ViewSonic[®]

PJ860

Office Theater™

User's Guide

Guide de l'utilisateur

Bedienungsanleitung

Manual de Instrucciones

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Guida utente

Guia do usuário

Användarhandbok

Руководство для пользователя

Informator użytkownika

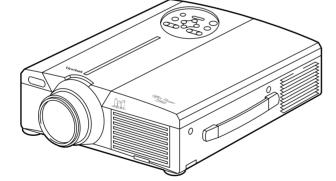
ユーザース・ガイド

用戶手冊

用户指南

사용자 설명서

دليل المستخدم



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

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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.

Model Name: Model Number: Document Number: Serial Number: Purchase Date: ViewSonic PJ860 VPRJ21558-2 PJ860-2_UG_181 (Rev. 1C)

Electronic Warranty Registration

Register your projector at **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.

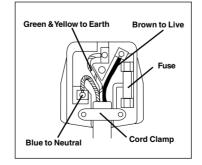
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

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.

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Important Safety Precautions

Warning Following these instructions could prevent possible injury or death.

If any of the 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. <u>DO NOT PULL THE</u> 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:

- 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 10 cm from any wall (allowing space for the ventilation holes).

Do not place projector in a moist

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 a long time, pull out power plug and close lens cover.

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

- Contact 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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Clean the air filter after every 100

or dusty place:

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ViewSonic PJ860

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Getting Started

Congratulations on purchasing a **ViewSonic** *PJ860* **Office** TheaterTM LCD projector! *Save the original box and all packing material for future shipping needs.*

Package Contents

- ViewSonic PJ860 Office Theater
- Remote Control Unit/Mouse & Laser Pointer
- 2 AA batteries
- 3 AC power cords (U.S., Europe, and China)
- RGB computer video cable (15-pin mini D-sub
- connector)
- Video/Audio cable (RCA connectors)
- S-Video cable (RCA connectors)
- Audio (stereo) mini-DIN cable

* **IMPORTANT:** The supplied **INF file** assures compatibility with Windows operating systems, and the **ICM file** (Image Color Matching) ensures accurate on-screen.3 A. Whcreusratiares cugistasite thignerisf yce, ure

Installation

1 Connect signal input cables

With both the PJ860 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 PJ860.

- 2 Connect power cord Connect the power cord to a properly grounded AC outlet, then to the PJ860.
- 3 Power-ON projector and all input devices (computer, VCR, etc.)
 - · Power-ON the PJ860 projector.
 - Power-ON all input devices.

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.

- *Records* on page 1 of this guide.
 Register the warranty of your projector on the Internet at:
 - http://www.viewsonic.com

