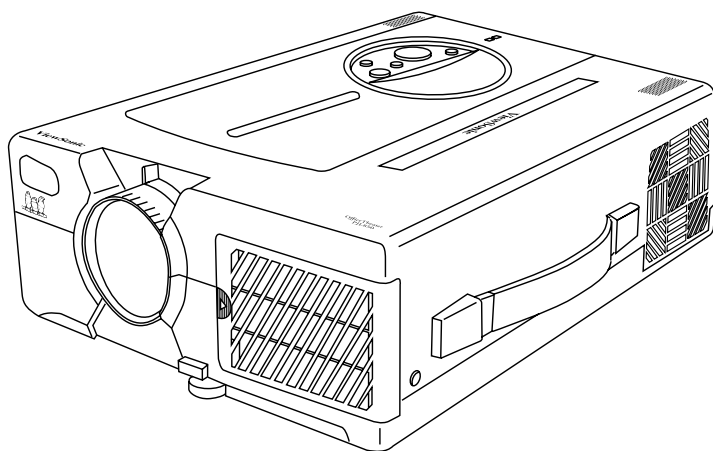


# ViewSonic®

*PJL855*

*Office Theater™*

User's Guide



31" to 300" (Viewable)  
Super Bright SVGA LCD Projector

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As an **ENERGY STAR® partner**, ViewSonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

### FOR YOUR RECORDS

The serial number of this product is on the bottom of the projector. Write the serial number in the space below and keep this guide as a permanent record of your purchase to aid in identification in the event of theft or loss.

|                       |                         |
|-----------------------|-------------------------|
| <b>Model Name:</b>    | <b>ViewSonic PJL855</b> |
| <b>Model Number:</b>  | <b>VPRJ21548-1</b>      |
| <b>Serial Number:</b> | _____                   |
| <b>Purchase Date:</b> | _____                   |

## Electronic Warranty Registration

Register your projector at [www.viewsonic.com](http://www.viewsonic.com). It's fast, easy, and will simplify future support needs.

## FOR CUSTOMERS IN THE UNITED KINGDOM

THIS PRODUCT IS SUPPLIED WITH TWO PIN MAINS FOR USE IN MAINLAND EUROPE.  
FOR THE U.K. PLEASE REFER TO THE CLASS I EQUIPMENT NOTES BELOW.

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse of the same rating must be used.

If the fuse cover is detachable, never use the plug without the cover. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

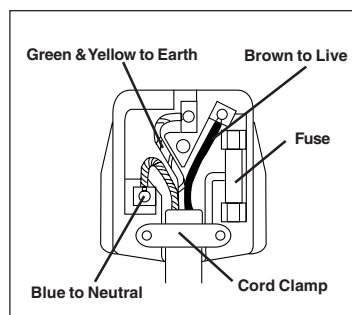
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you first remove the fuse then immediately dispose of the portion remaining, to avoid a possible shock hazard by inadvertent connection to the mains supply.

### **WARNING: THIS EQUIPMENT MUST BE EARTHED**

The wires in the mains lead are coloured in accordance with the code shown in the diagram below:



As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol or coloured Green, or Green and Yellow.

The wire coloured Blue must be connected to the terminal marked with the letter N or coloured either BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured either BROWN or RED.

### **WARNING:**

This equipment has been tested and found to comply with the limits of 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 user guide, may interfere with radio communications.

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

### **Instructions for FCC compliance:**

This equipment complies with the requirements of FCC (Federal Communication Commission) Class A equipment provided that the following conditions are met:

#### **1 Video signal cables:**

Double shielded coaxial cables (so called FCC shielded cable) must be used. The outer shield must be connected to the ground. If normal coaxial cables are used, they must be enclosed in metal pipes or similar material to reduce the interference they may cause.

#### **2 Power cord:**

A shielded power cord must be used. The outer shield must be grounded.

#### **3 Video Inputs:**

The amplitude of the input signal must not exceed the level specified in this user's guide.

## Important Safety Precautions

**Warning** Following these instructions could prevent possible injury or death.

**If any of events listed below occur, switch projector OFF, pull power plug out of power source, and contact ViewSonic® Customer Support (see back cover):**

- If there is an abnormal smell or smoke
- If suddenly there is no picture, no sound, or an abnormal sound
- If water or any other liquid enters the projector

**To prevent possible electric shock or fire, handle power cord and power plug with care:**

- Do not touch the power cord with wet hands.
- TO DISCONNECT THE UNIT FROM THE POWER SOURCE, GRASP THE POWER PLUG, AND PULL. DO NOT PULL THE POWER CORD ITSELF.
- Do not damage the power cord by pulling, bending, heating, or placing heavy objects on it.

**To prevent possible electric shock or fire, keep liquids away from projector:**

- Do not use the projector near water (such as a shower, sink, etc.).
- Do not put an open container with liquid on or near the projector (such as a vase, open beverage container, etc.).

**Do not insert a foreign object into any part of the projector:**

- To prevent electric shock or fire, do not insert a metal or flammable object through the ventilation holes, etc.
- If foreign matter enters the projector, switch it OFF and pull the power plug out of the power source.
- Prevent small children from inserting objects into the projector.

**Only use recommended power supply:**

- Do not use any power source that has a voltage other than what this user's guide specifies. See page 12.

### **CAUTION:**

**To prevent possible eye damage:**

- **DO NOT look directly at the laser light from the aperture at the front of the Remote Control Unit. (See page 7.)**
- **DO NOT point the laser light at any person's eyes.**

**Also, do not look directly into projector lens when lamp is lit:**

- Prevent all people especially small children, from looking into the projector lens when the lamp is lit.

**Do not subject projector to physical shock or place projector on unstable surface:**

- Do not place the projector in a location where it is likely to be struck or bumped into.
- Avoid placing the projector on a shelf, cabinet, etc. that cannot adequately support its weight, or that is on an inclined floor.
- When the projector is placed on a table with casters, set the caster stoppers to prevent movement.

**Caution** Following these instructions could prevent personal injury or damage to the projector.

**To prevent damage from heat build-up:**

- Clean the air filter after every 100 hours of operation. (See page 16.)
- Do not place the projector in direct sunlight or near a source of heat like a furnace, electric heater, etc.
- Do not block ventilation holes (by placing the projector on its side, or on a carpet, bedspread etc.)
- Place the projector at least 10cm from any wall (allowing space for the ventilation holes).

**Do not place projector in moist or dusty place:**

- Do not place the projector in an area containing steam (from a humidifier, etc.) dust, or soot (from a stove, etc).

**If projector will not be used for long time, pull out power plug and close lens cover.**

**Have inside of projector cleaned at least every two (2) years :**

- Contact a ViewSonic Customer Service for information about where to have the inside cleaned. Never attempt to open the cabinet to clean the inside of the projector yourself.
- To clean the lens and cabinet, follow the instructions on page 16.

**Do not place heavy objects on the projector.**

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# Getting Started

Congratulations on purchasing a **ViewSonic PJL855 Office Theater™** LCD projector!

*Save the original box and all packing material for future shipping needs.*

## Package Contents

- **ViewSonic PJL855 Office Theater**
- Remote Control Unit/Mouse & Laser Pointer
- 2 AA batteries
- 3 AC power cords (U.S., Europe, and China)
- Computer video cable (15-pin mini D-sub connector)
- Video/Audio cable (RCA connectors)
- S-Video cable (RCA connectors)
- Audio (stereo) mini-DIN cable
- PS/2 mouse cable
- Serial (RS232) mouse/computer-control cable
- ADB (Macintosh®) mouse cable
- Macintosh adaptor
- User's guide
- INF and ICM files on CD-ROM\*
- Carrying Case

\* **IMPORTANT:** The supplied **INF file** assures compatibility with Windows operating systems, and the **ICM file** (Image Color Matching) ensures accurate on-screen colors. When using a computer as the signal source, ViewSonic® recommends that you install both of these files.

