

VPL-FH500L

7,000 lumens WUXGA 3LCD Higher Installation projector



Overview

Ultra high brightness and low maintenance - great performance for any environment

The VPL-FH500L's outstanding portfolio of features allows it to offer class-leading projection performance even in the most challenging of environments. Its 7,000 Lumens Colour Light Output brightness, its zoom and its wide lens shift range, allow it to deliver the clearest image where other projectors would struggle - even in high ambient light.

Once installed, the VPL-FH500L has excellent image capabilities and a long lifespan that delivers low Total Cost of Ownership. Sony's BrightEra technology improves and maintains colour purity throughout the life of the system by protecting the LCD panels against harmful ultra violet light. Clever features such as dual auto-switching lamps, and synchronised lamp and filter replacement cycles, reduce maintenance costs and downtime.

Featuring the usual wide range of inputs, an external monitor connection for the presenter's convenience, and advanced projection capabilities such as side-by-side image projection and DICOM medical training, the VPL-FH500L is the projector of choice for venues that demand the highest quality in the most practical, flexible form.

Features

- **3LCD WUXGA BrightEra Panel Technology**

Sony's BrightEra Panel Technology gives more accurate colour rendition, higher brightness and longer lifespan for a lower Total Cost of Ownership.

- **Ultra High Resolution**

The VPL-FH500L's WUXGA (1920x1200) 16:10 format resolution delivers absolute best image quality.

- **Ultra High Brightness: 7,000 Lumens Colour Light Output**

With ultra high brightness of 7,000 Lumens Colour Light Output, the VPL-FH500L gives a very clear image in high ambient light, making it highly suitable for larger venues.

- **Wide Lens Shift Range: Vertical: +/- 113%, Horizontal: +/- 63% (depending on optional lens)**

The VPL-FH500L's wide lens shift range means that the projector can be positioned closer to the ceiling, or horizontally offset to avoid ceiling obstacles.

- **Interchangeable Lenses**

The VPL-FH500L allows you to choose the characteristics of the projector's optics by selecting from a range compatible with previous models.

- **Twin lamp system**

A second lamp is built in to provide automatic back up. The two lamps can be alternately used.

- **Lamp/Filter Replacement Cycles Synchronised**

Synchronised lamp and filter replacement effectively halves the number of visits needed to maintain the projector in peak operating condition. (Filters are provided with replacement lamp.)

- **Side by Side Image Projection**

Side by side twin image gives you the ability to project from two inputs (RGB + any other Input) at the same time, making the projector ideal for applications like video conferencing and DICOM medical training.

- **DICOM GSDF Simulation**

The VPL-FH500L offers DICOM GSDF Simulation (HDMI with computer signals), which conforms to GSDF (Grayscale Standard Display Function) of medical standards for DICOM (Digital Imaging and Communication in Medicine).

- **Wide Range of Image Adjustments**

This wide range of image adjustments allows the projector to be installed in almost any location. Where equipment is being upgraded, installers are more likely to be able to use existing mounts. In new installations, they are more likely to be able to work around existing obstructions.

- **User Panel Alignment**

Pixel alignment shifts the entire image or desired range (H: 16 X V: 10 pixels) for complete colour correction.

- **Colour Matching**

The VPL-FH500L offers brightness and colour matching adjustment to the original image for complete image accuracy.

- **Lower Operating Power Consumption than Previous Models**

Lower operating power consumption helps reduce energy consumption and lowers running costs.

