

VPL-PHZ51

5,300 lm (5,800 lm center)
WUXGA laser light source
projector



Overview

Impressively compact laser projector with 5,800 lumen centre brightness, flexible installation, and easy maintenance

Beautifully slim and light with the smallest body in its class, the VPL-PHZ51 laser projector combines outstanding picture performance with impressive 5,800 lumen centre brightness and dependable reliability. Its discreet blend-in design, minimal maintenance needs and flexible installation options make the VPL-PHZ51 an ideal choice for conference rooms, university lecture halls and large classrooms as well as Esport applications.

Exclusive to Sony, Bright View technology delivers high-impact imagery that doesn't sacrifice colour. Newly improved Reality Creation ensures images, diagrams and text look clear and sharp, even in bright conditions. Intelligent Settings with Ambiance matches projected images with your environment for an enhanced viewing experience.

There's plenty of innovation inside the VPL-PHZ51 to keep pictures looking clear and bright over the projector's operational lifetime with minimal maintenance. The sealed laser light source prevents dust build-up, while for general use in classrooms and meeting rooms the new dust filtration system makes changing filters a thing of the past*.

* When dust density < 0.03mg/m³ and operating time < 10,500 hours. (1,500 hours/year over 7 years.)

Features

Consistently bright, beautiful colours

Even powerful projectors can suffer from washed-out image colours in strongly lit rooms. Unique to Sony, Bright View processing technology brightens images while maintaining rich colours when you're presenting in well-lit business and educational environments.

Clearer images and text

Reality Creation uses powerful algorithms that boost image resolution closer to 4K-like quality. Reality Text improves visibility of characters: great for conference rooms, university seminar rooms and large classrooms.

Enhanced viewing experience

Intelligent Settings with Ambiance uses the projector's built-in light sensor to measure room brightness, automatically adjusting Bright View mode, colour gain and Reality Creation to suit your presentation environment.

Enjoy optimum pictures while saving energy

The VPL-PHZ51 makes sound business sense, helping you reduce running costs in corporate and educational environments. A new Auto Light Output feature works in conjunction with Ambiance, optimising image quality and maintaining high visibility while reducing power consumption.

4K 60P input support

Support for 4K 60P input signals makes life simpler when you're using the VPL-PHZ51 in multi-screen set-ups with flat panel sub-screens. Just split the same 4K signal to drive all your display devices with no conversion needed. There's also a high-

performance image scaler that effortlessly converts 4K input signals to WUXGA resolution while achieving close to 4K image quality. Now optimised for 4K 60P signals, Reality Creation is Sony's unique picture enhancement feature that gives projected images even greater crispness and depth. There's also support for devices with content protection such as 4K UHD players.

Stylish, installation friendly design

The projector's slim, stylish body blends discreetly into any space when the VPL-PHZ51 is ceiling mounted. A wide +55% vertical lens shift range makes perfectly proportioned pictures easy without long pole mounts or keystone correction. The wide throw ratio range simplifies replacement of a previous projector without repositioning existing ceiling mounts.

Intelligent Settings for easy installation

Intelligent Settings simplifies installation and maximises performance based on usage, image detail, colour richness and fidelity, light output, cooling level and output noise. There's also a Meeting/Classroom function that controls laser output to keep brightness as high as possible for years of real-world use.

Avoid dust build-up

The projector's laser light source is sealed to prevent dust accumulation and eliminate reduced brightness. The dedicated cooling duct structure for the projector's 3LCD panels is covered with an air filter to prevent dust from entering.

Simple, hassle-free filter care

Focus on great-looking images instead of time-consuming maintenance. The new dust filtration system makes changing filters a thing of the past for general use in classrooms and meeting rooms*. For heavier use in dusty environments there's a new clogging sensor to advise when filter cleaning is needed.

* When dust density < 0.03mg/m³ and operating time < 10,500

hours. (1,500 hours/year over 7 years.)

Data Cloning

Settings for one projector can be copied to further projectors using a USB memory drive. This greatly simplifies installation and set-up of multiple projectors.

Auto Input Select

Don't get distracted by fiddling with input settings while you're preparing for your presentation. The VPL-PHZ51 automatically selects an active signal input, so there's no need to change input each time a device is connected.

Auto power on

Connect the VPL-PHZ51 to a switched-on computer and the projector turns on automatically from standby mode, with no need to operate the power button.

