



# VPL-FH500L

Versatile Installation Projector





## High Picture Quality in WUXGA Projection Delivering a Dramatic Brightness of 7,000 Lumens

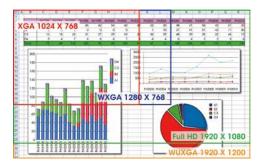
Packing the most advanced projector technologies into a low-profile design, the VPL-FH500L is an excellent choice, delivering a dramatic brightness of 7,000 lumens\* and ultra high-quality images with WUXGA resolution. The VPL-FH500L offers peace-of-mind by using a twin-lamp system that provides both a redundant lamp and economical operation. It also delivers amazing installation flexibility and hassle-free maintenance in a stylish design that blends into any decor. This projector has a very wide lens shift range, enabling excellent flexibility when installing the unit and adjusting the image. Lamp and air filter maintenance cycles are synchronized, and are exceptionally long compared to



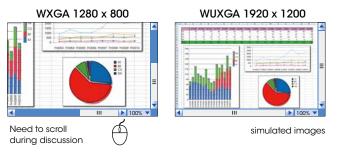
single-lamp and other dual-lamp systems, cutting maintenance time and cost. Overall, the VPL-FH500L delivers a low total cost of ownership, and additionally includes eco-friendly features such as long-lasting lamps and low power consumption.

## Ultra-high WUXGA Resolution with Full-HD Compatibility

The VPL-FH500L delivers an amazing resolution of WUXGA (1920 x 1200), which exceeds Full-HD resolution (1920 x 1080).



The VPL-FH500L allows projection in a wider display range. More information can be displayed on the screen, so the user can see the whole page without scrolling.



Extremely clear and detailed high-quality images are projected, even on a large screen, and native Full-HD images can be projected full screen. The VPL-FH500L is the ultimate tool for projecting images in a range of applications requiring exceptional detail.





WXGA Picture Quality

WUXGA Picture Quality simulated images Licensed by Tokyo Tower

### High Picture Quality

#### **Brilliant Color Performance**

By combining a new-generation optical system that uses Sony's BrightEra with Long Lasting Optics technology™ \* and a 3LCD projection system, the VPL-FH500L offers a high brightness of 7,000 lumens.

\* BrightEra with Long Lasting Optics is the Sony brand name for a generation of optical system, which uses a more advanced version of Sony's original BrightEra technology. In addition to adopting LCD panels that have pixels with large aperture ratios and inorganic alignment layers, BrightEra with Long Lasting Optics technology also uses an inorganic layer for polarization plates to greatly enhance reliability.

#### 3LCD Projection Offers Brilliant Color Performance

The VPL-FH500L adopts a 3LCD projection system incorporating three LCD panels. This system enables the projector to present bright and natural images.



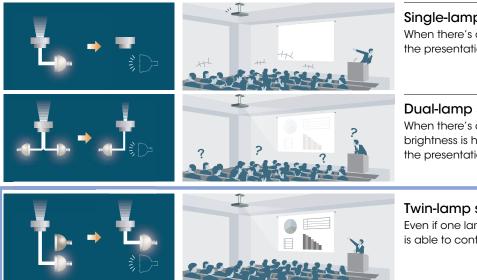
simulated images

#### Twin-lamp System for Peace-of-mind Operation

The VPL-FH500L's twin-lamp system provides both peace of mind and economical operation. One lamp can output a total of 7,000 lumens but a second lamp is built in to provide automatic backup should the primary lamp fail. The two lamps are alternately used, achieving a recommended lamp replacement time of up to 8,000 hours\*, saving maintenance time and cost.

Twin-lamp system image

\*In Standard mode (with two lamps). Expected maintenance time, not guaranteed. Lamp performance will vary based on operating environment and use



Single-lamp system:

When there's a problem with the lamp, the presentation has to stop.

#### Dual-lamp system:

When there's a problem with one lamp, brightness is halved and the presentation's impact is diminished.

