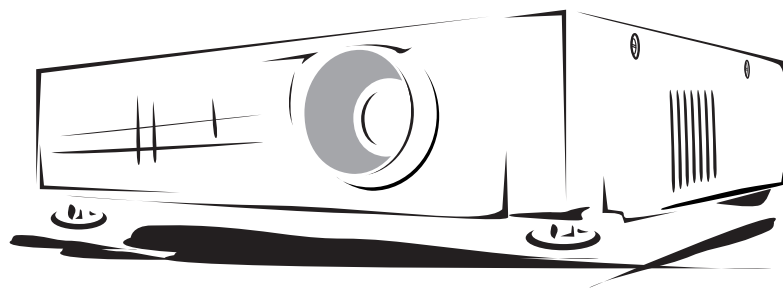


**MICROTEK**  
Digital Projector

## **User Guide**



***VS1 Value Series***



## FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Canada

This class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

## Safety Certifications

UL, CUL

## EN 55022 Warning

This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room or auditorium.

## Declaration of Conformity

We declare under our sole responsibility that the Zoom Digital Projector conform to the following directives and norms:

Directive 89/336/EEC, Amended by 93/68/EEC

EMI: EN 55022 (1992) Class A

EMC: EN 50082-1 (1992)

IEC 801-2, IEC 801-3, IEC 801-4

Directive 73/23/EEC, Amended by 93/68/EEC

Safety: EN 60950: 1992 + A1 + A2 + A3: 1995

## Taiwan BSMI



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## Introduction

This easy-to-use LCD Digital Projector offers superb image quality at an affordable price, with a built-in Image Manger feature for selecting the image display setting best suited for your specific presentation material and projection environment.

In just minutes, you can have your LCD Digital Projector ready to go. Just connect the projector to an image source such as a computer, DVD, VCR, or digital camera.

If you are familiar with connecting and using digital projectors, refer to the **Quick Start Guide** included with the projector. If not, follow the directions in this user guide to connect your projector and run your presentation.

## What's in the Box

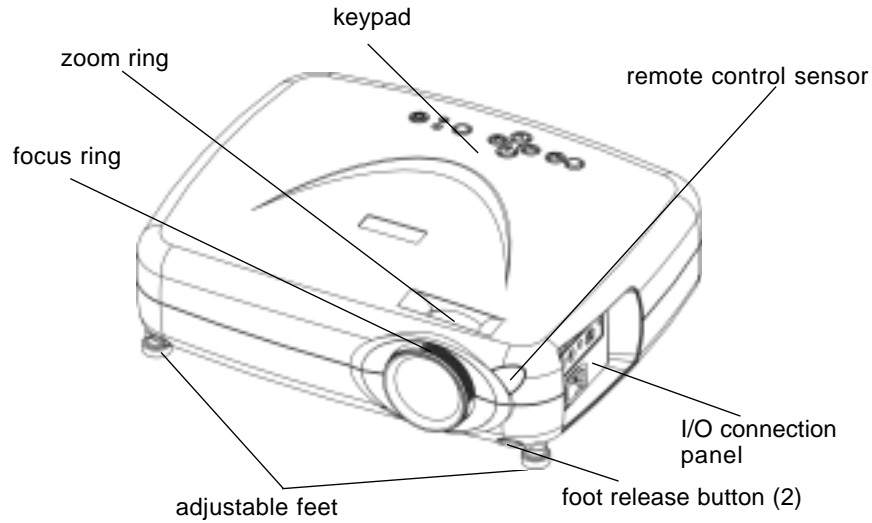
Make sure that all of the following components below are included with the projector. Contact your dealer immediately if anything is missing.

- Soft carrying case
- Lens cap
- Analog RGB (15 Pin HD) cable
- S-video cable
- Composite video cable
- Stereo audio cable – 1/8" mini-plug
- RCA audio cable to 1/8" mini plug
- USB cable
- Power cord
- User Manual
- Quick Start Guide
- Remote control
- MACINTOSH adapter

