo-audio cable to the projector's R jack and L jack : Insert the red RCA plug to the right channel and white RCA plug to the left channel.

Video
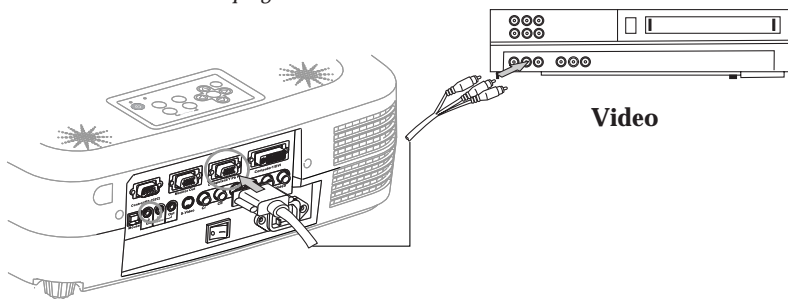
Basic Operation

Turning on the projector

Procedure
1. Check the power is turned off for the projector and all components connected to the projector.

2. Remove the lens cover.

3. Connect the power cord to the projector.

4. Turn on the power switch.

5. Press the ⏻ button on the control panel or [POWER] button on the remote control.

ENGLISH
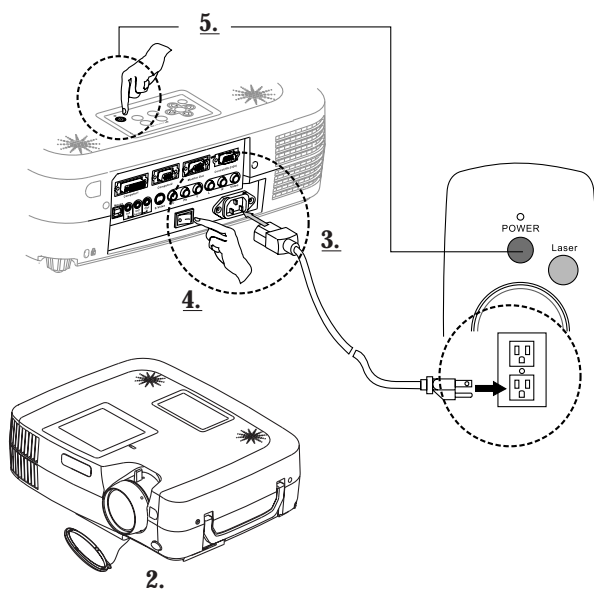
6. The power indicator will flash green.

7. Press the [VIDEO]/[PC] button on the control panel or the Computer/Video buttons on the remote control to select the appropriate source.
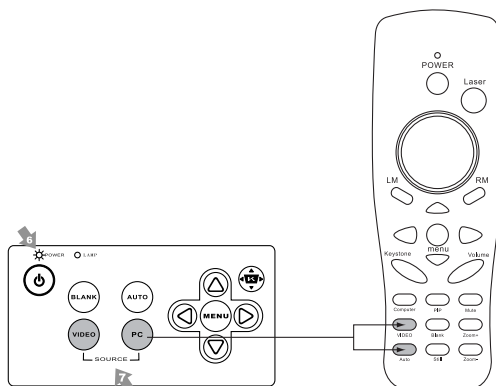
8. Use the zoom ring to adjust the screen size.

9. Use the focus ring to adjust the focus.
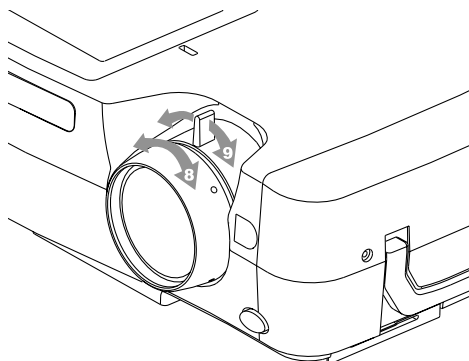
Adjust the Screen Image

1. Adjusting the image size
Turn the zoom ring on the projector to adjustor to adjust the image

2. Adjusting the image height.
Extend or retract the front adjustable foot to adjust the height of the image.

3. Correcting Keystone Distortion

Use the [⊕ Keystone] button on the projector's control panel.

* Correcting vertical keystone distortion

33
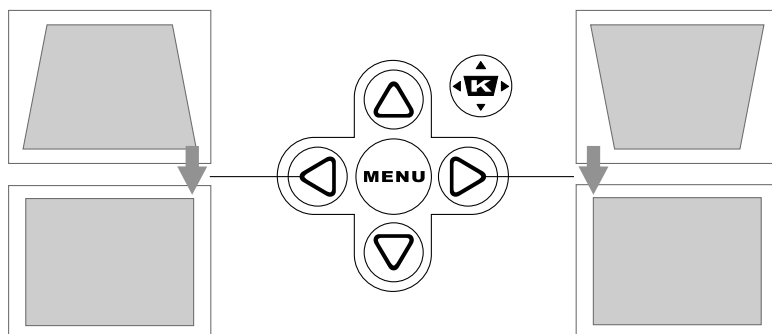
Turning off the projector

1. Press the power button on the projector or remote control. The power off confirmation message appears. If you do not want to power off the projector, ignore the message and it will disappear.

