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 of 4,500 lumens throughout the 14,000 hour recommended life span.*

*When Constant Bright is on, and using 'Standard' light output mode

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.

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

SONY

Projection lens

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%

Light source

Type	Laser diode

Filter cleaning / replacement cycle (Max.)

Filter cleaning / replacement cycle (Max.)	20,000 H (service maintenance)

Screen size

Screen size	40" to 300" (1.02 m to 7.62 m)

Light output

Mode: Standard	5,000 lm

Color light output

Mode: Standard	5,000 lm

Contrast ratio (full white / full black) *1

Contrast ratio (full white / full black)	500,000:1

Speaker

Speaker	16 W (monaural)

Displayable scanning frequency

Horizontal	15 kHz to 92 kHz
Vertical	48 Hz to 92 Hz

SONY

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)

AC 100 V to 120 V	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")
AC 220 V to 240 V	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

Standby Mode / Networked Standby Mode Activated	Approx. 2 Minutes

Heat dissipation

AC 100 V to 120 V	1446 BTU/h
AC 220 V to 240 V	1374 BTU/h

Dimensions (W x H x D)

Dimensions (W x H x D) (without protrusions)	510 x 113 x 354.6 mm (20 3/32 x 4 7/16 x 13 31/32 inches)

Mass

Mass	Approx. 8.7kg (19 lb)

Supplied accessories

Remote commander	RM-PJ8

Notes

*1	The value is average
*2	Available for VESA Reduced Blanking signal.
	This projector has a total constant brightness of 4500 lumens for up to 14,000 hours depending on usage environment. This enables users to experience the projectors' original level of image quality for years, while achieving a maximum 5,000 lumens brightness when the constant brightness mode is off.

Gallery