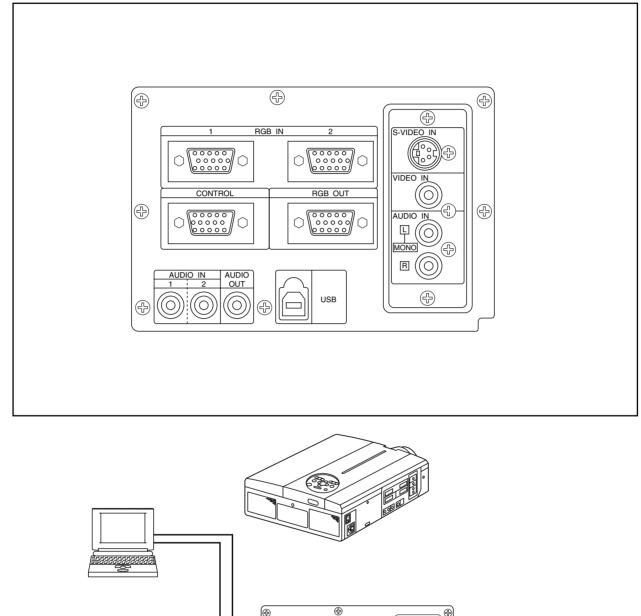
To be best prepared for any future

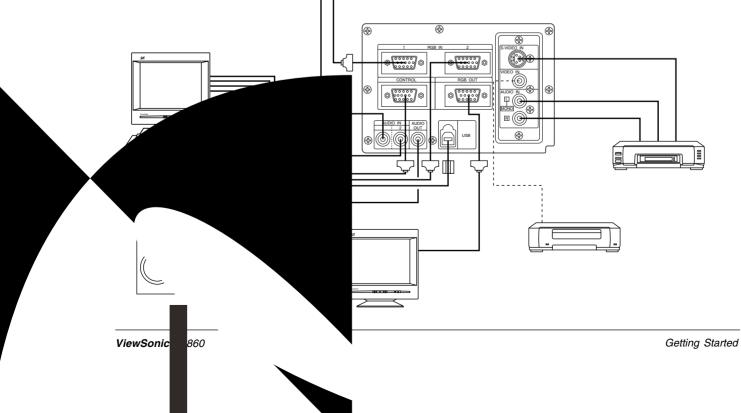
• Write the serial number (see the

bottom of the projector) in "For your

customer service needs:

Getting Started





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- 1 <u>Power ON the projector</u>. Set the MAIN POWER switch to ON (located on the side Connector Panel). The ON indicator lights orange.
- 2 <u>Press the STANDBY/ON button</u> 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.

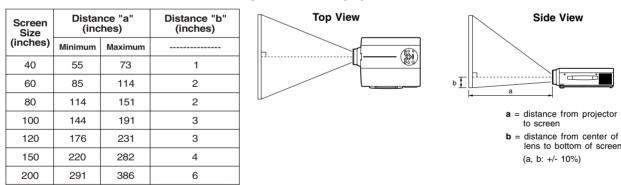
- 3 Remove the lens cap.
- 4 <u>Position the projector</u> the desired distance from the projection screen, then <u>set the projection angle</u> by positioning the foot adjusters. (See *Positioning the Projector* and *Setting the Projection Angle* below.)
- 5 <u>Power ON all connected input devices</u>. (See page 5.)
- 6 <u>Select the signal source</u>: press the INPUT button on the projector or one of the INPUT buttons (VIDEO/RGB) on the Remote Control Unit. (See page 7.)

NOTE: To switch between RGB1 and RGB2, use the INPUT menu (see page 10).

7 Using buttons on the Remote Control Unit or the control panel on top of the projector, <u>adjust the picture size</u> with the ZOOM button, then <u>adjust the focus</u> using the FOCUS button.

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.



Setting the Projection Angle

- 1 While firmly grasping the front of the projector with both hands, use your index finger to push --and hold-- the Adjuster Buttons (located on the sides of the projector).
- 2 While pressing the Adjuster Buttons, tilt the front of the projector up in order to adjust the viewing angle. Then (while still grasping the projector) 8 1 Tc1the fro 0 theo 0 Adjusteloksing the frone

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Front View	
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ViewSonic PJ860

Side View

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Operation



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.

Returning to Factory Default Settings

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

- 1 Select the menu (follow step 2 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.

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

Memory Function

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

Freeze Function

This function displays a still picture, freezing a moving video image (similar to the "pause" function of a VCR).

- 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.

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

<u>NOTE</u>: The Magnify function is released when an 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.

Operation

<u>NOTE</u>: FREEZE and MAGNIFY can not be used simultaneously.

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hen repeat these ing RGB1 and to input port).

11111	Red Green
For RGB s	ignal input only
V POSIT (VERTICAL POSITION)	Moves picture up or down (or use AUTO automatic control)
H POSIT (HORIZONTAL POSITION)	Moves picture left or right (or use AUTO)
H PHASE (HORIZONTAL PHASE)	Eliminates Horizontal Noise* (or use AUTO)
H SIZE (HORIZONTAL SIZE)	Widens/narrows horizontal size of picture (or use AUTO)
COLOR BAL R (COLOR BALANCE RED)	Red: Lighter <> Darker
COLOR BAL B (COLOR BALANCE BLUE)	Blue: Lighter <> Darker

VIDEO	signal input
SETUP INPL	JT (IMAGE) OPT.)
VOLUME	
	• •
CONTRAST	•
(<u>V POSIT</u>)	100 🔿 🛛
(<u>H POSIT</u>)	100 🕞
(H PHASE)	(333)

RGB signal input

NPUT IMAGE OPT.