Power off ?
Please, press
⏻
Power
key again to power off.

2. Press the power button again and the projector will enter cool-down mode. The lamp shuts off, the lamp indicator flashes red, and the fans continue to run for approximately two minutes. During the cool down sequence the projector will not respond to any control panel or remote control buttons.

Caution: Do not set the power switch to off or unplug the projector during the cool-down sequence. Not allowing the lamp to cool properly will greatly reduce the life of the lamp.

3. After the cool-down sequence is complete the fans will shut off and the lamp indicator will stop flashing. The projector is now in standby mode and can be turned back on with the remote control or control panel. If the projector will not be used for an extended period, set the power switch to off and disconnect the power cord.

** The projector will auto turn off when stay in "no signal" status over 30 minutes.

ENGLISH

Functions of Menu (OSD)

Keypad Operating:
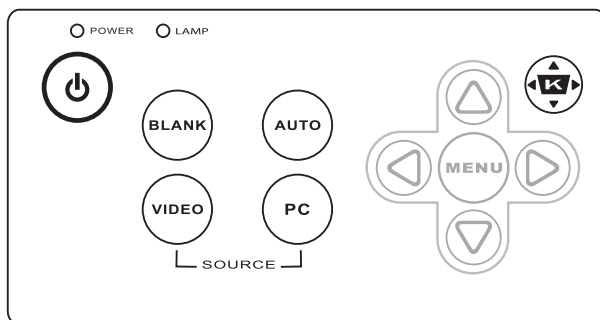
1. (⏻) : Turn on and turn off the projector

2. **BLANK**: Blanks the projected image. If the projector is left in Blank mode for more than 15 minutes, the projector will automatically shut off the lamp and enter cool-down mode.

3. **AUTO**: Automatically adjusts the settings to match the current input.

4. **SOURCE**: Selects VIDEO or PC input source.

5. **MENU**: Enter or exit the main menu (Show and hide the OSD)

6. ⬍ : Up / Down arrow buttons, used to navigate through the OSD Menus.

7. ◁▷ : Right / Left arrow buttons, used to select and adjust OSD Menu functions.

8. (keystone) : Adjusts the vertical keystone with the right and left arrow buttons.

** There is a "Quick Key" on the remote control and projector keypad as well.
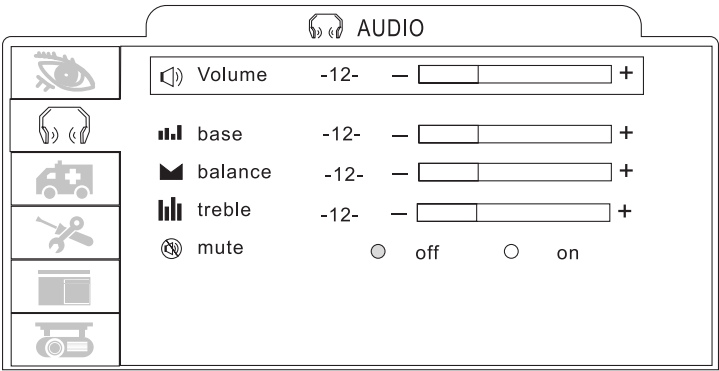
* Press the "Volume" button on remote control, you can adjust value, and select between Brightness - Contrast - Keystone - Volume directly.

There is the same function for pressing the ⬙ button on the keypad

Computer mode

```
                         PICTURE
       👁
              brightness    -123-  —  [         ]  +
              contrast      -123-  —  [         ]  +
              color temp     6500   7300   9300    user
         R    user red      -123-  —  [         ]  +
         G    user green    -123-  —  [         ]  +
         B    user blue     -123-  —  [         ]  +
```
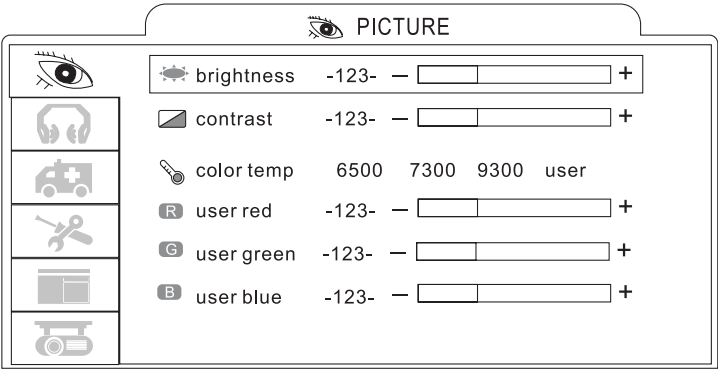
1. PICTURE		
Brightness	–64/+63	Adjusts the overall image brightness
Contrast	–64/+63	Adjusts the difference between light and dark areas of the image
Color Temp		Adjusts the color temperature of the image
	6500K 7300K 9300K User	Sets color temperature to 6500K Sets color temperature to 7300K Sets color temperature to 9300K Enables the separate User color temperature adjustments of each RGB color
	User Red User Green User Blue	–128/+127 –128/+127 –128/+127

