

## 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-in 3LCD panel with incorporated optical compensator are augmented by powerful Reality Creation and color processing technologies by Sony. This ensures exceptionally high-contrast images with WUXGA resolution, true-to-life color 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, color 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-in 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 color 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 optimize 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, optimizing 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 February 5th, 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 color-matched images from multiple projectors, simplifying creation of stunning super-size displays for corporate and education.

### **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.

### **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 19 mm (0.76 in) 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 - Powered/Manual | Powered       |
| Zoom - Ratio          | Approx. x 1.6 |

## Projection lens \*1

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

|                             |         |
|-----------------------------|---------|
| Lens shift - Powered/Manual | Powered |
|-----------------------------|---------|

|                             |           |
|-----------------------------|-----------|
| Lens shift - Range Vertical | -5%, +70% |
|-----------------------------|-----------|

|                               |         |
|-------------------------------|---------|
| Lens shift - Range Horizontal | +/- 32% |
|-------------------------------|---------|

## Light source

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

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

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

## Screen size

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

## Light output \*3

|                |                                  |
|----------------|----------------------------------|
| Mode: Standard | 6,500 lm*4 / 7,000 lm (Center)*5 |
|----------------|----------------------------------|

|              |          |
|--------------|----------|
| Mode: Middle | 5,200 lm |
|--------------|----------|

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

## Color light output \*3

|                |          |
|----------------|----------|
| Mode: Standard | 6,500 lm |
|----------------|----------|

|              |          |
|--------------|----------|
| Mode: Middle | 5,200 lm |
|--------------|----------|

|           |   |
|-----------|---|
| 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 |
|-----------------------|-------------------------------------------|

## Accepted signal resolution

|                    |                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video signal input | NTSC, PAL, SECAM, 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 (HDMI input) only: 1080/60p, 1080/50p, 1080/24p |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Color system

|              |                                                     |
|--------------|-----------------------------------------------------|
| Color 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                                   |
| INPUT C        | HDMI input connector: HDMI 19-pin, HDCP support<br>Audio input connector: HDMI audio support                                                  |
| INPUT D        | HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)                                                                        |
| VIDEO IN       | Video input connector: BNC<br>Audio input connector: Shared with input A                                                                      |
| OUTPUT A       | Monitor output for Input A Connector: Mini D-sub 15-pin (female)<br>Audio output connector: Stereo mini jack                                  |
| OUTPUT B       | Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported<br>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 \*3

|                   |       |
|-------------------|-------|
| Lamp Mode: Middle | 36 dB |
|-------------------|-------|

## Operating temperature / Operating humidity

|                                               |                                                               |
|-----------------------------------------------|---------------------------------------------------------------|
| Operating temperature /<br>Operating humidity | 0°C to 40°C (32°F to 104°F) / 20% to 80% (no<br>condensation) |
|-----------------------------------------------|---------------------------------------------------------------|

## Storage temperature / Storage humidity

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Storage temperature /<br>Storage humidity | -10°C to +60°C (14°F to +140°F) / 20% to 80%<br>(no condensation) |
|-------------------------------------------|-------------------------------------------------------------------|

## Power requirements

|                    |                                                |
|--------------------|------------------------------------------------|
| Power requirements | AC 100 V to 240 V, 5.4 A to 2.2 A, 50 Hz/60 Hz |
|--------------------|------------------------------------------------|

## Power consumption

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

|                   |                       |
|-------------------|-----------------------|
| AC 220 V to 240 V | Mode: Standard: 518 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 | 16.0 W (LAN)<br>20.7 W (HDBaseT)<br>20.7 W (All Terminals and Networks<br>Connected) (when "Standby Mode" is set to<br>"Standard") |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|

|                   |                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|
| AC 220 V to 240 V | 13.3 W (LAN)<br>18.7 W (HDBaseT)<br>18.7 W (All Terminals and Networks<br>Connected) (when "Standby Mode" is set to<br>"Standard") |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|