#### Twin-lamp system:

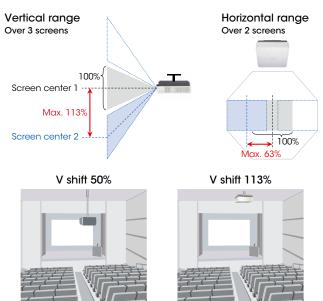
Even if one lamp fails, the presentation is able to continue without interruption.

What happens if one lamp suddenly fails during an important presentation?

#### Installation Advantages

#### Lens Shift Function

The VPL-FH500L has a Lens Shift function which is controlled from the projector control panel or the supplied Remote Commander<sup>®</sup> unit. Using this function, the position of the projected image can be moved vertically by -113% to +113% and horizontally by -63% to +63%. Images can be easily adjusted to the desired settings during installation. With this exceptional shift range, the VPL-FH500L can be installed in a way to maximize performance even in the most difficult environments.



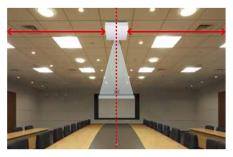
Sufficient V shift to ensure broad visibility

Please Note: Lens shift varies by lens model. Please see page 6 for details.

Variety of Optional Lenses Including Sony's Legacy Lenses Various optional zoom lenses are available for the VPL-FH500L, and these can be used for many different applications.

#### **Centered Lens Design**

The centered lens provides symmetry for a balanced installation, and makes setup very simple.



Symmetric installation image

#### "Blend-in" Design

The VPL-FH500L showcases a newly designed low-profile chassis, so the projector appears to blend into the ceiling or wall on which it is mounted. The connector panel is located on the



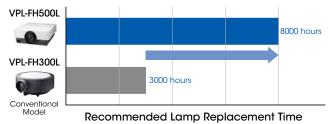
front of the unit so its cables cannot be seen by the audience.

#### Good TCO and Eco-friendly Design

#### Long-lasting Lamp

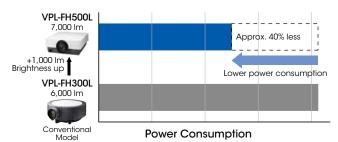
By incorporating newly developed high-performance lamps and advanced lamp-control technology, the VPL-FH500L delivers a recommended lamp replacement time of approximately 8,000 hours.\*

\* In Standard mode (with two lamps)



#### Low Power Consumption

The VPL-FH500L offers remarkably low power consumption, allowing users to make significant savings on their electricity expenses.



#### ECO MODE Key

With a single push of the ECO MODE key on either the projector or the supplied Remote Commander<sup>®</sup> unit, users can select an energy-saving setting from the ECO Mode menu.

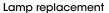


#### ECO MODE Key

#### Lamp and Filter Synchronized Maintenance

When the lamps and air filter are due for replacement, a timely message is displayed on screen. The lamps and air filter are accessible from both sides, so their replacement can be performed without uninstalling the projector. Like the lamps, the replacement filter has an approximate 8,000hour replacement cycle in Standard mode. This synchronized replacement is achieved even in tough environments by a Quad Filter System Plus, saving maintenance time and cost. The Quad Filter System Plus is composed of four pleated electrostatic filters. This substantial unit is designed to maintain high performance for a long period of time, requiring air filter replacement only when lamp replacement is also required. The unit is included with the replacement lamps.



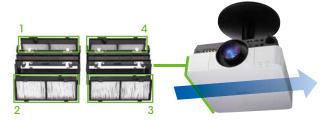




Air filter replacement

#### Benefits of the Quad Filter System Plus

To keep all internal parts clean, the projector design unifies air intake through just one hole which is equipped with a highreliability filter system.



#### One-way intake with the Quad Filter System Plus

#### Approx. 0.6 m<sup>2</sup> (A4-size Catalogue x 10)

| 3 |  |
|---|--|
|   |  |

The Quad Filter System Plus consists of four very large, thick accordion filters. It provides exceptional protection from dust and dirt, and is a simple system that is easily maintained for the life of the projector.

