

## VPL-FHZ120L

12,000 lm (13,100 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 (12,000 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.

#### **Even richer colours**

The VPL-FHZ120L offers the ideal solution for auditoriums and conference halls, which require AV solutions for live performances and ceremonies. Additionally, the projector supports sRGB100% mode making it suitable for applications often found in exhibitions and museums which require precise

colour reproduction.

## **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-FHZ120L 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 / | Powered / Manual (Depend on lens) |
|------------------|-----------------------------------|

|  |  |
|--|--|
| Manual                                   | 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<br>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 | 12,000lm *2 |
|----------------|-------------|

Mode: Standard

(Centre) 13,100 lm \*3

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Mode: Middle 10,000 lm

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## Colour Light Output \*1

Mode: Standard 12,000 lm

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Mode: Middle 10,000 lm

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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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## Colour Space

Colour Space sRGB 100% (Picture mode: sRGB)

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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

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1200

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|                    |  |
|--------------------|--|
| Video Signal Input | 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i<br>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 |
|------------|----------------|

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|          |                |
|----------|----------------|
| Vertical | +/- 30 degrees |
|----------|----------------|

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### INPUT OUTPUT (Computer/Video/Control)

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

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

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|         |   |
|---------|---|
| INPUT C | DVI input connector: DVI-D 24-pin (single link), HDCP support<br>HDCP: v1.4 |
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|         |   |
|---------|---|
| INPUT D | HDMI input connector: HDMI 19-pin, HDCP support<br><br>HDCP: v1.4 |
|---------|---|

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|          |  |
|----------|--|
| INPUT E  | HDBaseT interface connector:<br>RJ45, 3 play                                   |
| INPUT F  | Optional adaptor slot for 3G-SDI<br>Input Adaptor (BKM-PJ20)                   |
| INPUT G  | HTML Viewer  |
| OUTPUT 1 | Monitor output for Input A/Input B<br>Connector: Mini D-sub 15-pin<br>(female) |
| USB      | Type-A x 1   |

## 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:<br>Standard | 42dB |
|--------------------------------|------|

Light Output Mode: 39dB  
Middle

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## 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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## Power Requirements

Power Requirements AC 100 V to 240 V, 10.8 A to 4.4 A, 50 Hz / 60 Hz

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## Power Consumption (Maximum)

AC 100 V to 120 V 1076 W

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AC 220 V to 240 V 1033 W

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## Power Consumption (Standby Mode)

AC 100 V to 120 V 0.50W (when “Standby mode” is set)

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to “Low”)

AC 220 V to 240 V

0.50W (when “Standby mode” is set to “Low”)

## Power Consumption (Networked 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



VPLL-Z4019  
 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 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