## Standby Mode / Networked Standby Mode Activated

|                                                    |                    |
|----------------------------------------------------|--------------------|
| Standby Mode / Networked<br>Standby Mode Activated | Approx. 10 Minutes |
|----------------------------------------------------|--------------------|

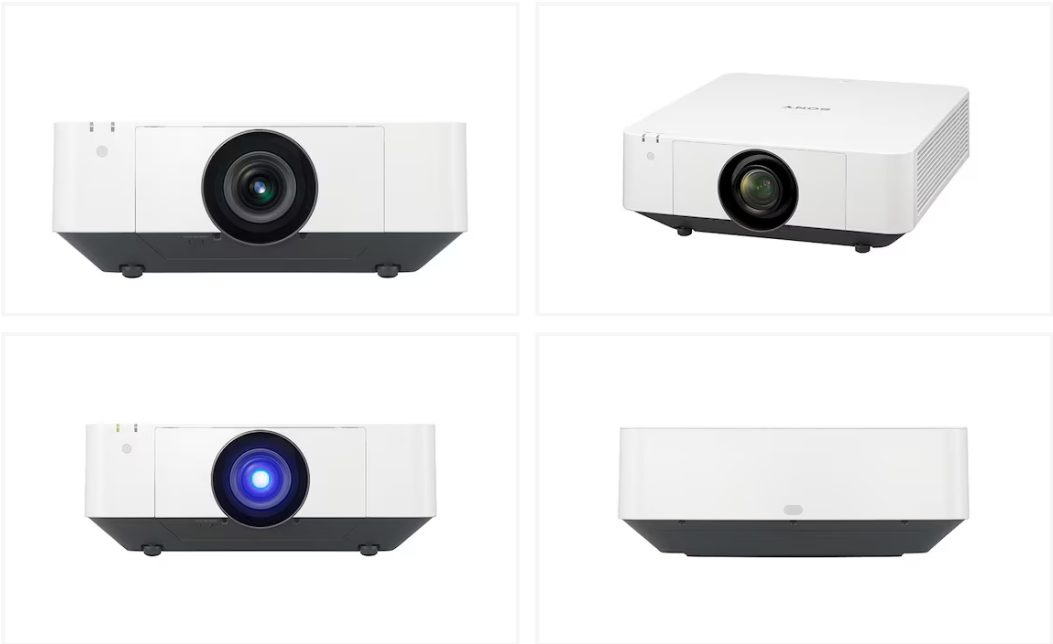
## Heat dissipation

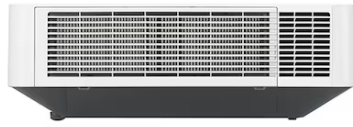
|                   |            |
|-------------------|------------|
| AC 100 V to 120 V | 1833 BTU/h |
|-------------------|------------|

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

| Dimensions (W x H x D)                          |                                                                                                                                                                    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (W x H x D)<br>(without protrusions) | 460 x 169 x 515 mm<br>18 1/8 x 6 21/32 x 20 9/32 inches                                                                                                            |
| Mass                                            |                                                                                                                                                                    |
| Mass                                            | Approx. 16 kg (34 lb)                                                                                                                                              |
| Optional accessories                            |                                                                                                                                                                    |
| Projection Lens                                 | VPLL-3003 / 3007 / Z3009 / Z3010 / Z3024 / Z3032                                                                                                                   |
| Notes                                           |                                                                                                                                                                    |
| *1                                              | With supplied standard lens                                                                                                                                        |
| *2                                              | This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.                          |
| *3                                              | The figures are approximate. They vary depending on the environment or how the projector is used.                                                                  |
| *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. |
| *5                                              | The value is light output measured at center area of screen in Standard mode, and average of all products shipped.                                                 |
| *6                                              | Available for VESA Reduced Blanking signal.                                                                                                                        |

Gallery





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