- Insert the supplied CD-ROM into your system, wait for it to auto-start, select "Monitor Drivers," and follow the on-screen instructions.

## Installation

### 1 Connect signal input cables

With both the PJL855 and the computer powered OFF, connect the appropriate video and audio cables to the computer, VCR, or other input sources.

*Macintosh® users:* Connect the supplied Macintosh adapter to the video cable, then to the PJL855.

### 2 Connect power cord

Connect the power cord to a properly grounded AC outlet, then to the PJL855.

### 3 Power-ON projector and all input devices (computer, VCR, etc.)

- Power-ON the PJL855 projector.
- Power-ON all input devices.

### 3 (continued)

When a PC is one of the input devices (not for Macintosh®):

- (1) **Install INF and ICM files**  
See instructions in the "IMPORTANT" note above.
- (2) **Set signal timing of graphics card**  
Set the graphics card(s) to 800 x 600@75Hz (resolution and refresh rate).

### 4 Install batteries into Remote Control Unit

See instructions below.

To be best prepared for any future customer service needs:

- Write the serial number (see the bottom of the projector) in "For your Records" on page 1 of this guide.
- Register the warranty of your projector on the Internet at:

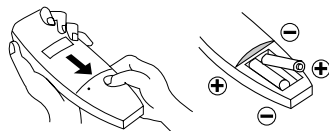
<http://www.viewsonic.com>

## Inserting Batteries into the Remote Control Unit

1 Remove the compartment cover by sliding it in the direction of the arrow shown below.

2 Insert the batteries (Alkaline type) with the polarities (+,-) facing the direction shown below.

3 Replace the compartment cover.

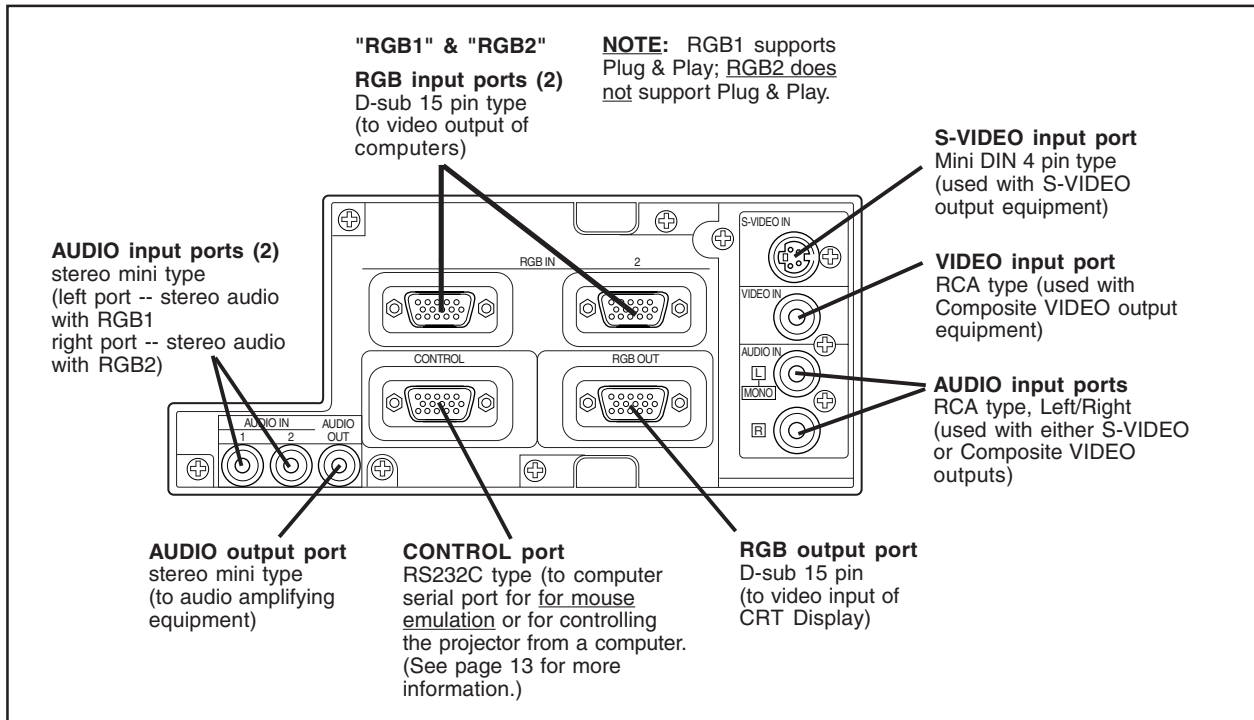


### CAUTION:

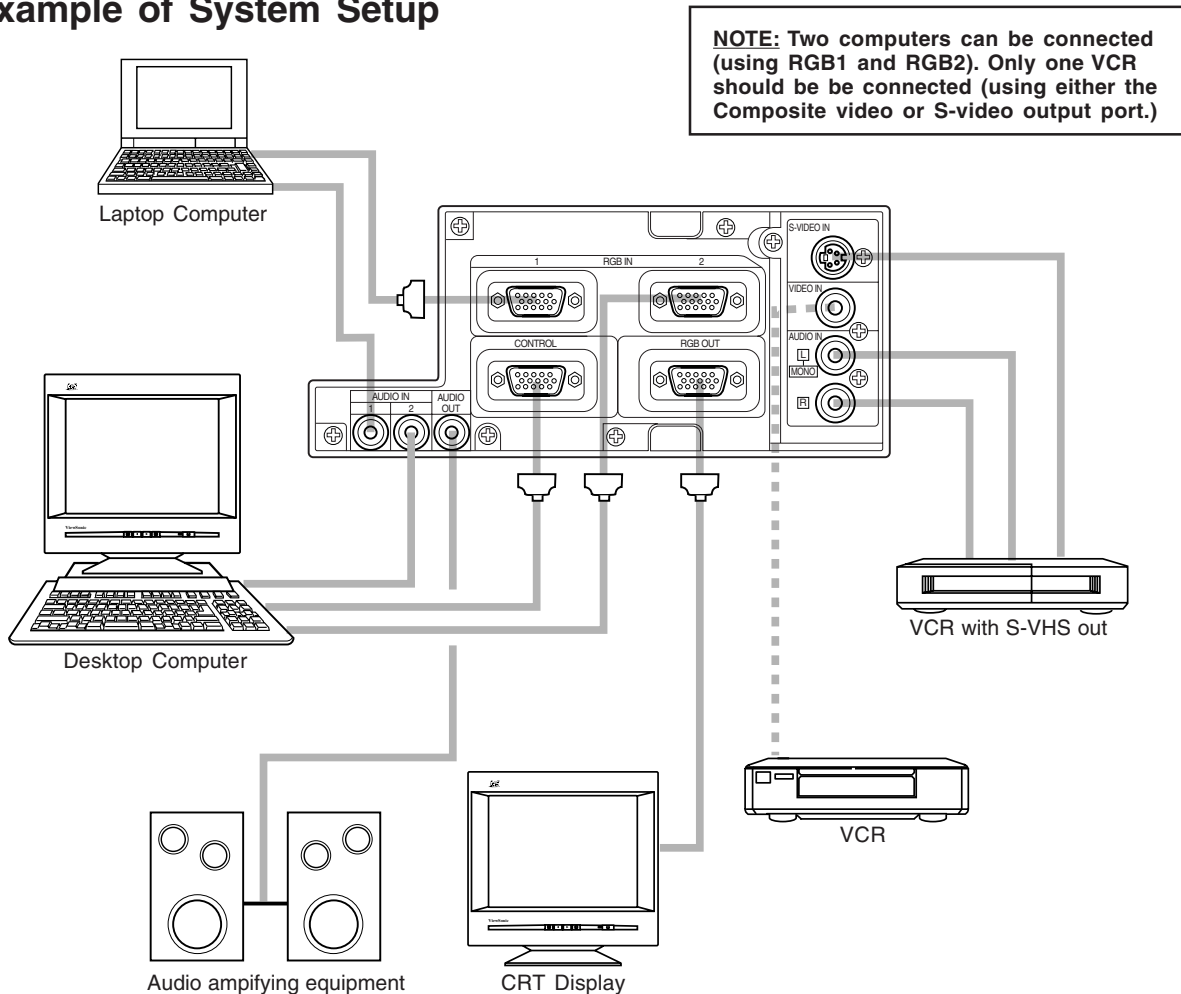
- Only use AA (LRG) type of batteries.
- To prevent leakage that may damage the unit, do not combine old and new batteries.
- When inserting batteries, be careful to insert them according to the correct polarities (+,-).
- If not using the Remote Control Unit for an extended period of time, remove the batteries.