#### **Other Features**

#### Picture-by-Picture

With this feature, users can project two different images at the same time, greatly expanding creative possibilities and enabling exciting new applications.

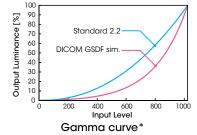


simulated images

#### **DICOM GSDF Simulation\***

The VPL-FH500L is equipped with a new gamma mode, called DICOM GSDF Simulation. This is ideal for viewing digital medical imagery for non-diagnostic applications.

- Follows GSDF (Grayscale Standard Display Function) medical standards for DICOM (Digital Imaging and Communications in Medicine).
  This function is for training and reference only, and cannot be used for
- mis function is for iranning and reference only, and cannot be used for medical diagnosis.



\*Based on internal testing.





Standard 2.2

DICOM GSDF simulation simulated images

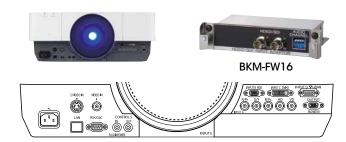
#### Screen Aspect

When screen and image aspect ratios do not match\*, this function fits the projected image to the screen. So, even when images are switched between different aspect signals, the projected image can always fit the screen.

\* Using the same aspect ratio between screen and projector is ideal.

#### **Multiple Inputs**

The VPL-FH500L is equipped with multiple connectivity inputs, including HDMI<sup>™</sup> and DVI-D for digital connectivity with advanced video processing. In addition, with the optional BKM-FW16 HD-SDI Input Adaptor installed, the projector can accept HD-SDI/SDI signals to project high-quality digital video.

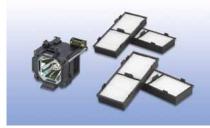


#### **360-degree Orientation** The VPL-FH500L can be turned vertically for installation. This flexibility allows the projector to be used in several different ways.



Picture Muting Function via Built-in Mechanical Shutter The VPL-FH500L can mute the projection of images on screen via a built-in mechanical shutter. This function can be easily operated with just the touch of a button on the supplied Remote Commander<sup>®</sup> unit.

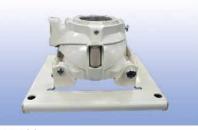
## **OPTIONAL ACCESSORIES**



LMP-F330 Projector Lamp (Replacement filters included)



PK-F500LA1 Projection Lens Adapter



PAM-600 Projector Suspension Support



PK-F500LA2 Projection Lens Adapter

#### Quiet Noise Operation

Low noise fans designed to produce lower frequency sounds to be less obtrusive

#### **Closed Captioning**

Official teletext broadcasting, developed by the NCI, USA

#### Security Pack

Security lock (password and mechanical), security bar, panel key lock, and security label

#### **Test Pattern Key**

For easy screen adjustment

**ID Mode** For individual control of multiple projectors

Freeze Function Freezes the projected image

Smart APA Auto pixel alignment

Direct Power On/Off Direct power control using the circuit breaker on the switch board

