

SONY®

LCD
PROJECTOR

VPL-FE40/VPL-FX40

TOTAL
PROJECTION
SOLUTION

like.no.other™

BrightEra.

 3LCD



CAPTIVATE YOUR AUDIENCE WITH SONY'S VPL-FE40 AND VPL-FX40.

Introducing the new VPL-FE40 and VPL-FX40 – Sony's solution to all projection requirements. The world's first BrightEra™ panels, advanced electronics, superior image processing, and a sophisticated chassis design, simply redefines Sony's total projection solution.

Whether deployed in a boardroom or in an auditorium, the projectors are sure to astound with their amazing design and features.

SONY'S **BrightEra™** TECHNOLOGY

Superior technology and manufacturing from Sony brings you the unique BrightEra™ panel, the world's first HTPS LCD panel with an inorganic alignment layer for higher brightness and better panel reliability, improved picture fill factor, and much more.

HIGH BRIGHTNESS AND BETTER PANEL RELIABILITY

Bonding of molecules in the inorganic alignment layer is stronger than in a normal organic layer, resulting in improved light resistance from UV rays from the lamp.

1F (field) Inversion Drive method can control an individual pixel better than current circuitry, resulting in improved transmittance ratio, thereby increasing brightness. Moreover, the drive frequency is doubled (from 60 Hz to 120 Hz), minimising line flicker.

IMPROVED PICTURE FILL FACTOR

For transmissive LCD panels, the transistors circuitry are lined side-by-side with the pixels, and are capable of only achieving 40-60% fill factor. By reducing the transistor area by approximately 70%, picture fill factor is greatly improved, resulting in sharper and more detailed images.



INSTALLATION FLEXIBILITY

POWER ZOOM/FOCUS, POWER HORIZONTAL/VERTICAL SHIFT

Easy adjustments can be made to the projected images as the available Zoom, Focus, Horizontal, and Vertical Picture shift functions can be controlled from either the projector control panel or from the supplied remote commander.

* Not available with use of optional fixed-type lens, VPLL-1008.

TWIN STACKING CAPABILITY

When applications require double the brightness, the projectors can be stacked. The images from each of the projectors are then adjusted using the Picture Shift function on each unit.

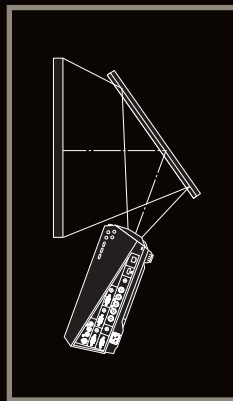
* Not available with use of optional fixed-type lens, VPLL-1008.

CENTRED LENS DESIGN

Installation and adjustments are made easy due to the symmetry provided by the centred lens.

FLEXIBLE ORIENTATION

Installation and application possibilities are boundless as the projectors can be tilted 90 degrees upwards or downwards from the horizontal axis. This allows the projectors to be used even in rear projection systems.



ID FUNCTION

With the new ID function, up to three projectors can be controlled independently with a single Remote Commander. This is especially useful in a multi-projector system in the same room.

DIRECT POWER ON/OFF

Start-up time is significantly reduced as standby mode is skipped over when the projectors are switched on. With a cooling fan driver circuitry that works even after the power has been turned off, the projector can also be powered on/off from a circuit breaker switch on a switchboard.

DIGITAL KEYSTONE ADJUSTMENT

Vertical Keystone distortion up to +/- 30 degrees can be digitally corrected either from the On-Screen Display or from the Remote Commander, enabling images to be projected correctly even in limited spaces.

VARIETY OF OPTIONAL LENS

VPL-FE40 and VPL-FX40 come with standard powered lens for most applications. For specific applications with requirements for special lens, the VPL-FE40L and VPL-FX40L with no standard lens are available.

The three optional lens provide the flexibility and expand the possibility of applications from long-distance projection in large auditoriums to short-distance rear-projections systems.