AUDIO

Volume   -12-   — ☐☐☐☐☐☐   +

base   -12-   — ☐☐☐☐☐☐   +

balance   -12-   — ☐☐☐☐☐☐   +

treble   -12-   — ☐☐☐☐☐☐   +

mute   ○ off   ○ on

2. AUDIO		
Volume	0/+31	Adjusts the volume
Base	–8/+7	Adjusts the base tone
Balance	–31/+31	Adjusts the balance setting
Treble	–8/+7	Adjusts the treble tone
Mute	On/off	Mutes the volume on / off

Multimedia LCD Projector

ENGLISH

```
              SETTING
  h position    -123-   — [====]  +
  v position    -123-   — [====]  +
  phase         -123-   — [====]  +
  frequency     -123-   — [====]  +
  keystone V    -123-   — [====]  +
  keystone H    -123-   — [====]  +
  auto sync           exectue ▶
  auto search         ○ off    ○ on
```
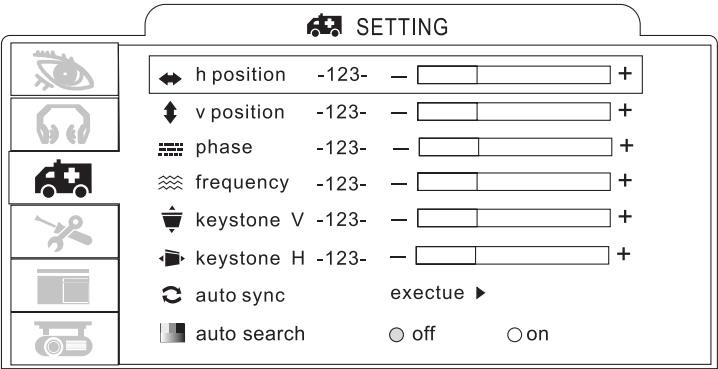
3. SETTING		
H position	–128/+127	Move the image position horizontally
V position	–128/+127	Move the image position vertically
Phase	–128/+127	Set the synchronization polarity
Frequency	1294/1394	Set the horizontal scanning frequency
Keystone V	–128/+127	Corrects vertical keystone distortion in image
Keystone H	–128/+127	Corrects horizontal keystone distortion in image
Auto sync	Execute	Sets all of the above settings automatically
Auto search	on/off	Search signal source automatically.

ENGLISH

⚒ ADVANCED

🖼 zoom/pan	execute ▷
❄ still	○ off ○ on
◼ blank	○ off ○ on
↺ reset all	execute ▷
▤ resize	4:3 ▷
👅 language	English ▷
▦ select source	execute ▷
▦ computer 2 mode	R G B ▷

⚒ ADVANCED

▦ select source

computer 1	▷
computer 2 (R G B)	▷
computer 2 (Y Pb Pr)	▷
DVI	▷
video	▷
s-video	▷
Y Pb Pr	▷

