

## VPL-FHZ58

4,200 lm (4,600 lm center)  
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 colours. 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 organisations 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 the white model; VPLFHZ58/B is the black model. Black and lensless models available in Europe; colour availability may vary by country.*

*\*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 colour 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 optimise every pixel. Contrast Enhancer actively analyses 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 colour-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 theatres.

## **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 optimised image quality, with any source and in every room.

## **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.

## 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.

## Protocol Emulation

Sony's Protocol Emulation feature allows one to control Sony projectors using other manufacturer's RS232C control protocols. This feature allows integrators to replace other manufacturer's projector with Sony's, without re-programming the AV system. Consult your Sony representative for the details.

## Specifications

### Display system

Display system	3 LCD system
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### Display device

Size of effective display area	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	-
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Powered/Manual	Powered
Zoom - Ratio	Approx. x 1.6
Throw ratio	1.39:1 to 2.23:1
Lens shift - Powered/Manual	Powered
Lens shift - Range Vertical	-5%, +60%
Lens shift - Range Horizontal	+/- 32%

## 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	4200lm *4
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Mode: Standard (Centre)	4600lm *5
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Mode: Middle	3000lm
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## Colour light output \*3

Mode: Standard	4200lm
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Mode: Middle	3000lm
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## Contrast ratio (full white / full black) \*3

Contrast ratio (full white / full black)	500000:1
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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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Video signal input	<p>NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i</p> <p>The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p</p>
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## Colour system

Colour system	<p>NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60</p>
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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	<p>RGB / Y PB PR input connector: Mini D-sub 15 pin (female)</p> <p>Audio input connector: Stereo mini jack</p>
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INPUT B	<p>DVI input connector: DVI-D 24-pin (single link), HDCP support</p> <p>Audio input connector: Shared with INPUT A</p>
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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

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## Acoustic Noise \*3

Lamp mode: Middle      28 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, 4.5 A to 1.9 A, 50 Hz / 60 Hz

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## Power consumption

AC 100 V to 120 V      Mode: Standard: 367 W

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AC 220 V to 240 V      Mode: Standard: 352 W

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## Power Consumption (Standby Mode)

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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	Approx. 10 Minutes
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Mode Activated

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## Heat dissipation

AC 100 V to 120 V      1252 BTU/h

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AC 220 V to 240 V      1201 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                      16 kg (34 lb)

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## Supplied accessories

Remote commander      RM-PJ27

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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
*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

