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VPL-FX500L

Versatile Installation Projector



BrightEra™
Long Lasting Optics

Peace of Mind Operation, Installation Flexibility, and Hassle-free Maintenance with a Stylish Unobtrusive Design

The VPL-FX500L offers peace of mind operation by using a twin-lamp system which adopts a redundant lamp and provides 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 exceptionally long compared to single-lamp system and dual-lamp system by cutting maintenance time and cost. In addition, the VPL-FX500L is designed to deliver a low total cost of ownership, and includes eco-friendly features such as long-lasting lamps and low power consumption.

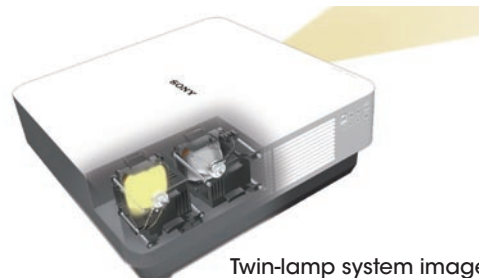
Packing the most advanced projector technologies into a low-profile design, the VPL-FX500L is an excellent choice, delivering a dramatic brightness of 7,000 lumens and high-quality images with XGA resolution.



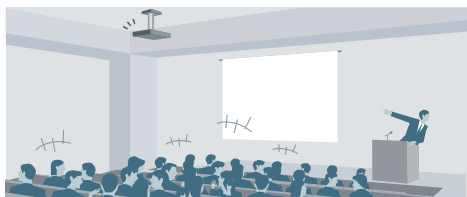
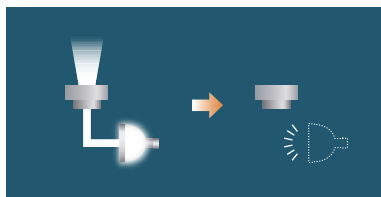
FEATURES

Twin-lamp System for Peace of Mind 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 approximately 8,000 hours, saving maintenance time and cost.

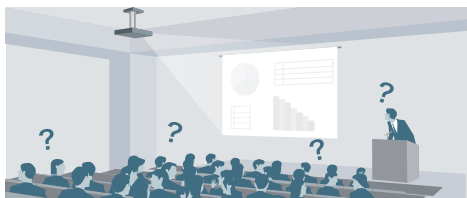
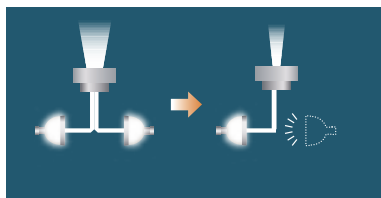


Twin-lamp system image



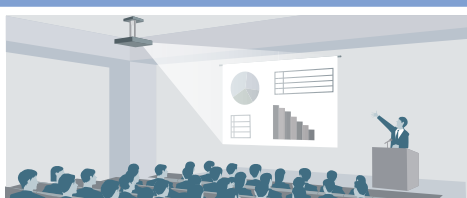
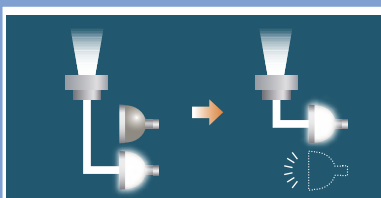
Single-lamp system:

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 presentation's impact is diminished.



Twin-lamp system:

Even when a lamp has a problem, there is no worry to continue the presentation.

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

"Blend-in" Design

The VPL-FX500L 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.



High Picture Quality

High Picture Quality and Bright Images

By combining a new-generation optical system that uses Sony's BrightEra™ with Long Lasting Optics technology* and a 3LCD projection system, the VPL-FX500L offers high picture quality in XGA (1024 x 768) resolution and a high brightness of 7000 lumens.

* BrightEra with Long Lasting Optics is the Sony brand name for a new generation of optical system, which is a more advanced version of Sony's original BrightEra technology. In addition to the adoption of 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-FX500L adopts a 3LCD projection system incorporating three LCD panels. This system enables the projector to present bright and natural images.



simulated image

12-bit 3D Gamma Correction

The VPL-FX500L incorporates 12-bit 3D Gamma Correction circuitry to perform highly accurate gamma correction, achieving smoother gradations and a richer gray scale.

I/P Conversion and Film Mode

The video signal processing technology that Sony has incorporated in the VPL-FX500L offers I/P conversion and 2-3 pull-down to generate high-quality images with outstanding clarity.