# Connecting Input/Output Devices

## Side Connector Panel



## Example of System Setup



# Operation

## Projecting a Picture

- 1 **Power ON the projector.** Set the MAIN POWER switch to ON (located on the side Connector Panel). The ON indicator lights orange.
- 2 **Press the STANDBY/ON button** on the Projector Control Panel or on the Remote Control Unit. (See page 7)  
The ON indicator blinks green during warm-up and stays green when projector is ready for use.  
**NOTE:** The power can not be turned on if the STANDBY/ON button is pressed within 60 seconds after the power is turned off.
- 3 **Remove the lens cap.**
- 4 **Position the projector** the desired distance from the projection screen, then **set the projection angle** by positioning the foot adjusters. (See *Positioning the Projector* and *Setting the Projection Angle* below)
- 5 **Power ON all connected input devices.** (See pages 4-5.)
- 6 **Select the signal source:** press the INPUT button on the projector or one of the the INPUT buttons (VIDEO/RGB) on the Remote Control Unit. (See pages7.)  
**NOTE: To switch between RGB1 and RGB2, use the INPUT menu (see page 10).**
- 7 **Adjust the picture size** with the ZOOM knob, then **adjust the focus** using the FOCUS ring (see page 7).

## Turning Off the Projector

- 1 **Press STANDBY/ON button** (on Control Panel or Remote Control Unit) for one (1) second. The ON indicator blinks orange and the projector lamp turns off.  
**CAUTION: Always press the STANDBY/ON button before turning OFF the MAIN POWER. This allows the fan to cool down the projector.**
- 2 **Wait until the fan stops** (about one minute after pressing STANDBY/ON button).
- 3 **Power OFF the projector.** Set the MAIN POWER switch to OFF.
- 4 **Place the lens cap over the lens.**

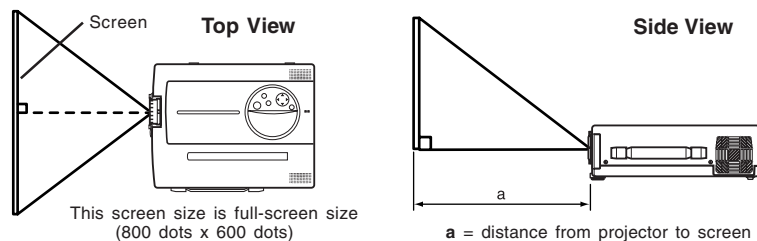
### NOTE:

This projector complies with VESA DDC1/2B specifications. Only RGB1 supports Plug & Play.

## Positioning the Projector

The projector must be horizontal to get a distortion-free picture. Place the projector on a table-top or other flat surface. Use the chart below to determine the placement of the projection screen.

| Screen Size (inches) | Distance "a" (inches) |         |
|----------------------|-----------------------|---------|
|                      | Minimum               | Maximum |
| 40                   | 64                    | 64      |
| 60                   | 97                    | 127     |
| 80                   | 130                   | 169     |
| 100                  | 163                   | 213     |
| 120                  | 196                   | 256     |
| 150                  | 244                   | 319     |
| 200                  | 326                   | ----    |



### CAUTION To prevent a build-up of heat that can damage the projector:

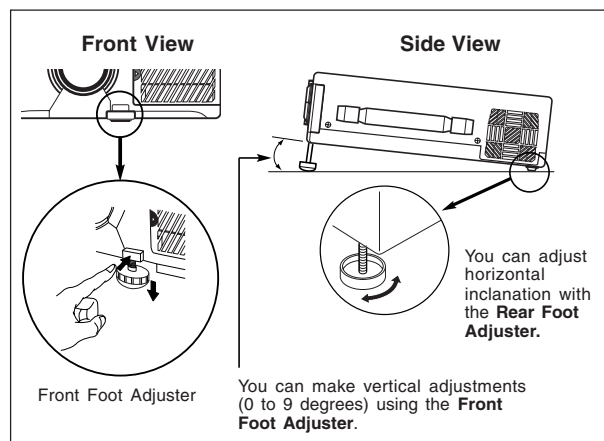
- Be especially careful not to block ventilation holes when installing the projector.
- Only use this projector in the horizontal position (see Side View shown above).

## Setting the Projection Angle

- 1 While firmly grasping the front of the projector with both hands, use an index finger to push, and hold, the Adjuster Button (located above the Front Foot Adjuster).
- 2 To adjust the viewing angle, tilt the front of the projector up. Then (while still grasping the projector) release the Adjuster Button, securely locking the Front Foot Adjuster.
- 3 To make fine adjustments, turn the base of the Front Foot Adjuster. Also adjust the Rear Foot Adjuster in this manner.

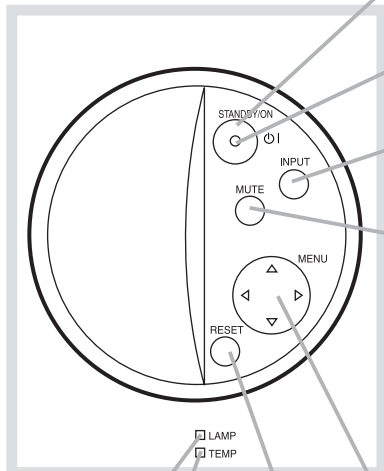
### CAUTION

- To prevent possible injury or damage, make sure you are holding on to the projector securely before you unlock the foot adjusters.
- Securely lock the Front Foot Adjuster.
- Do not use unnecessary force when you move either of the foot adjusters.



