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# Projecto



About user's manual	1
Contents	2
Safety Instructions	4
Location of product safety labels	9
Checking the Package Contents	10
Part Names and Function	12
Main Unit	12
Control Panel	14
Rear View I/O Board	16
Bottom View	18
Remote Control	19
Inserting the batteries	20
Remote Control	21
Inserting the batteries	22
Installation	23
Setting up the projector	23
Screen size and projection distance	25
Adjusting the image position	26
Moving the projector	27
Turning on projector	28
Connecting PC to the projector	30
Software and Hardware Install - System Requirements	31
Software and Hardware driver - Installation	31
Software and Hardware driver - Function key of "Pointer"	38
Software and Hardware driver - Calibration	39
Software and Hardware driver - Function of icon	44

-2-

How to connect Desktop PC Laptop PC Video	<b>45</b> 45 46 47
Basic Operation	.48
Adjusting the screen image	48
Turning off the projector	49
Function of Menu(OSD) Keypad operating Computer mode	<b>50</b> .50 .51
Video mode Maintenance and Troubleshooting	58 66
List of Support Monitor displays	·73



 MARNING
 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).

-4-

#### 

#### 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 it could result in serious injury.

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 gets inside of the 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 could cause injury.

#### Do not open the cabinet.

Never open the cabinet. There is high voltage inside which can cause electrical shock.



#### Do not modify.

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

#### Do not use in the bathroom or near water.

Do not expose this unit to rain or use near water... for example, in the bathroom, a wet basement, near a swimming pool, etc...

#### Do not insert objects into the Projector.

Do not insert metal objects through the ventilation openings, etc., of this projector or drop such objects inside because this could result in fire, damage 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 household and where children are present.

-5-

# 

## 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.



#### Do not shine the laser beam onto yourself or other persons.

The laser pointer function of projector remote control emits class II laser beam.Do not look directly into the laser beam 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 performing any maintenance on 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 terminals 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 regularly.

#### 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.



# **▲** 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 shock.

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.

-8-

# Location of product safety labels

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



-9-



# **Checking the Package Contents**



-11-	
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# **Part Names and Function:**



#### 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. Front IR receiver

When using the remote control, point the remote control at this sensor.

-12-



#### 4. Filter cover

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

5. Front adjustable foot

Raise & lower to adjust the projection elevation.

- **6. Foot adjust button** Lock/unlock the adjustable foot.
- 7. Lens cover

Close when not using to protect the lens from becoming dirty or damaged.

8. Control panel (keypad)

Operating system.

-13-

# **Control panel**



#### 1. Power button

Power on / operation mode, Standby mode, Cooling-down mode Brightness function, when sensor detects the surrounding light lower than 150 lux,"power button" will flash blue.

#### 2. Input

Selects between RGB input source-Computer  $1 \rightarrow$  Computer 2(RGB or YPbPr)  $\rightarrow AV \rightarrow S$ -Video  $\rightarrow$  Computer 1, System will auto detect YPbPr or RGB signal in computer 2 port.

#### 3. Blank

Blanks the projected image. If the projector is left in blank mode for more than 15 minutes, the projector will automatically shut down.

#### 4. Auto

Automatically adjusts the setting to match the current input.

-14-



#### 5. Menu

Display or hides the OSD main menu page.

# 6.Menu-up /down, Menu-right / left

Selecting OSD menu item up or down. Selecting and adjusting the function of OSD menu item

7. Keystone

Adjusts the vertical keystone with menu-right, menu-left

8. Power indicator

Lights on or flashes to indicate the operating status of the projector (See Page 53)

9. Lamp indicator

Indicate a problem in the internal projector temperature, lamp cover or cooling down. (See Page 53)



# **Rear View / IO Board**



#### 1. Computer in 1

Input Analog RGB video signal from a computer

## 2. Computer in 2 /YPbPr

When input signal from computer 2, it may encounter incorrect picture color. Please press "Auto" button again. The picture will be corrected.