Optional High-resolution Lenses

The optional VPLL-Z4015, VPLL-Z4019, VPLL-Z4025, and VPLL-Z4045 are known as All Range Crisp Focus (ARC-F) lenses. Each with a large diameter and fine pitch, they ensure crisp pictures.



ARC-F Lens



Normal Lens

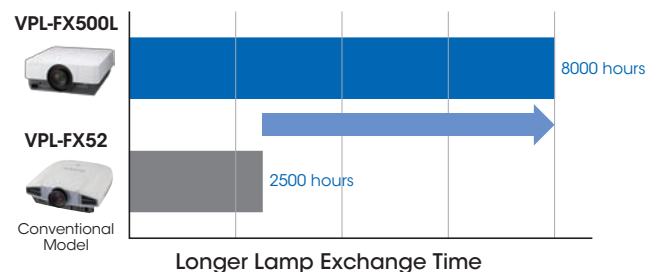
simulated image

Good TCO and ECO-friendly Design

Long-lasting Lamp

By incorporating newly developed high-performance lamps and advanced lamp-control technology, the VPL-FX500L delivers a recommended lamp replacement time of approximately 8,000 hours.*

* In Standard mode (with two lamps)

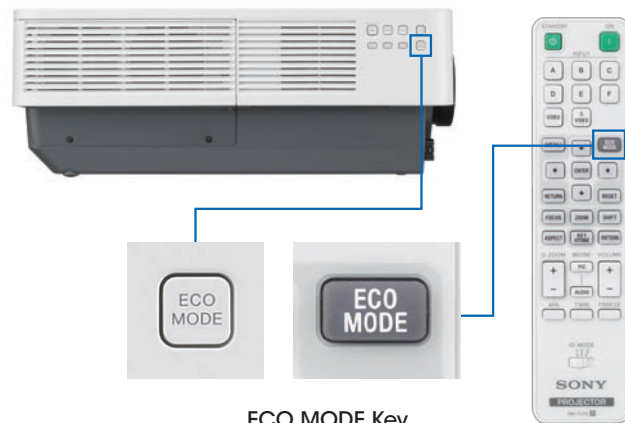


Low Power Consumption

The VPL-FX500L 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™ unit, users can select an energy-saving setting in the ECO Mode menu.



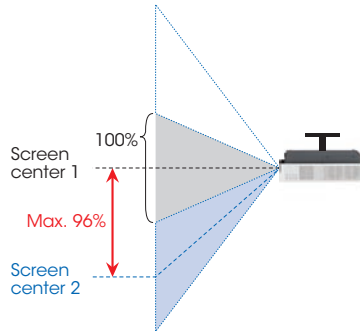
ECO MODE Key

Installation Advantages

Lens Shift Function

The VPL-FX500L is equipped with a lens shift function, which is controlled from the projector control panel or the supplied Remote Commander unit. Using this function, the position of the projected image can be moved vertically by -96% to +96% and horizontally by -64% to +64%. Images can be easily adjusted to the desired settings during installation.

Vertical range
Approx. 3 screens

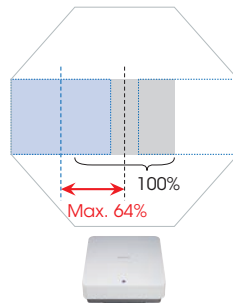


V shift 96%

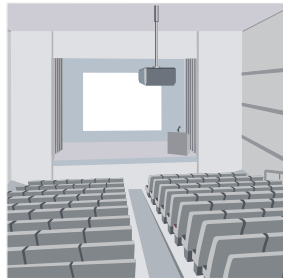


Enough V shift to Ensure Broad Visibility

Horizontal range
Over 2 screens



V shift 50%

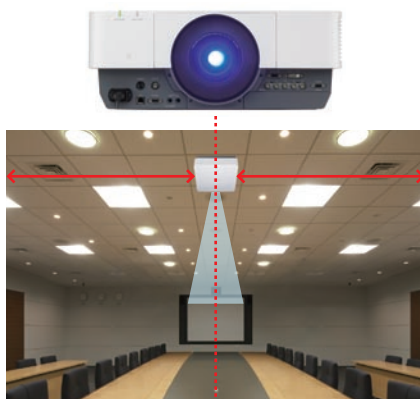


Variety of Optional Lenses of Sony Legacy Lenses

Various optional zoom lenses are available for the VPL-FX500L which can be used for many different applications.

Centered Lens Design

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



Symmetric Installation Image

Two Feet Functional Size

The VPL-FX500L matches well with typical ceiling tile and is blended into the ceiling.