# Controls and Indicators

## Projector Control Panel



**LAMP indicator**  
becomes lit when lamp cannot light

**TEMP indicator**  
becomes lit when temperature inside projector is too high

**RESET button**  
resets selected menu option to factory setting

**STANDBY/ON button**  
powers ON/OFF button. OFF activates Standby Mode

**ON indicator** blinks in Standby mode; remains lit in Operation mode

**INPUT button**  
selects input source:  
RGB1 → RGB2 → VIDEO

**MUTE button** silences audio output temporarily

**FREEZE** displays a still picture, stopping moving video image and audio

**OFF button** turns OFF the MAGNIFY function (+/-)

**POSITION-ON button**  
Press and hold, then use DISK PAD to move screen image (only for RGB signal)

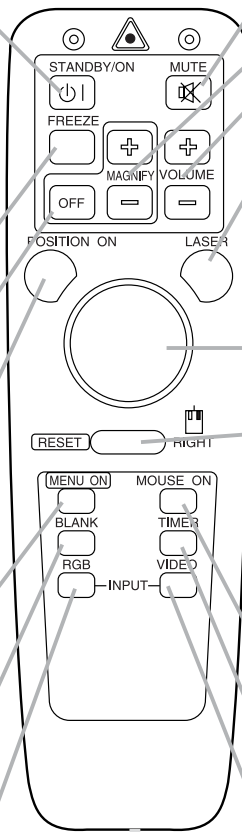
**MENU buttons** used to select menu options and to adjust the selected option

**MENU ON button**  
activates on-screen menu

**BLANK button** displays blank screen (white, blue, or black). See page 10.

**RGB INPUT button**  
selects RGB as input source See page 10.

## Remote Control Unit



**MUTE button** silences audio output temporarily

**MAGNIFY buttons** are used to magnify part of projected picture

**VOLUME buttons** adjust loudness of audio output

**LASER button** toggles laser-pointer On/Off. See WARNING below.

### DISK PAD

- When back light of MENU ON button is on, DISK PAD selects or adjusts menu item.
- When no on-screen menu is displayed, DISK PAD works as a mouse.
- When back light of POSITION ON button is on, DISK PAD moves the projected picture.

**RESET / "RIGHT" MOUSE button** (two functions)

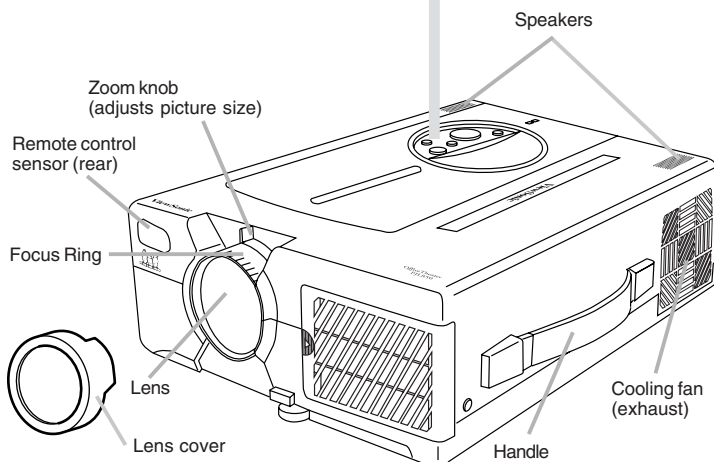
- **RESET button**: when a menu is displayed, (returns selected menu option to factory setting).
- **"RIGHT" MOUSE button**: when no menu is displayed

**NOTE:** "LEFT" MOUSE button is located on back of Remote Control Unit (see "Back View" illustration at top of this page)

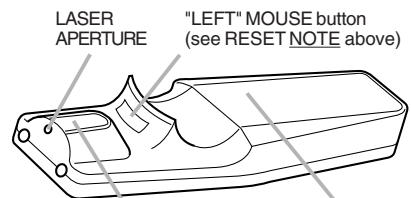
**MOUSE-ON button** activates Mouse Emulation function. See page 13.

**TIMER button** activates on-screen countdown timer

**VIDEO INPUT button** selects VIDEO as input source. See page 10.



## Back View of Remote Control Unit



AVOIDE EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE



### CAUTION

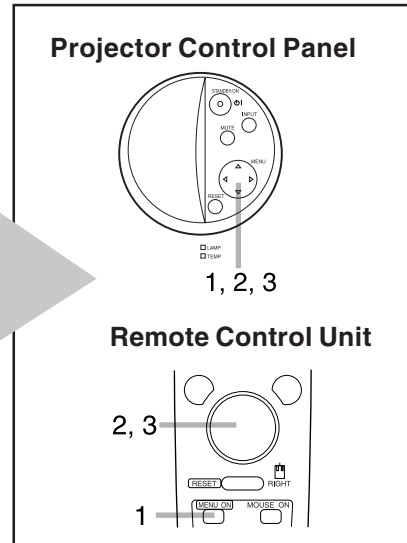
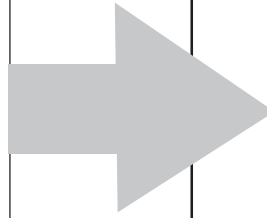
#### To prevent possible eye damage:

- **DO NOT** look directly at the laser light emitted from the Laser Aperture of the Remote Control Unit (see above).
- **DO NOT** point the laser light at any person's eyes.



# Adjusting the Projected Image

- 1 Display the list of menus.** Press any one of the four MENU buttons on the Projector Control Panel or the MENU ON/OFF button on the Remote Control Unit. The names of the four menus (SETUP, INPUT, IMAGE, OPTION) will display. (See pages 8-10)
- 2 Select the menu.** To select one of the four menus, press the left or right MENU buttons on the Projector Control Panel or the DISK PAD on the Remote Control Unit. The name of the selected menu is highlighted in green.
- 3 Select the menu option.** To select a menu option you want to adjust, use the MENU buttons on the Projector Control Panel or use the DISK PAD on the Remote Control Unit. The selected adjustment option is highlighted in green.



## Memory Function

Whenever you power OFF the projector, all picture adjustments made for each input device (VIDEO, RGB1, and RGB2) will be saved separately.

## Returning to Factory Default Settings

To return all the controls in a given menu to factory settings:

- 1** Select the menu (follow steps 1 and above).
- 2** Press the RESET button (on the projector control panel or Remote Control Unit), and select DEFAULT. If you change your mind, select CANCEL.

**NOTE:** To return a single control (Volume, Brightness, etc.) to the factory setting, select only that menu option, and press RESET. If you change your mind, select CANCEL.

## Freeze Function

This function displays a still picture, freezing a moving video image (similar to the "pause" function of a VCR). You can use this feature together with the MAGNIFY function (see below).

- 1** Press the FREEZE button on the Remote Control Unit.
- 2** To release the Freeze function, press the FREEZE button again.

## Magnify Function

This function allows you to magnify a portion of the projected picture. You can use this feature together with the FREEZE function. (see above)

- 1** To activate the Magnify function: Press the MAGNIFY button on the Remote Control Unit. The center of the projected picture will double in size.
- 2** To change magnification: Press the [+] button to increase magnification (maximum, 4 times). Press the [-] button to decrease magnification (minimum, about 1.1 times)
- 3** To shift the magnified display area: Press the POSITION ON button, then press the DISK PAD up, down, left, or right. The magnified display area shifts accordingly.
- 4** To return to a normal display: Press the OFF button (below the FREEZE button).

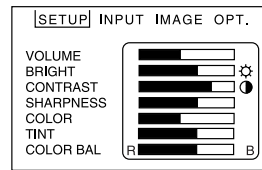
**NOTE:** The Magnify function is released when a INPUT SELECT button (on projector or Remote Control Unit) or when the timing mode (resolution or refresh rate) of a personal computer is changed while an image is displayed.

# SET UP Menu

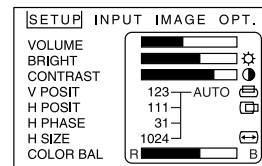
The SET UP Menu allows you to adjust the picture for each input source separately: RGB1, RGB2, and VIDEO (Composite Video or S-Video).