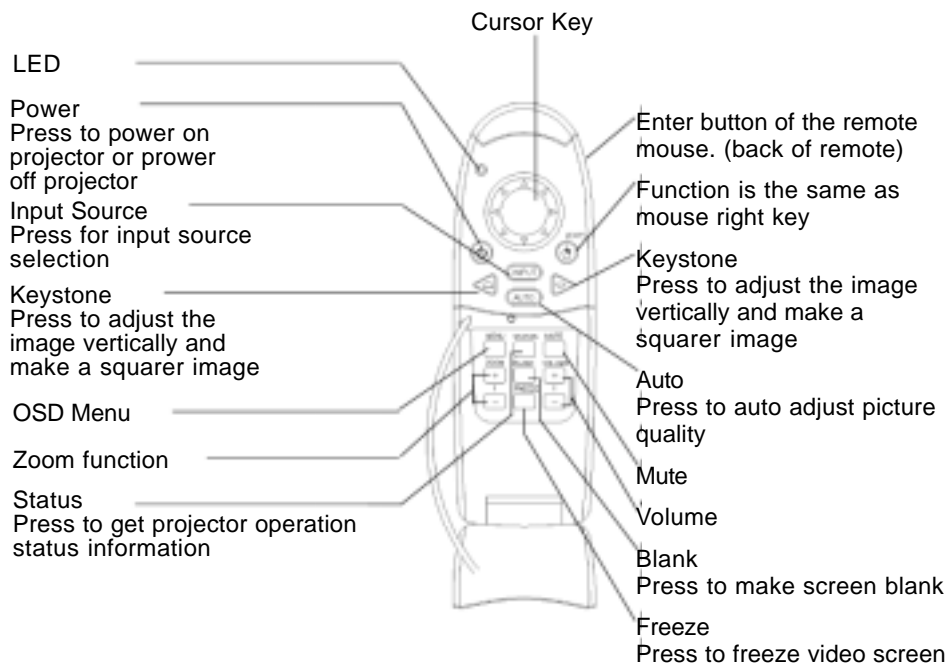


## Projector Features

### Projector Features



### Remote Instruction





## How to use the Remote

Install two AAA batteries into the remote.

### Remote mouse function

The flip cover must be closed and the remote mouse function must be working.

### OSD Menu Function

- The flip cover must be open.
- Press "Menu" to enter the OSD menu.
- Up/down arrow of the cursor key is the same as ▲/ ▼ shown in the OSD menu.
- Left / right arrow of the cursor key is the same as - / + function.
- Exit is the same as ↵ to exit OSD menu.



## Connecting the Projector

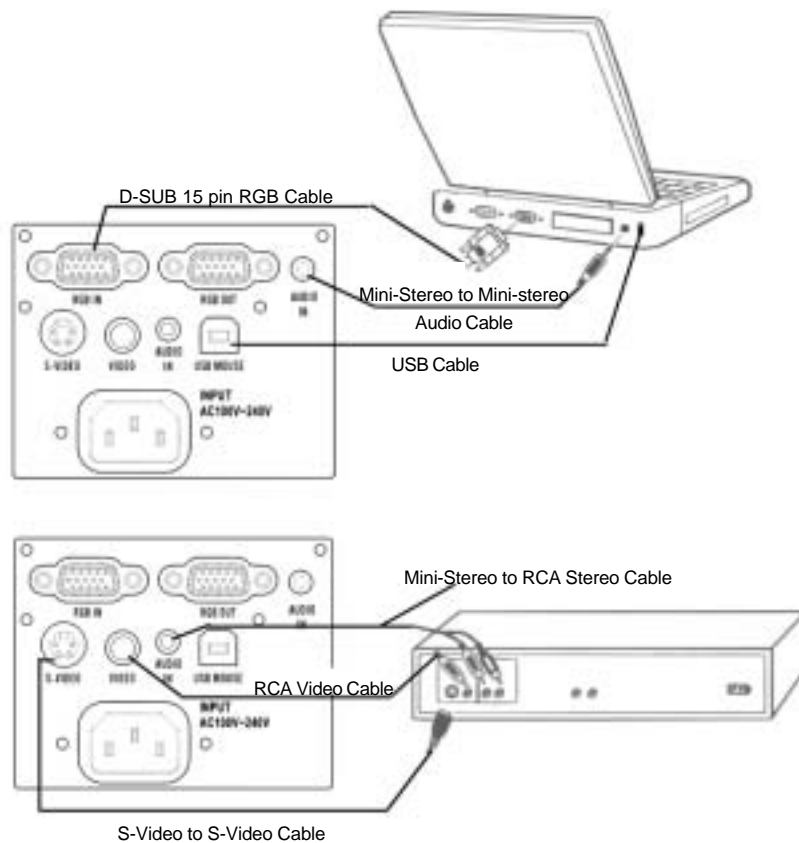
### Connecting the Projector

The cables are color coded to assist you in making the connections. When you connect the power cable to the projector, the Power LED on the keypad will be turned on.

You can connect more than one image source at a time. The image source can be either automatically selected, or you can switch the "AUTO SOURCE" function in the OSD menu and change to manual selection. Manual selection is operated by pressing the "INPUT" key.

If you are using an older MACINTOSH computer, you may need to use the MACINTOSH adapter that was included with your projector.

**Warning: Always turn off the image source (computer or video source) and projector before connecting or disconnecting cables.**







## LCD Projector User Guide

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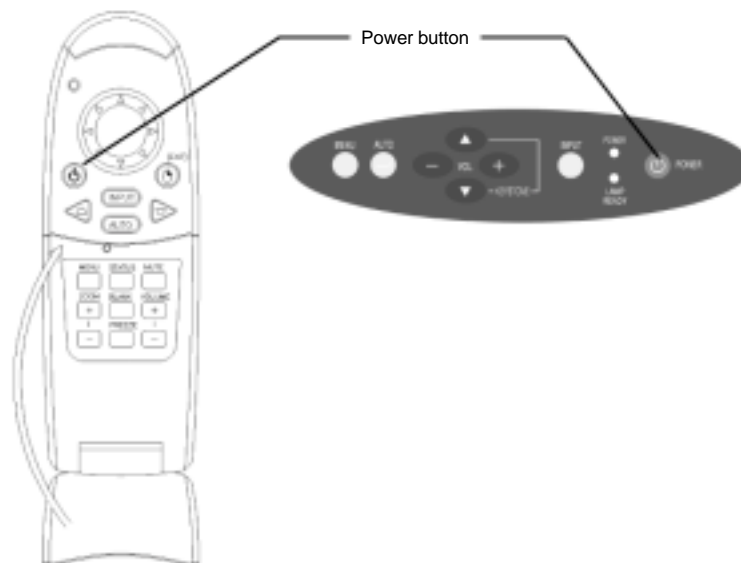
### Starting the Presentation

We recommend turning on the projector and image sources in the order listed here.