#### 3. Monitor out connector

Connect an external monitor to this connection view the Computer1 input.

#### 4. Control (RS-232C)

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

#### 5. S-Video connector

S-Video signal from a video source.

-16-



#### 6. Video in

Component video signal from a video source.

#### 7. Audio out

Connecting to an external speaker system.

8. Audio in

Stereo mini jack for PC input

9. USB mouse connector

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

- **10. Power socket** Connects the power core to this connection.
- **11. Power switch** Turns the power on/off.

#### 12. Rear IR receiver

When using the remote control, point the remote control at this sensor.

-17-

# **Bottom View**



# 1. Mounting bracket holes (4 points)

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

## 2. Air filter cover

Prevents dust and other foreign particles from getting into the projector



## **Remote Control**

1. Power

Power on / operation mode, Standby mode, Cooling-down mode

#### 2 Esc

Press"ESC"button, it will close"Menu" picture.

**3. Volume up/ down** Sound louder or lower

- **4. Menu** Display or hide the OSD main menu page.
- 5. Keystone

Adjusts the vertical keystone function.

6.Still

Keep the current image on the Screen.

#### 7.Blank

Hide the current image, become black color on the screen.



- 9. Menu down/ up, Menu left/right Selecting and adjusting the function of OSD
  - **10. INPUT source** Select input source: Computer 1→Computer 2 → Composite Video→ S-Video→Computer 1

-19-

ዓ

ESC

MENU

Keystone

Still

INPU T

Auto

Blank

# **Remote Control Batteries Installation**

- 1. Remove the battery cover.
- 2. Load the batteries. Make sure the plus and minus are correctly oriented.
- 3. Close the battery cover.





- 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 operation 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 contact your dealer



# Installation Setting Up the Projector

The projector supports the following four different projection methods

• Front projection



- A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for details.
  - -23-

• <u>Rear ceiling projection</u>



A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for details.



**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)		
	Tele	Wide	
40	1.37	1.11	
60	2.08	1.7	
80	2.78	2.29	
100	3.49	2.88	
150	5.26	4.36	
200	7.03	5.83	
300	10.57	8.79	

-25-

# **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, so use the keystone correction function to correct the 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.
- 2. Shut the lens cover and retract the front adjustable feet when transporting the projector to prevent damage.



#### carry bag

(Optional, please contact your dealer for more information)

# **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.

-27-

# **Turning on projector (1)**



- 1 Open the lens cover.
- **2** Connect the projector's power cable with the projector, and insert the power cable into a wall socket.
- **3** Turn on the AC power switch of projector. The power indicator is green and slowflashing. Projector is in standby mode.
- 4 Press the [Power] button to turn on the projector. The power LED appears green and lamp LED appears red,Indicating the lamp is lit.

-28-

# **Turnung on projector (2)**

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



# Input

# WARNING

If no image is displayed , change the input

-29-

# **Connecting PC to the projectorFirst**



First connect VGA cable then the USB cable.



# **1.Section one** : System Requirements

System Requirements		
OS Required	Microsoft Windows2000(SP4)XP(SP2)above	
Processor Type	Intel Pentium IV or above	
RAM	256 MB or above	
Min. Free disk space	30 MB	
	CD-ROM Driver & available USB 2.0 port	

# 2.Section two(A) : LightPen software Setup. Please connect VGA cable and USB cable before setup.

- Step 1 : Insert the Disc to the PC.
- Step 2 : Execute LightPen\ setup.exe
- Step 3 : Next.



