VPL-FHZ58
4,200 lumens WUXGA laser light source projector

Overview

Superb image quality plus low running costs, minimal maintenance, flexible installation and low fan noise

The VPL-FHZ58 laser projector is ideal for a wide range of business, education and entertainment applications. Teamed with our BrightEra 3LCD projection engine, the advanced Z-Phosphor laser light source ensures detail-packed WUXGA resolution images with a generous 4,200 lumens brightness and rich, stable colors. Building on the success of Sony’s acclaimed first-generation laser projectors, advanced picture refinement technologies now assure even greater clarity and realism with any input source.

The laser light source allows up to 20,000 hours* of virtually zero maintenance operation without the worry of sudden lamp failures. Constant Brightness Mode maintains the same on-screen light levels throughout the laser source’s extra-long lifespan An automated filter system cuts the hassle of regular dust cleaning. Near-zero maintenance needs are complemented by a range of energy-saving features, driving down total lifetime ownership costs even further.

With a stylish blend-in design, tidy cable management and ultra-low fan noise, the VPL-FHZ58 fits beautifully into almost any environment - from academic institutions, corporate, medical training and public sector organizations to visitor attractions and retail spaces. Seamlessly blend images from multiple projectors to create super-sized displays, or project accurately proportioned images onto angled or curved surfaces. Mount the projector at any angle, even on its side or upside down. Set-up is refreshingly easy with a friendly installation menu.

VPLFHZ58/W is a white model.

VPLFHZ58/B is a black model.

Black and lensless models available in Europe; please check for local availability.

*Actual hours may vary depending on usage environment.

Features

Very high image quality with Sony’s advanced BrightEra 3LCD projection engine and Z-Phosphor laser light source

The Z-Phosphor laser light source is coupled with Sony's acclaimed BrightEra 3LCD projection engine to ensure high 4,200 lumen image brightness with vivid, natural color reproduction.
Constant Brightness
Constant Bright maintains the same brightness throughout the 20,000 hours recommended life span.

Advanced picture refinement technologies
Picture quality is boosted by advanced processing featured on Sony home cinema projectors. Reality Creation uses a powerful pattern-matching database to optimize every pixel. Contrast Enhancer actively analyzes and refines dark and light image areas for sparkling highlights and rich, deep blacks.

Crisp, detail-packed WUXGA resolution images
See the finest detail in PC presentations, videos or multimedia signage with WUXGA (1920 x 1200) 16:10 resolution.

Up to 20,000 hours* operation with virtually no maintenance
The advanced laser light source offers up to 20,000 hours* operation without lamp exchange, reducing lifetime running costs compared with traditional projectors.

*Actual hours may vary depending on usage environment.

Hassle-free automatic filter cleaning
Focus on great-looking images instead of arduous maintenance tasks: new automated filter cleaning system removes dust every 100 hours.

Energy saving features
Reduce running costs even further with convenient energy-saving features: Picture Mute and Auto Dimming.

Save time with every presentation
Quick power On/Off dramatically cuts warm-up time after switch-on before you can start presenting at full brightness.

360° free-angle installation capability
Enjoy greater installation flexibility: position the projector freely at any angle – or its side or even upside down.

Powered Wide Lens Shift
Generous lens shift adjustments give more flexibility for positioning the projector where you need it: close to ceilings or even horizontally offset.

Included powered standard zoom lens plus wide choice of lens options
Installation flexibility is increased by a wide range of compatible lens options to suit virtually any size of room and throw requirements. New quick-release bayonet mount simplifies quick lens exchange.

Supports HDBaseT
Simpler, more cost-effective installation and connectivity with digital transmission of HD video, audio and networking/control over a single Ethernet cable.

Create super-size displays with Edge Blending
Seamlessly join accurately color-matched images from multiple projectors, simplifying creation of stunning super-size displays for corporate and education.

Project onto non-flat surfaces with Image Warping
Easily correct image geometry for natural-looking projections – even on convex or concave surfaces. Corner and edge correction can be easily adjusted with the supplied remote and on-screen menu.
**Quiet operation**
Low fan noise ensures discreet, unobtrusive operation in quiet environments from museums and galleries to lecture theaters.