Projection Lens	Projection Lens	Projection Lens
Fixed Short Focus Lens	Middle Focus Zoom Lens	Long Focus Zoom Lens
VPLL-1008 ¹	VPLL-Z1024	VPLL-Z1032
		

F	2	2.0 - 2.3	2.0 - 2.4		
Throw ratio ²	0.781:1	2.38 - 3, 26:1	3.24 - 4, 95:1		
Zoom	-	1.45	1.6		
Throwing Distance/ Screen size ³		Wide	Tele	Wide	Tele
40-inch	-	1880 mm	2590 mm	2550 mm	3940 mm
60-inch	930 mm	2860 mm	3940 mm	3890 mm	5980 mm
80-inch	1260 mm	3850 mm	5280 mm	5240 mm	8020 mm
100-inch	1590 mm	4840 mm	6630 mm	6580 mm	10,060 mm
150-inch	2420 mm	7300 mm	9990 mm	9950 mm	15,150 mm
200-inch	3250 mm	9770 mm	13,350 mm	13,130 mm	20,240 mm
300-inch	4910 mm	14,700 mm	20,060 mm	20,040 mm	30,430 mm
400-inch	-	19,630 mm	26,780 mm	26,760 mm	40,620 mm
500-inch	-	24,570 mm	33,500 mm	33,490 mm	50,810 mm
600-inch	-	29,500 mm	40,220 mm	40,220 mm	60,990 mm

¹ When using the VPLL-1008 lens, the centre of the image projected from the lens must be perpendicular to and aligned with the centre of the screen vertically (mirror usage is acceptable). Also, the projector cannot be installed upside-down when using this lens.

² Distance between the centre of the projector lens and the screen, divided by the screen width.

³ Viewable area, measured diagonally.

NETWORK PRESENTATION

EASY NETWORK CONNECTIONS

The projectors can be easily connected on a LAN. Images from any PC, connected via LAN cable or wirelessly on the same network, can be projected by the projectors.

*Supplied application software needs to be installed

HIGH SPEED IMAGE TRANSFER OVER IP NETWORK

Using efficient compression and transmission techniques, the projectors enable fast and reliable receiving and projection of data (even animated Microsoft PowerPoint presentations) via IP network from any connected PC.

MULTIPLE PROJECTORS ON THE SAME NETWORK

Up to five projectors can be connected and each can project the same image from a single PC on the same network. This is ideal in large venue or multiple room projection applications where the same images have to be projected from various locations.

EASE OF SWITCHING PRESENTERS

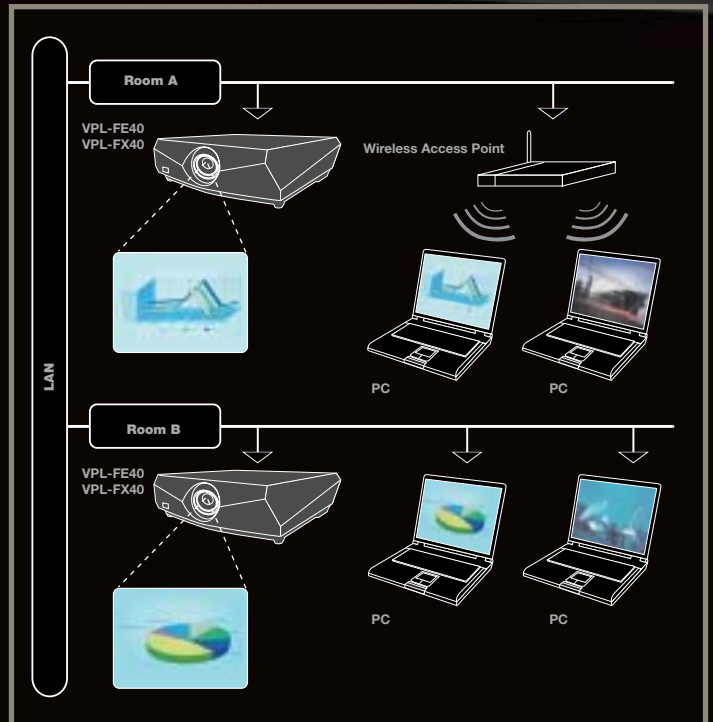
Switching between presenters is as easy as a mouse click as no passing of cables is required. Wireless connection will also enable the presenter to be positioned further away from the projector.

BORDERLESS PRESENTATION SOLUTION

Applications like distance learning or video-conferencing is possible as images can be projected all over the world with simple configuration of the projectors.

Transmission of data from PC to a projector in another room with a different network is also possible. This is ideal for presentation solutions in a large enterprise building or tertiary education campus.