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SETUP

COLOR BAL R COLOR BAL B

* "Horizontal noise" appears as horizontal lines on the screen image when Horizontal Phase is not adjusted; when adjusted properly, text characters appear sharp.

NOTE:

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- 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.

AUTO Adjustment function

The AUTO Adjustment function automatically adjusts 4 controls: V. POSIT (Vertical Position), H. POSIT (Horizontal Position), H. PHASE (Horizontal Phase), and H. SIZE (Horizontal Size).

NOTE -- Auto Adjust:

• May require several seconds to execute

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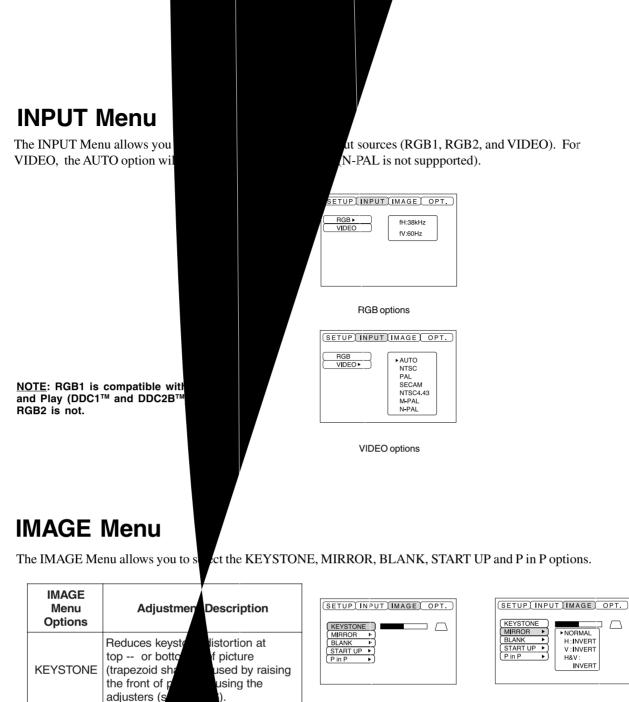
- · May not operate correctly with some projected images
- · May cause parts of the projected image to be slightly dark in some cases
- Can not execute when the FREEZE or MAGNIFY function is in use, or when the initial on-screen message is "NO INPUT IS DETECTED" or "SYNC IS OUT OF RANGE."

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Operation

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 \square NORMAL H:INVERT V:INVERT INVERT adjusters (s Inverts pic ally and/or vertically (SETUP) INPUT IMAGE OPT. (SETUP) INPUT IMAGE OPT. NORM/ to factory STONE \square KEYSTONE MIRROR H : INVERT V : INVERT H&V : INVERT START UP BLANK

START UP

P in P H:INre ►TURN ON TURN OFF MIRROR V : H (SETUP) INF lay BLANK nput it signal is NOTE: The source of the "large picture" of the P in P (picture in picture) image is the RGB (computer) signal and the source of the "small picture" is the VIDEO signal. select/de-select the c welcome screen at start-With P in P activated, the audio source defaults to the audio from the VIDEO source. To switch to the RGB (computer) audio source, push one of the Volume buttons. Selects the position of the sub No picture is displayed when either no signal is detected (small) Picture-in-Picture screen or when the signal is out of the signal range. image.

peration

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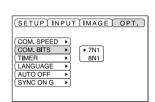
ViewSonic PJ860

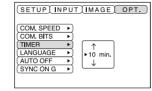
OPT. (OPTION) Menu

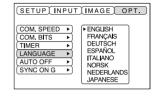
The OPT. Menu allows you to adjust the Communication Function* (COM. SPEED and COM. BITS), enabling you to control the projector from a computer. The OPT. Menu also allows you to set the TIMER, select the LANGUAGE for all on-screen displays, activate AUTO OFF and START UP.