**NOTE:** Before using the SET UP Menu, use the INPUT Menu to select one of the input sources, then repeat these steps for each of the other input sources (see next page). Two computers can be connected (using RGB1 and RGB2), and one video source should be connected (using either the Composite video or S-video input port.) See page 5 for information about the input ports.

| SET UP Menu Options                | Adjustments   |
|------------------------------------|---|
| VOLUME                             | Decrease -- Increase  |
| BRIGHT (BRIGHTNESS)                | Darker -- Brighter  |
| CONTRAST                           | Lower -- Higher   |
| <b>For VIDEO signal input only</b> |   |
| SHARPNESS                          | Softer -- Sharper   |
| COLOR (SATURATION)                 | Lower -- Higher   |
| TINT                               | Red -- Green  |
| <b>For RGB signal input only</b>   |   |
| V POSIT<br>(VERTICAL POSITION)     | Moves picture up or down<br>(or use automatic control)                  |
| H POSIT<br>(HORIZONTAL POSITION)   | Moves picture left or right<br>(or use automatic control)               |
| H PHASE<br>(HORIZONTAL PHASE)      | Decreases flicker/picture rolling<br>(or use automatic control)         |
| H SIZE<br>(HORIZONTAL SIZE)        | Widens/narrows horizontal size of<br>picture (or use automatic control) |
| COLOR BAL<br>(COLOR BALANCE)       | Red -- Blue   |



VIDEO signal input



RGB signal input

**NOTE:**

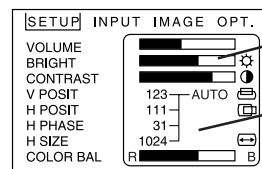
- TINT cannot be adjusted with PAL/SECAM video signal input.
- TINT, COLOR, and SHARPNESS cannot be adjusted with RGB signal input.
- V. POSIT, H. POSIT, H. PHASE, and H. SIZE cannot be adjusted with VIDEO signal input.

## How to use the SET UP menu

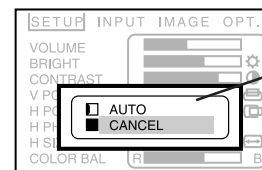
Use the MENU buttons on the projector (or DISK PAD on the Remote Control Unit) to move the cursor to the item you want to adjust.

For bar display items (VOLUME, BRIGHTNESS, CONTRAST, COLOR BALANCE) you must make adjustments manually using the on-screen controls (see illustration to the right).

For numerical display items (V POSIT, H POSIT, H PHASE, H SIZE) you have the option making adjustments manually or selecting AUTO (see illustration to the right). During automatic adjustment, the word "AUTO" will flash in the lower right corner of the screen; when the adjustment is complete, AUTO will disappear. This may take several seconds to complete.



bar display items  
numerical display items

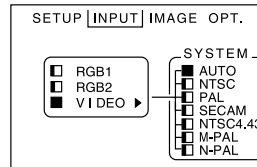
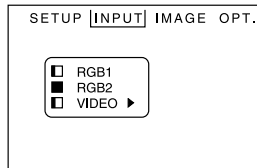


AUTO option (only applies to numerical display items shown above)

# INPUT Menu

The INPUT Menu allows you to select from three possible input sources (RGB1, RGB2, and VIDEO). For VIDEO, the AUTO option will work for most circumstances (N-PAL is not supported).

| INPUT Options | Details about Selection Options  |
|---------------|--|
| RGB1          | Selects signal from RGB1 port  |
| RGB2          | Selects signal from RGB2 port  |
| VIDEO         | Selects signal from VIDEO port (either Composite video or S-Video)   |
| SYSTEM        | Selects the type of video signal SYSTEM (see below). In normal circumstances, select AUTO (AUTO does not support N-PAL). |



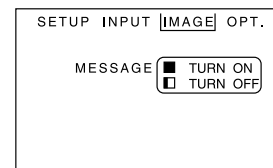
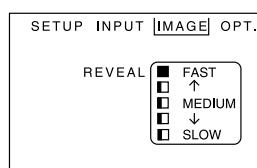
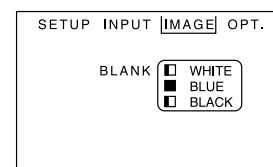
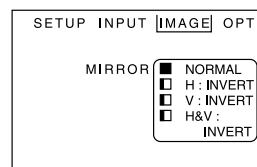
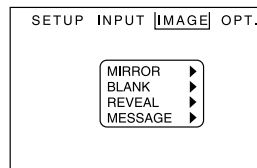
VIDEO options

**NOTE:** RGB1 is compatible with Plug and Play (DDC1™ and DDC2B™); RGB2 is not.

# IMAGE Menu

The IMAGE Menu allows you to select the MIRROR, BLANK, REVEAL, and MESSAGE options.

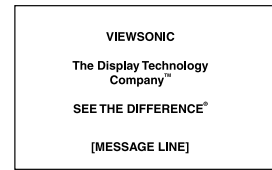
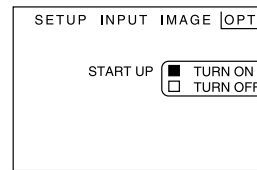
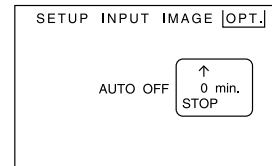
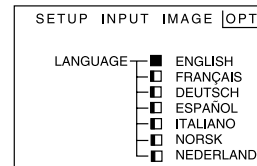
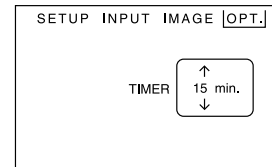
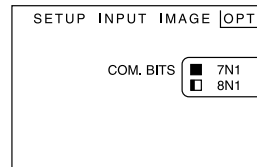
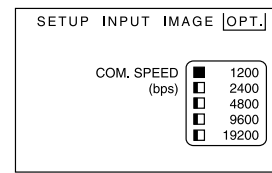
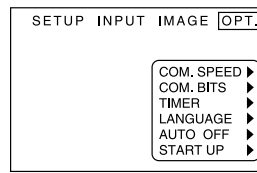
| IMAGE Menu Options | Details about Selection Options  |
|--------------------|--|
| MIRROR             | Inverts picture horizontally and/or vertically<br>NORMAL Returns to factory settings<br>H : INVERT Inverts picture horizontally<br>V : INVERT Inverts picture vertically<br>H&V : INVERT Inverts picture horizontally and vertically |
| BLANK              | Selects background color (white, blue, or black) for the Blank Screen feature (which will display without video signal input).   |
| REVEAL             | Selects the speed that the projected image reappears after the Blank Screen feature is turned off (using the BLANK button on the Remote Control Unit).   |
| MESSAGE            | Turns on-screen message on/off (When turned on, VOLUME level is indicated on-screen)   |



# OPT. (OPTION) Menu

The OPT. Menu allows you to adjust the Communication Function\* (COM. SPEED and COM. BITS), enabling you to control the projector from a computer. The OPT. Menu also allows you to set the TIMER, select the LANGUAGE for all on-screen displays, activate AUTO OFF and START UP.

| OPT. (OPTION) Menu Options | Details about Selection Options   |
|----------------------------|---|
| COM. SPEED (COMMUNICATION) | Selects data speed of transmission: 1200, 2400, 4800, 9600, 19200. (Used for computer control of projector)   |
| COM. BITS                  | Selects data transmission format: 7N1...7 data bits, No Parity, 1 Stop bit<br>8N1...8 data bits, No Parity, 1 Stop bit (Used for computer control of projector.)                                  |
| TIMER                      | A countdown timer (up to 99 minutes) you can activate whenever needed. The time remaining displays at bottom of the projected picture.  |
| LANGUAGE                   | Selects language of On-View menus: English, Francais (French), Deutsch (German), Espanol (Spanish), Italiano (Italian), Norsk (Norwegian), Nederlands (Dutch)                                     |
| AUTO OFF                   | Sets time (up to 99 minutes) the lamp will automatically turn off and the projector will switch to Standby Mode if an input source is not detected. <b>To disable AUTO OFF, set minutes to 0.</b> |
| START UP                   | Toggles on/off the "ViewSonic® See the Difference" start-up screen (which is displayed each time the projector is powered on).  |



**IMPORTANT:** If AUTO OFF is activated and shuts off the projector lamp, wait at least one (1) minute. Then press--and briefly hold--the STANDBY/ON button. The lamp will turn back on.

