

# VPL-FHZ90L

**9,000 lm (9,800 lm center) laser light source projector (colour availability may vary by country)**



## Overview

**These high-brightness 3LCD laser projectors offer stunning image quality with excellent reliability. Ideal for auditoriums, lecture theatres, halls and larger venues, they're also great for**

**teaching in brightly-lit classrooms.**

## **A bright and vibrant image**

Grab their attention – and keep it. The projectors' very high light output (9,000 lumens) ensures presentations with extra presence. You'll impress audiences in larger venues, from conference halls and lecture theatres to galleries, museums and visitor attractions.

## **Unforgettable images**

Secure your competitive edge with visibly superior pictures – thanks to the combination of a newly developed 1-inch 3LCD panel and optical compensator with our unique Z-Phosphor Laser Light Source. It adds up to bright, beautiful images, bursting with fine detail and rich, sumptuous colours.

## **Made for flexible installation**

Don't restrict your thinking. You'll appreciate the flexibility of industry-leading lens shift adjustment range and a wide choice of interchangeable lenses – giving more options to install the projector in any space, including classrooms and halls with high ceilings.

## **With normal lens shift**

The projector requires a mounting bracket, which obscures the audience's view.

## **With wide lens shift**

Lens shift gives greater installation flexibility, even in rooms with high ceilings.

## Features

### **Deliver your message**

Make sure your audience is always in the picture. Directly present HTML content – like corporate logos, images or information notices – over the network or from removable USB memory.

### **Beautifully consistent**

Auto calibration maintains precise colour consistency over extended operating periods. It's especially valuable for environments like museums and galleries where you can't afford to compromise the artist's original vision.

### **Don't keep them waiting**

Quick start-up saves time with every presentation. Switch on the VPL-FHZ90L and you're ready to start projecting at full brightness in moments. So you won't keep a room full of students waiting to see your point.

### **Instant recall**

Memorise and instantly recall up to six projector settings for image size, position and aspect ratio, saving valuable time for different environments and applications. (Requires optional VPLL-Z4111 lens)

### **Get closer to reality**

Sony's advanced Reality Creation technology analyses the input signal right down to the pixel level. Powerful pattern matching enhances crispness of on-screen images and text without adding digital picture noise.

## Specifications

Display System

Display System 3 LCD system

Display Device

Size of Effective Display Area	1" x 3 BrightEra LCD Panel, Aspect ratio: 16:10
Number of Pixels	6,912,000 (1920 x 1200 x 3) pixels
Aspect Ratio	16:10
Resolution	WUXGA (1920 x 1200 pixels)
Projection Lens	
Focus	Powered / Manual (Depend on lens)
Zoom - Powered / Manual	Powered / Manual (Depend on lens)
Zoom - Ratio	Depend on Lens
Throw Ratio	Depend on Lens
Lens shift - Powered / Manual	Powered
Lens shift - Range Vertical / Horizontal	Range Vertical: Depend on Lens Range Horizontal: Depend on Lens
Light Source	
Type Laser diode	
Filter Replacement Cycle (Max.)	
Filter Replacement Cycle (Max.)	10,000 H
Screen Size	
Screen Size Depend on Lens	
Light Output *1	
Mode: Standard	9,000lm*2
Mode: Standard (Centre)	9,800 lm*3
Mode: Middle	8,000 lm
Colour Light Output *1	

Mode: Standard 9,000 lm

Mode: Middle 8,000 lm

Contrast Ratio \*1

Contrast Ratio (full white / full black)      Contrast ratio (full white / full black) :  
∞ : 1

Displayable Scanning Frequency

Horizontal 15 kHz to 92 kHz

Vertical 48 Hz to 92 Hz

Accepted Signal Resolution

Computer Signal Input      Maximum signal resolution: 1920 x 1200

Video Signal Input      480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p,  
1080/60i, 1080/50i  
The following items are available for digital signal only;  
1080/60P, 1080/50p, 1080/24p

Keystone Correction (Max.)