Hassle-free Maintenance

Lamp and Filter Synchronized Maintenance

When the lamps and air filter are due for replacement, a timely message is clearly 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 8,000-hour 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.

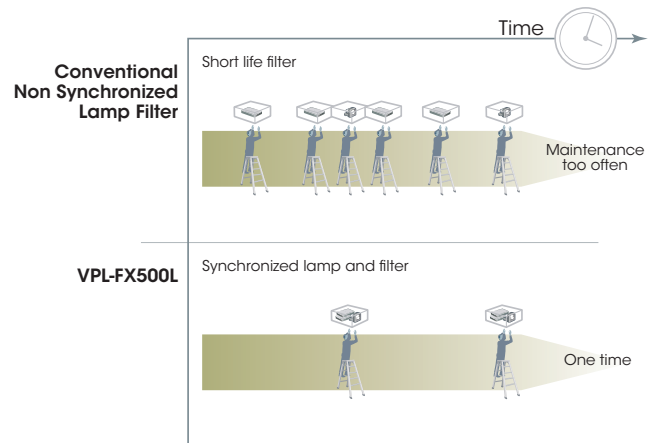
* The Quad Filter System Plus is composed of four pleated electrostatic filters. This substantial unit is designed to maintain high performance for a long period of time, requiring air filter replacement only when lamp replacement is also required. (included with replacement lamp)



Lamp Replacement



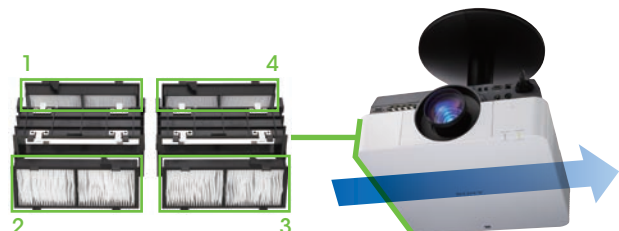
Air Filter Replacement



Maintenance Cycle Comparison Image

One-way Intake with 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 high-reliability filter system.



One-way Intake with Quad Filter System Plus

Presentation Functions

Freeze Function

Freezes the projected image

Digital Zoom Function

Enlarges a section of the image

Picture/Audio Muting

Mutes the image/audio

Other Features

Quiet Noise Operation

Low frequency sound

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

Audio Monitor Function

Allows audio to be selected based on input selection

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

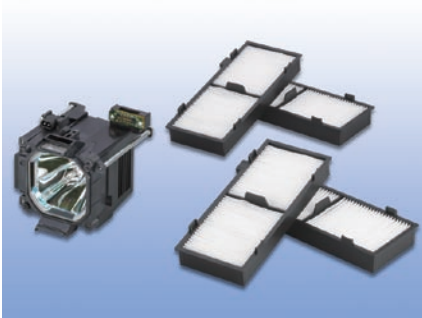
Network and Control

Controls and monitors projector status

Compatible with various control systems

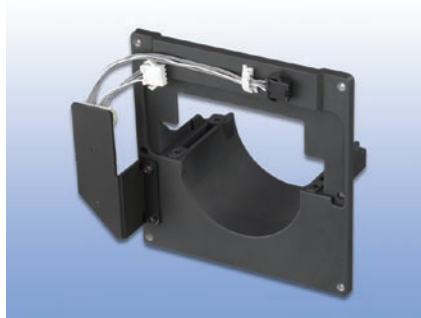


OPTIONAL ACCESSORIES



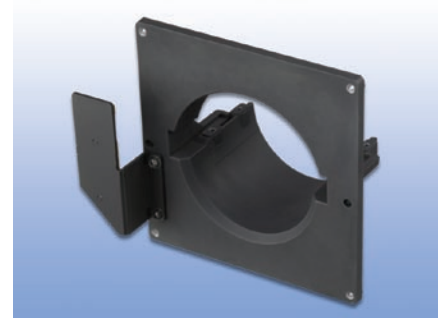
LMP-F330

Projector Lamp (Replacement filters included)