Network Presentation System Diagram



System Requirements to Run Supplied Application Software

Hardware	CPU: Intel®Pentium® III 600-MHz processor or faster Memory: 64 MB or more (128 MB or more is recommended) (128 MB or more is required when using Microsoft® Windows® XP) Hard disk: 10 MB or more of free space Other hardware requirements: Display (XGA recommended), Network Capability, CD-ROM Drive
Operating System	Microsoft® Windows® 98 SE / Windows ME / Windows 2000 / Windows XP Home Edition, Windows XP Professional Edition
Browser	Internet Explorer 5.0 or higher

Sony cannot guarantee that the application software will run properly even though all of the above system requirements are met.

Notice Regarding Network Presentations

- When an image is sent from a computer to the VPL-FE40 projector, the image is processed using 1024 x 768 pixels.
- Animation effects and the slide show function in Microsoft PowerPoint presentations can be used; however, transmission delays may occur if a large number of effects are performed at once or if several slides are turned at once.
- Network transmission is not suitable for video.
- Network transmission should not be used with sound.
- Applications that use DirectX® application programming interface may not be displayed properly.
- When using Windows XP or Windows 2000 Operating Systems, the user must be logged into an account with computer administrator access.
- Application software is provided in English and Japanese.
- Network presentations may not be possible depending on network environment and available bandwidth.

FEATURES

PRACTICAL COSMETIC DESIGN

The design of the projectors is a result of Sony's pursuit in product design and functionality. The VPL-FE40 and VPL-FX40 projectors are elegant, yet able to blend into any installation environment, be it ceiling-mounted or seated on a stand. In terms of practicality, the projectors are designed to make maintenance a hassle-free experience.

MULTIPLE INTERFACE FOR VARIOUS CONNECTIONS

A wide variety of input signals are accepted including HD signals, composite, component video, S-video (Y/C), and computer signals up to UXGA (fv:60 Hz). Five BNC connectors which support typically long-distance signal transmissions from workstations or professional video equipment are also included. The VPL-FE40 and VPL-FX40 are HD-ready, incorporating HDMI™ digital input, allowing for connection to any device outputting 1080i/p HD signals. The projectors also boast a second RGB, variable audio out, RS232C and a network connection port (RJ45).

HDMI™ is HDCP compliant.



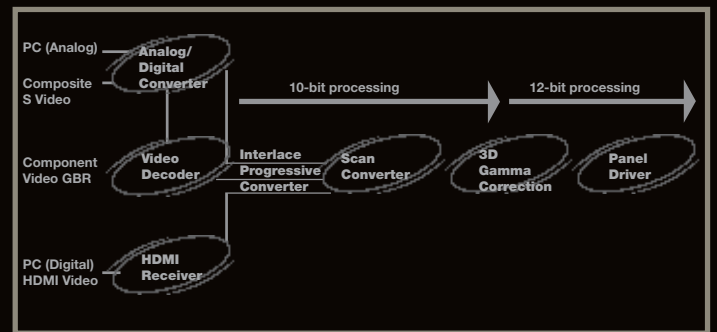
MONITOR OUTPUT

This allows for an engaging and professional presentation as presentation materials can be displayed on a connected monitor in the presenter's field of vision.

12-BIT 3D GAMMA CORRECTION AND 3D DIGITAL COMB FILTER

12-bit 3D Gamma Correction circuitry produces colour images with uniformed brightness – right to each corner of the screen.

Full Digital Processing

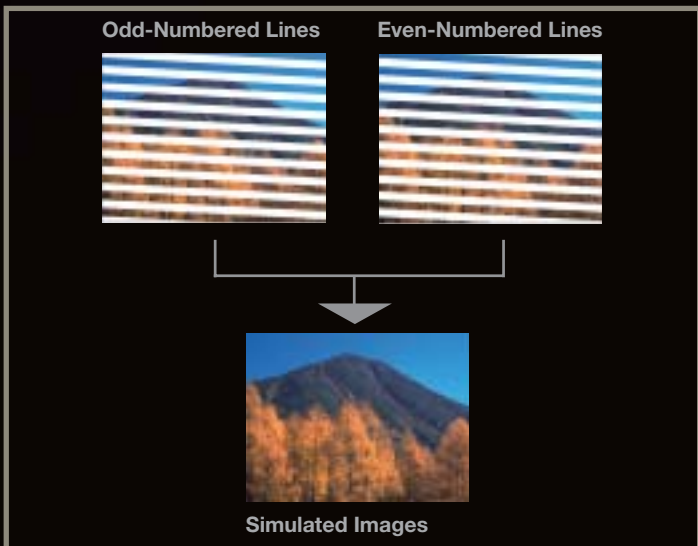


Well-defined colour and shape boundaries are produced as Y (brightness) and C (chroma) signals are separated with great accuracy by the 3D Digital Comb Filter.