1. Connect the signal cable to the computer or video source.
2. Connect the power cord to the projector and to a power source. The Power light begins to blink.
3. Turn on the presentation components in the order listed. To turn on the projector, remove the lens cap and press the Power button on either the remote control or the keypad when the lamp ready LED is on.

Note: Not all these components may be needed for your presentation, but an exhaustive list is presented below for reference.

- Video source such as VCR, VCD, DVD or digital camera
- Audio source if different from your video source or computer
- Projector
- Computer



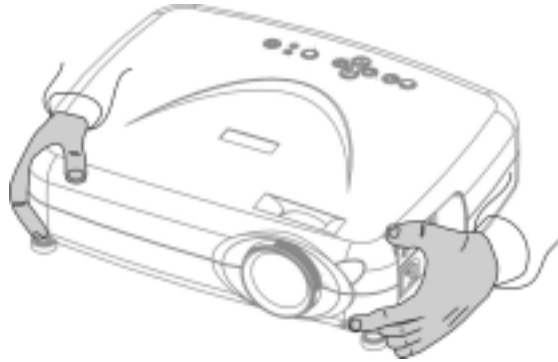
**Note :** Many laptop computers do not automatically turn on their external video port when another display device is connected. Refer to your computer's user guide for the function key or command that activates the port. MAC users may need to turn on SimulSCAN or monitor mirroring. Refer to the computer manual.





### Starting the Presentation

4. Position the projector by using the adjustable feet on the bottom of the projector. Press the foot release buttons in the front of the projector to raise or lower the feet.



5. Turn the focus ring to focus the image and turn the zoom ring to zoom in or zoom out on the image.
6. Make any necessary image adjustments by using the on-screen menus.

### Turning Off the Projector

Turn off the projector and image sources in the order listed here.

#### To turn off the projector:

1. Press the Power button on the keypad or remote control.  
A confirmation screen appears.
2. Press the Power button again to confirm.  
The lamp turns off immediately but the fan continues to run until the projector cools down (within 60 seconds).

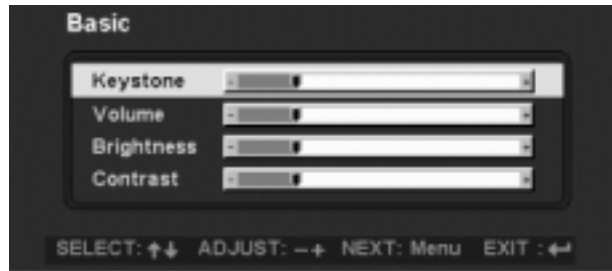
Note: Not all these components may be needed for your presentation, but an exhaustive list is presented below for reference.

- Computer
- Projector
- Audio source if different from your video source or computer
- Video source such as VCR, DVD or digital camera



## OSD Menu Format and Description

### Basic Menu



How to navigate the menus :

Use the up /down keys to select function items.

Use the - and + keys to adjust value.

Hit ↵ to exit.

### Keystone correction

Description: Use the - and + keys to adjust the keystone level of display.

### Volume

Description: Use the - and + keys to adjust the volume level.

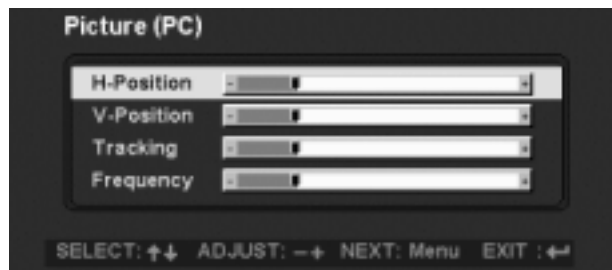
### Brightness

Description: Use the - and + keys to adjust the display brightness.

### Contrast

Description: Use the - and + keys to adjust the display contrast.

### Picture Menu at PC Mode



Description : Use the up and down keys to select item.

Use the - and + keys to adjust value.

Hit ↵ to exit.



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## OSD Menu Format and Description

### Horizontal position (Data only)

Description: Use the - and + keys to adjust the display position horizontally .

### Vertical position (Data only)

Description: Use the - and + keys to adjust the display position vertically.

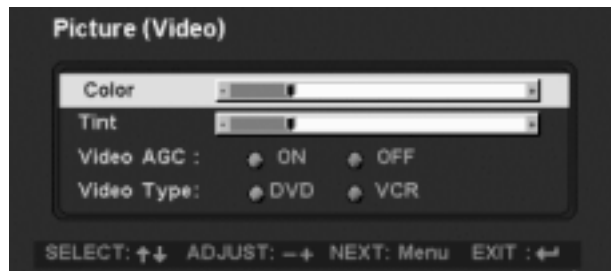
### Tracking (Data only)

Description: Use the - and + keys to adjust the sampling number.

### Frequency (Data only)

Description: Use the - and + keys to adjust the sampling clock.