PK-F500LA1

Projection Lens Adapter







PK-F500LA2

Projection Lens Adapter

OPTIONAL LENSES

<Premium Series>

Projection lens	VPLL-Z4015	VPLL-Z4019	VPLL-Z4025	VPLL-Z4045
				
Throw ratio	2.06:1 to 2.72:1	2.67:1 to 3.42:1	3.36:1 to 6.23:1	6.19:1 to 10.72:1
Zoom / Focus	Powered / Powered	Powered / Powered	Powered / Powered	Powered / Powered
Lens shift	Vertical: Upward 86% to Downward 86% Horizontal: Right 57% to Left 57%	Vertical: Upward 96% to Downward 96% Horizontal: Right 64% to Left 64%	Vertical: Upward 96% to Downward 96% Horizontal: Right 64% to Left 64%	Vertical: Upward 96% to Downward 96% Horizontal: Right 64% to Left 64%
Aperture	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"	60" to 600"
Dimensions	W 5 13/16 x H 5 1/4 x D 9 3/32 in (W 148 x H 133 x D 231 mm)	W 5 13/16 x H 5 1/4 x D 8 11/32 in (W 148 x H 133 x D 212 mm)	W 5 13/16 x H 5 1/4 x D 9 9/16 in (W 148 x H 133 x D 243 mm)	W 5 13/16 x H 5 1/4 x D 9 1/4 in (W 148 x H 133 x D 235 mm)
Weight	6 lb 10 oz / 3.00 kg	6 lb 12 oz / 3.06 kg	6 lb 3 oz / 2.80 kg	6 lb 10 oz / 3.00 kg
Required projection lens adapter	—	—	—	—

<Value Series>

Projection lens	VPLL-FM22	VPLL-ZM32	VPLL-ZM42	VPLL-ZP41
				
Throw ratio	0.89:1	1.48:1 to 1.62:1	1.87:1 to 2.30:1	2.53:1 to 3.08:1
Zoom / Focus	— / Manual	Manual / Manual	Manual / Manual	Powered / Powered
Lens shift	—	Vertical: Upward 50% to Downward 50% Horizontal: Right 32% to Left 32%	Vertical: Upward 50% to Downward 50% Horizontal: Right 32% to Left 32%	Vertical: Upward 96% to Downward 96% Horizontal: Right 64% to Left 64%
Aperture	f/2.00	f/1.76 to 1.96	f/1.74 to 2.28	f/1.70 to 2.00
Screen size*	40" to 300"	40" to 300"	40" to 300"	40" to 300"
Dimensions	W 3 15/32 x H 3 15/32 x D 6 21/32 in (W 88 x H 88 x D 169 mm)	W 3 15/32 x H 3 15/32 x D 6 1/4 in (W 88 x H 88 x D 159 mm)	W 3 15/32 x H 3 15/32 x D 6 1/4 in (W 88 x H 88 x D 159 mm)	W 4 19/32 x H 4 11/32 x D 7 25/32 in (W 117 x H 110 x D 198 mm)
Weight	2 lb 2 oz / 0.95 kg	2 lb 3 oz / 1.00 kg	1 lb 7 oz / 0.65 kg	3 lb 3 oz / 1.46 kg
Required projection lens adapter	PK-F500LA2	PK-F500LA2	PK-F500LA2	PK-F500LA1

Projection lens	VPLL-ZM102	VPLL-ZM101
		
Throw ratio	3.35:1 to 4.92:1	4.47:1 to 6.58:1
Zoom / Focus	Manual / Manual	Manual / Manual
Lens shift	Vertical: Upward 50% to Downward 50% Horizontal: Right 32% to Left 32%	Vertical: Upward 96% to Downward 96% Horizontal: Right 64% to Left 64%
Aperture	f/2.04 to 2.57	f/2.00 to 2.60
Screen size*	40" to 300"	40" to 300"
Dimensions	W 3 15/32 x H 3 15/32 x D 7 25/32 in (W 88 x H 88 x D 198 mm)	W 3 15/16 x H 3 15/16 x D 8 3/4 in (W 100 x H 100 x D 222 mm)
Weight	3 lb 5 oz / 1.50 kg	3 lb 16 oz / 1.81 kg
Required projection lens adapter	PK-F500LA2	PK-F500LA1

* Viewable area, measured diagonally.

