

## VPL-PHZ12

5,000 lm (5,200 lm center)  
lumens laser light source  
projector



### Overview

#### **5,000 lumens brightness, excellent picture quality and attractive running costs**

The advanced laser light source inside the VPL- PHZ12 is combined with powerful signal processing to ensure exceptional images with 5,000 lumen brightness,  $\infty$ :1 contrast and beautifully stable, accurate colour making it ideal for academic and corporate environments.

Images look truer and sharper with Reality Creation that optimises every pixel to enhance on-screen images and text without adding digital picture noise. Contrast Enhancer analyses and refines dark and light areas in the image for sparkling highlights and rich, deep blacks.

Save time with Intelligent Setting presets that instantly fine-tune brightness, cooling, colour and other projector settings for great pictures in any environment.

Integration's easy in today's AV environments. The VPL-PHZ12 partners brilliantly with leading networked control, monitoring and management systems such as Crestron Connected™ and Extron® XTP™ Systems.\*

\* Extron and XTP Systems are trademarks of RGB Systems Inc.

## Features

### **Very low maintenance**

The laser light source offers up to 20,000 hours\* operation without lamp exchange, reducing maintenance needs compared with traditional projectors.

*\* Depending on usage environment*

### **Consistent brightness**

Experience consistent image brightness throughout the laser light source's 20,000 hours recommended lifespan.

### **Optical lens shift**

Enjoy easy installation and greater flexibility with lens shift to position the projector in higher spaces.

### **Easy filter cleaning**

Focus on great-looking images instead of arduous maintenance. The automated filter cleaning system removes dust every 100 hours.

### **Stylish blend-in design**

The slim, stylish body features a flat top surface that blends discreetly into any space when the projector is ceiling mounted.

## 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
------------------	------------------------------------

## 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 \*1

Mode: Standard 5,000 lm \*2

Mode: Standard (Centre) 5,200 lm \*3

Mode: Middle 4,000 lm

Mode: Low 3,000 lm

## Color Light Output \*1

Mode: Standard 5,000 lm

Mode: Middle 4,000 lm

Mode: Low 3,000 lm

## Contrast Ratio (full white / full black) \*1

Contrast Ratio (full white / full black)  $\infty$ :1

## Speaker

Speaker	16 W (monaural)
---------	-----------------

## Displayable Scanning Frequency

Horizontal	15 kHz to 92 kHz
------------	------------------

Vertical	48 Hz to 92 Hz
----------	----------------

## Accepted Signal Resolution

Computer Signal Input	Maximum signal resolution: 1920 x 1200 *4
-----------------------	---

Video Signal Input	<p>NTSC, PAL, SECAM, 480/60p, 576/50i, 720/60p, 720/50p, 1080/60i, 1080/50i</p> <p>The following items are available for HDMI input only; 1080/60p, 1080/50p, 1080/24p</p>
--------------------	--

## 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/Audio/Control)

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, HDCP support</p> <p>Audio input connector: HDMI audio support</p>
INPUT C	<p>HDMI input connector: HDMI 19-pin, 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</p> <p>Audio input connector: Shared with INPUT A</p>
OUTPUT	<p>Audio output connector: Stereo mini jack</p>

REMOTE	D-sub 9-pin (male) / RS232C
--------	-----------------------------

LAN	RJ45, 10BASE-T/100BASE-TX
-----	---------------------------

USB	TYPE-A
-----	--------

USB	TYPE-B
-----	--------

## Acoustic Noise \*1

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      Approx. 2 Minutes  
Mode Activated

---

## 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)    510 x 113 x 354.6 mm (20 3/32 x 4  
(without protrusions)    7/16 x 13 31/32 inches)

---

## Mass

Mass      Approx. 8.7kg (19 lb)

---

## Supplied Accessories

Remote Commander      RM-PJ8

---

## 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