DYNAMIC DIGITAL ENHANCER (DDE)

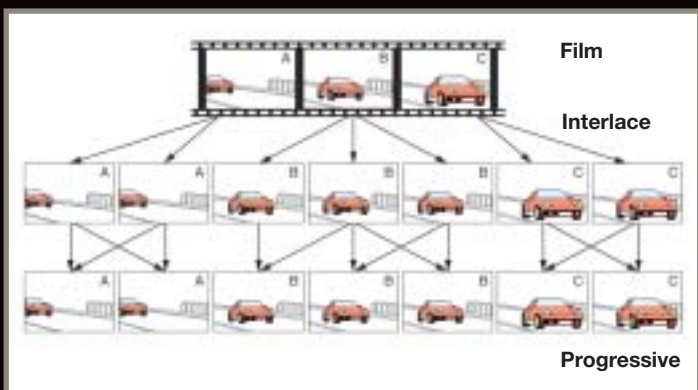
High-quality images with exceptional clarity are generated by this Sony's unique video-enhancing technology. Through the I/P (Interlace/Progressive) Conversion Processor:

• I/P conversion



Interlaced video sources are converted to project clear and sharp progressive images.

• 2-3 Pull Down



Film-originate sources converted by 2-3/2-2 pull down process are detected, and each frame is faithfully (accurately) reproduced.

AUTO INPUT SEARCH

The projectors automatically check the input connections and display images from the detected input when switched on.

* Default setting for Auto Input search is OFF.

SMART AUTO PIXEL ALIGNMENT (APA)

This function automatically adjusts the size and phase of the images for optimum performance, allowing users to concentrate on their presentations instead of time-consuming technical adjustments.

PICTURE AND AUDIO MUTING FUNCTION

To have the audience's attention focused on the presenter, projected image and audio can be muted from the Remote Commander. A black screen will be displayed on screen.

PICTURE FREEZE FUNCTION

To minimise disruptions during a presentation, this function freezes a current on-screen image to allow the presenter to make amendments or prepare next presentation.

OFF AND GO

The projectors have a cooling fan and built-in circuit that continues to run after the power is turned off. This allows users to power off from a circuit breaker switch on a switchboard, without having to wait for the projector to cool down.

* If the unit is on for 15 minutes or less, the cooling fan may stop due to insufficient charging.

** The built-in circuit may cause the cooling fan to continue operating for a short period of time after the power is turned off and on/standby indicator changes to red colour.

FUNCTIONAL REMOTE COMMANDER

Setting up the projector or changing settings are a breeze with the new Remote Commander. In addition, buttons for direct input selection does away with the need to toggle through the entire range of inputs to select the desired one. With the ID function built in the projectors, the Remote Commander can control up to 3 projectors individually.



SILENT OPERATION

At 28dB (standard lamp mode), the projectors allow for presentations with minimum disturbance from fan noise. This is attributed to a highly efficient cooling system based on the latest projector technology by Sony.

MULTI-LANGUAGE SUPPORT

The OSD supports up to 16 languages including English, Dutch, French, German, Italian, Spanish, Portuguese, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai and Arabic.

POWER SAVING IN STANDBY MODE

The projectors go into power saving mode if no input signal is detected for 10 minutes. In power saving mode, power consumption is reduced from 400W (Max.) to 0.5W (Low)

* "Standby mode" in OSD is set to "Low"

HIGH ALTITUDE MODE

This mode is for use in location with high altitude (1500-2600m/ 4900-8500 feet).

LAMP WATTAGE SELECTION

"High" or "Standard" lamp wattage can be selected.

SECURITY FEATURES

PASSWORD-AUTHENTICATION SYSTEM

Prevents unauthorised access of projector with a 4-digit projector specific password.

