

## VPL-FHZ91L

9,000 lm (9,800 lm center) laser light source projector (colour 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 theatres, 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 optimise 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 optimise brightness, cooling, colour 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\* 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 colour-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**

Memorise 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
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### Display device

Size of effective display area	1" x 3 BrightEra LCD Panel, Aspect ratio: 16:10
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Number of pixels	6,912,000 (1920 x 1200 x 3) pixels
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Aspect ratio	16:10
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Resolution	WUXGA (1920 x 1200 pixels)
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### Projection lens

Focus	Powered/Manual(Depend on lens)
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Zoom - Powered/Manual	Powered/Manual(Depend on lens)
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Zoom - Ratio	Depend on Lens
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Throw ratio	Depend on Lens
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Lens shift - Powered/Manual	Powered
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Lens shift - Range Vertical/Horizontal	Range Vertical: Depend on Lens Range Horizontal: Depend on Lens
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## Light source

Type	Laser diode
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## Filter replacement cycle (Max.)

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

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

Mode: Standard	9,000lm *2 / 9,800lm (Center)*3
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Mode: Middle	8,000lm
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Mode: Low	7,000lm
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## Colour light output \*1

Mode: Standard	9,000lm
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Mode: Middle	8,000lm
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Mode: Low	7,000lm
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## Contrast ratio \*1

Contrast ratio (full white / full black)	Contrast ratio (full white / full black) : $\infty$ : 1
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## Displayable scanning frequency

Horizontal	15 kHz to 92 kHz
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Vertical	48 Hz to 92 Hz
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## Accepted signal resolution

Computer signal input	Maximum signal resolution: 1920 x 1200
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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
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## 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 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 39dB

Light output mode:  
Middle 39dB

## 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 / -10°C to +60°C (14°F to +140°F) /

Storage humidity 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
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## 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)
	26.5W (HDBT)
AC 100 V to 120 V	26.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")



AC 220 V to 240 V	21.3W (LAN) 26.5W (HDBT) 26.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")
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## 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	2866 BTU/h
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AC 220 V to 240 V	2777 BTU/h
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## 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)
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## Mass

Mass	Approx. 26 kg (58 lb)
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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  
Lens Shift - Range Vertical: +/-50%  
Lens Shift - Range Horizontal:  
+/-24%

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VPLL-4008      Throw Ratio: 1:00:1  
Lens Shift - Range Vertical: +/-32%  
Lens Shift - Range Horizontal:  
+/-15%

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VPLL-Z4111      Throw Ratio: 1:30:1 to 1:96:1  
Lens Shift - Range Vertical: +/-99%  
Lens Shift - Range Horizontal:  
+/-51%

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VPLL-Z4015      Throw Ratio: 1:85:1 to 2:44:1  
Lens Shift - Range Vertical: +/-98%  
Lens Shift - Range Horizontal:  
+/-51%

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VPLL-Z4019	Throw Ratio: 2:41:1 to 3:07:1 Lens Shift - Range Vertical: +/-107% Lens Shift - Range Horizontal: +/-57%
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VPLL-Z4025	Throw Ratio: 3:02:1 to 5:58:1 Lens Shift - Range Vertical: +/-107% Lens Shift - Range Horizontal: +/-57%
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VPLL-Z4045	Throw Ratio: 5.56:1 to 7.5:1 Lens Shift - Range Vertical: +/-107% Lens Shift - Range Horizontal: +/-57%
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## Notes

*1	The figures are approximate. They vary depending on the environment or how the projector is used.
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*2	The value is in accordance with ISO 21118, and may differ depending on the actual unit. Brightness and contrast vary
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depending on use conditions and environments.

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\*3

The value is light output measured at center area of screen in Standard mode, and average of all products shipped.

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\*4

When using BKM-PJ20

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## Gallery

