

## VPL-PHZ10

5,000 lumens WUXGA laser light source projector



### Overview

#### Cost effective laser projection with excellent picture quality, easy installation and low running costs

The VPL-PHZ10 laser projector is a versatile, affordable choice for installation in a wide range of education, business and entertainment environments.

The powerful Z-Phosphor laser light source is teamed with Sony's advanced BrightEra 3LCD projection engine to deliver extremely bright, detail-packed WUXGA resolution images with generous 5000 lumens brightness and rich, stable colours. This laser light source allows up to 20,000 hours\* of virtually zero maintenance operation without the worry of sudden lamp failures. An automated filter system cuts the hassle of regular dust cleaning. Near-zero maintenance needs are complemented by a range of energy-saving features, significantly driving down total lifetime ownership costs. Constant Bright maintains consistent light output levels throughout the laser's 20,000 hours (at light output mode "Middle") recommended lifespan.

Offering a stylish blend-in design and low fan noise, the VPL-PHZ10 fits smoothly into almost any environment – from academic institutions to corporate environments. Mount the projector at any angle, even on its side or upside down. Set-up's easier than ever with a friendly new installation menu.

\*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 5000 lumen image brightness with vivid, natural colour reproduction.

- **Constant Brightness**

Constant Bright maintains the same brightness throughout the 20,000 hours (at light output mode "Middle") hours recommended life span.

- **Advanced picture refinement technologies**

Picture quality is boosted by advanced processing featured on Sony's 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 fine 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.

- **Supports HDBaseT**

Simpler, more cost-effective installation and connectivity with digital transmission of HD video, audio and networking/control over a single Ethernet cable.

- **Quiet operation**

Low fan noise ensures discreet, unobtrusive operation in quiet environments for academic and corporate use.

- **Slim, attractive blend-in design**

The slim, stylish case design features a flat top surface that blends in discreetly when the projector is ceiling mounted.

- **Picture Mode**

Picture Mode ensures great-looking pictures in any presentation conditions. Select Standard, Dynamic, or Brightness Priority mode for optimised image quality, with any source and in every room.

- **Simple set-up with friendly new Installation menu**

Easily adjust projector settings with remote commander.

## Technical Specifications

<b>Display system</b>	
● Display system	3 LCD system
<b>Display device</b>	
● 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
<b>Projection lens</b>	
● Focus	Manual
● Zoom - Powered/Manual	Manual
● Zoom - Ratio	Approx. x 1.45
● Throw ratio	1.28:1 to 1.88:1
● Lens shift - Powered/Manual	Manual
● Lens shift - Range Vertical	+20% to +55%
● Lens shift - Range Horizontal	+/- 10%
<b>Light source</b>	
● Type	Laser diode
<b>Filter cleaning / replacement cycle (Max.)</b>	
● Filter cleaning / replacement cycle (Max.)	20,000 H (service maintenance)
<b>Screen size</b>	
● Screen size	40" to 300" (1.02 m to 7.62 m)
<b>Light output</b>	
● Mode: Standard	5,000 lm
● Mode: Middle	4,000 lm
<b>Color light output</b>	
● Mode: Standard	5,000 lm
● Mode: Middle	4,000 lm
<b>Contrast ratio (full white / full black) *1</b>	
● Contrast ratio (full white / full black)	500,000:1
<b>Speaker</b>	
● Speaker	16 W (monaural)
<b>Displayable scanning frequency</b>	
● Horizontal	15 kHz to 92 kHz
● Vertical	48 Hz to 92 Hz

Display resolution	
● Computer signal input	Maximum display resolution: 1920 x 1200 dots *2
● Video signal input	NTSC, PAL, SECAM, 480/60p, 576/50i, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for HDMI input only; 1080/60p, 1080/50p, 1080/24p

  

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

  

Keystone correction (Max.)	
● Horizontal	+/- 30 degrees
● Vertical	+/- 20 degrees

  

INPUT OUTPUT (Computer/Video/Control)	
● 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, HDCP support Audio input connector: HDMI audio support
● 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	Audio output connector: Stereo mini jack
● REMOTE	D-sub 9-pin (male) / RS232C
● LAN	RJ45, 100BASE-TX (Shared with INPUT D)
● USB	TYPE-A
● USB	TYPE-B

  

Acoustic Noise	
● Lamp Mode: Standard / Middle / Low	36 dB / 28 dB / 25 dB

  

Operating temperature / Operating humidity	
● Operating temperature / Operating humidity	0° to 40°C (32°F to 104°F) / 20 % to 80 % (no condensation)

  

Storage temperature / Storage humidity	
● Storage temperature / Storage humidity	-10° to +60°C (14°F to 140°F) / 20 % to 80 % (no condensation)

  

Power requirements	
● Power requirements	AC 100 V to 240 V, 4.3 A to 1.7 A, 50 Hz / 60 Hz

  

Power Consumption	
● AC 100 V to 120 V	Mode: Standard: 424 W
● AC 220 V to 240 V	Mode: Standard: 403 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)	

<ul style="list-style-type: none"> <li>● AC 100 V to 120 V</li> </ul>	12.5 W (LAN) 13.2 W (optional WLAN module) 16.8 W (HDBaseT) 17.4 W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")
<ul style="list-style-type: none"> <li>● AC 220 V to 240 V</li> </ul>	11.9W (LAN) 12.6W (optional WLAN module) 17.0W (HDBaseT) 17.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")

Standby Mode / Networked Standby Mode Activated	
<ul style="list-style-type: none"> <li>● Standby Mode / Networked Standby Mode Activated</li> </ul>	Approx. 2 Minutes

Heat dissipation	
<ul style="list-style-type: none"> <li>● AC 100 V to 120 V</li> </ul>	1446 BTU/h
<ul style="list-style-type: none"> <li>● AC 220 V to 240 V</li> </ul>	1374 BTU/h

Dimensions (W x H x D)	
<ul style="list-style-type: none"> <li>● Dimensions (W x H x D) (without protrusions)</li> </ul>	510 x 113 x 354.6 mm (20 3/32 x 4 7/16 x 13 31/32 inches)

Mass	
<ul style="list-style-type: none"> <li>● Mass</li> </ul>	Approx. 8.7kg (19 lb)

Supplied accessories	
<ul style="list-style-type: none"> <li>● Remote commander</li> </ul>	RM-PJ8

Notes	
<ul style="list-style-type: none"> <li>● *1</li> </ul>	The value is average
<ul style="list-style-type: none"> <li>● *2</li> </ul>	Available for VESA Reduced Blanking signal.