

VPL-PHZ12

5,000 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, ∞ : 1 contrast and beautifully stable, accurate color making it ideal for academic and corporate environments.

Images look truer and sharper with Reality Creation that optimizes every pixel to enhance on-screen images and text without adding digital picture noise. Contrast Enhancer analyzes 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, color 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* of 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
(Center) 5,200 lm*3

Mode: Middle 4000 lm

Mode: Low 3,000 lm

Color Light Output*1

Mode: Standard 5,000 lm

Mode: Middle 4000 lm

Mode: Low 3,000 lm

Contrast Ratio (full white / full black)*1

Contrast Ratio (full
white / full black) ∞ : 1

Speaker

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

Displayable Scanning Frequency

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

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

Accepted Signal Resolution

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

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|----------|--|
| 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: Phono Jack Audio input connector: Shared with INPUT A |
| OUTPUT | Audio output connector: Stereo mini jack |

| | |
|--------|-----------------------------|
| 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

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|--|---|
| 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) |
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Power Requirements

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|--------------------|--|
| Power Requirements | AC 100 V to 240 V, 4.3 A to 1.7 A, 50 Hz / 60 Hz |
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Power Consumption

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|-------------------|-----------------------|
| AC 100 V to 120 V | Mode: Standard: 424 W |
|-------------------|-----------------------|

| | |
|-------------------|-----------------------|
| AC 220 V to 240 V | Mode: Standard: 403 W |
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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

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|-------------------|------------|
| AC 100 V to 120 V | 1446 BTU/h |
|-------------------|------------|

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|-------------------|------------|
| AC 220 V to 240 V | 1374 BTU/h |
|-------------------|------------|

Dimensions (W x H x D)

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| 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) |
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Mass

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|------|-----------------------|
| Mass | Approx. 8.7kg (19 lb) |
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Supplied Accessories

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| Remote Commander | RM-PJ8 |
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Notes

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| *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