OPTIONAL SECURITY LOCK

Compatible with Kensington security cable for added security.

CONTROL PANEL KEY LOCK

Control panel at the side of the projector can be locked to prevent accidental or unauthorised operations.

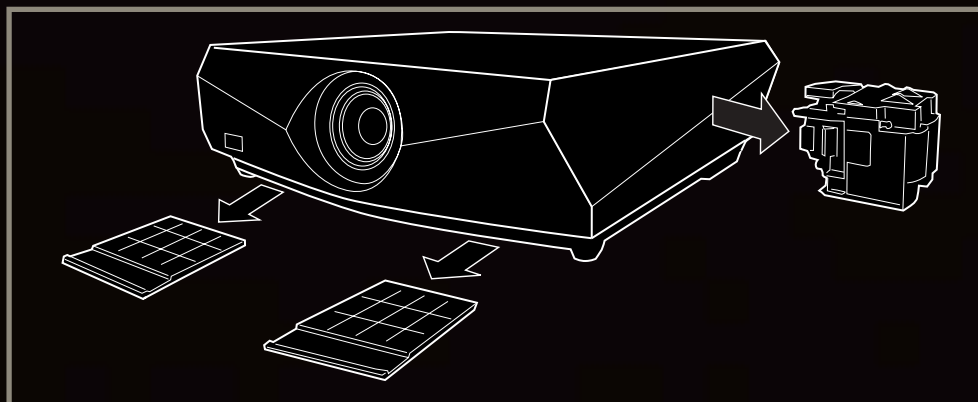
EASY MAINTENANCE

CONVENIENT LAMP REPLACEMENT AND FILTER CLEANING

A reminder message appears on screen when it is time to replace the lamp. The lamp is easily accessible from the side of the projector and the filters slide out from the front, making maintenance hassle-free without taking down the projector.

NETWORK NOTIFICATION AND MAINTENANCE

The projectors can be connected to a LAN with the RJ45 port and maintenance functions like checking projector current status, power on/off, can be performed remotely using a web browser. Automated email reports for lamp life, errors etc, to designated recipients for scheduled maintenance can be easily set up.





3LCD TECHNOLOGY

With a separate LCD Panel for each primary colour, you get bright, natural images that are easy on the eyes.

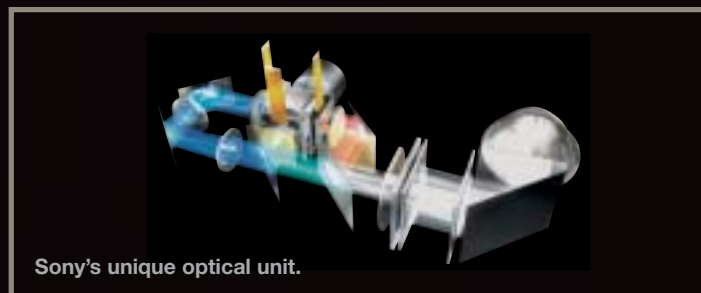
BRIGHT IMAGES

HIGH LIGHT EFFICIENCY AND EXCELLENT COLOUR REPRODUCTION

3LCD projectors separate white light from the projection lamp into red, green and blue primary colours. Each colour is shone through individual LCD panels (made of high-temperature polysilicon, known as HTPS) that give definition and movement to the projected image.

Light efficiency is excellent because the three primary colours are projected the whole time the projector is on. This ensures that users view an image that is both bright and sharp.

3LCD technology is designed to project bright, clear and vivid images. High light efficiency means the projector generates less heat and costs less to run.



NATURAL COLOUR REPRODUCTION

TRUE EXPRESSION OF COLOUR AND SMOOTH GRADATION IN DARK AREAS

With 3LCD technology, the three primary colours of red, green and blue are carefully controlled and recombined to give accurate colour reproduction.

This is possible because 3LCD technology allows true expression of intermediate colours so that viewers can enjoy lifelike and accurate reproduction of dark and shadowed areas.

3LCD projector colour reproduction range is wide, and primary colours are faithfully reproduced. Superior gray scale handling in dark areas enables more natural gradation.

VIVID IMAGES

Each of the primary colours are reproduced using dedicated LCD panels, hence 3LCD projectors show continuous images that do not suffer from colour breakup.