\* **NOTE:** Computer control of the projector (communication function) is an advanced feature that requires specialized software not included with the PJL855. To develop this software you will need various control codes and other supplementary information available from ViewSonic Customer Support. (See the back of this guide for contact information.)

# Technical Information

## Specifications

|   |  |   |
|---|--|---|
| <b>LCD</b>                              | Type<br>Pixels   | 0.9" Polysilicon (x3) Stripe Pixel 800 x 600 TFT Active Matrix<br>1,440,000 (800 dots x 600 lines x 3 colors)   |
| <b>Lens Display</b>                     | Type<br>Image Size<br>Projection Distance<br>Brightness<br>Contrast Ratio<br>Aspect Ratio<br>Lamp<br>Lamp Life | Manual Zoom (1.3) F1.7 ~ 2.0 (f = 37.9 - 49.2 mm)<br>31" - 300" (787mm x 7620mm)<br>1.2m - 12.3m<br>800 ANSI Lumens (typical) *, 640 ANSI Lumens (minimum)<br>70:1 (minimum - ANSI method), 100:1 (typical-ANSI method)<br>4:3<br>150W Ultra High Pressure compact<br>1500 hours            |
| <b>Audio</b>                            | Power  | 2W (1W + 1W) 10%THD   |
| <b>Input Signal</b>                     | RGB Analog<br>Video<br>S-Video<br><br>Frequency  | 75 ohms, 0.7 Vp-p H/V Separated, Composite (TTL)<br>NTSC / PAL / SECAM (1.0 Vp-p, 75 ohms)<br>Luminance signal 0.7 Vp-p, 75 ohms termination<br>Chrominance signal 0.29Vp-p (NTSC), 0.30Vp-p (PAL), 75 ohms termination<br>f <sub>n</sub> : 15.75/15.63, 25-60 kHz f <sub>v</sub> : 56-85Hz |
| <b>Compatibility</b>                    | PC<br>Macintosh® **<br>Video   | PC compatible (up to 1024 x 768 compressed)<br>Power Macintosh® (up to 1024 x 768 compressed)<br>NTSC / PAL / SECAM / S-VIDEO   |
| <b>Maximum Recommended Resolutions</b>  |  | 1024 x 768 @ 75Hz (Compressed)<br>800 x 600 @ 60Hz  |
| <b>Input Ports</b>                      | RGB<br>Video<br>S-Video<br>Audio   | 15 pin mini D-sub (x2)<br>RCA (x1)<br>Mini DIN 4-pin (x1)<br>RCA jack (L/R) for Video, Stereo Mini (x2) for RGB   |
| <b>Output Ports</b>                     | RGB<br>Audio   | 15 pin mini D-sub (x1)<br>Stereo Mini (x1) for Audio-out  |
| <b>Power</b>                            | Voltage<br>Consumption   | AC 100-120/220-240 50 / 60 Hz (Automatic), 3 Wire Grounded<br>250 Watts   |
| <b>User Controls</b>                    | Physical/projector   | Standby On/Off, Menu (Left, Right, Up, Down), Input, Reset, Mute  |
| <b>Video</b>                            | Input Bandwidth  | 150 mHz   |
| <b>Operating Conditions</b>             | Temperature<br>Humidity  | 32°F to 95°F (0°C to 35°C)<br>10% to 85% (no condensation)  |
| <b>Optimum Installation Environment</b> | Temperature<br>Humidity  | 59°F to 82°F (15°C to +28°C)<br>40% to 75% (no condensation)  |
| <b>Storage Conditions</b>               | Temperature<br>Humidity  | -4°F to +140°F (-20°C to +60°C)<br>10% to 85% (no condensation)   |
| <b>Dimensions</b>                       | Physical<br><br>Packing  | 258mm (W) x 107mm (H) x 336mm (D)<br>13.8" (W) x 4.2" (H) x 13.2" (D)<br>351mm (W) x 406mm (H) x 437mm (D)<br>12.4" (W)x 16.0" (H) 17.2"(D)   |
| <b>Weight (typical)</b>                 | Net<br>Gross   | 4.5 kg (9.9 lb)<br>9.0 kg (19.8 lb)   |
| <b>Regulations</b>                      |  | UL, c-UL, FCC-A, CE, CB Report,BCIQ, CCIB, C-Tick, TÜV  |
| UV                                      |  |   |
| <b>Power Savings</b>                    | "On" Green<br>"Stand By" Amber   | 250W<br>11W   |

\* Brightness may vary with lamp age and environmental conditions

\*\* Macintosh computers require a ViewSonic Macintosh Kit. Contact ViewSonic (see back cover of this user's guide.)

All products and trademarks are brand names of their respective companies. Specifications are subject to change without notice.

# Timing Chart

The following table lists the maximum refresh rates that the **ViewSonic PJL855** will operate at a number of standard resolutions (timing presets). While the projector is capable of this level of performance, not all video cards are capable of operating at these signal timings. See your graphics card user's guide to ensure compatibility.

| Computer/Signal Timings   | Input Resolution<br>H x V | Vertical Frequency<br>(Refresh Rate)<br>(Hz) | Horizontal Frequency<br>(kHz) | Polarity of Synchronizing<br>Signal H/V | Output Resolution<br>(Display Dots)<br>H x V |
|---------------------------|---------------------------|--|-------------------------------|---|--|
| Industry 640 x 400@56Hz   | 640 x 400                 | 56.4   | 24.8                          |   | 1024 x 640                                   |
| VESA 720 x 400@85Hz       | 640 x 480                 | 85.0   | 37.9                          | -/-                                     | 1008 x 640                                   |
| VESA 640 x 480@85Hz       | 640 x 480                 | 85.0   | 43.3                          | -/-                                     | 853 x 640                                    |
| Mac® 13" 640 x 480@67Hz   | 640 x 480                 | 66.7   | 35.0                          | -/-                                     | 1024 x 768                                   |
| VESA VGA-3 640 x 480@73Hz | 640 x 480                 | 72.8   | 37.9                          | -/-                                     | 1024 x 768                                   |
| VESA VGA-3 640 x 480@75Hz | 640 x 480                 | 75.0   | 37.5                          | -/-                                     | 1024 x 768                                   |
| VESA VGA-3 640 x 480@85Hz | 640 x 480                 | 85.0   | 43.3                          | -/-                                     | 1024 x 768                                   |
| VESA SVGA 800 x 600@56Hz  | 800 x 600                 | 56.3   | 35.2                          | +/+                                     | 1000 x 750                                   |
| VESA SVGA 800 x 600@ 60Hz | 800 x 600                 | 60.2   | 37.9                          | +/+                                     | 1000 x 750                                   |
| VESA SVGA 800 x 600@ 72Hz | 800 x 600                 | 72.2   | 48.1                          | +/+                                     | 1000 x 750                                   |
| VESA SVGA 800 x 600@75Hz  | 800 x 600                 | 75.0   | 46.9                          | -/-                                     | 1000 x 750                                   |
| VESA SVGA 800 x 600@85Hz  | 800 x 600                 | 85.1   | 53.7                          | -/-                                     | 1000 x 750                                   |
| Mac 16" 832 x 624@75Hz    | 832 x 624                 | 74.57  | 49.7                          | +/+                                     | 1024 x 768                                   |
| VESA XGA 1024 x 768@60Hz  | 1024 x 768                | 60.0   | 48.4                          | -/-                                     | 1024 x 768                                   |
| VESA XGA 1024 x 768@70Hz  | 1024 x 768                | 70.1   | 56.5                          | -/-                                     | 1024 x 768                                   |
| VESA XGA 1024 x 768@75Hz  | 1024 x 768                | 75.0   | 60.0                          | -/-                                     | 1024 x 768                                   |