ENGLISH
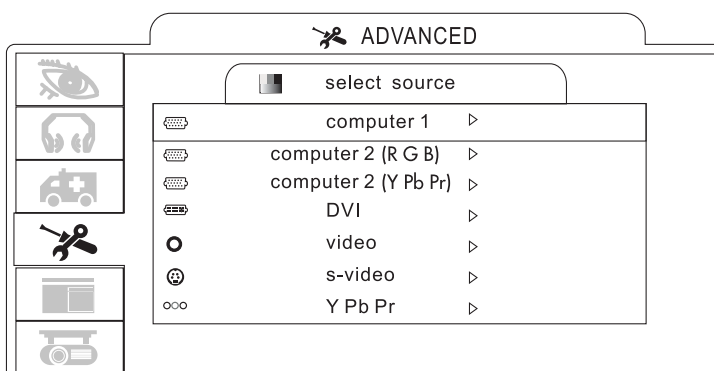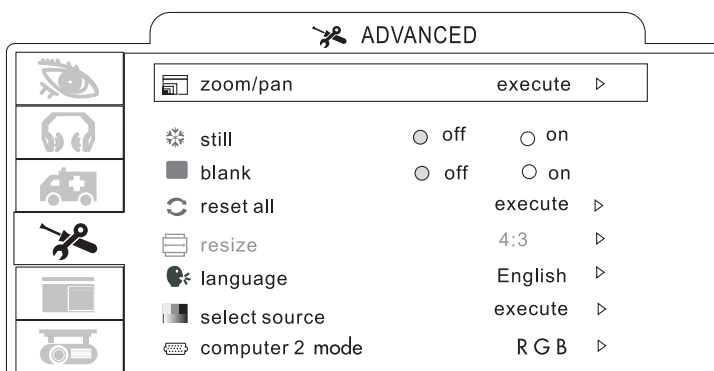
4. ADVANCE		
Zoom / pan	Execute	Enlarge or reduce the size of the image, pan an image to view images that are larger than the display area
Still	On / off	Freezes the current image on the screen
Blank	On / off	Hides the image, displays a blank, black screen ★ (see below)
Reset all	Execute	Resets all OSD Menu functions to their factory default values ★(see below)
Language	Eng	Select the language that the OSD Menu and on screen massage are displayed in English / Chinese(s) / Chinese(t) / Italian / Spanish / French / German
Select source		Select the input source from: Computer1 / computer2 (RGB) / Computer2 (Y, Pb, Pr) / DVI / video /s-video / Y, Cb, Cr
Computer2 mode	RGB / Y, Pb, Pr	Switches computer2 input: RGB /Y, Pb, Pr

- **Blank on**
  If the projector is left in Blank mode for more than 15 minutes, the projector will automatically shut off the lamp and enter cool-down mode.
- **Reset all**
  1. After you select [reset all] on the OSD menu, the following confirmation message will appear on the screen.

Reset All ?

Please, select No/Yes to return default settings.

↻ reset all   No ▷
                                  Yes▷

  2. Please press the Menu-right button on the remote control or the button on the keypad to reset the OSD Menu values. Please ignore the message to exit the message without changing any settings.

PIP

PIP size   off   1   2   3

PIP Source

brightness   -123- —   +
contrast   -123- —   +
sharpness   -123- —   +
color   -123- —   +
tint   -123- —   +

5. PIP		
PIP size	Off 123	Sets the PIP image size
PIP position	9-position	Moves the PIP image position
PIP source	C, S, Y, Cb, Cr	Selects the PIP input source
PIP brightness	-64/+63	Adjusts the brightness of the PIP image
PIP contract	-64/+63	Adjusts the difference between light and dark areas of the PIP image
PIP sharpness	-128/+127	Adjusts the image sharpness of the PIP image
PIP color	-128/+127	Adjusts the color intensity of the PIP image
PIP tint	-128/+127	Adjusts the tint of the PIP image

6. PRESENTATION		
Auto ceiling	On/off	Automatically inverts the image when the projector is turned upside down i.e. when the projector is mounted on the ceiling
Front	Execute	Normal projection mode
Ceiling	Execute	Inverts the image vertically, used when the projector is mounted upside down
Rear	Execute	Inverts the image horizontally, used when projecting onto a rear projection screen
Ceiling and Rear	Execute	Inverts the image horizontally and vertically, used when the projector is mounted upside down and projecting onto a rear projection screen
Lamp mode	Normal Economic	Economic mode reduces the lamp brightness economic to extend lamp life and quiet the projector
Lamp timer (★optional)		Lamp timer
Reset lamp timer (★optional)	Execute	After change a new Lamp, execute this function for reset the Lamp timer.(★see below)

• **Reset lamp timer**
  1. After you select [reset all] on the OSD menu, the following confirmation message will appear on the screen.

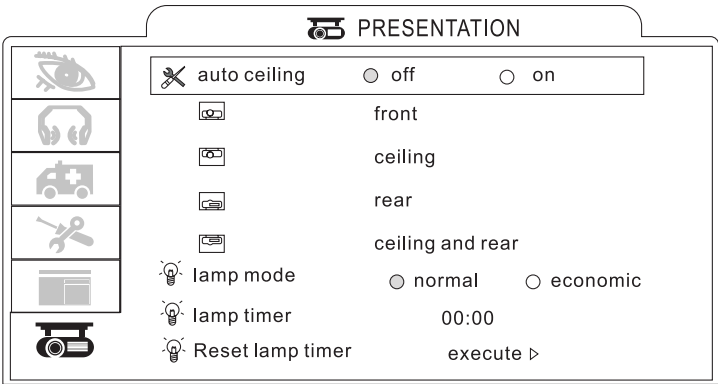Lamp Reset ?

Please, select No/Yes to return default settings.

↻ Lamp reset   No ▷
                   Yes▷

  2. press the Menu–right button on the remote control or the ⬡ button on the keypad to reset the OSD Menu values. Press the ESC button or ignore the message to exit the Reset All function without changing any settings.