-31-

# 2.Section two(A):

# Step 4: Next

Light	Pen - InstallShield Wizard
Lie	cense Agreement Please read the following license agreement carefully.
	License For Use And Distribution 1. All copyrights to LightPen are exclusively owned by Everest Display Inc. 2. The LightPen may be freely distributed, with exceptions noted below, provided the distribution package is not modified. No person or company may charge a fee for the distribution of LightPen, without written permission from the copyright holder. The LightPen may not be bundled or distributed with any other package without written permission of the copyright holder. 3. LightPen is distributed ''as is''. No warranty of any kind is expressed or implied. You use at your own risk. Everest Display Inc. will not be liable for data loss, damages, loss of profits or any other kind of loss while using or misusing this software.
Instal	I accept the terms of the license agreemen ○ I do not accept the terms of the license agreement Shield < <u>Back</u> Next > Cancel



2.Section two(A):

Step 5: Install

ghtPen - InstallShield Wizard		
Ready to Install the Program		A STATE
The wizard is ready to begin installation.		
Click Install to begin the installation.		
If you want to review or change any of yo the wizard.	ur installation settings, click Back	Click Cancel to exit
and the formation		
stalipritelu	< Back Install	Cancel
		Curicer

-33-

# 2.Section two(A) :

# Step 6: Finish ("LightPen" software installation)

LightPen - InstallShield Wizard	
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed LightPen. Click Finish to exit the wizard.
	< Back Finish Cancel
	-34-

If LightPen work correctly, please don't install from Step 7 to step 9.

2.Section two(B) : SP driver setup

Please execute" LightPen \SP Driver\Setup.exe".

Step 7:"Choose Setup Language" as Step 1,then select"OK" to install "USB Camera driver".



Warning ! If shown"The USB Carema-SP has not found ! "please plug inthe USB Cable and then run installation again. Please click" OK" as below.

USB Camera-SP ¥er. 5.8.25000.502 - InstallShield ₩izard 🛛 🔀		
⚠	The USB Camera-SP has not found! Please plug in the USB Camera-SP and then run installation again	
	ОК	

-35-

# 2.Section two(B):

# Step 8 : Next



-36-

# 2.Section two(B):

# Step 9 : Finish(SP Driver installation)



-37-

# 3.Section three: Functional key of "Pointer"



-38-

Step 1: Execute "LightPen" shortcut desktop.



on the Windows

Step 2: Located the "LightPen" Icon in your toolbar & then right click with your mouse to select Calibration.



Step 3: Locate the green square in the upper-left of the screen. Place the E-Wand/E-Pen in the center of the square and click the button on the handle to execute. Repeat this process nine times to complete the calibration process.



-40-

How to use the "Right Mouse Click "? Point to the top or bottom of the screen just outside the border of the image and push the button to bring up the menu.



There is another quick way to move the toolbar from one side of the screen to the other or even hide it.

Point to the left or right of screen just outside the border & push the button on the "Pointer".



# 5.Section five: Toolbar Options

	11000
Toolbar location	
Push the button of "wand/pen" to relocate this	
on either the right-side or left-side of screen.	
Mouse	
	1
Pen	9
	2
Eraser	
Select the line thickness	
Select the color of pen	
Erase all	HXII
	5
Save files	4
Becall	5
Recall	4
	[
Virtual keyboard	See.
*	i

-44-

# How to Connect

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

#### 1. Connect the computer cable.

- 1.1 Connect either end of the vga cable to the computer computer 1/ computer port.
- 1.2 Dsconnect 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 screws on all connectors.



#### 2.Connect the audio cable if necessary.

- 2.1 Connect one end of the audio cable to the Audio in jack on the projector.
- 2.2 Connect the other end of the audio cable to the audio output port on the computer sound card.



# 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.

-49-

# Laptop PC

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 1 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 jack on the projector.
  - 2.2 Connect the other end of the audio cable to the audio output port on the laptop PC.



# Video

# Connect to a video source

The Projector can receive composite AV, YPbPr and S-Video.

- 1 Connect RCA plug at projector and video source ( like DVD player) for video signal.
- 2. Connect RCA plug (white and red) to audio source (like DVD player) and connect the phone jack to projector for audio signal.



- 3 . Connect YPbPr plug at projector computer in 2 port and video source (like DVD player) for video signal.
- 4 For S-Video, using S-Video cable connect to projector and video source for video signal.



