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VPL-FHZ55

4,000 lumens WUXGA 3LCD Laser projector

Overview

See things in a new light with the world's first 3LCD laser projector The VPL-FHZ55 is the world's first 3LCD laser projector, delivering game-changing performance and reliability in mission-critical installation applications.

It's ideal for a wide range of installation needs, producing bright, detail-packed WUXGA images with a resolution that's higher than Full HD. So your audience only sees big, beautiful pictures, not pixels.

The environmentally-friendly laser light source is teamed with 3LCD BrightEra™ technology by Sony. You'll see the difference with superb image quality and 4000 lumen brightness, plus exceptional contrast and consistent colour stability.

What's more, the laser light source typically is rated for a typical 20,000 hours operating life – far longer than the lamp in traditional projectors. Dramatically reduced maintenance requirements are complemented by a range of energy-saving feature, significantly driving down total lifetime ownership costs.

The VPL-FHZ55 fits smoothly into almost any environment – from academic institutions, corporate, medical and public sector organisations to visitor attractions and retail spaces. Seamlessly blend images from multiple projectors to create super-sized displays, or even project true, accurate images onto curved surfaces. Install the projector at any angle – even on its side or upside down. With the VPL-FHZ55, there are no limits to your creative freedom.

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Features

- **First laser light projector with Sony 3LCD BrightEra™ Panel Technology**

  In a world first, Sony combines a highly efficient laser light source with 3LCD BrightEra™ technology. This unique combination delivers exceptionally bright, high contrast pictures with excellent colour accuracy and stability, plus high efficiency and significantly greater durability for reduced lifetime ownership costs.

- **Up to 20,000 hours operation with virtually no maintenance**

  The advanced laser light source offers a typical 20,000 hours operation without maintenance or replacement, reducing lifetime running costs compared with traditional projectors. Synchronised (20,000 hours) filter replacement cycles keep the projector in peak operating condition while reducing maintenance trips even further.

- **Clear, bright, punchy presentations in any lighting conditions**

  Add more detail, impact and realism to presentations with high 4000 lumen brightness. Get your message across clearly, even when ambient light levels are high.

- **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 8,000:1 contrast ratio**

  Bring new levels of impact and excitement to any presentation. Sparkling highlights are brighter and whiter, complemented by incredibly deep, rich blacks and lowlights.

- **Wide Lens Shift, Zoom and Throw Ratio**

  Generous zoom, throw and lens shift adjustments give more flexibility for positioning the projector where you need it: close to ceilings, near the screen or even horizontally offset. Extend throw ratio even further with a choice of optional lenses.

- **360° free-angle installation capability**

  Enjoy supreme installation flexibility: position the projector freely at any angle – or its side or even upside down.

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

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

- **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.

- **Project Side by Side**

  Project images from two inputs at the same time: ideal for applications like video conferencing and medical training where two images need to be seen simultaneously.

- **DICOM GSDF Simulation mode**

  Get a clear view of digital medical images for training and other non-diagnostic applications. NB: Conforms to GSDF (Grayscale Standard Display Function) medical standards for DICOM (Digital Imaging and Communications in Medicine).

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- **Save energy at the touch of a button**

  Just push the ECO MODE button on the projector or remote commander to instantly access a range of energy-saving settings.

- **Auto Dimming**

  Projector brightness is gradually reduced automatically if there's no input signal, or after a pre-set time – cutting power consumption and saving energy bills.

- **Auto Brightness**

  Laser output power adjusts automatically depending on picture content, saving energy when dark scenes are being projected.

- **Power Saving Picture Mute**

  Touch a button on the projector remote and the picture's muted instantly, reducing power consumption by 95%. Another touch and the projector's instantly powered back up to resume your presentation.