OPT. (OPTION) Menu Options	Adjustment Description
COM. SPEED (COMMUNI- CATION)	Selects data speed of transmission: 1200, 2400, 4800, 9600, 19200. (Used for computer control of projector.)
COM. BITS	Selects data transmission format: 7N17 data bits, No Parity, 1 Stop bit 8N18 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, Français (French), Deutsch (German), Español (Spanish), Italiano (Italian), Norsk (Norwegian), Nederlands (Dutch), Japanese.
AUTO OFF	Automatically shuts off the projectorand puts it in Standby Mode after a specified period of time that no input source is detected (up to 99 minutes). To disable AUTO OFF, set minutes to 0.
SYNC ON G	Toggles the Sync on Green feature on/off.

COM. SPEED	•	1200bps
COM. BITS	•	2400bps
TIMER	•	4800bps
LANGUAGE	•	9600bps
AUTO OFF	۰)	19200bps
SYNC ON G	٦Ì.	







(SETUP) IN	PU	T)IMAGE)	OPT.
COM. SPEED	•		
COM. BITS			
(TIMER	•		

↑ 10 min.

SETUP INPUT	IMAGE OPT.
COM. SPEED •) COM. BITS •) TIMER •) LANGUAGE •) AUTO OFF •) SYNC ON G •)	FURN ON TURN OFF

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

* <u>NOTE</u>: Computer control of the projector (communication function) is an advanced feature that requires specialized software not included with the PJ860. To develop this software you will need various control codes and other supplementary information available from ViewSonic Customer Support. (See page 15.)

ViewSonic PJ860

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Technical Information

Specifications

LCD	Type Pixels	1.3" Polysilicon (x3) Stripe Pixel 800 x 600 TFT Active Matrix 1,440,000 (800 dots x 600 lines x 3 colors)
Lens Display	Type Image Size Projection Distance Brightness Contrast Ratio Aspect Ratio Lamp Lamp Life	Power Focus, Power Zoom (1-1.3X) F1.7 ~ 2.3 (f = 49 - 64 mm) 30" - 300" (76.2mm x 7620mm) 1.1m - 11m 1700 ANSI Lumens (typical)*, 1360 ANSI Lumens (minimum) 100:1 (typical - ANSI method), 200:1 (typical - non-ANSI method) 4:3 190 W Ultra High Pressure compact 1500 hours (shutdown)
Audio	Power	2 W (1 W + 1 W) 10%THD
Input Signal	RGB Analog Video Frequency	75 ohms, 0.7 Vp-p X2 H/V Separated, Composite (TTL) NTSC 3.58 / PAL-N, PAL-M / SECAM S-Video Luminance signal 0.7 Vp-p, 75 ohms termination Chrominance signal 0.29 Vp-p (NTSC), 0.30 Vp-p (PAL), 75 ohms termination f_h : 15.75/15.63, 25-60 kHz f_v : 56-85 Hz
Compatibility	PC Macintosh [®] ** Video	PC compatible (up to 1024 x 768 compressed) Power Macintosh [®] (up to 1024 x 768 compressed) NTSC 3,58 / PAL-N, PAL-M / SECAM S-Video
Maximum Recommended Resolutions		1024 x 768 @ 75 Hz (Compressed) 800 x 600 @ 60 Hz
Input Ports Output Ports	RGB Video S-Video Audio RGB Audio	15 pin mini D-sub (x2) RCA (x1) Mini DIN 4-pin (x1) RCA jack (L/R) for Video, Stereo Mini (x2) for RGB 15 pin mini D-sub (x1) Stereo Mini (x1) for Audio-out
Power	Voltage Consumption	AC 100-120/220-240 50 / 60 Hz (Automatic), 3 Wire Grounded 370 Watts
User Controls	Physical/projector	Standby On/Off, Menu (Left, Right, Up, Down), Input, Reset, Mute
Video	Input Bandwidth	82 MHz
Operating Conditions	Temperature Humidity	32°F to 95°F (0°C to 35°C) 10% to 85% (no condensation)
Optimum Installation Environment	Temperature Humidity	59°F to 82°F (15°C to 28°C) 40% to 75% (no condensation)
Storage Conditions	Temperature Humidity	-4°F to +140°F (-20°C to +60°C) 10% to 85% (no condensation)
Dimensions	Physical Packing	292 mm (W) x 124 mm (H) x 395 mm (D) 11.4" (W) x 4.9" (H) x 15.5" (D) 385 mm (W) x 370 mm (H) x 532 mm (D) 15.1" (W) x 14.5" (H) x 20.9" (D)
Weight (typical)	Net Gross	5.9 kg (13.0 lb) 11.8 kg (26.0 lb)
Regulations		UL, FCC-A, cUL, CE, CB Report, TÜV/GS, EMC report
Power Savings	"On" Green "Stand By" Amber	370 W 11 W