Horizontal +/- 30 degrees

Vertical +/- 30 degrees

INPUT OUTPUT (Computer/Video/Control)

INPUT A RGB / Y PB PR input connector: 5 BNC (female)

INPUT B RGB input connector: Mini D-sub 15-pin (female)

INPUT C DVI input connector: DVI-D 24-pin (single link), HDCP support  
HDCP: v1.4

INPUT D HDMI input connector: HDMI 19-pin, HDCP support  
HDCP: v1.4

INPUT E HDBaseT interface connector: RJ45, 3 play

INPUT G HTML Viewer

OUTPUT Monitor output for Input A/Input B Connector: Mini D-sub 15-

1 pin (female)

INPUT OUTPUT (Others)

USB-1 Type-A x 1

Control signal input/output

REMOTE D-sub9pin male/RS232C

LAN RJ45, 10BASE-T/100BASE-TX/1000BASE-T

Acoustic Noise \*1

Light Output Mode: Standard 39dB

Light Output Mode: Middle 39dB

Operating Temperature / Operating Humidity

Operating Temperature / 0°C to 45°C (32°F to 109°F) / 20% to  
Operating Humidity 80% (no condensation)

Storage Temperature / Storage Humidity

Storage Temperature / -10°C to +60°C (14°F to +140°F) / 20% to  
Storage Humidity 80% (no condensation)

Power Requirements

Power Requirements AC 100 V to 240 V, 8.4 A to 3.4 A, 50 Hz / 60 Hz

Power Consumption

AC 100 V to 120 V 840 W

AC 220 V to 240 V 814 W

Power Consumption (Standby Mode)

AC 100 V to 120 V 0.50W (when "Standby mode" is set to "Low")

AC 220 V to 240 V 0.50W (when "Standby mode" is set to "Low")

Power Consumption (Networked Standby Mode)

21.6W (LAN)

AC 100 V 26.5W (HDBT)

to 120 V 26.6W (ALL Terminals and Networks Connected, when

"Standby Mode" is set to "Standard")

21.3W (LAN)

AC 220 V 26.5W (HDBT)

to 240 V 26.6W (ALL Terminals and Networks Connected, when  
"Standby Mode" is set to "Standard")

Dimensions (W x H x D) (without protrusions)

Dimensions (W x H x D) (without  
protrusions)

Approx. 544 x 205 x 564 mm  
(21 13/32 x 8 1/16 x 22 7/32  
inches)

Mass

Mass Approx. 26 kg (58 lb)

Supplied Accessories

Remote Commander RM-PJ30

Projection Lens

Projection Lens VPLL-4008, Z4111, Z4015, Z4019, Z4025, Z4045

Optional Projection Lens

Throw Ratio: 1:00:1

VPLL-4008 Lens Shift - Range Vertical: +/-32%  
Lens Shift - Range Horizontal: +/-15%

Throw Ratio: 1:30:1 to 1:96:1

VPLL-Z4111 Lens Shift - Range Vertical: +/-99%  
Lens Shift - Range Horizontal: +/-51%

Throw Ratio: 1:85:1 to 2:44:1

VPLL-Z4015 Lens Shift - Range Vertical: +/-98%  
Lens Shift - Range Horizontal: +/-51%

Throw Ratio: 2:41:1 to 3:07:1

VPLL-Z4019 Lens Shift - Range Vertical: +/-107%  
Lens Shift - Range Horizontal: +/-57%

VPLL-Z4025 Throw Ratio: 3:02:1 to 5:58:1  
Lens Shift - Range Vertical: +/-107%  
Lens Shift - Range Horizontal: +/-57%  
Throw Ratio: 5.56:1 to 7.5:1

VPLL-Z4045 Lens Shift - Range Vertical: +/-107%  
Lens Shift - Range Horizontal: +/-57%

## Notes

- \*<sub>1</sub> The figures are approximate. They vary depending on the environment or how the projector is used.  
The value is in accordance with ISO 21118, and may differ
- \*<sub>2</sub> depending on the actual unit. Brightness and contrast vary depending on use conditions and environments.
- \*<sub>3</sub> The value is light output measured at center area of screen in Standard mode, and average of all products shipped.

## Gallery













