

## VPL-FHZ70

5,500 lm (6,000 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-FHZ70 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 5,500 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-FHZ70 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 5,500 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.

## Networked control and monitoring

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 0.76" (19 mm) 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
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Lens shift -	
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Powered/Manual	Powered
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Lens shift - Range Vertical	-5%, +70%
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Lens shift - Range Horizontal	+/- 32%
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## Light source

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

Filter cleaning/ replacement cycle (Max.)	20000 H (service maintenance)
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## Screen size

Screen size	40" to 600" (1.02 m to 15.24 m) (measured diagonally)
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## Light output \*3

Mode: Standard	5500 lm *4 / 6000 lm (Center)*5
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Mode: Middle	4400 lm
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Mode: Low	-
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## Colour light output \*3

Mode: Standard      5500 lm

Mode: Middle      4400 lm

Mode: Low      -

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

Contrast ratio (full white / full black)      ∞: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

Video signal input      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

## 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)  
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
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

36 dB



Lamp mode: Middle

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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, 4.9 A to 2.0 A, 50 Hz / 60 Hz
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## Power consumption

AC 100 V to 120 V	Mode: Standard: 483 W
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AC 220 V to 240 V	Mode: Standard: 468 W
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## Power consumption (Networked Standby Mode)

16.0 W (LAN)

20.7 W (HDBaseT)

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AC 100 V to 120 V	20.7 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
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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

AC 100 V to 120 V	1648 BTU/h
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AC 220 V to 240 V	1597 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

## 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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\*3    The figures are approximate. They  
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.
*6	Available for VESA Reduced Blanking signal.

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