Brightness may vary with lamp age and environmental conditions.

**

Macintosh computers require a Macintosh adaptor (supplied with the PJ860 projector).
 All products and trademarks are brand names of their respective companies. Specifications are subject to change without notice.

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ViewSonic PJ860

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Timing Chart

The following table lists the maximum refresh rates that the ViewSonic PJ860 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's user guide to ensure compatibility.

Computer/Signal Timings	Input Resolution H x V	Vertical Frequency (Refresh Rate) (Hz)	Horizontal Frequency (kHz)	Polarity of Synchronizing Signal H/V
Industry 640 x 400 @ 56 Hz	640 x 400	56.4	24.8	
VESA VGA-1 640 x 350 @ 85 Hz	640 x 350	85.1	37.9	-/-
VESA VGA-2 640 x 400 @ 85 Hz	640 x 400	85.1	37.9	-/-
VESA 720 x 400 @ 85 Hz	640 x 480	85.0	37.9	-/-
VESA VGA-3 640 x 480 @ 60 Hz	640 x 480	59.9	31.5	-/-
Mac® 13" 640 x 480 @ 67 Hz	640 x 480	66.7	35.0	-/-
VESA VGA-3 640 x 480 @ 73 Hz	640 x 480	72.8	37.9	-/-
VESA VGA-3 640 x 480 @ 75 Hz	640 x 480	75.0	37.5	-/-
VESA VGA-3 640 x 480 @ 85 Hz	640 x 480	85.0	43.3	-/-
VESA SVGA 800 x 600 @ 56 Hz	800 x 600	56.3	35.2	+/+
VESA SVGA 800 x 600 @ 60 Hz	800 x 600	60.3	37.9	+/+
VESA SVGA 800 x 600 @ 72 Hz	800 x 600	72.2	48.1	+/+
VESA SVGA 800 x 600 @ 75 Hz	800 x 600	75.0	46.9	-/-
VESA SVGA 800 x 600 @ 85 Hz	800 x 600	85.1	53.7	-/-
Mac 16" 832 x 624 @ 75 Hz (partial)	832 x 624	74.6	49.7	+/+
VESA XGA 1024 x 768 @ 60 Hz (compressed)	1024 x 768	60.0	48.4	-/-
VESA XGA 1024 x 768 @ 70 Hz (compressed)	1024 x 768	70.1	56.5	-/-
VESA XGA 1024 x 768 @ 75 Hz (compressed)	1024 x 768	75.0	60.0	-/-

<u>CAUTION:</u> 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.)

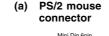
2 Computer Control Port This is only used for special applications in which a computer controls the projector (instead of the projector's control buttons or Remote Control Unit).

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 page 15.)

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.