#### High Altitude Mode For projector operation at high altitude

#### Network and Control

Controls and monitors projector status Compatible with various control systems







PSS-630P Projector Suspension Support Joint Pole



BKM-FW16 HD-SDI/SDI Input Adaptor

## **OPTIONAL LENSES**

#### <Premium Series>

| Projection lens                        | VPLL-4008                         | VPLL-Z4015                        | VPLL-Z4019                        | VPLL-Z4025                        | VPLL-Z4045                        |
|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|  |                                   |                                   |                                   |                                   |                                   |
| Throw ratio                            | 1.08:1                            | 2.02:1 to 2.67:1                  | 2.62:1 to 3.36:1                  | 3.30:1 to 6.11:1                  | 6.08:1 to 10.52:1                 |
| Zoom / Focus                           | — / Manual                        | Powered / Powered                 | Powered / Powered                 | Powered / Powered                 | Powered / Powered                 |
| Lens shift                             | Vertical: Upward 41% to           | Vertical: Upward 109% to          | Vertical: Upward 113% to          | Vertical: Upward 113% to          | Vertical: Upward 113% to          |
|  | Downward 41%                      | Downward 109%                     | Downward 113%                     | Downward 113%                     | Downward 113%                     |
|  | Horizontal: Right 19% to Left 19% | Horizontal: Right 57% to Left 57% | Horizontal: Right 63% to Left 63% | Horizontal: Right 63% to Left 63% | Horizontal: Right 63% to Left 63% |
| Aperture                               | f/2.00                            | f/2.20 to 2.60                    | f/1.70 to 2.10                    | f/2.20 to 3.10                    | f/2.20 to 3.60                    |
| Screen size*                           | 40" to 600"                       | 40" to 600"                       | 40" to 600"                       | 40" to 600"                       | 60" to 600"                       |
| Dimensions                             | W 148 x H 133 x D 240 mm          | W 148 x H 133 x D 231 mm          | W 148 x H 133 x D 212 mm          | W 148 x H 133 x D 243 mm          | W 148 x H 133 x D 235 mm          |
|  | (W 5 13/16 x H 5 1/4 x            | (W 5 13/16 x H 5 1/4 x            | (W 5 1 3/16 x H 5 1/4 x           | (W 5 13/16 x H 5 1/4 x            | (W 5 13/16 x H 5 1/4 x            |
|  | D 9 7/16 in)                      | D 9 3/32 in)                      | D 8 11/32 in)                     | D 9 9/16 in)                      | D 9 1/4 in)                       |
| Mass                                   | 2.55 kg / 5 lb 10 oz              | 3.00 kg / 6 lb 10 oz              | 3.06 kg / 6 lb 12 oz              | 2.80 kg / 6 lb 3 oz               | 3.00 kg / 6 lb 10 oz              |
| Required<br>projection lens<br>adapter | _                                 | _                                 | _                                 | _                                 | _                                 |

#### <Value Series>

| Projection lens | VPLL-FM22                | VPLL-ZM32                         | VPLL-ZM42                         | VPLL-ZP41                         | VPLL-ZM102                        |
|-----------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                 |                          |                                   | C                                 | <b>O</b>                          |                                   |
| Throw ratio     | 0.87:1                   | 1.45:1 to 1.59:1                  | 1.83:1 to 2.32:1                  | 2.48:1 to 2.71:1                  | 3.28:1 to 4.83:1                  |
| Zoom / Focus    | — / Manual               | Manual / Manual                   | Manual / Manual                   | Powered / Powered                 | Manual / Manual                   |
| Lens shift      |                          | Vertical: Upward 59% to           | Vertical: Upward 59% to           | Vertical: Upward 113% to          | Vertical: Upward 59% to           |
|                 | _                        | Downward 59%                      | Downward 59%                      | Downward 113%                     | Downward 59%                      |
|                 |                          | Horizontal: Right 31% to Left 31% | Horizontal: Right 31% to Left 31% | Horizontal: Right 63% to Left 63% | Horizontal: Right 31% to Left 31% |
| Aperture        | f/2.00                   | f/1.76 to 1.96                    | f/1.74 to 2.28                    | f/1.70 to 2.00                    | f/2.04 to 2.57                    |
| Screen size*    | 40" to 300"              | 40" to 300"                       | 40" to 300"                       | 40" to 300"                       | 40" to 300"                       |
| Dimensions      | W 88 x H 88 x D 169 mm   | W 88 x H 88 x D 159 mm            | W 88 x H 88 x D 159 mm            | W 117 x H 110 x D 198 mm          | W 88 x H 88 x D 198 mm            |
|                 | (W 3 15/32 x H 3 15/32 x | (W 3 15/32 x H 3 15/32 x          | (W 3 15/32 x H 3 15/32 x          | (W 4 19/32 x H 4 11/32 x          | (W 3 15/32 x H 3 15/32 x          |
|                 | D 6 21/32 in)            | D 6 1/4 in)                       | D 6 1/4 in)                       | D 7 25/32 in)                     | D 7 25/32 in)                     |
| Mass            | 0.95 kg / 2 lb 2 oz      | 1.00 kg / 2 lb 3 oz               | 0.65 kg / 1 lb 7 oz               | 1.46 kg / 3 lb 3 oz               | 1.50 kg / 3 lb 5 oz               |
| Required        |                          |                                   |                                   |                                   |                                   |
| projection lens | PK-F500LA2               | PK-F500LA2                        | PK-F500LA2                        | PK-F500LA1                        | PK-F500LA2                        |
| adapter         |                          |                                   |                                   |                                   |                                   |

