

## VPL-FHZ75

6,500 lm (7,000 lm center)  
WUXGA laser light source  
projector



### Overview

#### **With advanced image technologies for high contrast presentations and installation-friendly features**

The compact, elegantly styled VPL-FHZ75 laser projector showcases cutting-edge Sony picture innovations and installation-friendly features - making it ideal for high brightness projection applications in midsize corporate, education and public environments.

The projector's long-lasting laser light source and newly-developed 0.76-inch 3LCD panel with incorporated optical compensator are augmented by powerful Reality Creation and colour processing technologies by Sony. This ensures exceptionally high-contrast images with WUXGA resolution, true-to-life colour and very high 6,500 lumens brightness - ideal for delivering lectures and presentations with extra audience engagement.

Leveraging its long-term experience in laser projector development and analysis, Sony's Intelligent Setting function simplifies installation, offering four pre-sets that adjust brightness, cooling system, colour and other projector settings for optimal performance in meeting/classrooms, museums, entertainment venues and multi-screen setups.

With its compact 'blend-in' design and widest vertical lens shift range in its class, the VPL-FHZ75 is ideal for installation even in limited spaces, while extra flexibility's provided with accurately-proportioned projection onto angled surfaces.

## Features

### **High contrast, very high quality 6,500 lumen images**

The laser is complemented by a newly-developed 0.76-inch LCD panel with incorporated optical compensator. Combined with powerful signal processing technology, this ensures vivid images with crisp detail,  $\infty$ :1 contrast and natural, accurate colour reproduction.

### **Advanced picture refinement technologies**

Picture quality is boosted by Sony's unique super resolution Reality Creation technology which uses a powerful pattern-matching database to optimise lower-resolution images, enhancing image clarity without increasing digital picture noise.

### **Intelligent Settings**

Leveraging its long-term experience in laser projector development and analysis, Sony's Intelligent Settings offer four presets, optimising brightness, cooling system and other projector settings to suit all usage environments - simplifying installation for busy system integrators.

### **Wide Lens Shift**

The industry's widest lens shift\* capability of Vertical +70% gives greater flexibility for positioning the projector, and ensures that presenters or visitors aren't distracted by the projector's light source.

\*In the range of 5000-6500 lm. As of 5th February 2019, according to Sony research.

## **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 lens exchange.

## **Constant Brightness**

Constant Bright maintains the same brightness throughout the 20,000 hours recommended lifespan.

## **Slim, attractive blend-in design**

The slim, stylish body 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.

## **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: automated filter cleaning system removes dust every 100 hours.

## **Create super-size displays with Edge Blending**

Seamlessly join accurately colour-matched images from multiple projectors, simplifying creation of stunning super-size displays for corporate and education.

## **Built-in Auto Calibration**

After extended periods, colour can be automatically calibrated to the original factory condition. There's no need for extra

calibration equipment or cameras; a built-in colour sensor stores all the necessary information.

## Network and control

The projector is ideal for integration in AV environments with leading networked control, monitoring and management systems such as Crestron Connected™ and newly added Extron® XTP™ Systems.\*

\*Extron and XTP Systems are trademarks of RGB Systems Inc.

## Specifications

### Display system

|                |              |
|----------------|--------------|
| Display system | 3 LCD system |
|----------------|--------------|

### Display device

|                                |  |
|--------------------------------|--|
| Size of effective display area | New LCD panel 0.76" (19 mm) 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 |
|-------|---------|

|                          |         |
|--------------------------|---------|
| Zoom -<br>Powered/Manual | Powered |
|--------------------------|---------|

|              |               |
|--------------|---------------|
| Zoom - Ratio | Approx. x 1.6 |
|--------------|---------------|

|             |                  |
|-------------|------------------|
| Throw ratio | 1.39:1 to 2.23:1 |
|-------------|------------------|

|                                |         |
|--------------------------------|---------|
| Lens shift -<br>Powered/Manual | Powered |
|--------------------------------|---------|

|                                |           |
|--------------------------------|-----------|
| Lens shift - Range<br>Vertical | -5%, +70% |
|--------------------------------|-----------|

|                                  |         |
|----------------------------------|---------|
| Lens shift - Range<br>Horizontal | +/- 32% |
|----------------------------------|---------|

## Light source

|      |             |
|------|-------------|
| Type | Laser diode |
|------|-------------|

## Filter cleaning / replacement cycle (Max.)\*2

|  |                               |
|--|-------------------------------|
| Filter cleaning /<br>replacement cycle<br>(Max.) | 20000 H (service maintenance) |
|--|-------------------------------|

