

## VPL-FHZ700L

7,000 lumens WUXGA 3LCD  
Laser projector (colour  
availability may vary by country)



### Overview

**The world's brightest\* 3LCD projector comes with a long-lasting laser light source, and offers high WUXGA image quality, versatile installation options and lowered running costs.**

The VPL-FHZ700L combines exceptional picture quality and brightness with the reliability, extended operating life and reduced running costs of laser projection.

Delivering crisp, brighter images with a class-leading 7,000 lumens brightness, the VPL-FHZ700L features a powerful, highly efficient laser light source that offers a nominal 20,000\* hours operating time.

With no waiting time for lamps to warm up or cool down, switching on/off is virtually instantaneous. Together with the long-life 3LCD panel and advanced filter system, the laser light source cuts the need for regular maintenance visits. There's also a range of energy-saving features that contribute to a reduction in lifetime ownership costs compared with conventional projectors.

Its high brightness and minimal maintenance needs make the VPL-FHZ700L a compelling presentation choice in a wide range of applications – from boardrooms and lecture theatres to

museums, exhibitions and retail spaces.

Installer-friendly features like free-angle installation and edge blending also assist with integration into a wide range of corporate, educational, public sector and entertainment environments.

VPL-FHZ700L/W is a white model.

VPL-FHZ700L/B is a black model.

\*1 As of March 2014

\*2 With Auto Light Dimming feature enabled. Actual hours may vary depending on usage.

## Features

### **Laser light source projector with Sony 3LCD BrightEra™ Panel Technology**

The VPL-FHZ700L combines a highly efficient laser light source with Sony's advanced 3LCD BrightEra™ technology. This unique combination delivers exceptionally bright, pictures with excellent colour accuracy and stability, plus high efficiency and significantly greater durability for reduced total cost of ownership.

### **Clear, bright, punchy presentations in any lighting conditions**

Add more detail, impact and realism to presentations with very high 7000 lumen brightness. Get your message across in large boardrooms, auditoriums or retail spaces even when ambient light levels are high.

### **Crisp, detail-packed WUXGA resolution images**

See the finest 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 a typical 20,000 hours operation without maintenance or replacement, reducing lifetime running costs compared with traditional projectors. 20,000 hours filter replacement cycles keep the projector in peak operating condition while reducing maintenance trips even further.

## **Wide range of Lens Shift, Zoom, Throw Ratio**

Generous zoom, throw and lens shift adjustments give more flexibility for positioning the projector where you need it: close to ceilings, near the screen or even horizontally offset. Extend throw ratio even further with a choice of optional lenses.

## **360° free-angle installation capability**

Enjoy supreme installation flexibility: position the projector freely at any angle – or its side or even upside down.

## **Connectivity via HDBaseT™**

The projector allows simple connectivity using an HDBaseT digital interface, multi signal transmission system, providing a single cable, cost-effective, long-distance, and high-quality digital transmission solution.

## **Create super-size displays with Edge Blending**

Seamlessly join accurately colour-matched images from multiple projectors, simplifying creation of stunning super-size displays for retail, corporate and live event applications.

## **Project onto non-flat surfaces with Image Warping**

Easily correct image geometry for natural-looking projections – even on convex or concave surfaces. Corner and edge correction can be easily adjusted with the supplied remote and on-screen menu.

## **Advanced energy-saving features**

Advanced light source and control technology enables robust

energy-saving features. Greater brightness control in Auto Dimming mode saves considerable energy when the projector is left on without being used. During projection, Auto Light output Mode automatically adjusts light output to suit the projected scene. When you need to mute the picture temporarily, light output can be completely deactivated to minimise energy consumption.

\*1. With Auto Light Dimming feature enabled. Actual hours may vary depending on usage.

\*2. HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance.

## Specifications

### Display System

|                |              |
|----------------|--------------|
| Display System | 3 LCD system |
|----------------|--------------|

### Display device

|                                |  |
|--------------------------------|--|
| Size of effective display area | 0.95" (24.1 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 | Powered / Manual (Depend on lens) |
|-------|-----------------------------------|

|                          |                                   |
|--------------------------|-----------------------------------|
| Zoom -<br>Powered/Manual | Powered / Manual (Depend on lens) |
|--------------------------|-----------------------------------|

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|                                |                                      |
|--------------------------------|--------------------------------------|
| Lens shift -<br>Powered/Manual | Powered / Manual (Depend on<br>lens) |
|--------------------------------|--------------------------------------|

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## Light source

|      |             |
|------|-------------|
| Type | Laser diode |
|------|-------------|

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## Filter cleaning / replacement cycle (Max.) \*1

|   |                       |
|---|-----------------------|
| Filter cleaning/<br>replacement cycle<br>(Max.) | 20000 H *2 (cleaning) |
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## Screen size

|             |   |
|-------------|---|
| Screen size | 40" to 60" (1.02 m to 15.24 m)<br>(measured diagonally) (Depend on<br>lens) |
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## Light output

|                 |         |
|-----------------|---------|
| Lamp mode: High | 7000 lm |
|-----------------|---------|