\* Viewable area, measured diagonally.

## PRESET SIGNAL CHART

#### **Computer Signal**

| Resolution  | fH [kHz]/ | Input connector |                 |
|-------------|-----------|-----------------|-----------------|
| Resolution  | fV [Hz]   | RGB*1           | DVI-D*2/HDMI*6  |
| 640 x 350   | 31.5/70   | •               | —               |
| 040 x 330   | 37.9/85   | •               | -               |
| 640 x 400   | 31.5/70   | •               | —               |
| 040 X 400   | 37.9/85   |                 | —               |
|             | 31.5/60   | •               | •               |
|             | 35.0/67   |                 | —               |
| 640 x 480   | 37.9/73   |                 | —               |
|             | 37.5/75   | •               | -               |
|             | 43.3/85   |                 | —               |
|             | 35.2/56   |                 | —               |
|             | 37.9/60   | •               | •               |
| 800 x 600   | 48.1/72   | •               | _               |
|             | 46.9/75   | •               | _               |
|             | 53.7/85   | •               | _               |
| 832 x 624   | 49.7/75   | •               | _               |
|             | 48.4/60   | •               |                 |
| 1004 - 749  | 56.5/70   | •               | _               |
| 1024 x 768  | 60.0/75   | •               | _               |
|             | 68.7/85   | •               | _               |
|             | 64.0/70   | •               | _               |
| 1152 × 864  | 67.5/75   | •               | -               |
|             | 77.5/85   | •               | -               |
| 1152 x 900  | 61.8/66   | •               | _               |
| 10000/0     | 60.0/60   | •               |                 |
| 1280 x 960  | 75.0/75   | •               | _               |
|             | 64.0/60   | •               |                 |
| 1280 x 1024 | 80.0/75   | •               | _               |
|             | 91.1/85   | •               | _               |
| 1400 x 1050 | 65.3/60   | •               | •               |
| 1600 x 1200 | 75.0/60   | •               | •               |
| 1280 x 768  | 47.8/60   | •               | •               |
| 1280 x 720  | 45.0/60   | •               | ●* <sup>5</sup> |
| 1920 x 1080 | 67.5/60   | _               | ●* <sup>5</sup> |
| 1360 x 768  | 47.7/60   | •               | •               |
| 1440 x 900  | 55.9/60   | •               | •               |
| 1680 x 1050 | 65.3/60   |                 | •               |
| 1280 x 800  | 49.7/60   | •               | •               |
| 1920 x 1200 | 74.0/60   | •*4             | •*4             |
| 1600 x 900  | 60.0/60   | •*4             | •*4             |