-47-

## Adjust the Screen Image

**1.** Adjusting the image size

Turn the zoom ring on the projector to adjust the image size.

#### 2.Adjusting the image height.

Extend or retract the front adjustable feet 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



-48-



-50-

# Computer mode

		🐱 I	PICTURE	
		brightness	050	
		contrast	050	
No el		sharpness	050	
<u> </u>	- 85	display mode	Video	
	•	user red	050	
- Ale	6	user green	050	
ā	в	user blue	050	
		Press "Menu"	again to exit.	

1. PICTURE			
Brightness	000/100	Adjusts the overall image brightness	
Contrast	000/100	Adjusts the difference between light and dark	
		areas of the image	
sharpness	000/002	Adjusts the image sharpness	
Display mode	node Select		
	Powerful	Enhance brightness	
	Video	Keep the soft tender color	
Presentation For computer presentation us		For computer presentation use	
	Natural	Nature color	
	Cinema	Enhance contrast mode for Cinema mode	
	User	adjustments of each RGB color	
	User Red	000/100	
	User Green	000/100	
	User Blue	000/100	

-51-



2. AUDIO			
Volume	000/040	Adjusts the volume	
Mute	off/on	Mutes the volume on/off	



	🤼 SET	TING		
	👄 h position	050		
	🂲 v position	050		
No ch	🚥 phase	050		
411	🗯 frequency	050		
	🛄 Auto keystone	🔘 off	🧉 on	
- <u>-</u>	듙 keystone V	+000		
	😅 auto sync	ex	ecute	
	🆺 auto search	🔘 off	🧿 on	
	Press "Menu" ag:	ain to exit.		

3.SETTING			
H position	000/100	Move the image position horizontally	
V position	000/100	Move the image position vertically	
Phase	000/100	Set the synchronization polarity	
Frequency	000/100	Set the horizontal scanning frequency	
Auto keystone	execute	Automatically Corrects keystone distortion in image i.e.	
		press once to do once	
Keystone V	-80/+80	Corrects vertical keystone distortion in image	
Auto sync	execute	Sets all of the above settings automatically	
Auto search	off/on	Search signal source automatically.	

-53-

	<b>%</b> .	ADVANCED		
	🔚 zoom / pan		execute	
	still	🧿 off	🥥 on	
(s cl)	🛑 blank	🧿 off	🔘 on	
<u> </u>	😅 reset all		execute	
	🚍 resize		4:3	
×~	💽 language		english	Ď
ā	📑 select source		execute	
	Press "Menu"	again to exit.		



-54-

4.ADVANCE			
Zoom/pan	execute	Execute digital zoom and pan function	
Still	on/off	Freezes the current image on the screen.	
Blank	on/off	Hide the image, displays a blank, black screen*(see below)	
Reset all	execute	Resets all OSD Menu function to their factory default	
		values*( see below)	
Resize	4:3/16:9	Select the image size	
Language	English	Select the language that the OSD Menu and on screen	
		massage are display in English / Chinese(s) / Chinese(t) /	
		Italian / Spanish / French / German / Korean / Polish	
Select source	execute	Select the input source from:	
		Computer 1 / Computer2 (RGB or YPbPr) / Video / S-Video	

# 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 men u, the following confirmation message will appear on the screen.

Reset All ?		
Please, press	reset key to return defau	ult setting.
C reset all	execute	Þ

2. Press reset 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.

-55	-
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5.PRESENTATION			
Auto ceiling	off/on	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	execute	Inverts the image horizontally and vertically, used	
Rear		when the projector is mounted upside down and	
		projecting onto a rear projection screen	
Auto Brightness	off/on	Auto detects brightness; it turns to economic mode	
		automatically when the brightness is low.	
Lamp mode	normal	Economic mode reduces the lamp brightness	
(some model doesn't	economic	economic to extend lamp life and quiet the	
have this mode)		projector	
Lamp		Show Lamp timer	
Reset lamp timer	execute	After changing a new lamp, execute this function	
(optional)		for reset the Lamp timer.(see below)	

-56-

# **Reset Lamp Timer**

1.After you select [ Reset Lamp Timer ] on the OSD menu, the following confirmation message will appear on the screen.