6 6 9 3

4 21

Serial mouse

D-sub 9pin

12345 6789

connector

(c)

ADB (Macintosh) (b) mouse connector



NOTE:

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

ViewSonic PJ860

Troubleshooting

On-Screen Warning Messages

OnView Message	Recommended Action
"CHANGE THE LAMP" "CALL A MAINTENANCE PERSON"	The lamp unit should be replaced soon. After 200 hours of use power will turn off automatically if you do not replace the lamp unit and reset the lamp time. See page 16.
"CHANGE THE LAMP" "CALL A MAINTENANCE PERSON" "THE POWER WILL TURN OFF AFTER 20 HR."	Replacing the lamp unit is recommended. Call ViewSonic [®] Customer Service to order a new lamp unit (RLU-190-03A). 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 (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.

Problem Solving Chart (Check before contacting Customer Support)

Symptom	Possible Cause	Recommended Action	Page No.
Power cannot be turned on	 Main Power switch is not ON Power cord is disconnected 60 seconds have not elapsed since the power was turned off Inside the projector is too hot 	 Turn Main Power Switch ON Insert power cord into an AC socket After power is turned off, wait at least 60 seconds before turning power on again Check to make sure that the ventilation holes are not blocked Clean the air filter Verify that operating environment of projector is under 35°C 	6, 7
No picture or sound	 Input source is not set correctly Connections to projector are not correct 	 Select correct input source using INPUT button on projector or by accessing the on-screen INPUT menu with the Remote Control Unit Verify cable(s) are connected correctly 	7, 10 5
Picture without sound	 Connections to projector are not correct Volume is set to minimum Projector is in Mute mode 	 Verify cable(s) are connected correctly From the Projector Control Panel, select BRIGHT with the MENU button and then press the [>] button Remove the lens cap 	5 7 5, 7
Sound without picture	 Connections to projector are not correct Brightness is set to minimum Lens cap is attached 	 Verify cable(s) are connected correctly On either projector or Remote Control Unit, press MENU button, select BRIGHT, and increase. 	6, 7 5, 9
Colors are pale and color matching is poor	 Color density and color matching are not correctly adjusted 	Adjust the video	9
Picture is dark	 Brightness and Contrast are not adjusted correctly The lamp is nearing the end of its service life 	 Adjust BRIGHT (Brightness) and CONTRAST Replace the lamp unit 	9
Picture is blurred adjustn			
ndicator is lit red* • Lamp i	s not runctioning property minut	es; then turn power ON again	
ndicator is lit red* • Interna	al overheating + Clean • Verify	ation holes are not blocked the air filter 6, 7 that operating environment	
	Power cannot be turned on No picture or sound Picture without sound Sound without picture Colors are pale and color matching is poor Picture is dark Picture is blurred adjustn ndicator is lit red* + Lamp i	Power cannot be turned on Main Power switch is not ON Power cord is disconnected 60 seconds have not elapsed since the power was turned off Inside the projector is too hot Inside the projector is too hot Input source is not set correctly Connections to projector are not correct Volume is set to minimum Projector is in Mute mode Connections to projector are not correct Volume is set to minimum Projector is in Mute mode Connections to projector are not correct Volume is set to minimum Projector is in Mute mode Connections to projector are not correct Brightness is set to minimum Lens cap is attached Color density and color matching is poor Brightness and Contrast are not adjusted Brightness and Contrast are not adjusted correctly The lamp is nearing the end of its service life Picture is blurred AdjustmenEcus or H PHASE is out of minut Check ventili Clear ventili Clear ventili Clear ventili Verify <l< td=""><td>Power cannot be turned on • Main Power switch is not ON • Power cord is disconnected • 6 seconds have not elapsed since the power was turned off • Inside the projector is too hot • Turn Main Power Switch ON • Insert power cord into an AC socket • After power is turned off, wait at least 60 seconds have not elapsed since the power was turned off • Inside the projector is too hot • After power switch ON • Power cord ind save on telapsed since the power was turned off • Inside the projector is too hot • After power switch ON • Power cord into an AC socket • After power on again • Check to make sure that the veriliation holes are not blocked • Clean the air filter • Verify that oprojector or by accessing the on-screen INPUT menu with the Remote Control Unit • Verify cable(s) are connected correct No picture or sound • Connections to projector are not correct • Select correctly • Outme is set to minimum • Projector is in Mute mode • Select BRIGHT with the MENU button and then press the [>] button • Remove the lens cap Picture without picture • Connections to projector are not correct • Verify cable(s) are connected correctly Sound without picture • Connections to projector are not correct • Verify cable(s) are connected correctly Colors are pale and color matching is poor • Color density and color matching are not correctly adjusted • Adjust the video Picture is dark • Brightness and Contrast are not of its service life • Adjust BRIGHT (Brightness) and CONTHAST Picture is blurred • Lamp is not functioning property • Turn Power Switch O</td></l<>	Power cannot be turned on • Main Power switch is not ON • Power cord is disconnected • 6 seconds have not elapsed since the power was turned off • Inside the projector is too hot • Turn Main Power Switch ON • Insert power cord into an AC socket • After power is turned off, wait at least 60 seconds have not elapsed since the power was turned off • Inside the projector is too hot • After power switch ON • Power cord ind save on telapsed since the power was turned off • Inside the projector is too hot • After power switch ON • Power cord into an AC socket • After power on again • Check to make sure that the veriliation holes are not blocked • Clean the air filter • Verify that oprojector or by accessing the on-screen INPUT menu with the Remote Control Unit • Verify cable(s) are connected correct No picture or sound • Connections to projector are not correct • Select correctly • Outme is set to minimum • Projector is in Mute mode • Select BRIGHT with the MENU button and then press the [>] button • Remove the lens cap Picture without picture • Connections to projector are not correct • Verify cable(s) are connected correctly Sound without picture • Connections to projector are not correct • Verify cable(s) are connected correctly Colors are pale and color matching is poor • Color density and color matching are not correctly adjusted • Adjust the video Picture is dark • Brightness and Contrast are not of its service life • Adjust BRIGHT (Brightness) and CONTHAST Picture is blurred • Lamp is not functioning property • Turn Power Switch O