#### **Digital TV Signal**

|        |         | Input connector                       |   |   |
|--------|---------|---------------------------------------|---|---|
| Signal | fV [Hz] | RGB/YP <sub>B</sub> P <sub>R</sub> *3 | DVI-D <sup>*2</sup> /<br>HDMI <sup>*6</sup> | HD-SDI/SDI<br>input adaptor<br>BKM-FW16 <sup>*7</sup> |
| 480i   | 60      | •                                     | •   | $\bullet$   |
| 576i   | 50      | •                                     | •   | •   |
| 480p   | 60      | •                                     | •   | —   |
| 576p   | 50      | •                                     | •   | —   |
| 1080i  | 60      | •                                     | •   | •   |
| 1080i  | 50      | •                                     | •   | •   |
| 1080i  | 48      | —                                     | —   | •   |
| 720p   | 60      | •                                     | ●* <sup>5</sup>                             | •   |
| 720p   | 50      | •                                     | •   | •   |
| 1080p  | 60      | —                                     | ●* <sup>5</sup>                             | _   |
| 1080p  | 50      | —                                     | •   | —   |
| 1080p  | 24      | —                                     | •   | •   |
| 1080p  | 30      | —                                     | _   | •   |

#### Analog TV Signal

| Signal    | fV [Hz] | Input connector<br>VIDEO/S VIDEO |
|-----------|---------|----------------------------------|
| NTSC      | 60      | •                                |
| PAL/SECAM | 50      | $\bullet$                        |

\*1: INPUT A, INPUT B

\*2: INPUT C

\*3: INPUT A

\*4: Available for VESA Reduced Blanking signals only.

\*5: INPUT C is determined as a computer signal;

INPUT D is determined as a digital TV signal.

\*6: INPUT D \*7: INPUT E

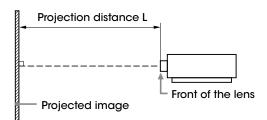
• When a signal other than the signals listed in table is input, the picture may not be displayed properly.

· An input signal meant for a screen resolution different from that of the panel will not be displayed in its original resolution. Text and lines may be uneven.

· Some actual value may differ slightly from the design values given in the table.

## INSTALLATION DIAGRAM

Projection image size Width x Height VPLL-FM22 VPLL-ZM32 VPLL-ZM102 VPLL-4008 VPLL-Z4015 VPLL-Z4025 VPLL-Z4045 5.62 - 8.33 80-inch 1.72 x 1.08 1.48 2.49 – 2.74 3.17 - 3.98 4.28 - 4.78 1.80 3.36 - 4.42 4.36 - 5.57 5.48 - 10.14 10.09 - 17.46 (2.03 m) (68 x 42) (58) (98 - 108) (125 - 157) (169 - 188) (221 - 328) (71) (132 - 174) (172 - 219) (216 - 399) (397 - 687) 100-inch 2.15 x 1.35 1.87 3.12 - 3.44 3.98 - 4.99 5.37 - 6.00 7.07 - 10.46 2.27 4.22 - 5.55 5.48 - 6.99 6.88 - 12.71 12.66 - 21.88 (2.54 m) (74) (123 – 135) (157 – 196) (211 - 236) (278 - 412) (89) (166 - 219) (216 - 275) (271 - 500) (498 - 861) (85 x 53) 2.74 120-inch 2.58 x 1.62 2.25 3.76 - 4.15 4.78 - 6.00 6.45 – 7.22 8.52 - 12.58 5.09 - 6.68 6.60 - 8.41 8.29 - 15.28 15.23 - 26.30 (3.05 m) (102 x 64) (89) (148 - 163) (188 - 236)(254 - 284)(335 - 495)(108) (200 – 263) (260 - 331) (326 - 602) (600 - 1035) 3.23 x 2.02 10 69 - 15 77 8 29 - 10 55 10.40 - 19.14 19 10 - 32 93 150-inch 2 83 4.71 - 5.20 599 - 751 8 09 - 9 05 3.44 6.38 - 8.38 (111) (421 - 621) (135) (752 - 1296) (3.81 m) (127 x 79) (185 - 205)(236 - 296) (319 - 356) (251 - 330) (326 - 415) (409 - 754) 200-inch 4.31 × 2.69 3.79 6.30 - 6.95 8.01 - 10.03 10.80 - 12.11 14.31 - 21.09 4.61 8.55 - 11.20 11.09 - 14.10 13.92 - 25.57 25.53 - 43.99 (5.08 m) (170 × 106) (149) (248 - 274) (315 - 395) (425 - 477) (563 - 830) (182) (337 - 441) (437 – 555) (548 - 1007) (1005 – 1732)

