

## VPL-FHZ131L



**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 very high light output of 13,000 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.

#### **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.

**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<br>Range Horizontal: Depend on 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 |
|-------------|----------------|

### Light Output \*1

|                         |              |
|-------------------------|--------------|
| Mode: Standard          | 13,000lm *2  |
| Mode: Standard (Centre) | 13,600 lm *3 |
| Mode: Middle            | 10,000 lm    |
| Mode: Low               | 8,600 lm     |

### Colour Light Output \*1

|                |           |
|----------------|-----------|
| Mode: Standard | 13,000 lm |
| Mode: Middle   | 10,000 lm |
| Mode: Low      | 8,600 lm  |

### Contrast Ratio\*1

|  |  |
|--|--|
| Contrast Ratio (full white / full black) | Contrast Ratio (full white / full black) : ∞ : 1 |
|--|--|

### Colour Space

|              |                                |
|--------------|--------------------------------|
| Colour Space | sRGB 100% (Picture mode: sRGB) |
|--------------|--------------------------------|

### 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<br>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/Audio/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<br>HDCP: v1.4 |
| INPUT D  | HDMI input connector: HDMI 19-pin, HDCP support<br>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<br>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 | 42dB |
| 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 / 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, 10.8 A to 4.4 A, 50 Hz / 60 Hz |
|--------------------|---|

**Power Consumption (Maximum)**

|                   |       |
|-------------------|-------|
| AC 100 V to 120 V | 1076W |
|-------------------|-------|

|                   |       |
|-------------------|-------|
| AC 220 V to 240 V | 1033W |
|-------------------|-------|

### 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)

|                   |   |
|-------------------|---|
| AC 100 V to 120 V | 21.6W (LAN)<br>26.5W (HDBT)<br>26.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard") |
|-------------------|---|

|                   |   |
|-------------------|---|
| AC 220 V to 240 V | 21.3W (LAN)<br>26.5W (HDBT)<br>26.6W (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 |
|---|-------------------|

### Heat Dissipation

|                   |            |
|-------------------|------------|
| AC 100 V to 120 V | 3671 BTU/h |
|-------------------|------------|

|                   |            |
|-------------------|------------|
| AC 220 V to 240 V | 3524 BTU/h |
|-------------------|------------|

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

|  |  |
|--|--|
| Dimensions (W x H x D) (without protrusions) | Approx. 544 x 205 x 564 mm<br>(21 13/32 x 8 1/16 x 22 7/32 inches) |
|--|--|

### Mass

|      |                       |
|------|-----------------------|
| Mass | Approx. 27 kg (58 lb) |
|------|-----------------------|

### Supplied Accessories

|                  |         |
|------------------|---------|
| Remote Commander | RM-PJ30 |
|------------------|---------|

### Projection Lens

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

Optional Projection Lens

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