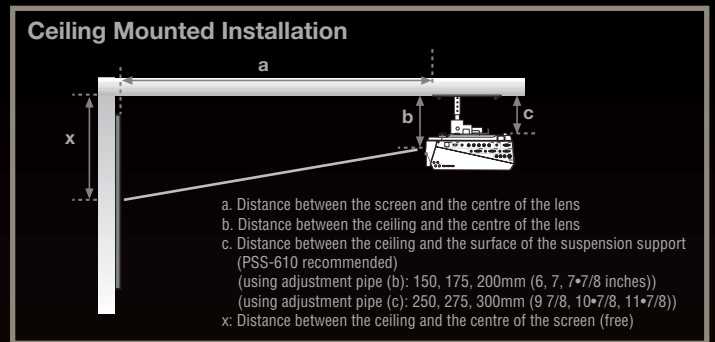
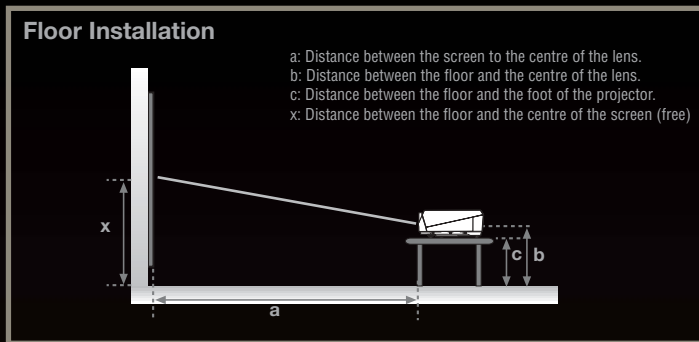
Colour break-up is a phenomenon sometimes associated with single-chip colour sequential projection systems. It's known as the 'rainbow effect', where moving images blur and separate into its three component colours around the edges.

With 3LCD technology, you get superb reproduction of moving images.



INSTALLATION DIAGRAMS

(When using the VPL-FE40 or VPL-FX40 with supplied lens)



FLOOR INSTALLATION

Screen size*		40	60	80	100	120	150	180	200	250	300	400	500	600
a	min	mm 1480	2260	3030	3810	4580	5740	6900	7680	9610	11550	15420	19290	23160
		inches 58.3/8	89	119.5/16	150.1/8	180.3/8	226.1/8	271.3/4	302.1/2	378.1/2	454.7/8	607.1/4	759.5/8	912
	max	mm 1900	2880	3860	4840	5820	7290	8760	9740	12190	14640	19540	24440	29350
		inches 74.7/8	113.1/2	152	190.5/8	229.1/4	287.1/8	345	383.5/8	480	576.1/2	769.1/2	962.3/8	1155.3/4
b	min	mm x-305	x-475	x-610	x-762	x-914	x-1143	x-1372	x-1524	x-1905	x-2286	x-3048	x-3810	x-4572
		inches x-12	x-18	x-24	x-30	x-36	x-45	x-54	x-60	x-75.1/8	x-90.1/8	x-120.1/8	x-150.1/8	x-180.1/8
	max	x												
		mm x-392	x-545	x-697	x-850	x-1002	x-1231	x-1459	x-1612	x-1993	x-2374	x-3136	x-3898	x-4660
c	min	mm x-15.1/2	x-21.1/2	x-27.1/2	x-33.1/2	x-39.1/2	x-48.1/2	x-57.1/2	x-63.1/2	x-78.1/2	x-93.1/2	x-123.1/2	x-153.1/2	x-183.1/2
		inches												
	max	x												
		mm	x-88											
	inches	x-3.1/2												

CEILING MOUNTED INSTALLATION

Screen size*		40	60	80	100	120	150	180	200	250	300	400	500	600
a	min	mm 1480	2260	3030	3810	4580	5740	6900	7680	9610	11550	15420	19290	23160
		inches 58.3/8	89	119.5/16	150.1/8	180.3/8	226.1/8	271.3/4	302.1/2	378.1/2	454.7/8	607.1/4	759.5/8	912
	max	mm 1900	2880	3860	4840	5820	7290	8760	9740	12190	14640	19540	24440	29350
		inches 74.7/8	113.1/2	152	190.5/8	229.1/4	287.1/8	345	383.5/8	480	576.1/2	769.1/2	962.3/8	1155.3/4
b	min	mm												
		inches												
	max	mm												
		inches												
x	min	mm												
		inches												
	max	mm c+390	c+542	c+695	c+847	c+999	c+1228	c+1457	c+1609	c+1990	c+2371	c+3133	c+3895	c+4657
		inches c+15.3/8	c+21.3/8	c+27.3/8	c+33.3/8	c+39.3/8	c+48.3/8	c+57.3/8	c+63.3/8	c+78.3/8	c+93.3/8	c+123.3/8	c+153.3/8	c+183.3/8