**CAUTION:** Some input sources may not display properly if they are not compatible with the projector. Some input sources may not display in full size, as shown in Output Resolutions.

## Connecting to the RS232 Port

The RS232C Port has two possible uses:

- 1 Mouse Emulation** This allows you to use a mouse with one computer at a time, by toggling between one computer connected to RGB1 and another computer connected to RGB2.

**NOTE:** Depending on which type of mouse you will be using (PS/2, ADB, or Serial) you must use the appropriate connector. (See diagrams below)

- 2 Computer Control Port** This is only used for special applications in which a computer controls the projector (instead of the projector's control buttons or Remote Control Unit).

**NOTE:** To use this feature you must first develop customized software using various control codes. To find out how to access this supplementary information, contact ViewSonic Customer Support. (See the back of this guide.)

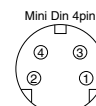
## Mouse Emulation

- 1 With both the projector and the computer powered OFF, connect the projector and the mouse terminal of the computer using the appropriate cable. (See diagrams to the right).
- 2 Disconnect the existing mouse.
- 3 Power ON the projector, then power ON the computer.  
**NOTE:** If mouse emulation will not start, reset the computer and/or check the mouse driver.

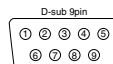
(a) PS/2 mouse connector



(b) ADB (Macintosh) mouse connector



(c) Serial mouse connector



**NOTE:**

Depending on which type of mouse you will be using (PS/2, ADB, or Serial) you must use the appropriate connector.

# Troubleshooting

## On-Screen Warning Messages

| OnView Message   | Recommended Action   |
|--|--|
| CHANGE THE LAMP<br>AFTER REPLACING THE LAMP,<br>RESET THE LAMP TIMER.  | The lamp unit should be replaced soon. Power will turn off automatically after 200 hours of use if you do not replace the lamp unit and reset the lamp time. See page 16.  |
| CHANGE THE LAMP<br>AFTER REPLACING THE LAMP,<br>RESET THE LAMP TIMER.<br>THE POWER WILL TURN<br>OFF AFTER 20 HR. | Replacing the lamp unit is recommended. Call ViewSonic® Customer Service to order a new lamp unit (RLU-150-03A). Power will turn off automatically after 20 hours of use if you do not replace the lamp unit and reset the lamp time. See page 16. |
| CHANGE THE LAMP<br>(Blinking message)  | Replace the lamp unit now. The power will turn off after 10 minutes.   |
| NO INPUT IS DETECTED   | No signal input is detected. Check all cable connections to all input devices.   |
| SYNC IS OUT OF RANGE   | Check to make sure the input signal (Horizontal and Vertical frequency) is within the range supported by the projector. See page 13.   |

## Control Panel Indicators

| ON Indicator  | LAMP Indicator | TEMP Indicator | Meaning  | Recommended Action   |
|---------------|----------------|----------------|--|--|
| Lights orange | Goes off       | Goes off       | Standby mode   | -----  |
| Blinks green  | Goes off       | Goes off       | While warming up                                     | -----  |
| Lights green  | Goes off       | Goes off       | During normal operation                              | -----  |
| Blinks orange | Goes off       | Goes off       | While cooling down                                   | -----  |
| Lights red    | Lights red     | Goes off       | Lamp cannot light                                    | Power OFF projector and let it cool down for 45 minutes. If LAMP Indicator is still lit, the lamp may be defective. Replace the Lamp Unit. |
| Lights red    | Blinks red     | Goes off       | Lamp is not properly installed, or lamp door is open | After the lamp has cooled down (45 min.), insert the Lamp Unit securely and re-attach the lamp cover.                                      |
| Lights red    | Goes off       | Goes off       | Cooling fan is not working properly                  | Contact ViewSonic Customer Support   |
| Blinks red    | Blinks red     | Blinks red     | Maximum number of lamp hours has been exceeded       | Replace the Lamp Unit and reset the Lamp Time (see page 16).   |

....continued

## Problem Solving Chart (Check this before contacting Customer Support)

| Phenomena   | Possible Cause   | Recommended Action  | Page No.       |
|---|--|---|----------------|
| Power cannot be turned on   | <ul style="list-style-type: none"> <li>◆ Main Power switch is not ON</li> <li>◆ Power cord is disconnected</li> <li>◆ 60 seconds have not elapsed since the power was turned off</li> <li>◆ Inside the projector is too hot</li> </ul> | <ul style="list-style-type: none"> <li>◆ Turn Main Power Switch ON</li> <li>◆ Insert power cord into an AC socket</li> <li>◆ After power is turned off, wait at least 60 seconds before turning power on again</li> <li>◆ Check to see make sure that the ventilation holes are not blocked</li> <li>◆ Clean the air filter</li> <li>◆ Verify that operating environment of projector is under 35° C</li> </ul> | 6, 7           |
| No picture or sound   | <ul style="list-style-type: none"> <li>◆ Input source is not set correctly</li> <li>◆ Wiring to projector is not correct</li> </ul>  | <ul style="list-style-type: none"> <li>◆ Select correct input source using INPUT button on projector or by accessing the INPUT menu</li> <li>◆ Verify cable(s) are connected correctly</li> </ul>   | 7, 10<br>5     |
| Picture without sound   | <ul style="list-style-type: none"> <li>◆ Wiring to projector is not correct</li> <li>◆ Volume is set to minimum</li> <li>◆ Projector is in Mute mode</li> </ul>  | <ul style="list-style-type: none"> <li>◆ Verify cable(s) are connected correctly</li> <li>◆ Press the VOLUME (+) button on the Remote Control Unit</li> <li>◆ Press MUTE button on projector or Remote Control Unit</li> </ul>  | 5<br>7<br>5, 7 |
| Sound without picture   | <ul style="list-style-type: none"> <li>◆ Wiring to projector is not correct</li> <li>◆ Brightness is set to minimum</li> <li>◆ Lens cap is attached</li> </ul>   | <ul style="list-style-type: none"> <li>◆ Verify cable(s) are connected correctly</li> <li>◆ On either projector or Remote Control Unit, press MENU button, select BRIGHT, and increase.</li> </ul>  | 6, 7<br>5, 9   |
| Color and Tint are incorrect  | <ul style="list-style-type: none"> <li>◆ Color and Tint are adjusted incorrectly</li> </ul>  | <ul style="list-style-type: none"> <li>◆ Adjust COLOR and TINT</li> </ul>   | 9              |
| Picture is dark   | <ul style="list-style-type: none"> <li>◆ Brightness and Contrast are not adjusted correctly</li> </ul>   | <ul style="list-style-type: none"> <li>◆ Adjust BRIGHT(Brightness) and CONTRAST</li> </ul>  | 9              |
| Picture is not clear  | <ul style="list-style-type: none"> <li>◆ Image is out of focus</li> </ul>  | <ul style="list-style-type: none"> <li>◆ Adjust focus using FOCUS RING</li> </ul>   | 7              |
| LAMP Indicator is lit red*  | <ul style="list-style-type: none"> <li>◆ Lamp is not functioning properly</li> </ul>   | <ul style="list-style-type: none"> <li>◆ Turn Power Switch OFF, wait 45 minutes; then turn power ON again</li> </ul>  | 6              |
| Mouse Emulation feature is not working (using Remote Control Unit as a mouse) | <ul style="list-style-type: none"> <li>◆ Mouse cable was connected after the power was turned on</li> <li>◆ RGB signal was not selected</li> </ul>   | <ul style="list-style-type: none"> <li>◆ Be sure to follow this procedure in this order: (1) connect mouse cable, (2) power-on projector, (3) turn PC on.</li> <li>◆ Verify that RGB (computer) signal is being input and verify that correct signal is selected (INPUT menu) --either RGB1 or RGB2.</li> </ul>   | 13             |
|   |  |   | 10             |



