

## 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, ∞: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
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### Display device

Size of effective display area	New LCD panel 19 mm (0.76 in) x 3 BrightEra LCD Panel, Aspect ratio: 16:10
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Number of pixels	6,912,000 (1920 x 1200 x 3) pixels
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### Projection lens \*1

Focus	Powered
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Zoom - Powered/Manual	Powered
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Zoom - Ratio	Approx. x 1.6
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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%
<b>Light source</b>	
Type	Laser diode
<b>Filter cleaning / replacement cycle (Max.)*2</b>	
Filter cleaning / replacement cycle (Max.)	20000 H (service maintenance)
<b>Screen size</b>	
Screen size	40" to 600" (1.02 m to 15.24 m) (measured diagonally)
<b>Light output *3</b>	
Mode: Standard	6,500 lm*4 / 7,000 lm (Center)*5

Mode: Middle	5,200 lm
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Mode: Low	-
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## Color light output \*3

Mode: Standard	6,500 lm
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Mode: Middle	5,200 lm
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Mode: Low	-
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## Contrast ratio (full white / full black) \*3

Contrast ratio (full white / full black)	$\infty$ :1
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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 1200 *6
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NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p,

Video signal input	720/50p, 1080/60i, 1080/50i The following items are available for digital signal (HDMI input) only: 1080/60p, 1080/50p, 1080/24p
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## Color system

Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60
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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: Mini D-sub 15 pin (female) Audio input connector: Stereo mini jack
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INPUT B	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with INPUT A
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HDMI input connector: HDMI 19-

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INPUT C	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
OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack
OUTPUT 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 \*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
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## 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)

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 center 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



