VPL-FHZ90L

9,000 lumens 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

D'ante de la constant	
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	
Туре	Laser diode
Filter replacement cycle	(Max.)
Filter replacement cycle (Max.)	10,000 H
Screen size	
Screen size	Depend on Lens



Light output *1

Light output mode: Standard 9,000lm

Light output mode: Middle 8,000lm

Colour light output *1

Light output mode: Standard 9,000lm

Light output mode: Middle 8,000lm

Contrast ratio

Contrast ratio (full white / full

black) *2

Contrast ratio (full white / full black): $\infty:1$

Displayable scanning frequency

Horizontal	15 kHz to 92 kHz
Vertical	48 Hz to 92 Hz

Display resolution

Video signal input

Computer signal input	Maximum display resolution: 1920 x 1200
Computer signal imput	data

dots

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
INDIT F	HDRaseT interface connector: RI45 3 nlav



IIVI OI L	Hobaset interface confidence. Ng-5, 5 play
INPUT G	HTML Viewer
ОШТРИТ 1	Monitor output for Input A/Input B Connector: Mini D-sub 15-pin (female)
INPUT OUTPUT (Others)	
USB-1	Type-A x 1

out
D-sub9pin male/RS232C
RJ45, 10BASE-T/100BASE-TX/1000BASE-T

Acoustic Noise 2	
Light output mode: Standard	39dB
Light output mode: Middle	39dB

Operating temp	relature / Operating numbers	
Operating tempera Operating humidity		% to 80% (no

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

840 W

AC 220 V to 240 V	814 W
Power Consumption (Standby Mode)	
AC 100 V/L 120 V/	0.50W (when "Standby mode" is set to

AC 100 V to 120 V	"Low")
AC 220 V to 240 V	0.50W (when "Standby mode" is set to "Low")

Acquistic Noise *2

Power requirements

AC 100 V to 120 V



Power Consumption (Ne	etworked Standby Mode)
AC 100 V to 120 V	21.6W (LAN) 26.5W (HDBT) 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")
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 Len	S
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: 3:02:1 to 5:58:1 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	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.
*2	The figures are approximate. They vary depending on the environment or how the projector is used.



Gallery