### Picture Menu at Video Mode



Description: Use the up and down keys to select item. Use the - and + keys to adjust value. Hit ↵ to exit.

### Tint (Hue) (NTSC Video only)

Description: Use the - and + keys to adjust the video tint/hue.

### Color (Saturation) (Video only)

Description: Use the - and + keys to adjust the video saturation.

### Video AGC (Video only)

Description: Use the - and + keys to adjust the video automatic gain control.

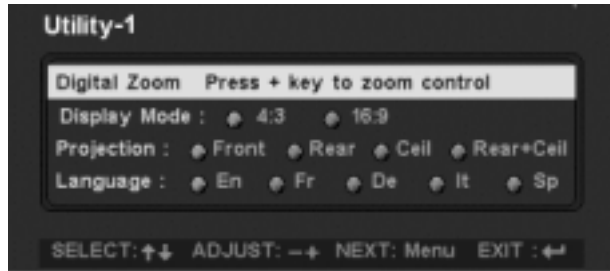
### Video Type (Video only)

Description: Use the - and + keys to adjust the video source type.

DVD mode: Best quality mode.

VTR mode: Enable the video tape player mode for best compatibility.

## Utilities - 1 Menu



Description : Use the up and down keys to select item.  
Use the - and + keys to adjust value.  
Hit ↵ to exit.

### Digital Zoom & Pan

- Description : Press + to enter zoom mode.  
Zoom: Use "+" key to zoom.  
Pan: 1. Press "Menu" to enter panning.  
2. Press "+" to pan to right; "-" pan to right  
3. Press ▲ to pan upward; ▼ to pan downward.

### Format

Description : Use the -and + keys to adjust the video aspect ratio.

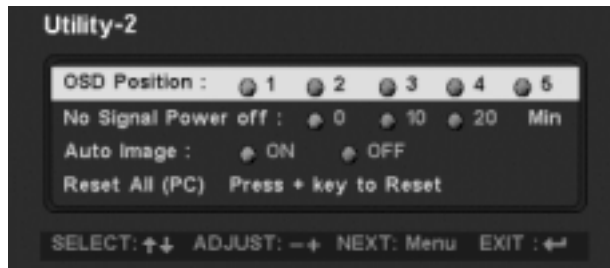
### Projection Type

Description : Press – and + to select different projection type.

### Language

Description : Press + to select language.

## Utilities - 2 Menu





### OSD Position

Description: Showing the OSD position .

Use the - and + keys to adjust OSD position.

On top-left, top-right, center, bottom-left, bottom-right

Hit ↵ to exit.

### Auto Image

Description : Press + key to adjust "Auto Image" setting.

ON: Enable automatic fine tuning of image.

OFF: Disable automatic fine tuning of image.

### Auto Source

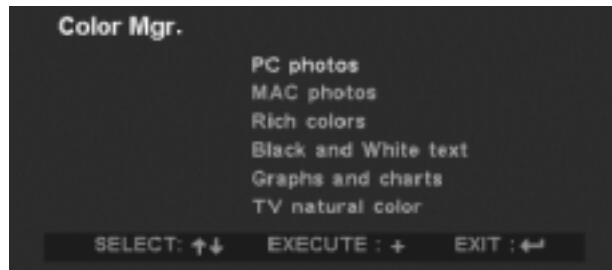
Description: Automatically search the input source.

### Reset All

Description : PC mode: Press + to reset all adjustable PC settings.

Video mode: Press + to reset all adjustable Video settings.

### Color Management



Description: Press up and down key to select different gamma correction values.

Press + key to execute.

PC photos: Best for viewing PC photos.

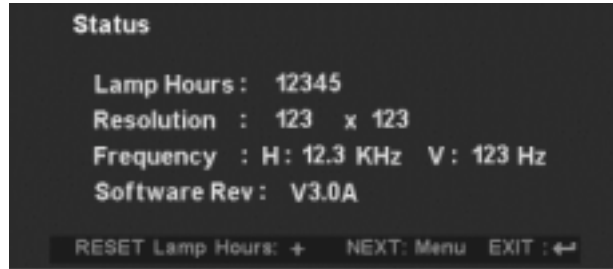
MAC photos: Best for viewing MAC photos.

Rich colors: Best for colorful graphics.

B&W: Best for B&W text and spreadsheet presentations.

Graphic: Best for graphic presentations.

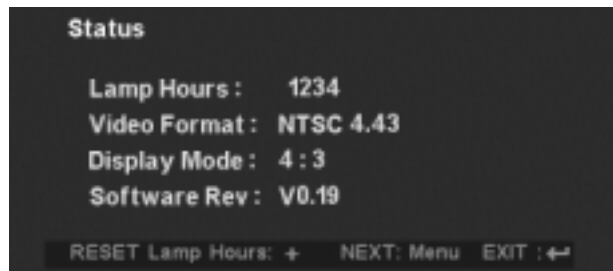
## Status at PC Mode



Description: Showing the input signal status and the detected PC mode with model number and firmware version information.

Use + key to reset lamp hours to zero.  
Hit ↵ to exit.