2.You choose [ Yes ] , It will reset the lamp time back to  $\ \ [ \ 0 \ ]$  .

\*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

	DIC 🚵 PIC	CTURE	
XOX	😝 brightness	050	
	🥏 contrast	050	
No ell	🏮 sharpness	050	
<u> </u>	📲 color	050	
	📟 tint	050	
- A	🗞 display mode	Video	$\triangleright$
一一一	👩 user red	050	
	👩 user green	050	
	📧 user blue	050	
Press "Menu" again to exit.			

1. PICTURE			
Brightness	000/100	Adjusts the overall image brightness	
Contrast	000/100	Adjusts the difference between light and dark	
		areas of the image	
sharpness	000/002	Adjusts the image sharpness	
Color	000/100	Adjusts the image color	
Tint	000/100	Adjusts the image tint	
Display mode		Adjusts the color temperature of the image	
	Powerful	Enhance brightness	
	Video	Keep the soft tender color	
	Presentation	For computer presentation use	
	Natural	Nature color	
	Cinema	Enhance contrast mode for Cinema mode	
	User	adjustments of each RGB color	
	User Red	000/100	
	User Green	000/100	
	User Blue	000/100	

-58-

	୍	AUDIO	
	🕼 volume	030	
	🚫 mute	🤦 off	🔵 on
<b>6</b> 3			
- Jo			
<b>T</b>			
Press "Menu" again to exit.			

2. AUDIO			
Volume	000/040	Adjusts the volume	
Mute	off/on	Mutes the volume off/on	

-59-

	🤼 SET	🥵 SETTING			
	🛄 Auto keystone	🔘 off	🥝 on		
	👕 keystone V	+000			
N5 CB	📕 auto search	🥥 off	🭊 on		
613					
- A					
Press "Menu" again to exit.					

3.SETTING			
Auto keystone execute Automatically Corrects keystone distortion in image			
		i.e. press once to do once	
Keystone V	-80/+80	Corrects vertical keystone distortion in image	
Auto search	off/on	Search signal source automatically.	

-60-

	💥 A1	DVANCED		
	🔚 zoom / pan		execute	
	still	🦲 off	🔘 on	
(15 cl)	🛑 blank	🧿 off	🔘 on	
<u> </u>	😅 reset all		execute	$\triangleright$
	🚍 resize		4:3	
×~	🚭 language		english	$\mathbf{D}$
ā	📲 select source		execute	



-61-

4.ADVANCE				
Zoom/pan	execute	Execute digital zoom and pan function		
Still	on/off	Freezes the current image on the screen.		
Blank	on/off	Hide the image, displays a blank, black screen*(see below)		
Reset all	execute	Resets all OSD Menu function to their factory default		
		values*( see below)		
Resize	4:3/16:9	Select the image size		
Language	English	Select the language that the OSD Menu and on screen		
		massage are display in English / Chinese(s) / Chinese(t) /		
		Italian / Spanish / French / German / Korean / Polish		
Select source	execute	Select the input source from:		
		Computer 1 / Computer2 (RGB or YPbPr) / Video / S-Video		

#### 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

settings.

