SONY

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

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

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	-

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	RGB / Y PB PR input connector: Mini D-sub 15 pin (female) Audio input connector: Stereo mini jack
INPUT B	HDMI input connector: HDMI 19-pin, Digital RGB/Y PB PR, HDCP support Audio input connector: HDMI audio support
INPUT C	HDMI input connector: HDMI 19-pin, Digital RGB/Y PB PR, HDCP support Audio input connector: HDMI audio support
INPUT D	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN(100BASE-TX), RS-232C)
VIDEO IN	Video input connector: Phono jack (Composite)
OUTPUT	Audio output connector: Stereo mini jack
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, Gleek, 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 109°F) / 20% to 80% (no condensation)

Storage Temperature / Storage Humidity

Storage	-10°C to +60°C (14°F to

Temperature / Storage Humidity	+140°F) / 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

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)

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. 6.6kg (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.

Gallery