**Slim, attractive new blend-in design**
The slim, stylish case design features a flat top surface that blends in discreetly when the projector is ceiling mounted. The clean appearance is accentuated by a new terminal cover that reduces cable clutter.

**Picture Mode**
New Picture Mode ensures great-looking pictures in any presentation conditions. Select Standard, Dynamic, Brightness Priority or Multi Screen mode for optimized image quality, with any source and in every room.

**Built-in Auto Calibration**
After extended periods, color can be automatically calibrated to the original factory condition. There’s no need for extra calibration equipment or cameras; a built-in color sensor stores all the necessary information.

**Simple set-up with friendly new Installation menu**
Easily adjust projector settings with remote commander, including warping and edge blending.

**Project Side by Side**
Project images from two inputs at the same time: ideal for applications such as video conferencing and medical training where two images need to be seen simultaneously.

### Specifications

<table>
<thead>
<tr>
<th>Display system</th>
<th>3 LCD system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display device</td>
<td></td>
</tr>
<tr>
<td>Size of effective display area</td>
<td>0.76” (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10</td>
</tr>
<tr>
<td>Number of pixels</td>
<td>6,912,000 (1920 x 1200 x 3) pixels</td>
</tr>
<tr>
<td>Projection lens *1</td>
<td></td>
</tr>
<tr>
<td>Focus</td>
<td>Powered</td>
</tr>
<tr>
<td>Zoom - Powered/Manual</td>
<td>Powered</td>
</tr>
<tr>
<td>Zoom - Ratio</td>
<td>Approx. x 1.6</td>
</tr>
<tr>
<td>Throw ratio</td>
<td>1.39:1 to 2.23:1</td>
</tr>
<tr>
<td>Lens shift - Powered/Manual</td>
<td>Powered</td>
</tr>
<tr>
<td>Lens shift - Range Vertical</td>
<td>-5%, +60%</td>
</tr>
<tr>
<td>Lens shift - Range Horizontal</td>
<td>+/- 32%</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th>Laser diode</th>
</tr>
</thead>
<tbody>
<tr>
<td>*<em>Filter cleaning / replacement cycle (Max.)<em>2</em></em></td>
<td></td>
</tr>
<tr>
<td>Filter cleaning / replacement cycle (Max.)</td>
<td>20000 H (service maintenance)</td>
</tr>
<tr>
<td><strong>Screen size</strong></td>
<td></td>
</tr>
<tr>
<td>Screen size</td>
<td>40'' to 600'' (1.02 m to 15.24 m) (measured diagonally)</td>
</tr>
<tr>
<td><strong>Light output</strong></td>
<td></td>
</tr>
<tr>
<td>Mode: Standard</td>
<td>4200 lm</td>
</tr>
<tr>
<td>Mode: Middle</td>
<td>3000 lm</td>
</tr>
<tr>
<td><strong>Color light output</strong></td>
<td></td>
</tr>
<tr>
<td>Mode: Standard</td>
<td>4200 lm</td>
</tr>
<tr>
<td>Mode: Middle</td>
<td>3000 lm</td>
</tr>
<tr>
<td>*<em>Contrast ratio (full white / full black) <em>3</em></em></td>
<td></td>
</tr>
<tr>
<td>Contrast ratio (full white / full black)</td>
<td>500000:1</td>
</tr>
<tr>
<td><strong>Displayable scanning frequency</strong></td>
<td></td>
</tr>
<tr>
<td>Horizontal</td>
<td>15 kHz to 92 kHz</td>
</tr>
<tr>
<td>Vertical</td>
<td>48 Hz to 92 Hz</td>
</tr>
<tr>
<td><strong>Display resolution</strong></td>
<td></td>
</tr>
<tr>
<td>Computer signal input</td>
<td>Maximum display resolution: 1920 x 1200 dots *4</td>
</tr>
<tr>
<td>Video signal input</td>
<td>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 (HDMI input) only; 1080/60P, 1080/50p, 1080/24p</td>
</tr>
<tr>
<td><strong>Color system</strong></td>
<td></td>
</tr>
<tr>
<td>Color system</td>
<td>NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60</td>
</tr>
</tbody>
</table>
### Keystone correction (Max.)

