

VPL-FHZ90L

9,000 lumens laser light source projector
(colour availability may vary by country)



Overview

Unforgettable images

VPL-FHZ90L offers dazzling brightness and high contrast for beautiful images, bursting with fine detail, thanks to a newly developed 1-inch 3LCD panel. With no lamps to replace regularly, the projector's efficient laser light source lets you enjoy up to 14,000 hours of reliable operation at 8,000 lumen brightness. And with virtually no discernible drop-off in image quality or brightness, you won't be compromised by sub-standard pictures.

Even richer colours

The new projectors offer the best balance of RGB color reproduction, thanks to the total design combination which are new developed 3LCD panel, Z-Phosphor system and adequate optical design. Your audience will see the difference with vivid, clear images that are sure to impress audiences, students and gallery visitors.

Industry-leading wide lens shift

This model supports 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.

*Requires optional lens

*Colour availability may vary by country

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
Projection lens*1	
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	Depend on Lens
Lens shift - Range Horizontal	Depend on Lens
Light source	
Type	Laser+Phosphor
Filter cleaning / replacement cycle (Max.)	
Filter cleaning / replacement cycle (Max.)	20,000 H (service maintenance)
Screen size	
Screen size	Depend on Lens
Light output *2	
Mode: Standard	9,000lm
Color light output *2	

Mode: Standard	9,000lm
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Displayable scanning frequency

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

Display resolution

Computer signal input	Maximum display resolution: 1920 x 1200 dots
Video signal input	NTSC, PAL, SECAM, 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.) *3

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
OUTPUT 1	Monitor output for Input A/Input B Connector: Mini D-sub 15-pin (female)
USB	Type-A x 1

Operating temperature / Operating humidity

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

Storage temperature / Storage humidity	-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)
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Dimensions (W x H x D) (without protrusions)

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Mass

Mass	28 kg
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Supplied accessories

Remote commander	RM-PJ30
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Optional Projection Lens

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 1:95:1 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: +/-60%
VPLL-Z4025	Throw Ratio: 3:02:1 to 5:58:1 Lens Shift - Range Vertical: +/-107% Lens Shift - Range Horizontal: +/-60%
VPLL-Z4045	Lens Shift - Range Vertical: +/-107% Lens Shift - Range Horizontal: +/-60%

Notes

*1	Depends on lens.
*2	The values are estimate.
*3	The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

Gallery