## Status at Video mode



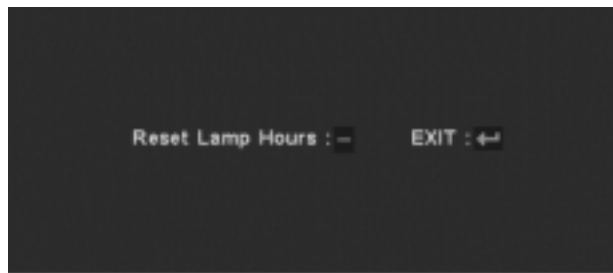
Description: Showing the input signal status and the detected Video standard with aspect ratio and firmware version information.

Use + key to reset lamp hours to zero.  
Hit ↵ to exit.



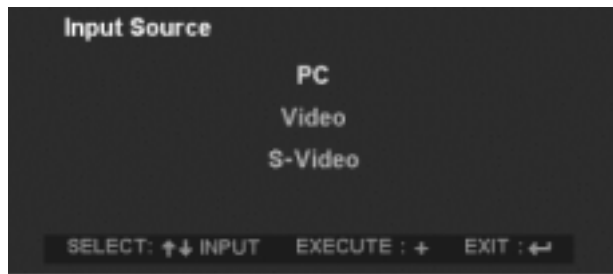
## Lamp Hours Reset

### Lamp Hours Reset



Description: Use the - to confirm lamp hours reset.  
Hit ← to exit.

### Input source select



Description: Press up , down and INPUT keys to select different input source.

Press + key to execute.

PC: Select PC / MAC input port.

S-Video: Select the S-Video input port.

Video: Select the Composite video input port.



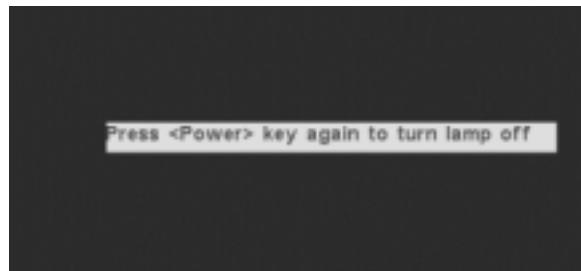


## Auto Image In Progress



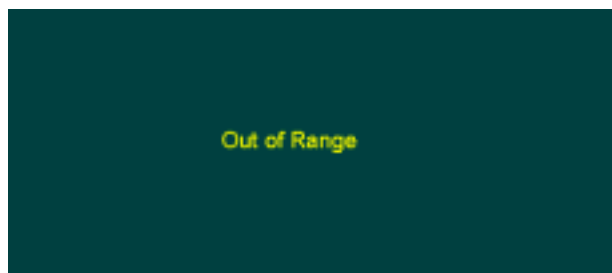
Description: Message for auto image in progress

## Lamp Off Control



Press the <Power> key again to turn lamp off, otherwise this screen will disappear automatically in 10 seconds.

## Out of Range



Description: Message for input signal out of range.





## Positioning the Projector

### Positioning the Projector

The projector should be at least 2.5 feet (.9 m) from the screen but no more than 32 feet (10 m) away from the screen.

Screen sizes are:

Distance	Width x Height	Diagonal
5' (1.5 m)	23~ 30"x 17~ 23" (0.58~0.76 x0.43~0.58 m)	28.6~37.9" (0.7~1.0 m)
6.5' (2.0 m)	30~ 40"x 23~ 30" (0.76~1.02 x0.58~0.76 m)	38.1~50.5" (1.0~1.3 m)
8' (2.4 m)	37~ 48"x 27~ 36" (0.94~1.22 x0.69~0.91 m)	45.8~60.6" (1.2~1.5 m)
9' (2.8 m)	43~ 57"x 32~ 42" (1.09~1.45 x0.81~1.07 m)	53.4~70.7" (1.4~1.8 m)
10.5' (3.2 m)	49~ 65"x 37~ 48" (1.24~1.65 x0.94~1.22 m)	61.0~80.8" (1.5~2.1m)
12' (3.6 m)	55~ 73"x 41~ 55" (1.40~1.85 x1.04~1.40 m)	68.6~90.9" (1.7~2.3 m)
13' (4.0 m)	61~ 81"x 46~ 61" (1.55~2.06 x1.17~1.55 m)	76.3~101.0" (1.9~2.6 m)
14.5' (4.4 m)	67~ 89"x 50~ 67" (1.70~2.26 x1.27~1.70 m)	83.9~111.1" (2.1~2.8 m)
16' (4.8 m)	73~ 97"x 55~ 73" (1.85~2.46 x1.40~1.85 m)	91.5~121.2" (2.3~3.1 m)
17' (5.2 m)	79~105"x 59~ 79" (2.01~2.67 x1.50~2.01 m)	99.1~131.3" (2.5~3.3 m)
18' (5.6 m)	85~113"x 64~ 85" (2.16~ 2.87 x1.63~2.16 m)	106.8~141.4" (2.7~3.6 m)
20' (6.0 m)	92~121"x 69~121" (2.34~3.07 x1.75~2.34 m)	114.4~151.5" (2.9~3.8 m)
33' (10 m)	153~202"x114~151" (3.89~5.13 x2.90~3.84 m)	190.7~252.4" (4.8~6.4 m)