1. After you select [reset all] on the OSD men u, the following confirmation message will appear on the screen.

	ResetAll? Please, press_reset ł	key to return defau	ılt setting.	
	C reset all	execute	Þ	
2.	Press reset button on the ren keypad to reset the OSD Me the message to exit the Rese	note control or the enu values. Press the F	button on ESC button of t changing an	the r ignore

-62-



5.PRESENTATION			
Auto ceiling	off/on	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	execute	Inverts the image horizontally and vertically, used	
Rear		when the projector is mounted upside down and	
		projecting onto a rear projection screen	
Auto Brightness	off/on	Auto detects brightness; it turns to economic mode	
		automatically when the brightness is low.	
Lamp mode	normal	Economic mode reduces the lamp brightness	
(some model doesn't	economic	economic to extend lamp life and quiet the	
have this mode)		projector	
Lamp		Show Lamp timer	
Reset lamp timer	execute	After changing a new lamp, execute this function	
(optional)		for reset the Lamp timer.(see below)	

-63-

# **Reset Lamp Timer**

1.After you select [ Reset Lamp Timer ] on the OSD menu, the following confirmation message will appear on the screen.



2.You choose [ Yes ] ,the lamp timer will reset back to  $\ \ [ \ 0 \ ]$  .

\*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.

-64-

# **Ceiling Mounted Installation Guide**

Attach the optional ceiling mount at four-suspension bracket fixing points when suspending the from a ceiling.



\*A special method of installation is required in order to suspend the projector from the ceiling. Please ask your dealer for more details.

-65-

# Maintenance and Troubleshooting

# 1.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.

#### 2.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.

#### **3.**Change Air Filter

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

Clean the air filter every 100-hours or as often as needed

\**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.



-66-

# 4.Q: Why can't I install the program?

A: You might need to log in as "administrator" before you can install the software on your computer. Ask your IT department for assistance

# 5.Q: Why is it showing "No lightpen found"?

**A:** The possible reasons for this might be:

(1).USB cable might not be making a good connection. Please check and make sure the cable is well connected between the PC and Projector.

\* Some Anti-virus program will disable the USB port. Please close the anti-virus program and start the "LightPen" program again.

- (2).USB driver is not properly installed
- (3).The length of USB cable is too long. The USB cable should be shorter than 1.5M. If you require a longer cable ,then please purchase the proper USB extension cable from your dealer.
- (4).USB port on computer malfunction Please make sure the USB port is working properly. If not

Please make sure the USB port is working properly If not, please contact your IT department.

Some note book computers will disable USB ports when the battery is low. Please try to use AC power. Some note book computers do not provide standard 500mA to the USB ports or the USB converter is not working properly, in this case please use our standard USB cable.

# 6.Q: Why the green cross target does not appear after running lightpen calibration?

**A:** This is signaling too weak caused by using USB cable either poor quality or too long. Try a better quality USB cable or use proper USB extension cable.

# **7.Q:** Why can't I make the green cross target turn into black in calibration procedure?

**A:** Possible reasons are the wand or light pen is out of battery or the system is not working properly because of strong ambient light interference.

-67-

# 8.Q: Why the green cross target turns into black itself?

A: This is caused by strong ambient light interference. Try to control the ambient light.

# 9.Q: What is considered as "strong ambient light interference"?

A: Strong ambient light is usually caused by the following: (1).Sun light directly on the projector screen.

# 10.Q: Why is the cursor not at the position pointed?

A: The possible reasons for this are:

- (1). The system needs to be recalibrated. Try to point to the "center" of green cross target when calibrating the screen.
- (2). The position of the projector, screen or projection size has been changed
- (3).The image resolution has been changed Run the calibration procedure again to resolve the problem.

# **11.Q:** Why is the lightpen not working?

**A:** The reasons for this are:

- (1).When using the lightpen, writing outside of the screen area won't work because signal can't be received by the sensor.
- (2).Lightpen battery is low or battery cap is loose.
- (3).Strong ambient light interference.
- (4).USB cable not well connected.

# 12.Q: Why is the cursor jumping?

**A:** This is caused by strong ambient light interference. Try to avoid strong ambient light interference especially direct sunlight on the screen .

-68-

# 13.Q: Why is the lightpen not working after the computer wake up from standby?

**A:** In some cases if the computer goes into standby mode, the computer will shot the USB port. In this case, close the light pen program and then run it again.