Specifications

Display System	
Display System	3LCD system
Display Device	
Size of Effective Display Area	0.64" (16.3 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10
Number of Pixels	6,912,000 (1920 x 1200 x 3) pixels
Projection Lens	
Focus	Manual

Zoom	Manual (Approx. x 1.6)
Lens shift	Manual, Vertical -35% to +55%, Horizontal: +/-15%
Throw Ratio	1.23 : 1 to 1.97 : 1

Light Source

Light Source	Laser diode
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Screen Size

Screen Size	40” to 300” (1.02 m to 7.62 m) (measured diagonally)
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Light Output *1

Mode: Standard	5,300lm *2 / 5,800lm (Center) *3
Mode: Middle	4,000lm
Mode: Low	-

Color Light Output *1

Mode: Standard	5,300lm
Mode: Middle	4,000lm

Mode: Low	-
Contrast Ratio (full white / full black) *1	
Contrast Ratio (full white / full black) *1	∞:1
Displayable Scanning Frequency	
Horizontal	15 kHz to 92 kHz
Vertical	24 Hz to 92 Hz
Keystone Correction (Max.)	
Keystone Correction (Max.)	Horizontal: +/-30 degrees Vertical: +/-30 degrees
Accepted Signal Resolution	
Computer Signal Input	Maximum signal resolution: 1920 x 1200 *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, 3840/60p, 3840/30p, 3840/25p, 3840/24p, 4096/60p, 4096/30p, 4096/25p,

4096/24p

INPUT / OUTPUT

INPUT A	<p>RGB / Y PB PR input connector: Mini D-sub 15 pin (female)</p> <p>Audio input connector: Stereo mini jack</p>
INPUT B	<p>HDMI input connector: HDMI 19-pin, Digital RGB/Y PB PR, HDCP support</p> <p>Audio input connector: HDMI audio support</p>
INPUT C	<p>HDMI input connector: HDMI 19-pin, Digital RGB/Y PB PR, HDCP support</p> <p>Audio input connector: HDMI audio support</p>
INPUT D	<p>HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)</p>
VIDEO IN	<p>Video input connector: Phono jack (Composite)</p>
OUTPUT	<p>Audio output connector: Stereo mini jack</p>

	Audio input connector: Shared with INPUT A
REMOTE	D-sub 9-pin (male) / RS232C
LAN	RJ45, 10BASE-T / 100BASE-TX
USB	TYPE-A x 1 (for F/W update), TYPEA for Power supply

Speaker	
Speaker	16 W

OSD Languages	
OSD Languages	27-language (English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Greek, Czech, Slovakia, Romania)

Acoustic noise (Mode: Standard / Middle) *1	
Acoustic noise (Mode: Standard / Middle) *1	35 dB / 32 dB

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, 4.7 A to 2.0 A, 50 Hz / 60 Hz
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Power Consumption

AC 100 V to 120 V	463 W
AC 220 V to 240 V	434 W

Power Consumption (Standby Mode)

AC 100 V to 120 V	0.5 W (when “Standby mode” is set to “Low”)
AC 220 V to 240 V	0.5 W (when “Standby mode” is set to “Low”)

to “Low”)

Power Consumption (Networked Standby Mode)

AC 100 V to 120 V	1 W (LAN), 21 W (ALL Terminals and Networks Connected / exclude USB Device and speaker off, when “Standby Mode” is set to “Standard”)
AC 220 V to 240 V	1 W (LAN), 21 W (ALL Terminals and Networks Connected / exclude USB Device and speaker off, when “Standby Mode” is set to “Standard”)

Standby Mode / Networked Standby Mode Activated

Standby Mode / Networked Standby Mode Activated	Approx. 2 Minutes
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Dimensions (W x H x D) (without dust filter, protrusions)

Dimensions (W x H x D)	Approx. 422 x 100 x 333 mm (16 5/8
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(without dust filter, protrusions) x 3 15/16 x 13 1/8 inches)

Dimensions (W x H x D)

Dimensions (W x H x D) Approx. 422 x 129 x 338 (16 5/8 x 5 3/32 x 13 5/16 inches)

Mass

Mass Approx. 6.8kg (15 lb)

Supplied Accessories

Supplied Accessories RM-PJ8 Remote Commander

Notes

*1 The figures are approximate. They vary depending on the environment or how the projector is used.

*2 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.

*3	The value is light output measured at center area of screen in Standard mode, and average of all products shipped.
*4	Available for VESA Reduced Blanking signal.

Gallery