For both Floor and Ceiling Mount Installations, image can be shifted horizontally by +/- 10 percent of the screen width.
 * Viewable area, measured diagonally.

SPECIFICATIONS

	VPL-FE40	VPL-FE40L	VPL-FX40	VPL-FX40L
Optical				
Projection System	3 LCD panels, 1 lens projection system			
LCD panel	0.79-inch SXGA+ panel, 4,410,000 (1400 x 1050 x 3) pixels		0.79-inch XGA panel, 2,359,296 (1024 x 768 x 3) pixels	
Projection lens	1.3 times power zoom lens, f30.6 to 39.7mm, F1.66 to 2.18	Not supplied	1.3 times power zoom lens, f30.6 to 39.7mm, F1.66 to 2.18	Not supplied
Lamp	275W ultra high pressure Lamp			
Screen coverage	40 to 600 inches*	40 to 600 inches* (with VPLL-Z1024 or VPLLZ1032), 60 to 300 inches* (with VPLL-1008)	40 to 600 inches*	40 to 600 inches* (with VPLL-Z1024 or VPLLZ1032), 60 to 300 inches* (with VPLL-1008)
Light output	4000 ANSI lumens (lamp mode high), 3200 ANSI lumens (lamp mode standard)			
Signals				
Colour system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/manually selected)			
Resolution	Video: 750 TV lines, RGB: 1400 x 1050 pixels		Video: 750 TV lines, RGB: 1024 x 768 pixels	
Acceptable computer signals	fH: 19 to 92KHz, fV: 48 to 92Hz (up to UXGA (fv 60Hz))			
Acceptable video signals	15k RGB 50/60Hz, Progressive Component 50/60Hz, DTV (480/60i, 575/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p), Composite Video, Y/C video			
Speakers	1.8W x 2 (stereo)			
General				
Dimensions (W x H x D)	532 x 145 x 352mm (21 x 5 3/4 x 13 7/8 inches)			
Mass	Approx. 9.8kg (21lbs 10oz)	Approx. 9.0kg (19lbs 13oz)	Approx. 9.8kg (21lbs 10oz)	Approx. 9.0kg (19lbs 13oz)
Power requirements	AC 100 to 240V, 4.1 - 1.7A, 50/60Hz			
Power consumption	Max. 400W, Standby 15W, Standby (low) 0.5W			
Heat dissipation	1365 BTU			
Operating temperature	0 to 35°C (32 to 95°F)			
Operating humidity	35 to 85% (no condensation)			
Storage temperature	-20 to 60°C (-4 to 140°F)			
Storage humidity	10 to 90%			
Inputs/Outputs				
VIDEO IN Video	Composite Video (RCA phono jack)			
S Video	Y/C Mini DIN 4-pin			
Audio	Stereo (RCA phono jack x2)			
INPUT A Analog RGB	HD D-sub 15-pin (female)			
Audio	Stereo mini jack			
INPUT B Analog RGB	HD D-sub 15-pin (female)			
Audio	Stereo mini jack			
INPUT C Analog RGB/Component	BNC x5 (female)			
Audio	Stereo mini jack			
INPUT D Digital RGB/Audio	HDMI (HDCP)			
INPUT E Network	RJ45: 100BASE-TX/10BASE-T			
OUTPUT Monitor out	HD D-sub 15-pin			
Audio	Stereo mini jack (variable out)			
REMOTE Control S IN	RS-232C: D-sub 9-pin (female) Stereo mini jack (plug-in-power)			
Supplied accessories				
Remote Commander Unit				
Size AA (R6) batteries (x2)				
Lens cap		Lens hole cover		Lens cap
AC power cord				
Operating Instructions and Application Software (CD-ROM)				
Quick Reference Manual				
Safety Regulations				
Security Label				
Warranty Card				