## Preset Timing

Mode Name(s) Used	Resolution	H. Frequency (KHZ)	V. Frequency (HZ)
VESA Standard	640 x 350	+ 37.86	- 85.08
VGA Compatibility	640 x 480	- 31.47	- 59.94
VESA Standard	640 x 480	- 37.86	- 72.81
VESA Standard	640 x 480	-37.50	-75.00
VESA Standard	640 x 480	- 43.27	- 85.01
MAC Compatibility	640 x 480	35.0	66.667
VESA Standard	720 x 400	- 31.47	+ 70.08
VESA Standard	720 x 400	- 37.93	+ 85.04
VESA Standard	800 x 600	+ 37.88	+ 60.32
VESA Standard	800 x 600	+ 48.08	+ 72.19
VESA Standard	800 x 600	+ 46.88	+ 75.00
VESA Standard	800 x 600	+ 53.67	+ 85.06
VESA Standard	1024 x 768	- 48.36	- 60.00
VESA Standard	1024 x 768	- 56.48	-70.07
VESA Standard	1024 x 768	60.02	75.03
VESA Standard	1024 x 768	+ 68.68	+ 85.00
MAC Compatibility	832 x 624	49.7	74.6
★ VESA Standard	1280 x 1024	+ 63.98	+ 60.02
★ VESA Standard	1280 x 1024	+ 79.98	+ 75.02
NTSC TV Mode	700 x 525	15.75	60.0
PAL TV Mode	700 x 625	15.60	50.0
HDTV 720p (RGB only)	1280 x 720	45.00	60.00

Remarks: ★ only for XGA model





## Maintenance

### Change the Lamp Module

Important: The lamp contains trace amounts of mercury. Some government required special disposal of lamps containing mercury. Special disposal procedures for lamps containing mercury. Be sure disposal of lamps are carried out in accordance with all applicable local and government laws in your area.

The lamp module should be replaced with a certified replacement part. To order a new lamp, contact your local dealer.

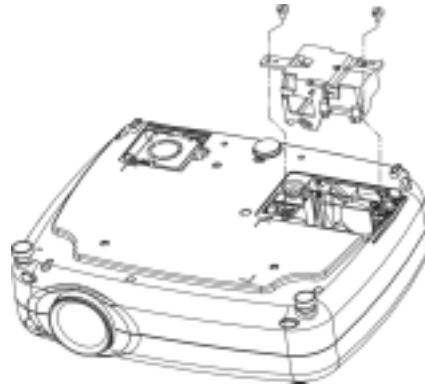
After changing the lamp module, see "Lamp Hours Reset" on page 15 to reset lamp hours.

Warning:

1. When replacing the lamp, be sure to turn off power and unplug the power cord. To avoid burns, wait 45 minutes before opening the lamp module door, and do not touch any hot surfaces inside.
2. Do not loosen or remove any screw other than the lamp module or its door. Doing otherwise may cause electric shock.

#### To replace the lamp module:

1. Turn off the projector and let the unit cool down at least 45 minutes.
2. Unplug the power cord from projector.
3. Turn the projector upside down. Loosen the screw with a flat head screwdriver then lift up to remove the lamp module door and keep screw on the door carefully.





## LCD Projector User Guide

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4. Loosen the two slotted screws on the lamp module bracket.
5. Gently lift and pull up on the metal wire to remove the lamp module.

**Caution: Do not touch any glass portion of lamp module or may damage it and shorten its operation life. Do not drop the lamp module or glass may shatter to cause injury.**

6. Carefully place the new lamp module into the projector with the glass portion facing left. Insert the lamp module securely and match two location pins to both location holes of the inner engine case. Tighten the slotted screws.
7. Place the lamp module door and tighten the screw.
8. See "Lamp Hours Reset" on page 15 to reset the lamp usage counter.

Important: Please make sure to replace lamp then reset the counter only.

## Cleaning the Projection Lens

1. Turn off the projector and allow it to cool.
2. Remove the lens cap.
3. Apply a non-abrasive camera lens cleaner to a soft, dry cloth.

**Caution: Avoid using an excessive amount of camera lens cleaner. Do not use abrasive cleaners, solvents or other harsh chemicals as they might scratch the lens. Do not spill any camera lens cleaner on the exterior case as it may fade, deform or melt the exterior case.**

4. Lightly wipe the cleaning cloth over the lens.
5. If you do not intend to use the projector immediately, replace the lens cap.

## Cleaning the Exterior Case

1. Turn off the projector and allow it to cool.
2. To remove dirt or dust, gently wipe the exterior case with a soft, dry, lint-free cloth.
3. To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent and gently wipe the exterior case.

Caution: Do not use alcohol, benzene, thinner or other chemical cleaners, which may fade, deform or melt the exterior case. Do not apply the detergent solution to the projector lens as it may scratch the lens.



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## Cleaning the Air Filter

### Cleaning the Air Filter

To ensure proper ventilation of your projector, the air filter should be periodically cleaned. More frequent cleaning may be required if you use your projector in a dusty or dirty environment.

**Caution: If the air filter is not cleaned properly, it can become clogged with dust and prevent proper ventilation. This may cause overheating and damage the projector.**

**Important:** If the filter cannot be cleaned or becomes damaged or torn, it should be promptly replaced with a certified replacement part. Contact your local dealer of products for additional information.

1. Turn off the projector and wait for the fan stop.
2. Unplug the projector.
3. Turn the projector on its side so that the connection panel is facing upward.