<table>
<thead>
<tr>
<th></th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+/- 30 degrees</td>
<td>+/- 30 degrees</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>INPUT</th>
<th>Description</th>
</tr>
</thead>
</table>
| INPUT A | RGB / Y PB PR input connector: Mini D-sub 15 pin (female)  
Audio input connector: Stereo mini jack |
| INPUT B | DVI input connector: DVI-D 24-pin (single link), HDCP support  
Audio input connector: Shared with INPUT A |
| INPUT C | HDMI input connector: HDMI 19-pin, HDCP support  
Audio input connector: HDMI audio support |
| INPUT D | HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control) |
| VIDEO IN | Video input connector: BNC  
Audio input connector: Shared with input A |

<table>
<thead>
<tr>
<th>INPUT</th>
<th>Description</th>
</tr>
</thead>
</table>
| INPUT A | Monitor output for Input A Connector: Mini D-sub 15-pin (female)  
Audio output connector: Stereo mini jack |
| INPUT B | Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported  
Audio output, Monitor out connector: Stereo mini jack |
| REMOTE | D-sub 9-pin (male) / RS232C |
| LAN | RJ45, 10BASE-T/100BASE-TX |
| IR (Control S) | Stereo mini jack, Plug in power DC5V |

### Acoustic Noise

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp mode: Middle</td>
<td>28 dB</td>
</tr>
</tbody>
</table>

### Operating temperature / Operating humidity

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature / Operating humidity</td>
<td>0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)</td>
</tr>
</tbody>
</table>

### Storage temperature / Storage humidity

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage temperature / Storage humidity</td>
<td>-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)</td>
</tr>
</tbody>
</table>
### Power requirements

| Power requirements | AC 100 V to 240 V, 4.5 A to 1.9 A, 50 Hz / 60 Hz |

### Power consumption

| AC 100 V to 120 V | Mode: Standard: 367 W |
| AC 220 V to 240 V | Mode: Standard: 352 W |

### Power Consumption (Standby Mode)

| AC 100 V to 120 V | 0.5W (when “Standby mode” is set to “Low”) |
| AC 220 V to 240 V | 0.5W (when “Standby mode” is set to “Low”) |

### Power Consumption (Networked Standby Mode)

| AC 100 V to 120 V | 15.0 W (LAN) 19.4 W (HDBaseT) 19.4 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard") |
| AC 220 V to 240 V | 13.3 W (LAN) 17.4 W (HDBaseT) 17.4 W (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. 10 Minutes |

### Heat dissipation

| AC 100 V to 120 V | 1252 BTU/h |
| AC 220 V to 240 V | 1201 BTU/h |

### Dimensions (W x H x D)

| Dimensions (W x H x D) (without protrusions) | 460 x 169 x 515 mm 18 1/8 x 6 21/32 x 20 9/32 inches |

### Mass

| Mass | 16 kg (34 lb) |

### Supplied accessories
<table>
<thead>
<tr>
<th>Remote commander</th>
<th>RM-PJ27</th>
</tr>
</thead>
<tbody>
<tr>
<td>\textbf{Optional accessories}</td>
<td></td>
</tr>
<tr>
<td>Projection Lens</td>
<td>VPLL-3003 / 3007 / Z3009 / Z3010 / Z3024 / Z3032</td>
</tr>
<tr>
<td>\textbf{Notes}</td>
<td></td>
</tr>
<tr>
<td>(*1)</td>
<td>With supplied standard lens</td>
</tr>
<tr>
<td>(*2)</td>
<td>This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.</td>
</tr>
<tr>
<td>(*3)</td>
<td>The value is average.</td>
</tr>
<tr>
<td>(*4)</td>
<td>Available for VESA Reduced Blanking signal.</td>
</tr>
</tbody>
</table>
Gallery