* Viewable area measured diagonally

Preset Signals

No.	Preset Signal	fH (kHz)	fV (Hz)	Sync	Size	
1	Video 60Hz	15.734	59.940	-	-	
2	Video 50Hz	15.625	50.000	-	-	
3	480/60i	15.734	59.940	S on G/Y	-	
4	575/50i	15.623	50.000	S on G/Y	-	
5	480/60p	31.470	60.000	S on G/Y	-	
6	575/50p	31.250	50.000	S on G/Y	-	
7	1080/60i	33.750	60.000	S on G/Y	-	
8	1080/50i	28.130	50.000	S on G/Y	-	
10	720/60p	45.000	60.000	S on G/Y	-	
11	720/50p	37.500	50.000	S on G/Y	-	
12	1080/60p	67.500	60.000	S on G/Y	-	
13	1080/50p	56.250	50.000	S on G/Y	-	
21	640 x 350	31.469	70.086	H-pos, V-neg	800	
22	VESA 85 (VGA350)	37.861	85.080	H-pos, V-neg	832	
23	640 x 400	24.823	56.416	H-neg, V-neg	848	
24	VGA Mode 2	31.469	70.086	H-neg, V-pos	800	
25	VESA 85 (VGA400)	37.861	85.080	H-neg, V-pos	832	
26	640 x 480	31.469	59.940	H-neg, V-neg	800	
27	Mac 13	35.000	66.667	H-neg, V-neg	864	
28	VESA 72	37.861	72.809	H-neg, V-neg	832	
29	VESA 75 (IBM M3)	37.500	75.000	H-neg, V-neg	840	
30	VESA 85	43.269	85.008	H-neg, V-neg	832	
31	800 x 600	35.156	56.250	H-pos, V-pos	1024	
32	VESA 60	37.879	60.317	H-pos, V-pos	1056	
33	VESA 72	48.077	72.188	H-pos, V-pos	1040	
34	VESA 75 (IBM M5)	46.875	75.000	H-pos, V-pos	1056	
35	VESA 85	53.674	85.061	H-pos, V-pos	1048	
36	832 x 624	49.724	74.550	H-neg, V-neg	1152	
37	1024 x 768	VESA 60	48.363	60.004	H-neg, V-neg	1344
38	VESA 70	56.476	70.069	H-neg, V-neg	1328	
39	VESA 75	60.023	75.029	H-pos, V-pos	1312	
40	VESA 85	68.677	84.997	H-pos, V-pos	1376	
45	1280 x 960	VESA 60	60.000	60.000	H-pos, V-pos	1800
46	VESA 75	75.000	75.000	H-pos, V-pos	1728	
47	1280 x 1024	VESA 60	63.974	60.013	H-pos, V-pos	1696
48	SXGA VESA 75	79.976	75.025	H-pos, V-pos	1688	
49	SXGA VESA 85	91.146	85.024	H-pos, V-pos	1476	
50	1400 x 1050	SXGA+	65.317	59.978	H-neg, V-pos	1864
51	1600 x 1200	UXGA VESA 60	75.000	60.000	H-pos, V-pos	2100
55	1280 x 768	1280 x 768/60	47.776	59.870	H-neg, V-pos	1664
56	1280 x 720	1280 x 720/60	44.772	59.855	H-neg, V-pos	1664

• Preset signal Nos. 1-2, 21-25, 27-31, 33-35, 38-40, 46, 48-49, and 56 are analog only.
 • Preset signal Nos. 12 and 13 are digital only.
 • Images may not be reproduced correctly when signals other than those listed above are input.
 Contact your local Sony sales office for more information regarding signals not listed.

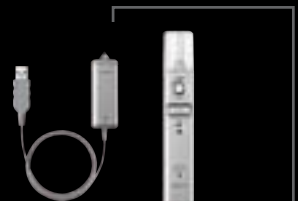
Optional Accessories

Projector Lamp (For Replacement)



LMP-F270

Presentation Tool Kit



RM-PJPK1

Suspension Support



PSS-610



Lead-free solder is used for soldering all parts including circuit component electrodes.
 Halogenated flame retardants are not used in cabinets.
 Polystyrene foam for the packaging cushions is not used in packaging.

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