Technical 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 - Powered/Manual	Powered / Manual (Depend on lens)
● Lens shift - Powered/Manual	Powered / Manual (Depend on lens)

Light source	
● Type	Ultra high pressure mercury lamp
● Wattage	330 W type
● System	Twin lamp system

Recommended lamp replacement time *1	
● Lamp mode: High	6000 H (With twin lamp sequence use)
● Lamp mode: Standard	8000 H (With twin lamp sequence use)

Filter cleaning / replacement cycle (Max.) *1	
● Filter cleaning / replacement cycle (Max.)	Same as the lamp replacement

Screen size	
● Screen size	40" to 600" (1.02 m to 15.24 m) (measured diagonally) (Depend on lens)

Light output	
● Lamp mode: High	7000 lm
● Lamp mode: Standard	5600 lm

Color light output	
● Lamp mode: High	7000 lm
● Lamp mode: Standard	5600 lm

Contrast ratio (full white / full black) *2	
● Contrast ratio (full white / full black)	2500:1

Displayable scanning frequency	
● Horizontal	14 kHz to 93 kHz
● Vertical	47 Hz to 93 Hz

Display resolution	

● Computer signal input	Maximum display resolution: UXGA 1600 x 1200 dots*3
● 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, 1080/30p*4
Color system	
● Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60
Keystone correction (Max.)	
● Vertical	+/- 5 degrees
OSD language	
● 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)
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 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*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 Control S output connector: Stereo mini jack
Acoustic noise	
● Lamp mode: Standard	35 dB
Operating temperature / Operating humidity	
● Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)
Storage temperature / Storage humidity	
● Storage temperature / Storage humidity	-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)
Power requirements	
● Power requirements	AC 100 V to 240 V, 4.8 A to 2.0 A, 50 Hz / 60 Hz
Power consumption	
● AC 100 V to 120 V	Lamp mode: High: 490 W
● AC 220 V to 240 V	Lamp mode: High: 460 W
Power Consumption (Standby Mode)	
● AC 100 V to 120 V	0.1 W (when "Standby mode" is set to "Low")

● AC 220 V to 240 V	0.2 W (when "Standby mode" is set to "Low")
Power Consumption (Networked Standby Mode)	
● AC 100 V to 120 V	11.0 W (LAN) (when "Standby Mode" is set to "Standard")
● AC 220 V to 240 V	10.0 W (LAN) (when "Standby Mode" is set to "Standard")
Standby Mode / Networked Standby Mode Activated	
● Standby Mode / Networked Standby Mode Activated	After about 10 minutes
Heat dissipation	
● AC 100 V to 120 V	1672 BTU/h
● AC 220 V to 240 V	1569 BTU/h
Dimensions (W x H x D)	
● Dimensions (W x H x D) (without protrusions)	Approx. 530 x 204 x 545 mm (20 7/8 x 8 1/32 x 21 15/32 inches)
Mass	
● Mass	Approx. 20 kg (44 lb)
Supplied accessories	
● Remote commander	RM-PJ19
Optional Accessories	
● Replacement lamp	LMP-F330
● Projection lenses	VPLL-4008/Z4007/Z4011/Z4015/Z4019/Z4025/Z4045/Z4007/FM22/ZM32/ZM42/ZP41/ZM102
● Projection lens adapter	PK-F500LA1, PK-F500LA2
Notes	
● *1	The figures are the expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used.
● *2	The value is average.
● *3	Available for VESA Reduced Blanking signal.
● *4	Available via BKM-FW16
● *5	From INPUT A and INPUT B.

Accessories

Ceiling Brackets



PSS-630P
Projector Ceiling Bracket for
the VPL-F Series

Lamps



LMP-F330
Replacement Lamp for the
VPL-F Series

Lenses



VPLL-4008
Projection Lens for the VPL-F
Series



VPLL-FM22
Projection Lens for the VPL-F
Series



VPLL-Z4007
Projection Lens for the VPL-F
Series



VPLL-Z4011
Projection Lens for the VPL-F
Series



VPLL-Z4025
Projection Lens for the VPL-F
Series



VPLL-Z4045
Projection Lens for the VPL-F
Series



VPLL-ZM102
Projection Lens for the VPL-F
Series



VPLL-ZM32
Projection Lens for the VPL-F
Series



VPLL-ZM42
Projection Lens for the VPL-F
Series

Other Accessories



BKM-PJ20
3G-SDI Input Adaptor



VPLL-Z4015
Projection Lens for the VPL-F Series



VPLL-Z4019
Projection Lens for the VPL-F Series



PK-F500LA2
Lens adaptor for VPL-F Series projectors