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|                     |         |
|---------------------|---------|
| Lamp mode: Standard | 5600 lm |
|---------------------|---------|

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## Color light output

|  |         |
|--|---------|
|  | 7000 lm |
|--|---------|

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Lamp mode: High

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Lamp mode: Standard 5600 lm

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## Contrast ratio (full white / full black) \*2

Contrast ratio (full white / full black) 8000:1

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## Displayable scanning frequency

Horizontal 14 kHz to 93 kHz

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Vertical 47 Hz to 93 Hz

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## Display resolution

Computer signal input Maximum display resolution: WUXGA 1920 x 1200 dots\*3

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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, 1080/24p

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## Color system

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

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## Keystone correction (Max.)

Vertical +/- 30 degrees

Horizontal +/- 30 degrees

## OSD language

OSD language 24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)

## INPUT OUTPUT (Computer/Video/Control)

INPUT A RGB / Y PB PR input connector: 5BNC (female)

INPUT B RGB input connector: Mini D-sub 15-pin (female)

INPUT C DVI-D input connector: DVI-D 24-pin (Single link), supported HDCP

INPUT D HDMI input connector: HDMI 19-pin, HDCP support

|            |  |
|------------|--|
| INPUT E    | Optional adaptor slot (For Digital Interface Adaptor BKM-PJ10)*4   |
| S VIDEO IN | S-video input connector: Mini DIN 4-pin  |
| VIDEO IN   | Video input connector: BNC   |
| OUTPUT     | Monitor output connector*5: Mini D-sub 15-pin (female)   |
| REMOTE     | RS-232C connector: D-sub 9-pin (female)  |
| LAN        | RJ-45, 10BASE-T/100BASE-TX   |
| Control S  | Control S input connector: Stereo mini jack, Plug in power DC 5V<br>Control S output connector: Stereo mini jack |

## Acoustic noise

Lamp mode: Standard 33 dB

## Operating temperature / Operating humidity

Operating temperature / Operating humidity 0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)



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## Storage temperature / Storage humidity

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

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## Power Requirements

Power Requirements AC 100 V to 240 V, 5.0 A to 2.1 A,  
50/60 Hz

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## Power Consumption

AC 100 V to 120 V Lamp mode: High: 497 W

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AC 220 V to 240 V Lamp mode: High: 476 W

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## Power Consumption (Standby Mode)

AC 100 V to 120 V 0.1 W (when “Standby mode” is set  
to “Low”)

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AC 220 V to 240 V 0.5 W (when “Standby mode” is set  
to “Low”)

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## Power Consumption (Networked Standby Mode)

12.2 W (LAN)

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|                   |   |
|-------------------|---|
| AC 100 V to 120 V | 13.8 W (optional HDBaseT adaptor)<br>13.8 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard") |
|-------------------|---|

|                   |  |
|-------------------|--|
| AC 220 V to 240 V | 8.4 W (LAN)<br>10.0 W (optional HDBaseT adaptor)<br>10.0 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 | After about 2 minutes |
|---|-----------------------|

## Heat dissipation

|                   |            |
|-------------------|------------|
| AC 100 V to 120 V | 1696 BTU/h |
|-------------------|------------|

|                   |            |
|-------------------|------------|
| AC 220 V to 240 V | 1624 BTU/h |
|-------------------|------------|

## Dimensions (W x H x D)

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|   |   |
|---|---|
| Dimensions (W x H x D)<br>(without protrusions) | Approx. 530 x 204 x 545 mm (20 7/8<br>x 8 1/32 x 21 15/32 inches) |
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## Mass

|      |                       |
|------|-----------------------|
| Mass | Approx. 22 kg (47 lb) |
|------|-----------------------|

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## Supplied accessories

|                  |         |
|------------------|---------|
| Remote commander | RM-PJ27 |
|------------------|---------|

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## Optional Accessories

|                      |   |
|----------------------|---|
| Projection<br>lenses | VPLL-<br>4008/Z4011/Z4015/Z4019/Z4025/Z4045/Z4007/ZM42/FM |
|----------------------|---|

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|                               |                        |
|-------------------------------|------------------------|
| Projection<br>lens<br>adapter | PK-F500LA1, PK-F500LA2 |
|-------------------------------|------------------------|

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## Notes

|    |   |
|----|---|
| *1 | The figures are the expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used. |
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|    |                       |
|----|-----------------------|
| *2 | The value is average. |
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\*3

Available for VESA Reduced  
Blanking signal.

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\*4

HDBaseT 3play (Video, Control,  
Ethernet)

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\*5

From INPUT A and INPUT B.

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## Gallery