# Remarks

**1.**The lightpen is working on light signal. Strong ambient light interference will cause it to work abnormally. Make sure there is not strong ambient light (ex. Sunlight or Tungsten lamp directly projection to the screen or the sensor.

- 2. The operation system must be Windows 2000 service pack 2 and above. USB port must support USB2.0.
- **4.**It is required to use USB cable shorter than 1.5m For more longer requirement such as ceiling application, please contact with your dealer to purchase proper USB extension cable.

-69-

# Lamp Replacement

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

-70-

# 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	Lamp	Conditions	Notes
(Green)	(Red)		
Slow	Off	Stand by	*Projector is ready to be turned on (normal)
flashing		mode	
On	Off	On mode	*Projector is on and operating normally
•			
On	Slow	Cool-down	*Projector is in cool-down mode and will not
	flashing	mode	respond to user input (normal)
	-``,-		
On	Fast	Fan-fault	* The projector has detected a problem with
•	flashing	mode	an internal fan, the lamp will shut off
	-)•(-		automatically, contact your dealer
Fast	On	Lamp-cover	*The lamp cover is open or there is a
flashing	0	open	problem with the lamp. If the lamp door is
-```			closed and replacing the lamp does not
		1	correct the issue, contact your dealer.
Fast	Fast	High	*The projector has overheated and shut the
flashing	flashing	temperature	lamp off. Correct the over temp condition
			Immediately.
			from obstructions
			2 Check the cleanliness of the air filter
			3 If the condition persists contact your
			dealer
Slow	Slow	Lamp-fault	The lamp does not light., come back "stand
flashing	flashing	mode	by mode", and turn on the power button.

-71-

Symptom	Possible cause	Remedy
The power is	*The main power switch is not	*Turn on the main power
not turned on	turned on.	switch.
	*The power cord is disconnected.	*Plug the power cord into an
		AC power outlet
No video	*The input is not correctly	*Select the appropriate input
	connected.	source
	*No signal input	*Connect correctly
	*No open lens cover	*Remove the lens cover
No audio	*The projector is not correctly	*Check audio cable connect
	connected.	correctly.
	*The volume is set to minimum.	*Adjust the volume.
	*Mute is turned on	*Press the MUTE button
No remote	*No battery	*Check battery of remote
function	*Remote signal be obstructed	controller
		*Remove obstacle between
		projector and remote controller
Colors are	*Color density and color matching	*Adjust the RGB setting.
pale	are not correctly adjusted.	*Check VGA cable.
	*Color lose	
Abnormal	*Brightness and contrast are not	*Adjust the brightness and
brightness &	correctly adjusted.	contrast setting.
contrast	*The lamp is nearing the end of	*Replace with a new lamp
	its service life	
Video is	*Focus or RGB phase is out of	*Adjust the focus and phase.
blurred	adjustment.	

Note : Although bright spots or dark spot may appear on the screen ,this is a unique characteristic of liquid crystal displays, and it does not constitute or imply a machine defect.

-72-

List	t of Supported Monitor	<sup>.</sup> Displays		
Computer mode				
Signal	Refresh Rate(Hz)	Resolution(dots)		
VGA	60	640X480		
VESA	60/72/75/85	640X480		
SVGA	56/60/72/75/85	800X600		
XGA	60/70/75/85	1024X768		
SXGA	70/75	1152X864		
SXGA	60/75	1280X960		
SXGA	60	1280X1024		
MAC	67	640x480		
MAC	75	832x624		
MAC	75	1024x768		
MAC	75	1152x870		
Component(YPbPr	r)			
Signal	Refresh Rate(Hz)	Resolution(dots)		
SDTV(480i)	30	720X480		
SDTV(480p)	60	720X480		
HDTV(720p)	60	1280X720		
HDTV(1080i)	30	1920x1080		
Composite/S-video		·		
Signal	Refresh Rate(Hz)	Resolution(dots)		
TV(NTSC)	60	720X480		
TV(PAL,SECAM)	50	720X576		

-73-