# Maintenance

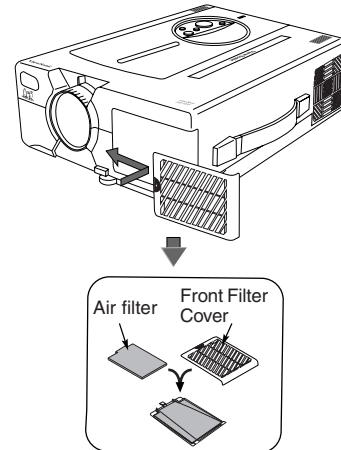
## Cleaning Instructions

To ensure that the projector functions properly, follow the recommended cleaning instructions below.

### Cleaning the Air Filter

**IMPORTANT:** Clean the air filter about every 100 hours.

- 1 Turn OFF the Main Power switch of the projector and disconnect the power cord from the wall outlet.
- 2 Carefully place the projector on its side (with the lens pointing up) onto a flat surface covered with soft material (like a towel). Then loosen the thumb screw and remove the air-filter plate.
- 3 Remove the air filter from the Front Filter Cover (as shown in the illustration to the right) and use a vacuum cleaner to clean the filter.
- 4 Re-install the air filter, then the Front Filter Cover. Tighten the thumb screw and plug the power cord back into the wall outlet.



**NOTE:** If sufficient dust, etc. collects in the air filter, a protection circuit in the projector will automatically turn off the power. To prevent this from occurring, make sure you clean the air filter every 100 hours.

### Cleaning the Lens

- To clean the lens, use a camera lens cleaning tissue or a camel hair brush.
- Be careful not to scratch the lens with a sharp or hard object.

**CAUTION:** Never use any ammonia or alcohol based cleaner on the lens.

### Cleaning the Cabinet

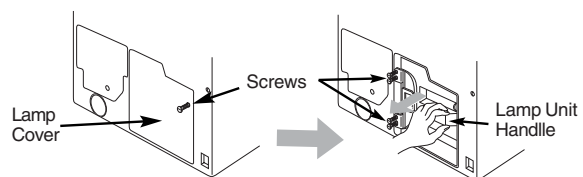
- Use a soft, dry, lint-free cloth to wipe dust, etc. from the cabinet.
- If this is insufficient, use a soft, lint-free cloth moistened with a mild detergent diluted with water. Then wipe the surface with a soft, dry, lint-free cloth.

**CAUTION:** Never use any ammonia or alcohol-based cleaner to clean the cabinet.

## Replacing the Lamp Unit

To order a new lamp unit (**Part No. RLU-150-03A**) contact ViewSonic® Customer Support.

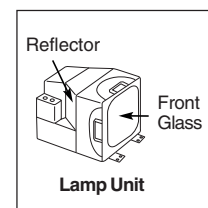
- 1 Make sure the Main Power switch is OFF, then disconnect the power cord from the wall outlet. If the projector has recently been turned on, wait at least 45 minutes for the lamp to cool down.
- 2 Carefully place the projector onto a flat surface covered with soft material (like a towel). Then loosen the Lamp Cover screw and remove the Lamp Plate (as shown to the right).
- 3 Loosen the four (4) lamp-unit screws, grasp the Lamp Unit Handle, and gently pull the lamp unit out of the projector.
- 4 Carefully insert the new lamp unit into the projector and tighten the lamp-unit screws.
- 5 Re-install the Lamp Cover and tighten the Lamp Cover screw securely. Power-on the projector.
- 6 **Reset the lamp time** (within 10 minutes)
  - Press RESET (on projector) or TIMER (on Remote Control Unit) and hold for three (3) seconds
  - Press RESET (on projector) or MENU ON (on Remote Control Unit)
  - Select "0" on the screen using MENU [<] (on projector) or DISKPAD (on Remote Control Unit.)



**Replace the lamp unit if:**

- the picture is dark
- "CHANGE THE LAMP" is displayed
- the lamp indicator on the projector remains lit red. (See page 14.)

**CAUTION:** HANDLE THE LAMP UNIT CAREFULLY. Dropping the unit could cause the lamp to explode.



# LIMITED WARRANTY

## VIEWSONIC P JL855 OFFICE THEATER™

### What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, **ViewSonic** will at its sole option repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

### How long the warranty is effective:

The **ViewSonic P JL855 Office Theater** projector is warranted for three (3) years for all parts excluding the lamp, three (3) years for all labor, and ninety (90) days for the lamp from the date of the first consumer purchase.

### Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

### What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
  - a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - b. Repair or attempted repair by anyone not authorized by **ViewSonic**.
  - c. Any damage of the product due to shipment.
  - d. Removal or installation of the product.
  - e. Causes external to the product, such as electric power fluctuations or failure.
  - f. Use of supplies or parts not meeting **ViewSonic's** specifications.
  - g. Normal wear and tear.
  - h. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

### How to get service:

1. For information about receiving service under warranty, contact **ViewSonic** Customer Support. See the back cover of this user's guide.
2. To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product prepaid in the original container to **ViewSonic** or a service center authorized by **ViewSonic**.
4. For additional information or the name of the nearest **ViewSonic** service center, contact your **ViewSonic** dealer or **ViewSonic**.

### Limitation of implied warranties:

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

### Exclusion of damages:

**VIEWSONIC'S** LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. **VIEWSONIC** SHALL NOT BE LIABLE FOR:

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
3. ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

### Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

### Sales outside the U.S.A.:

For **ViewSonic** products sold outside of the U.S.A., contact your **ViewSonic** dealer for warranty information and service.

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## Customer Support

| Country/<br>Region | Telephone/Fax                          | Email/<br>Website  |
|--------------------|--|--|
| United States      | T: (800) 688-6688<br>F: (909) 468-1202 | service.us@viewsonic.com<br><a href="http://www.viewsonic.com/support">www.viewsonic.com/support</a> |
| Canada             | T: (800) 688-6688<br>F: (909) 468-1202 | service.ca@viewsonic.com<br><a href="http://www.viewsonic.com/support">www.viewsonic.com/support</a> |

### **ViewSonic® Corporation**

381 Brea Canyon Road

Walnut, CA 91789

Tel (909) 869-7976

Tel (800) 688-6688

Fax (909) 468-1202