* *The replacement warning message is set to appear after about 2000 hours of lamp use in order to maintain the initial brightness and quality of the projected images. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.*

Video Mode_

```
                        👁  PICTURE
   👁        ☀ brightness    -123-  —  [====      ]  +
             ◣ contrast      -123-  —  [====      ]  +
             ▦ sharpness     -123-  —  [====      ]  +
             ▦ color         -123-  —  [====      ]  +
             ▦ tint          -123-  —  [====      ]  +
             🌡 color temp    6500   7300   9300   user
             Ⓡ user red      -123-  —  [====      ]  +
             Ⓖ user green    -123-  —  [====      ]  +
             Ⓑ user blue     -123-  —  [====      ]  +
```
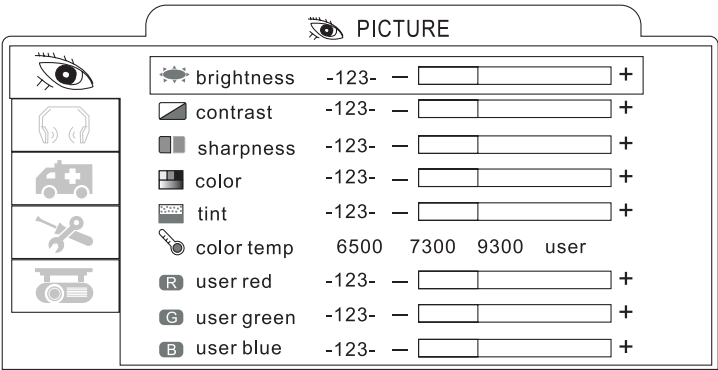
1. PICTURE		
Brightness	–64/+63	Adjusts the image brightness
Contrast	–64/+63	Adjusts the difference between light and shade in the image
Sharpness	-128/+127	Adjusts the image sharpness
Color	–64/+63	Adjusts the image color
Tint	–64/+63	Adjusts the image tint
Color Temp		Adjusts the color temperature
	6500K 7300K 9300K User	Sets the color temperature to 6500K Sets the color temperature to 7300K Sets the color temperature to 9300K Enables the separate User Color temperature adjustment of each RGB color
	User Red User Green User Blue	–128/+127 –128/+127 –128/+127

〰 AUDIO

◁)) Volume   -12-   — [▯▯▯▯▯▯▯] **+**

▮▮ base   -12-   — [▯▯▯▯]   **+**

◣ balance   -12-   — [▯▯▯▯]   **+**

▮▮▮ treble   -12-   — [▯▯▯▯]   **+**

⊘ mute   ○ off   ○   on

2. AUDIO		
Volume	0/63	Adjusts the volume
Base	–8/+7	Adjusts the base tone
Balance	–31/+31	Adjusts the balance setting
Treble	–8/+7	Adjusts the treble tone
Mute	On/off	Mutes the volume

SETTING

h position	-123- — [ ] +
v position	-123- — [ ] +
phase	-123- — [ ] +
frequency	-123- — [ ] +
keystone V	-123- — [ ] +
keystone H	-123- — [ ] +
auto sync	exectue ▶
auto search	○ off ○ on
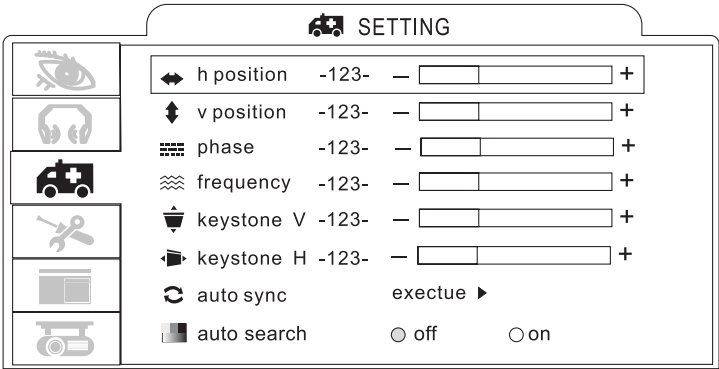
3. SETTING		
H position	–128/+127	Unavailable in Video Mode
V position	–128/+127	Unavailable in Video Mode
Phase	–128/+127	Unavailable in Video Mode
Frequency	1294/1394	Unavailable in Video Mode
Keystone V	–128/+127	Corrects vertical keystone distortion in image
Keystone H	–128/+127	Corrects horizontal keystone distortion in image
Auto sync	Execute	Unavailable in Video Mode
Auto search	on/off	Search signal source automatically.