**Note: Standing the projector on its side keeps dust from getting inside.**

4. Locate the air filter cover on the bottom of the projector and slide the cover latch downward to remove the cover.
5. Use a softbrush to clean the air filter being carefully not to tear the filter or loosen it.

**Caution: Installing a wet or damp air filter may damage your projector.**

6. Replace the air filter cover on the projector. Make sure that it clicks into place.

**Caution: Never replace the air filter cover without the air filter attached; dust may get into projector without this filter. Never operate your projector without the air filter cover in place because this may damaged your projector with dust.**



## Troubleshooting

### Power Indicator

The power and lamp indicator on the keypad provides you with information about the condition of the projector.

Indicator	Light Status	Condition
Lamp LED	Blinking	Lamp is off but live power cord is connected to the projector. Projector is in standby mode. OR Lamp is off and fan is running. Projector is cooling down.
	Steady	Lamp is on and fan is running. Projector is ready.
Power LED	Two blinks	Scaling chip is malfunctioning.
	Three blinks	System is over temperature.
	Four blinks	I2C bus is malfunctioning.
	Five blinks	Lamp is malfunctioning.
	Six blinks	Fan is malfunctioning.
	Seven blinks	Top case was opened.





## Troubleshooting

### Image Quality

Problem	Solution
Color or text is not being projected.	Adjust the brightness up or down until the text is visible.
Some text or fonts are not sharp with a computer as an image source.	For optimal results, set the computer's resolution to 1024 x 768. (Refer to your computer user manual.) But this projector can compress resolutions up to 1280 x 1024.
Image isn't centered on the screen.	<ul style="list-style-type: none"> <li>• Be sure that the projector is at a 90° angle to the screen.</li> <li>• Reposition the image.</li> </ul>
Image is out of focus.	<ul style="list-style-type: none"> <li>• Turn the projection lens to focus the image.</li> <li>• Make sure that the projection screen is at least 5 ft (1.5 m) from the projector.</li> <li>• Check the projection lens to see if it needs cleaning.</li> </ul>
Image and menus are upside down.	<ul style="list-style-type: none"> <li>• If projecting from a ceiling mount, make sure that Ceiling Projection is selected on the Setup tab in the Menu.</li> <li>• If projecting from an upright position, make sure that Front or Rear projection is selected on the Setup tab in the Menu.</li> </ul>
Image and menus are reversed from left to right.	<ul style="list-style-type: none"> <li>• If projecting from behind a screen make sure that Rear Projection is selected on the Setup tab in the Menu.</li> <li>• If projecting in front of a screen, make sure that Front or Ceiling Projection is selected on the Setup tab in the Menu.</li> </ul>
Image appears flat with no contrast	<p>To adjust the contrast:</p> <ol style="list-style-type: none"> <li>1. Press Menu and use the Adjust + - buttons to go to the Adjust tab.</li> <li>2. Use the Next button to highlight Contrast.</li> <li>3. Use the Adjust + - buttons to increase or decrease the contrast.</li> </ol>
Image appears washed out or dark	<ul style="list-style-type: none"> <li>• Check the projection lens to see if it needs cleaning.</li> <li>• To adjust the brightness:               <ol style="list-style-type: none"> <li>1. Press Menu and use the Adjust + - buttons to go to the Adjust tab.</li> <li>2. Use the Next button to highlight Brightness.</li> <li>3. Use the Adjust + - buttons to increase or decrease the brightness.</li> </ol> </li> </ul>

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## LCD Projector User Guide

Problem	Solution
Image is “noisy” or streaked.	<ul style="list-style-type: none"> <li>• From the Setup tab in the menus, adjust the frequency and tracking manually to find an optimal setting.</li> <li>• Try connecting to another computer. The problem could be with your computer's video card.</li> </ul>
Image is wider at the top or bottom of the screen.	This keystone effect is caused by the projection angle not being perpendicular to the screen. For a more pleasing image result, raise or lower the front legs or prop up the back of the projector, or adjust keystone function up ▲ or down ▼ .
Image is wider at one side than the other	Make sure the projector is at a 90 degree angle to the screen.
Projected colors don't match the computer or video source colors.	<p>Use the Image Manager to select a setting that is more acceptable.</p> <p>Important: The Image Manager settings work best if you select Reset from the Adjust Tab each time before selecting an Image Manager setting.</p> <p>If further adjustment is needed, optimize the brightness, tint, color and contrast from the Adjust tab in the Menu.</p>

## Sound

Problem	Cause and Solution
No sound.	<ul style="list-style-type: none"> <li>• Adjust volume.</li> <li>• Verify audio / input connections.</li> <li>• Adjust audio source.</li> </ul>
Poor sound quality.	<ul style="list-style-type: none"> <li>• Make sure you are connected to the earphone jack on your laptop or line out jack on your desktop.</li> <li>• Make sure the volume setting on your computer is halfway.</li> </ul>
No audio-out port on the image source.	You are not able to connect audio to the projector.





