

VPL-PHZ50

5,000 lm (5,400 lm center) laser
light source projector

Overview

The world's smallest, lightest 5,000 lumen laser projector*

Beautifully slim, light and stylish, the VPL-PHZ50 combines outstanding picture performance with discreet blend-in styling, minimal maintenance needs and flexible installation options.

Experience wonderfully detailed images in corporate, academic and simulation settings. Colours are reproduced accurately, whilst the exclusive Reality Creation feature optimises every pixel to enhance content. Bright View delivers easy-to-see images, even in bright environments.

Intelligent Settings fine-tunes picture parameters for beautiful images and dependable performance. Laser output and cooling are automatically adjusted according to the frequency of use – prolonging the lifespan of the projector.

Enjoy flexible installation options with a generous +55% vertical lens shift range, making it easy to achieve perfectly-proportioned pictures without long pole mounts or keystone correction. We've also widened the throw ratio, simplifying installations without the hassle of re-positioning.

* As of October 2020 (according to Sony research), in 3LCD laser projectors.

Features

Small size, large display

At just 10cm thick and weighing under 7kg, the projector blends into any environment whilst still being able to project a bright, high-contrast 120" image.

Consistent brightness

Thanks to the Intelligent Settings feature, the projector can stay brighter for longer throughout the throughout the laser light source's 20,000 hours recommended lifespan.

4K 30P support

Make life simpler when you're using the projector in multi-screen set-ups with other devices, like flat panel sub-screens: just split the same 4K signal to drive all your displays, with no conversion needed.

Specifications

Display System

Display System	3LCD system
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Display Device

Size of Effective Display Area	0.64" (16.3 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

Focus	Manual
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Zoom	
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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

Screen Size

Screen Size

40" to 300" (1.02 m to 7.62 m)
(measured diagonally)

Light Output *1

Mode: Standard

5,000lm *2 / 5,400lm (Center)*3

Mode: Middle

4,000lm

Mode: Low

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Color Light Output*1

Mode: Standard

5,000lm

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
(4K/30p, 3840 x 2160 acceptable)

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 4k/30p, 4k/25p, 4k/24p (4k means 3840)

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(100BASE-TX), RS-232C)</p>
VIDEO IN	<p>Video input connector: Phono jack (Composite)</p>
OUTPUT	<p>Audio output connector: Stereo mini jack</p>
REMOTE	<p>D-sub 9-pin (male) / RS232C</p>

LAN	RJ45, 10BASE-T / 100BASE-TX
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USB	TYPE-A x 1 (for F/W update), TYPEA for Power supply
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Speaker

Speaker	16 W
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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, Gleek, Czech, Slovakia, Romania)
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Acoustic noise (Mode: Standard / Middle)*1

Acoustic Noise (Mode: Standard / Middle)*1	35 dB / 32 dB
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Operating Temperature / Operating Humidity

Operating	0°C to 40°C (32°F to 109°F) / 20% to
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Temperature /
Operating Humidity 80% (no condensation)

Storage Temperature / Storage Humidity

Storage Temperature -10°C to +60°C (14°F to +140°F) /
/ Storage Humidity 20% to 80% (no condensation)

Power Requirements

Power Requirements AC 100 V to 240 V, 4.4 A to 1.9 A, 50
Hz / 60 Hz

Power Consumption

AC 100 V to 120 V 440 W

AC 220 V to 240 V 418 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”)

Power Consumption (Networked Standby

Mode)

AC 100 V to 120 V	1 W (LAN), 16 W (ALL Terminals and Networks Connected, when “Standby Mode” is set to “Standard”)
AC 220 V to 240 V	1 W (LAN), 16 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. 2 Minutes
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Dimensions (W x H x D) (without dust filter, protrusions)

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

Approx. 422 x 129 x 338

Dimensions (W x H x D) (16 5/8 x 5 3/32 x 13 5/16 inches)

Mass

Mass Approx. 6.6kg (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.
