

# VPL-FHZ91L

9000 lumens laser light source projector  
(color availability may vary by country)



## Overview

**Combining spectacular image quality with easy set-up and minimal maintenance needs, these high-brightness 3LCD laser projectors are ideal for installation in larger spaces.**

Captivate your audience in conference halls, lecture theaters, galleries, museums, visitor attractions and other large spaces. A high light output of 9,000 lumens ensures big-screen presentations with extra presence, even in brightly lit rooms.

Impressive picture quality is boosted by Sony's unique super resolution Reality Creation technology. This uses a powerful pattern-matching database to optimize lower-resolution images, enhancing clarity without increasing digital picture noise.

Save time with Sony's Intelligent Setting function that simplifies installation with pre-sets to optimize brightness, cooling, color and other projector settings. You'll be rewarded with great pictures in every environment.

You'll appreciate an 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. For extra flexibility the VPLL-Z4107 short-throw lens is ideal when positioning the projector close to the screen to avoid ceiling-mounted obstructions.

## Features

### **Reduced maintenance**

The laser light source offers up to 20,000 hours\* of operation without lamp exchange, reducing maintenance needs compared with traditional projectors.

*\* Depending on usage environment.*

### **Consistent brightness**

Experience consistent image brightness throughout the laser light source's 20,000 hours recommended lifespan.

### **Networked control and monitoring**

Ideal for integration in AV environments with leading control, monitoring, and management systems such as Crestron Connected™ and Extron® XTP™ Systems.\*

*\* Extron and XTP Systems are trademarks of RGB Systems Inc.*

### **Easy edge blending**

Seamlessly join color-matched images from multiple projectors for stunning super-size displays in corporate and education environments.

### **Versatile lens options**

There's a wide range of lens options to suit virtually any size of room and throw requirements. Quick-release bayonet mount simplifies lens exchange.

**Generous lens shift range**

Enjoy greater flexibility to position the projector in restricted spaces, ensuring that audience and presenters aren't distracted by the light source.

**Lens position memory**

Memorize and recall up to six settings for projected image size, position and aspect ratio, saving time in different environments. (Requires optional VPLL-Z4111 lens)

**Stylish blend-in design**

The slim, stylish body features a flat top surface that blends discreetly into any space when the projector is ceiling mounted.

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: Depends on the lens Range Horizontal: Depends on the lens

  

Light source	
Type	Laser diode

  

Filter replacement cycle (Max.)	
Filter replacement cycle (Max.)	10,000 H (service maintenance)

**Screen size**

Screen size	Depend on Lens
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**Light output \*1**

Mode: Standard	9,000 lm*2
Mode: Standard (Center)	9,800 lm*3
Mode: Middle	8,000 lm
Mode: Low	7,000 lm

**Color light output \*1**

Mode: Standard	9,000lm
Mode: Middle	8,000 lm
Mode: Low	7,000 lm

**Contrast ratio \*1**

Contrast ratio (full white / full black)	Contrast ratio (full white/full black): ∞ : 1
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**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, 1080/30p*4

**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

INPUT B	(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 F	Optional adaptor slot for 3G-SDI Input Adaptor (BKM-PJ20)
INPUT G	HTML Viewer
OUTPUT 1	Monitor output for Input A/Input B Connector: Mini D-sub 15-pin (female)
USB-1	Type-A x 1
USB-2	Type-B x 1 (for service)
REMOTE	D-sub9pin male/RS232C
LAN	RJ45, 10BASE-T/100BASE-TX/1000BASE-T

### Acoustic Noise\*1

Light output mode: Standard 39 dB

Light output mode: Middle 39 dB

### Operating temperature / Operating humidity

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

### Storage temperature / Storage humidity

Storage temperature / Storage humidity -10°C to +60°C (14°F to +140°F) / 20% to 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	0.50 W (when "Standby mode" is set to "Low")
AC 220 V to 240 V	0.50 W (when "Standby mode" is set to "Low")

### Power Consumption (Networked Standby Mode)

AC 100 V to 120 V	21.6 W (LAN) 26.5 W (HDBT) 26.6 W (ALL terminals and networks connected, when "Standby mode" is set to "Standard")
AC 220 V to 240 V	21.3 W (LAN) 26.5 W (HDBT) 26.6 W (ALL terminals and networks connected, when "Standby mode" is set to "Standard")

### Standby Mode / Networked Standby Mode Activated

Standby Mode / Networked Standby Mode Activated	Approx. 2 Minutes
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### Heat dissipation

AC 100 V to 120 V	2,866 BTU/h
AC 220 V to 240 V	2,777 BTU/h

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

Dimensions (W x H x D) (without protrusions)	Approx. 21 13/32 x 8 1/16 x 22 7/32 inches (544 x 205 x 564 mm)
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### Mass

Mass	Approx. 58 lb (26 kg)
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### Supplied accessories

Remote commander	RM-PJ30
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### Projection Lens

Projection Lens	VPLL-Z4107, 4008, Z4111, Z4015, Z4019, Z4025, Z4045
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### Optional Projection Lens

VPLL-Z4107	Throw ratio: 0:75:1 to 0:94:1
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VPLL-Z4107	Lens Shift — Range Vertical: +/-50% Lens Shift — Range Horizontal: +/-24%
VPLL-4008	Throw Ratio: 1:00:1 Lens Shift - Range Vertical: +/-32% Lens Shift - Range Horizontal: +/-15%
VPLL-Z4111	Throw ratio: 1:30:1 to 1:96:1 Lens Shift — Range Vertical: +/-99% Lens Shift — Range Horizontal: +/-51%
VPLL-Z4015	Throw Ratio: 1:85:1 to 2:44:1 Lens Shift - Range Vertical: +/-98% Lens Shift - Range Horizontal: +/-51%
VPLL-Z4019	Throw ratio: 2:41:1 to 3:07:1 Lens Shift — Range Vertical: +/-107% Lens Shift — Range Horizontal: +/-57%
VPLL-Z4025	Throw ratio: 3:02 AM:1 to 5:58 AM:1 Lens Shift — Range Vertical: +/-107% Lens Shift — Range Horizontal: +/-57%
VPLL-Z4045	Throw ratio: 5.56:1 to 7.5:1 Lens Shift — Range Vertical: +/-107% Lens Shift — Range Horizontal: +/-57%

## Notes

*1	The figures are approximate. They vary depending on the environment or how the projector is used.
*2	The value is in accordance with ISO 21118, and may differ depending on the actual unit. Brightness and contrast vary depending on use conditions and environments.
*3	The value is light output measured at center area of screen in Standard mode, and average of all products shipped.
*4	When using BKM-PJ20

## Gallery