PRESET SIGNAL CHART

Computer Signal

Resolution	fH [kHz]/ fV [Hz]	Input connector	
		RGB	DVI-D
640 x 350	31.5/70	●	
	37.9/85	●	
640 x 400	31.5/70	●	
	37.9/85	●	
640 x 480	31.5/60	●	●
	35.0/67	●	
	37.9/73	●	
	37.5/75	●	
	43.3/85	●	
	35.2/56	●	
800 x 600	37.9/60	●	●
	48.1/72	●	
	46.9/75	●	
	53.7/85	●	
832 x 624	49.7/75	●	
	48.4/60	●	●
1024 x 768	56.5/70	●	
	60.0/75	●	
	68.7/85	●	
	64.0/70	●	
1152 x 864	67.5/75	●	
	77.5/85	●	
	61.8/66	●	
1152 x 900	60.0/60	●	●
	75.0/75	●	
1280 x 960	64.0/60	●	●
	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	●	●
1920 x 1080	67.5/60	●	●
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	● ^{*1}	● ^{*1}

Digital TV Signal

Signal	fV [Hz]	Input connector	
		RGB ^{*2} /YPbPr	DVI-D
480i	60	●	●
576i	50	●	●
480p	60	●	●
576p	50	●	●
1080i	60	●	●
1080i	50	●	●
720p	60	●	● ^{*3}
720p	50	●	●
1080p	60		● ^{*3}
1080p	50		●

Analog TV Signal

Signal	fV [Hz]	Input connector
		VIDEO/S VIDEO
NTSC	60	●
PAL/SECAM	50	●

*1: Available for VESA Reduced Blanking signals.

*2: With INPUT A only.

*3: Determine as a computer signal.

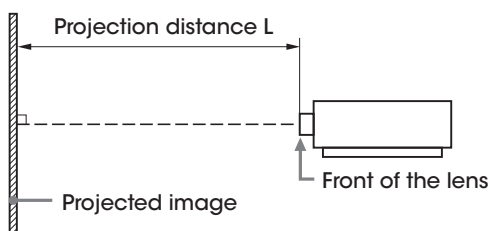
• When a signal other than the signals listed in table is input, the picture may not be displayed properly.

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

INSTALLATION DIAGRAM

Unit: inches (m)

Projection image size		Projection distance L									
Diagonal	Width x Height	VPLL-FM22	VPLL-ZM32	VPLL-ZM42	VPLL-ZP41	VPLL-ZM102	VPLL-ZM101	VPLL-Z4015	VPLL-Z4019	VPLL-Z4025	VPLL-Z4045
80-inch (2.03 m)	64 x 48 (1.63 x 1.22)	56 (1.42)	94 – 103 (2.39 – 2.64)	120 – 150 (3.05 – 3.82)	162 – 197 (4.11 – 5.01)	213 – 315 (5.40 – 8.01)	287 – 421 (7.29 – 10.71)	127 – 167 (3.22 – 4.24)	165 – 210 (4.19 – 5.35)	207 – 383 (5.26 – 9.74)	382 – 660 (9.69 – 16.78)
100-inch (2.54 m)	80 x 60 (2.03 x 1.52)	71 (1.79)	118 – 130 (3.00 – 3.31)	151 – 188 (3.82 – 4.79)	203 – 247 (5.16 – 6.29)	268 – 395 (6.79 – 10.05)	361 – 529 (9.16 – 13.44)	160 – 210 (4.05 – 5.33)	208 – 264 (5.27 – 6.72)	261 – 481 (6.61 – 12.21)	479 – 828 (12.17 – 21.03)
120-inch (3.05 m)	96 x 72 (2.44 x 1.83)	85 (2.16)	143 – 157 (3.61 – 3.98)	181 – 227 (4.60 – 5.76)	245 – 298 (6.20 – 7.57)	323 – 476 (8.18 – 12.09)	435 – 636 (11.03 – 16.17)	193 – 252 (4.89 – 6.42)	250 – 318 (6.35 – 8.08)	314 – 578 (7.97 – 14.69)	577 – 995 (14.64 – 25.28)
150-inch (3.81 m)	120 x 90 (3.05 x 2.29)	107 (2.72)	179 – 196 (4.53 – 4.99)	227 – 284 (5.76 – 7.22)	306 – 373 (7.77 – 9.49)	405 – 597 (10.27 – 15.16)	545 – 797 (13.84 – 20.26)	242 – 317 (6.13 – 8.05)	314 – 399 (7.96 – 10.14)	394 – 724 (10.00 – 18.40)	723 – 1,246 (18.35 – 31.66)
200-inch (5.08 m)	160 x 120 (4.06 x 3.05)	143 (3.64)	239 – 263 (6.06 – 6.68)	303 – 379 (7.70 – 9.64)	409 – 499 (10.39 – 12.69)	542 – 798 (13.75 – 20.27)	730 – 1,066 (18.53 – 27.09)	324 – 424 (8.21 – 10.77)	420 – 533 (10.66 – 13.56)	527 – 968 (13.38 – 24.58)	967 – 1,665 (24.54 – 42.29)