## Screen size

|             |  |
|-------------|--|
| Screen size | 40" to 600" (1.02 m to 15.24 m)<br>(measured diagonally) |
|-------------|--|

## Light output \*3

|                |                               |
|----------------|-------------------------------|
| Mode: Standard | 6500lm *4 / 7000lm (Center)*5 |
|----------------|-------------------------------|

|              |        |
|--------------|--------|
| Mode: Middle | 5200lm |
|--------------|--------|

|           |   |
|-----------|---|
| Mode: Low | - |
|-----------|---|

## Colour light output \*3

|                |        |
|----------------|--------|
| Mode: Standard | 6500lm |
|----------------|--------|

|              |        |
|--------------|--------|
| Mode: Middle | 5200lm |
|--------------|--------|

|           |   |
|-----------|---|
| Mode: Low | - |
|-----------|---|

## Contrast ratio (full white / full black) \*3

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

## 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 *6 |
|-----------------------|---|

NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p,

|                    |   |
|--------------------|---|
| Video signal input | 720/50p, 1080/60i, 1080/50i<br>The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p |
|--------------------|---|

## Colour system

|               |   |
|---------------|---|
| Colour system | NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 |
|---------------|---|

## Keystone correction (Max.)

|            |                |
|------------|----------------|
| Horizontal | +/- 30 degrees |
|------------|----------------|

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

## INPUT OUTPUT (Computer/Video/Control)

|         |  |
|---------|--|
| INPUT A | RGB / Y PB PR input connector: Mini D-sub 15 pin (female)<br>Audio input connector: Stereo mini jack |
|---------|--|

|         |   |
|---------|---|
| INPUT B | DVI input connector: DVI-D 24-pin (single link), HDCP support<br>Audio input connector: Shared with INPUT A |
|---------|---|

|  |                                |
|--|--------------------------------|
|  | HDMI input connector: HDMI 19- |
|--|--------------------------------|

|                |  |
|----------------|--|
| INPUT C        | pin, HDCP support<br>Audio input connector: HDMI<br>audio support  |
| INPUT D        | HDBaseT interface connector:<br>RJ45, 4 play (Video, Audio, LAN,<br>Control)   |
| VIDEO IN       | Video input connector: BNC<br>Audio input connector: Shared<br>with input A  |
| OUTPUT A       | Monitor output for Input A<br>Connector: Mini D-sub 15-pin<br>(female)<br>Audio output connector: Stereo<br>mini jack                                  |
| OUTPUT B       | Monitor output for Input B<br>Connector: DVI-D 24-pin (single<br>link), HDCP not supported<br>Audio output, Monitor out<br>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<br>DC5V  |



## Acoustic Noise \*3

Lamp mode : Middle      36 dB

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## Operating temperature / Operating humidity

Operating temperature /  
Operating humidity      0°C to 40°C (32°F to 104°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, 5.4 A to 2.2 A, 50 Hz / 60 Hz

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## Power consumption

AC 100 V to 120 V      Mode: Standard: 537 W

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AC 220 V to 240 V      Mode: Standard: 518 W

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## Power consumption (Standby Mode)

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

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|                   |  |
|-------------------|--|
| AC 100 V to 120 V | 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 | 16.0 W (LAN)   |
|                   | 20.7 W (HDBaseT)   |
|                   | 20.7 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard") |
| AC 220 V to 240 V | 13.3 W (LAN)   |
|                   | 18.7 W (HDBaseT)   |
|                   | 18.7 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

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|                   |            |
|-------------------|------------|
| AC 100 V to 120 V | 1833 BTU/h |
|-------------------|------------|

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|                   |            |
|-------------------|------------|
| AC 220 V to 240 V | 1768 BTU/h |
|-------------------|------------|

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## Dimensions (W x H x D)

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

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## Mass

|      |                       |
|------|-----------------------|
| Mass | Approx. 16 kg (34 lb) |
|------|-----------------------|

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## Optional accessories

|                 |  |
|-----------------|--|
| Projection Lens | VPLL-3003 / 3007 / Z3009 / Z3010 / Z3024 / Z3032 |
|-----------------|--|

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## Notes

|    |                             |
|----|-----------------------------|
| *1 | With supplied standard lens |
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|    |   |
|----|---|
| *2 | This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used. |
|----|---|

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The figures are approximate. They

\*3 vary depending on the environment or how the projector is used.

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\*4 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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\*5 The value is light output measured at centre area of screen in Standard mode, and average of all products shipped.

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\*6 Available for VESA Reduced Blanking signal.

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## Gallery