ADVANCED

zoom/pan		execute ▷
still	○ off	○ on
blank	○ off	○ on
reset all		execute ▷
resize		4:3 ▷
language		English ▷
select source		execute ▷
computer 2 mode		R G B ▷

ADVANCED

select source

computer 1	▷
computer 2 (R G B)	▷
computer 2 (Y Pb Pr)	▷
DVI	▷
video	▷
s-video	▷
Y Pb Pr	▷

ENGLISH
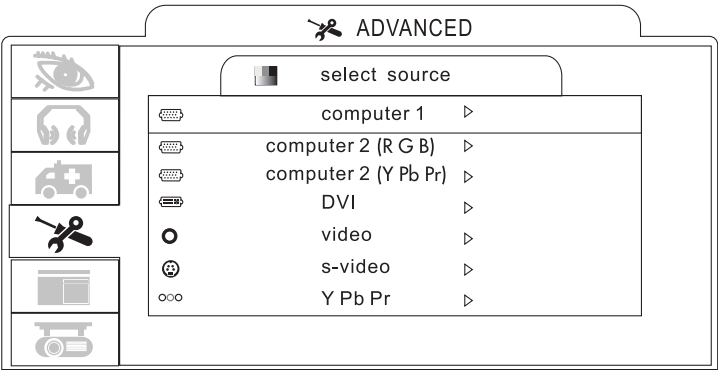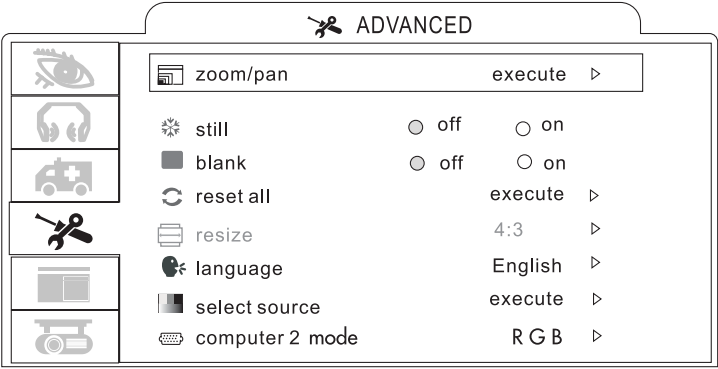
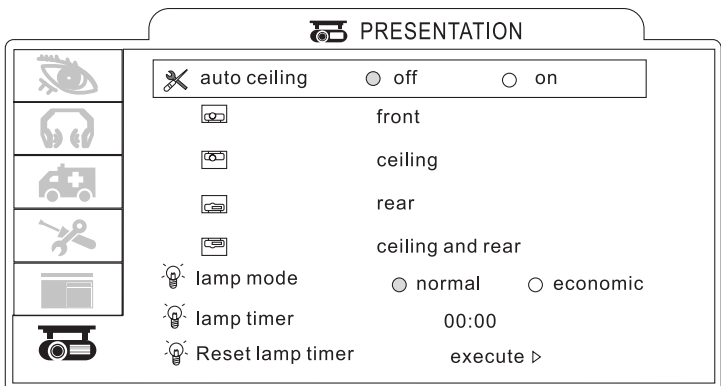| 4. ADVANCE		
Zoom / pan	Execute	Temporarily enlarge a portion of the image and view portions of the image that are not visible in the display area
Still	On / off	Freezes the current image on the screen
Blank	On / off	Hides the image, displays a blank, black screen ★ (see below)
Reset all	Execute	Resets all OSD Menu functions to their factory default values ★(see below)
Language	Eng	Select the language that the OSD Menu and on screen massage are displayed in English / Chinese(s) / Chinese(t) / Italian / Spanish / French / German
Select source		Select the input source from: Computer1 / computer2 (RGB) / Computer2 (Y, Pb, Pr) / DVI / video / s–video / Y Cb Cr
Computer2 mode	RGB / Y, Pb, Pr	Switches computer2 input: RGB /Y, Pb, Pr

- **Blank on**
  If the projector is left in Blank mode for more than 15 minutes, the projector will automatically shut off the lamp and enter cool–down mode.

- **Reset all**
  1. After you select [reset all] on the OSD menu, the following confirmation message will appear on the screen.

  Reset All ?

  Please, select No/Yes to return default settings.

  ↻ reset all   No ▷
                       Yes▷

  2. Please press the Menu–right button on the remote control or the button on the keypad to reset the OSD Menu values. Please ignore the message to exit the message without changing any settings.