## Troubleshooting

### Remote Control

Problem	Cause and Solution
Projector responds poorly or not at all to the remote control.	<ul style="list-style-type: none"> <li>• Make sure that the total distance from the remote to the projector is no more than 32 feet (10 m).</li> <li>• Point the remote control at the screen or at the front of the projector.</li> <li>• Make sure nothing is blocking the infrared sensor on the front of the projector.</li> <li>• Darken the room. The lighting might be effecting the remote control.</li> <li>• Replace the remote control batteries.</li> </ul>

### Lamp

Problem	Cause and Solution
No light is coming from the lamp.	<ul style="list-style-type: none"> <li>• Make sure that the power cord is properly connected to a fully functional AC electric outlet. The Power light blinks when the power is connected but the projector is not turned on. The Power light is a steady green when the lamp is running.</li> <li>• Make sure that the power cord is properly connected to the projector.</li> <li>• Make sure that you have removed the lens cap on the projector lens at the front of the projector.</li> <li>• Make sure you have pressed the Power button and the Power light is a steady green.</li> <li>• Check the projector's lamp to make sure that it is securely connected in the lamp module.</li> <li>• Make sure that the lamp module door is fully closed.</li> <li>• Make sure that the cable connectors do not have any bent pins.</li> <li>• Replace the lamp.</li> </ul>
Lamp shuts off.	<ul style="list-style-type: none"> <li>• A minor power surge may cause the lamp to shut off. Press the Power button twice to turn off the projector. (The Power light continues to blink and the fan continues to run until the projector cools down.) Wait at least three minutes, then press the Power button again.</li> <li>• Replace the lamp module.</li> </ul>



## Image Source

Problem	Cause and Solution
The S-Video image source does not appear.	Some inexpensive cables are not compatible with the projector. Be sure to use the cable that came with your projector.
Only the start-up screen appears and not the image from the image source.	<ul style="list-style-type: none"><li>• Verify that the cables are connected correctly. See "Connecting the Projector" on page 7.</li><li>• Verify that the proper image source is connected and that it is selected on the Setup tab of the menus.</li><li>• Make sure that the image source is turned on.</li><li>• Turn off everything and power up again in the proper order.</li><li>• Make sure that your laptop's external video port is turned on. See the computer manual for details.</li></ul>
The image source is connected but a No Signal message appears.	<ul style="list-style-type: none"><li>• Verify that the cables are connected correctly. See "Connecting the Projector" on page 7.</li><li>• Verify that the proper image source is connected and that it is selected on the Setup tab of the menus.</li><li>• Make sure there are no bent pins in the connectors.</li><li>• Make sure the image source is turned on.</li><li>• Turn off everything and power up again in the proper order. See "Starting the Presentation" on page 8.</li><li>• Make sure that your laptop's external video port is turned on. See the computer manual for details.</li></ul>



## Safety

These safety precautions include information to prevent personal injury and damage to the projector.

### Safety Definitions

**Warning:** Statements identify conditions or practices that could result in personal injury.

**Caution:** Statements identify conditions or practices that could result in damage to your equipment.



**Warning:** For information about use of a feature, please refer to this *User Guide*.



**Warning:** Hot surface. Do not touch.

### Projector Safety



**Warning:** To replace the lamp, turn off the power and unplug the power cord. To avoid burns, wait 45 minutes before opening the lamp door. Follow all instructions provided in this *User Guide*. See "Changing the Lamp Module" on page 17.



**Warning:** When you open the lamp module door, be careful not to touch the hot surfaces inside.

**Warning:** Please use the power cord provided. Connect the power cord to a receptacle with a protective safety (earth) ground terminal.

**Warning:** Don't look directly into the lens when the lamp is on. Doing so may cause eye injury.

**Warning:** Servicing your own projector may expose you to hazards or create potential hazards. Also, servicing your own projector will void the warranty. Refer all service to qualified service personnel.

**Warning:** In the unlikely event of the bulb rupturing, thoroughly clean the area behind the projector and discard any food that might have been contaminated with broken glass.

**Warning:** Do not loosen or remove any screws other than those on the lamp module door and the lamp module. Doing so may result in electric shock.

**Caution:** Don't set liquids on the projector. Spilled liquids may damage your projector.

**Caution:** Don't put the projector on a hot surface or in direct sunlight.

**Caution:** Do not drop the projector.



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**Caution:** Never operate your projector without the lamp module or lamp module door. Doing so may damage the projector.

**Caution:** Proper ventilation is important. Don't block ventilation openings. Never operate this projector in an enclosed area. Do not place the projector on a tablecloth or other soft covering that may block the vents. With ceiling installations, use approved mounting hardware. Do not put the projector near heat ducts, air cleaners, transformers or other electrical devices. For permanent installations follow local codes.

**Caution:** Do not touch the glass portion of the new lamp module with your hands or allow it to touch other objects as this may damage it and shorten its operational life.

**Caution:** Do not drop the lamp module as the glass may shatter.

### Battery Safety

- Read and follow all warnings and instructions supplied by the battery manufacturer.
- Keep batteries away from children.
- Store batteries in their original packaging.
- When inserting batteries, verify that the (+) and (-) terminals are aligned correctly.
- Replace all batteries of a set at the same time.
- Do not mix new batteries with used ones.
- Do not use batteries of different chemistries, capacities, brands or sizes together. Leakage could result.
- Do not disassemble, recharge, or short-circuit batteries.
- Do not subject batteries to high temperature or fire.
- Discard used batteries according to all applicable local and national regulations.