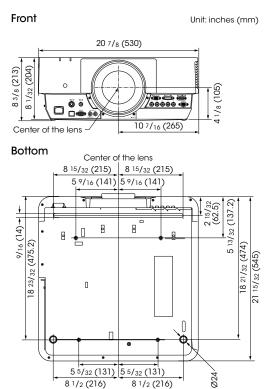


Unit: m (inches)

### **SPECIFICATIONS**

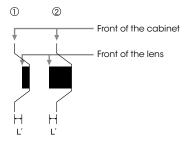
|   |                           | VPL-FH500L  |  |
|---|---------------------------|---|--|
| Display system                                |                           | 3 LCD system  |  |
| Display device Size of effective display area |                           | 0.95" (24.1 mm) x 3, BrightEra, Aspect ratio: 16:10               |  |
|   | Number of pixels          | 6,912,000 (1920 x 1200 x 3) pixels                                |  |
| Projection lens                               | Zoom                      | Powered / Manual (Depends on lens)                                |  |
|   | Focus                     | Powered / Manual (Depends on lens)                                |  |
|   | Lens shift                | Powered   |  |
| Light source                                  |                           | High-pressure mercury lamp, 330 W type (Twin lamp system)         |  |
|   | np replacement time*1     | 6000 H (Lamp mode: High), 8000 H (Lamp mode: Standard) *2         |  |
| Filter replacement                            |                           |   |  |
| Screen size                                   | Jycie                     | Same time as the lamp replacement                                 |  |
|   |                           | 40" to 600" (1.02 m to 15.24 m) (Depends on lens)                 |  |
| Light output                                  |                           | 7000 lm (Lamp mode: High)*3, 5600 lm (Lamp mode: Standard)*3      |  |
| Color light output                            | 1.1. 77 11.1. 1.5.44      | 7000 lm (Lamp mode: High)*3, 5600 lm (Lamp mode: Standard)*3      |  |
| Contrast ratio (full )                        | ,                         | 2500:1  |  |
| Displayable                                   | Horizontal                | 14 kHz to 93 kHz  |  |
| scanning frequency                            |                           | 47 Hz to 93 Hz  |  |
| Display resolution                            | Computer signal input     | Maximum display resolution: 1920 x 1200 dots*5                    |  |
|   |                           | Panel display resolution: 1920 x 1200 dots                        |  |
|   | 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, 1080/48i*6,      |  |
|   |                           | 1080/24p, 1080/30p*6  |  |
| Color system                                  |                           | NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60               |  |
| Keystone correction                           | ו                         | Vertical: Max. +/- 5 degrees                                      |  |
| OSD language                                  |                           | 20-languages (English, Dutch, French, Italian, German, Spanish,   |  |
|   |                           | Portuguese, Turkish, Polish, Russian, Swedish, Norwegian,         |  |
|   |                           | Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai,  |  |
|   |                           | Vietnamese, Arabic, Persian)                                      |  |
| Computer and                                  | INPUT A                   | RGB / Y PB PR input connector: 5BNC (female)                      |  |
| video signal                                  | INPUT B                   | RGB input connector: Mini D-sub 15-pin (female)                   |  |
| input/output                                  | INPUT C                   | DVI-D input connector: DVI-D 24-pin (Single link), supported HDCP |  |
|   | INPUT D                   | HDMI input connector: Digital RGB/Y PB PR                         |  |
|   | INPUT E                   | Optional adaptor slot (For HD-SDI/SDI Input Adaptor "BKM-FW16")   |  |
|   | S VIDEO IN                | S video input connector: Mini DIN 4-pin                           |  |
|   | VIDEO IN                  | Video input connector: BNC  |  |
|   | OUTPUT                    | Monitor output connector*7: Mini D-sub 15-pin (female)            |  |
| Control signal input                          | t/output                  | RS-232C connector: D-sub 9-pin (female)                           |  |
|   |                           | LAN connector: RJ45, 10BASE-T/100BASE-TX                          |  |
|   |                           | Control S input connector: Stereo mini jack, Plug in power DC 5 V |  |
|   |                           | Control S output connector: Stereo mini jack                      |  |
| Operating temperation                         | ture (Operating humidity) | 32°F to 104°F / 0°C to 40°C (35% to 85%; no condensation)         |  |
| Storage temperatur                            | e (Storage humidity)      | -4°F to +140°F / -20°C to +60°C (10% to 90%)                      |  |
| Power requirement                             | S                         | AC 100 V to 240 V, 4.9 A to 2.0 A, 50/60 Hz                       |  |
| Power   | AC 100 V to 120 V         | 490 W   |  |
| consumption                                   | AC 220 V to 240 V         | 460 W   |  |
| Standby mode                                  | AC 100 V to 120 V         | 11 W (Standby mode: Standard) / 0.1 W (Standby mode: Low)         |  |
| power consumption                             |                           | 10 W (Standby mode: Standard) / 0.2 W (Standby mode: Low)         |  |
| Heat dissipation                              | AC 100 V to 120 V         | 1672 BTU  |  |
| AC 220 V to 240 V                             |                           | 1569 BTU  |  |
| Outside dimensions                            |                           | W 20 7/8 x H 8 3/8 x D 21 15/32 in (W 530 x H 213 x D 545 mm)     |  |
|   |                           | W 20 7/8 x H 8 1/32 x D 21 15/32 in (W 530 x H 204 x D 545 mm)    |  |
|   |                           | (without protrusions)   |  |
| Weight  |                           | 44 lb 1 oz / 20 kg  |  |
| Supplied accessori                            | 00                        | RM-PJ19 Remote Commander (1), Size AA (R6) batteries (2),         |  |
| Supplied accessories                          |                           | AC Power Cord (1), Cable ties (2), Cable tie holder for HDMI (1), |  |
|   |                           | Lens installation screws (4), Lens gap cover (1), Quick Reference |  |
|   |                           | Manual (1), Security Label (1), Operating Instructions (1)        |  |
|   |                           |   |  |