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ENGLISH

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ViewSonic PJ860

E4-PJ860.p65

Customer Support

Most of your questions can be answered as follows:

Control Panel Indicators

LAMP Indicator

Turns off

Turns off

Turns off

Turns off

Lights red

Blinks red

Turns off

Blinks red

TEMP Indicator

Turns off

Blinks red

Meaning

During normal operation

Standby mode

While warming up

While cooling down

Lamp cannot light

Lamp is not properly

open

hours

installed, or lamp door is

Cooling fan is not working properly

Cumulative time of lamp

use has exceeded 1,500

Recommended Action

Power OFF projector and let it cool down for 20 minutes.

If LAMP Indicator is still lit,

the lamp may be defective. Replace the Lamp Unit. After the lamp has cooled

down (45 min.), insert the Lamp Unit securely and re-

Contact ViewSonic Customer

Replace the Lamp Unit and

reset the Lamp Time (see

attach the lamp cover.

Support.

page 16).

ON Indicator

Lights orange

Blinks green

Lights green

Blinks orange

Lights red

Lights red

Lights red

Blinks red

- 1 For the nearest ViewSonic authorized service provider, look up the ViewSonic Web site for your region or country.
- 2 For other assistance contact your reseller, or ask your reseller to refer you to a service center.
- For additional assistance see the contact information listed below. 3 NOTE: You will be asked to provide a serial number (on the back of the product).