ENGLISH

```
                    PRESENTATION

   auto ceiling        off          on

            front

            ceiling

            rear

            ceiling and rear
   lamp mode        normal      economic
   lamp timer         00:00
   Reset lamp timer     execute ▷
```

5. PRESENTATION		
Auto ceiling	On/off	Automatically inverts the image when the projector is turned upside down i.e. when the projector is mounted on the ceiling
Front	Execute	Normal projection mode
Ceiling	Execute	Inverts the image vertically, used when the projector is mounted upside down
Rear	Execute	Inverts the image horizontally, used when projecting onto a rear projection screen
Ceiling and Rear	Execute	Inverts the image horizontally and vertically, used when the projector is mounted upside down and projecting onto a rear projection screen
Lamp mode	Normal Economic	Economic mode reduces the lamp brightness economic to extend lamp life and quiet the projector
Lamp timer (★optional)		Lamp timer
Reset lamp timer (★optional)	Execute	After change a new Lamp, execute this function for reset the Lamp timer.(★see below)

- **Reset lamp timer**
  1. After you select [reset all] on the OSD menu, the following confirmation message will appear on the screen.

  Lamp Reset ?

  Please, select No/Yes to return default settings.

  ↻ Lamp reset   No ▷
                            Yes▷

  2. Press the Menu–right button on the remote control or the button on the keypad to reset the OSD Menu values. Press the ESC button or ignore the message to exit the Reset All function without changing any settings.

* *The replacement warning message is set to appear after about 2000 hours of lamp use in order to maintain the initial brightness and quality of the projected images. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.*

Maintenance and Troubleshooting

Cleaning the projector

Warning: Always unplug the projector before performing any maintenance.

Clean the projector case by wiping it gently with a soft cloth.

If necessary, the case can be cleaned using a neutral detergent and a soft cloth ensure the case is completely dry before turning the projector back on.

Cleaning the lens

Use a commercially available air blower, or use lens clean in g paper and lens cleaner approved for use on optical coatings.

Do not clean the lens with harsh materials or subject the lens to shock, as it can easily become damaged. Close the lens cover when the projector not in use.

ENGLISH

Cleaning the Air Filter

A. When the air filter becomes clogged with dust, etc., the projector may overheat and turn itself off to prevent internal damage.

When cleaning the filter, stand the projector up on its side to prevent dust from entering the projector. Use a vacuum to remove the dust from the outside of the air filter. Do not operate the projector with the air filter removed.
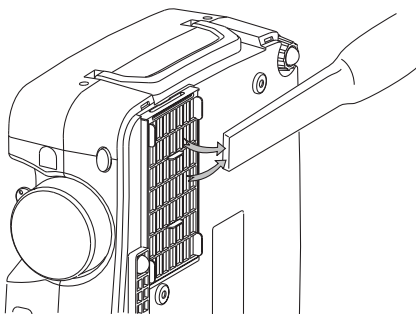
B. Clean the air filter every 100-hour s.

*   If the filter is difficult to clean or if it is deteriorating. it should be replaced
    1.Remove the filter cover from the bottom of projector.
    2.Pull out the air filter.
   3.Install the new air filter.
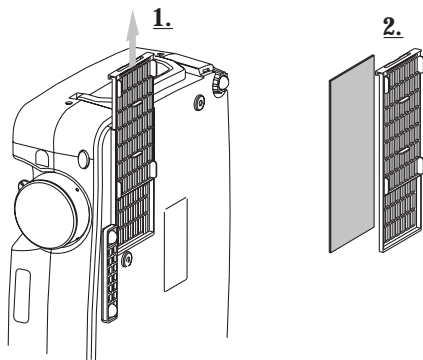
Replacing the Projection Lamp

The replacement warning message is set to appear after about 2000 hours of lamp use in order to maintain the initial brightness and quality of the projected images. When the lamp replacement message appears, replace the lamp with a new one as soon as possible, even if it is still working.

⚠ *Caution: The lamp and inside of the projector become very hot while the projection lamp is lit. Allow the projector to cool for at least 15 minutes prior to opening the lamp door.*

Lamp door release
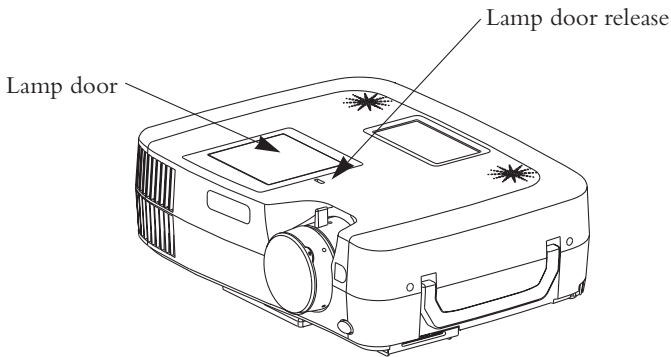
Lamp door

1. Release the Lamp Door Latch using a small screwdriver or similar tool to slide the latch towards the projector lens.
2. Remove the Lamp Door.
3. Remove the two Phillips head screws that hold the lamp in place.
4. Grasp the handle on the top of the lamp and pull the lamp straight up out of the projector.