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Technical Specifications

Display system

● Display system	3 LCD system

Display device

● Size of effective display area	0.76"(19.3 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	Manual
● Zoom - Powered/Manual	Manual
● Zoom - Ratio	Approx. x 1.6
● Throw ratio	1.39:1 to 2.23:1
● Lens shift - Powered/Manual	Manual
● Lens shift - Range Vertical	+60%
● Lens shift - Range Horizontal	+/- 32%

Light source

● Type	Laser diode

Filter cleaning / replacement cycle (Max.)*2

● Filter cleaning / replacement cycle (Max.)	20000 H (cleaning)

Screen size*1

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

Light output

● Lamp mode: High	4000 lm
● Lamp mode: Standard	3000 lm

Color light output

● Lamp mode: High	4000 lm
● Lamp mode: Standard	3000 lm

Contrast ratio (full white / full black)*3

● Contrast ratio (full white / full black)*3	8000:1

Displayable scanning frequency

● Horizontal	14 kHz to 93 kHz
● Vertical	47 Hz to 93 Hz

Display resolution

● Computer signal input	Maximum display resolution: 1920 x 1200 dots *4

● Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p

Color system

● Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60

Keystone correction (Max.)

● Vertical	+/- 30 degrees
● Horizontal	+/- 30 degrees

OSD language

● OSD language	24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)

INPUT OUTPUT (Computer/Video/Control)

● INPUT A	RGB / YPbPr input connector: 5BNC (female) Audio input connector: Stereo mini jack
● INPUT B	RGB input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack (shared with INPUT C)
● INPUT C	DVI-D input connector: DVI-D 24-pin (Single link), HDCP support Audio input connector: Stereo mini jack (shared with INPUT B)
● INPUT D	HDMI input connector: HDMI 19-pin, HDCP support
● S VIDEO IN	S video input connector: Mini DIN 4-pin Audio input connector: Pin jack (x2) (shared with VIDEO IN)
● VIDEO IN	Video input connector: Pin jack Audio input connector: Pin jack (x2) (shared with S VIDEO IN)
● OUTPUT	Monitor output connector*5: Mini D-sub 15-pin (female) Audio output connector*6: Stereo mini jack (variable out)
● REMOTE	RS-232C connector: D-sub 9-pin (female)
● LAN	RJ-45, 10BASE-T/100BASE-TX
● IR (Control S)	Control S input connector: Stereo mini jack

Acoustic noise

● Lamp mode: Standard	35 dB

Operating temperature / Operating humidity

● Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation

Storage temperature / Storage humidity

● Storage temperature / Storage humidity	-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)

Power requirements

● Power requirements	AC 100 V to 240 V, 4.6 A to 1.9 A, 50/60 Hz

Power consumption

● AC 100 V to 120 V	Lamp mode: High: 449 W
● AC 100 V to 120 V	Lamp mode: High: 426 W

Power Consumption (Standby Mode)

● AC 100 V to 120 V	0.2 W (when "Standby mode" is set to "Low)
● AC 220 V to 240 V	0.3 W (when "Standby mode" is set to "Low")

Power Consumption (Networked Standby Mode)

● AC 100 V to 120 V	8.5 W (LAN) (when "Standby Mode" is set to "Standard")
● AC 220 V to 240 V	9.5 W (LAN) (when "Standby Mode" is set to "Standard")

Standby Mode / Networked Standby Mode Activated

● Standby Mode / Networked Standby Mode Activated	After about 10 Minutes

Heat dissipation

● AC 100 V to 120 V	1528 BTU/h
● AC 220 V to 240 V	1450 BTU/h

Dimensions (W x H x D)

● Dimensions (W x H x D) (without protrusions)	Approx. 390 x 134 x 487 mm (15 11/32 x 5 9/32 x 19 3/16 inches)

Mass

● Mass	Approx. 11 kg (25 lb)

Supplied accessories

● Remote commander	RM-PJ19

Optional accessories

● Projection lenses	VPLL-Z2009/Z1024/Z1032
● Projection lens adapter	PK-F30LA1

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 value is average.
●	*4	Available for VESA Reduced Blanking signal.
●	*5	From INPUT A and INPUT B.
●	*6	Works as an audio switcher function. Output from a selected channel; not available in standby.

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Lenses

VPLL-1008

Projection Lens for the VPL-F Series

VPLL-2007

Projection Lens for the VPL-F Series

VPLL-Z1024

Projection Lens for the VPL-F Series

VPLL-Z1032

Projection Lens for the VPL-F Series

VPLL-Z2009

Projection Lens for the VPL-F Series

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