DIMENSIONS



## The distance L' is between the front of the lens (center) and the front of the cabinet

|            | Un             | it: inches (mm) |
|------------|----------------|-----------------|
| Lens       | Ľ              | Туре            |
| VPLL-FM22  | 1 7/32 (30.9)  | 1               |
| VPLL-ZM32  | 1 11/16 (42.5) | 1               |
| VPLL-ZM42  | 1 19/32 (40.1) | 1               |
| VPLL-ZP41  | 11/32 (9.1)    | 2               |
| VPLL-ZM102 | 1/8 (3.0)      | 1               |
| VPLL-4008  | 2 9/32 (57.8)  | 2               |
| VPLL-Z4015 | 1 7/8 (47.8)   | 2               |
| VPLL-Z4019 | 1 1/16 (26.7)  | 2               |
| VPLL-Z4025 | 2 3/16 (55.4)  | 2               |
| VPLL-Z4045 | 2 3/32 (53.0)  | 2               |



\*1. Expected maintenance time, not guaranteed. Lamp performance will vary based on operating environment and use. \*2 With two lamp sequential use. \*3 When attaching the VPLL-ZP41. \*4 The value is average. \*5 Available for VESA Reduced Blanking signal. \*6 Available via BKM-FW16. \*7 From INPUT A and INPUT B.



Sony Electronics Inc. 1 Sony Drive Park Ridge, NJ 07656 sony.com/professional

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