SPECIFICATIONS

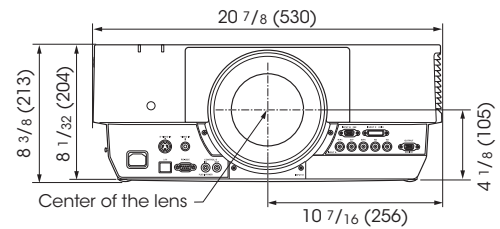
VPL-FX500L		
Display system		3 LCD system
Display device	Size of effective display area	0.99" (25.0 mm) x 3, BrightEra, Aspect ratio: 4:3
	Number of pixels	2,359,296 (1024 x 768 x 3) pixels
Projection lens	Zoom	Powered / Manual (Depend on lens)
	Focus	Powered / Manual (Depend on lens)
	Lens shift	Powered
Light source		High-pressure mercury lamp 330W type (Twin lamp system)
Recommended lamp replacement time*1		6000 H (Lamp mode : High) 8000 H (Lamp mode : Standard) *2
Filter replacement cycle		Same time as the lamp replacement
Screen size		40" to 600" (1.02 m to 15.24 m)*3
Light output		7000 lm (Lamp mode: High)*4 5600 lm (Lamp mode: Standard)
Color light output		7000 lm (Lamp mode: High)*4 5600 lm (Lamp mode: Standard)
Contrast ratio (full white / full black)*5		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: 1920 x 1200 dots*6 (resizing display) Panel display resolution: 1024 x 768 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
Color system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60
Keystone correction		Vertical: Max. +/- 30 degrees*7
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 video signal input/output	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
	S VIDEO IN	S video input connector: Mini DIN 4-pin
	VIDEO IN	Video input connector: BNC
	OUTPUT	Monitor output connector*8: Mini D-sub 15-pin (female)
Control signal input/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 DC5V Control S output connector: Stereo mini jack
Operating temperature (Operating humidity)		32°F to 104°F / 0°C to 40°C (35% to 85% (no condensation))
Storage temperature (Storage humidity)		-4°F to +140°F / -20°C to +60°C (10% to 90%)
Power requirements		AC 100 V to 240 V, 4.8 A to 2.0 A, 50/60 Hz
Power consumption	AC 100 V to 120 V	480 W
	AC 220 V to 240 V	460 W
Standby mode power consumption		1.3 W (Standby mode: Standard) / 0.1 W (Standby mode: Low)
Heat dissipation		12 W (Standby Mode: Standard) / 0.2 W (Standby mode: Low)
Heat dissipation	AC 100 V to 120 V	1638 BTU
	AC 220 V to 240 V	1570 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 accessories		RM-PJ19 Remote Commander (1), Size AA (R6) batteries (2), AC power cord (1), Cable ties (2), Lens installation screws (4), Lens gap cover (1), Quick Reference Manual (1), Security Label (1), Operating Instructions (1)

*1 The figures are expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used. *2 With two lamp sequential use. *3 Viewable area, measured diagonally. *4 When attaching the VPLL-ZP41. *5 The value is average. *6 Available for VESA Reduced Blanking signal. *7 Depend on resolution. *8 From INPUT A and INPUT B.

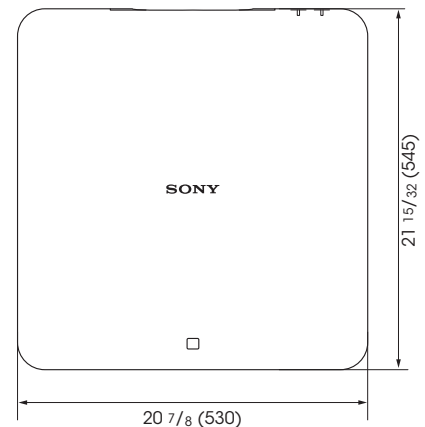
DIMENSIONS

Front

Unit: inches (mm)



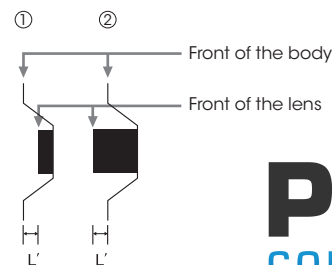
Top



The distance L' between the front of the lens (center) and the front of the cabinets

Unit: inches (mm)

Lens	L'	Type
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	1 1/32 (9.1)	②
VPLL-ZM102	1/8 (3.0)	①
VPLL-ZM101	1 5/8 (41.3)	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



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