⚠ *Warning: Do not touch the bulb. Touching the bulb will greatly decrease the life of the lamp and could cause the bulb to explode.*

5. Slide the replacement lamp into place and press firmly to seat the lamp.
6. Reinstall the screws removed in step 3.
7. Reinstall the lamp door and press on the side closest to the lens until the latch snaps into place and the lamp door is flush with the top of the projector.

Indicators

The Power and Lamp indicators show the status of the projector. Before requesting repair, check the projector status using the chart below. If the problem cannot be resolved contact your dealer.

Power (Green)	Lamp (Red)	Conditions	Notes
Slow flashing	Off	Stand by mode	★ Projector is ready to be turned on (normal)
On	Off	On mode	★ Projector is on and operating normally
On	Slow flashing	Cool-down mode	★ Projector is in cool-down mode and will not respond to user input (normal)
On	Fast flashing	Fan-fault mode	★ The projector has detected a problem with an internal fan, the lamp will shut off automatically, contact your dealer
Fast flashing	On	Lamp-cover open	★ The lamp cover is open or there is a problem with the lamp. If the lamp door is closed and replacing the lamp does not correct the issue, contact your dealer.
Fast flashing	Fast flashing	High temperature	★ The projector has overheated and shut the lamp off. Correct the over temp condition immediately. 1. Check that the ventilation slots are free from obstructions 2. If the condition persists, contact your dealer 3. Check the cleanliness of the air filter.

Symptom	Possible cause	Remedy
The power is not turned on	★ The main power switch is not turned on. ★ The power cord is disconnected.	★ Turn on the main power switch. ★ Plug the power cord into an AC power outlet
No video or audio	★ The input is not correctly connected. ★ No signal input	★ Select the appropriate input source ★ Connect correctly
No audio	★ The projector is not correctly connected. ★ The volume is set to minimum. ★ Mute is turned on	★ Connect correctly. ★ Press VOLUME+ on the remote control or display the menu screen and adjust the volume. ★ Press the MUTE button
No Image	★ The projector is not correctly connected. ★ The lens cover is still on	★ Connect correctly. ★ Remove the lens cover
Images are dark	★ Brightness and contrast are not correctly adjusted. ★ The lamp is nearing the end of its service life	★ Adjust the setting of Computer mode in the OSD Menu. ★ Replace with a new lamp.
Video is blurred	★ Focus or RGB phase is out of adjustment.	★ Adjust the focus phase.

ENGLISH

List of Supported Monitor Displays		
Signal	**Refresh Rate (Hz)**	**Resolution**
VGA	70	640x350
VGA	60	640x480
VGACGA	60	640x400
VGA text		720x400
VESA		720x350
VESA	60/72/75/85	640x480
SVGA	56/60/72/75/85	800x600
XGA	60/70/75/85	1024x768
SXGA	60/70/75	1280x1024
"TV (480i), NTSC"	60	
"TV (575i), PAL"	50	
SDTV (480p)	60	
HDTV (720p)	60	1280x720
HDTV (1080i)	30	1920x1080
Mac13	67	640x480
Mac16	75	832x824
Mac19	75	1024x768

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Specifications	
Projection Display	**Epson 0.9"/0.99" Poly-Silicon TFT LCDx3**
Resolution	True XGA, 1024x768
Projection Lens	Manual, F#1.7~2.41, f=33.4~43.3mm, zoom1
Image Size	30"~300"
Projection Distance	0.9M~10M
Uniformity	Typical 85%image center-to-corner
Color Temperature	6500K~9300K
Scanning Frequency	Horizontal: 15~107kHz, V-syns.43~120Hz
Video Compatibility	NTSC, PAL, SECAM, HDTV720P
Computer Compatibility	UXGA, SXGA, XGA, SVGA, VGA
Inputs / Outputs	Computer: x1 DVI-I
	Computer: x1 Mini D-sub 15pin(female)
	Monitor Out: x1 Mini D-sub 15 pin(female)
	Audio in 1: x1 Stereo mini jack
	Audio in 2: x1 Stereo mini jack
	Audio out 1: x1 Stereo mini jack
	Control(RS-232): x1 Mini D-sub 9 pin
	S-Video: x1 Mini DIN 4-pin
	Video: x1 RCA pin jack
	Mouse: x1 USB connector (B-type)
	Component x1 RCA pin jack
Power Consumption	300W at normal operation
Power Supply	300W fully range from 100V~240V 50 / 60Hz
Installation	Front / Rear / Ceiling
Dimension (WxHxD)	364x110x285 mm
Weight	5.9 kg
Operation Temperature	+5~+35 degree
Storage Temperature	–10~+60 degree
Operation Humidity	20~80%RH
Digital Keystone Correction	±15 degree (H/V)
Aspect Ratio	4:3 (support 16:9)