Country/Region	Web site	T = Telephone F = FAX	Email
United States	viewsonic.com/ support	T: (800) 688-6688 F: (909) 468-1202	service.us@ viewsonic.com
Canada	viewsonic.com/ support	T: (800) 688-6688 F: (909) 468-1202	service.ca@ viewsonic.com
United Kingdom	viewsoniceurope.com	T: 0800 833 648 F: (01293) 643910	service.eu@ viewsoniceurope.com
Europe, Middle East, Baltic countries, and North Africa	viewsoniceurope.com	Contact your reseller	service.eu@ viewsoniceurope.com
Australia and New Zealand	viewsonic.com.au	T: +61 2 9929 3955 F: +61 2 9929 8393	service.au@ viewsonic.com
Singapore/India and Southeast Asia	viewsonic.com.sg	T : 65 273 4018 F : 65 273 1566	service.sg@ viewsonic.com
Other Asia/Pacific countries and Indian Peninsula	viewsonic.com.tw	T: 886 2 2246 3456 F: 886 2 8242 3668	service.ap@ viewsonic.com
South Africa	viewsonic.com/asia	T: 886 2 2246 3456 F: 886 2 8242 3668	service.ap@ viewsonic.com

ViewSonic PJ860

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Troubleshooting	15
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Maintenance

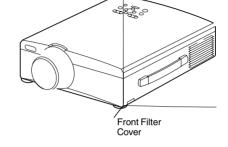
Cleaning Instructions

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 <u>disconnect</u> the power cord from the wall outlet.
- 2 Remove the Front Filter Cover (see diagram to the right).
- **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.



<u>NOTE</u>: 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.

<u>CAUTION</u>: Never use any ammonia or alcohol based cleaner on the lens.

Cleaning the Cabinet

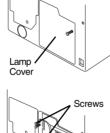
- Use a soft, dry, lint-free cloth to wipe dust, etc. from the cabinet.
- If this is insufficient, use a soft, lint-free cloth moistened with a mild detergent diluted with water. Then wipe the surface with a soft, dry, lint-free cloth.

<u>CAUTION</u>: Never use any ammonia or alcohol-based cleaner to clean the cabinet.

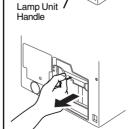
Replacing the Lamp Unit

To order a new lamp unit (Part No. RLU-190-03A) 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 Cover (as shown to the right).
- **3** Loosen the two (2) 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. <u>Power-on the projector</u>.
- 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 Conrol Unit)





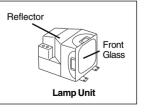


Replace the lamp unit if: • the picture is dark

- "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 Projector Model PJ860

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:

ViewSonic projectors are warranted for two (2) years for all parts excluding the lamp, two (2) 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 electrical 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. You will need to provide your product's serial number.
- 2. To obtain service under warranty, 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 freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
- 4. For additional information or the name of the nearest ViewSonic service center, contact 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. and Canada:

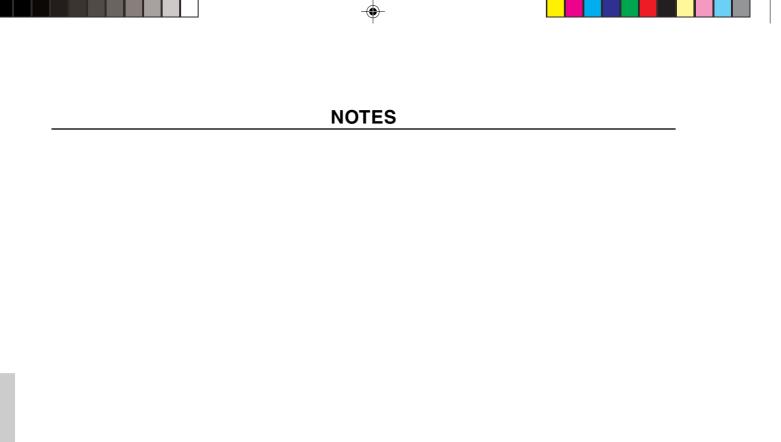
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For warranty information and service on **ViewSonic** products sold outside of the U.S.A. and Canada, contact **ViewSonic** or your local **ViewSonic** dealer.

Projector Warranty (V2.1)

Release Date 12-11-2000

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