

### Bright, Stylish, and Easy to Use – The Affordable VPL-EX4 and VPL-ES4 Data Projectors Are Excellent Choices for Both Education and Business

Both the Sony VPL-EX4 and VPL-ES4 are extremely affordable data projectors that are ideal for a number of applications, especially in education and for businesses. These projectors are not only stylish but also provide a brightness of 2100 lm (VPL-EX4) and 2200 lm (VPL-ES4). Capable of projecting high-quality images, the VPL-EX4 offers native XGA resolution while the VPL-ES4 offers SVGA resolution. Both the VPL-EX4 and VPL-ES4 come equipped with a short focal-length lens enabling large screen projections from a very short distance. And the supplied card-type Remote Commander™ unit enables quick and effective control of the projector.

Because these projectors were designed primarily for education and business, they are very quiet, include security features such as a password authentication system and a security bar, and include a variety of interfaces such as a monitor output, audio output, and RS-232C for control. All of these features combine to make the VPL-EX4 and VPL-ES4 ideal for both classrooms and conference rooms.

# VPL-EX4 VPL-ES4



\* The VPL-ES4 is available in both black and white.

## FEATURES

### High Picture Quality and Bright Images

The VPL-EX4 and VPL-ES4 incorporate three high aperture 0.63-inch LCD Panels, offering native XGA (1024 x 768) and SVGA (800 x 600) resolution, respectively. A brightness level of 2100 (VPL-EX4) and 2200 (VPL-ES4) lumens is achieved resulting from the combination of a highly efficient optical system and a 165W lamp.

### 3LCD Projection System

Because the VPL-EX4 and VPL-ES4 use a 3LCD projection system, projected images are bright and natural. 3LCD is a projection system using three LCD panels (also known as high-temperature polysilicon or HTPS). This system provides high light transmission and excellent color reproduction. It also provides smooth gradients in dark areas, and even helps prevent color breakup.



### Short Projection Distance

The VPL-EX4 and VPL-ES4 come equipped with a short focal-length lens, which makes it possible to project images from a short distance. For example, an 80-inch image\*<sup>1</sup> can be projected from a distance of approximately 2.3 meters (7-1/2 feet).

### Quiet Operation (Low Fan Noise)

Both the VPL-EX4 and VPL-ES4 have a very low fan noise allowing audiences to concentrate on the speaker during presentations.

### Quick Start

Approximately four seconds\*<sup>2</sup> after power is applied to the VPL-EX4 and VPL-ES4, the projector's "start up image" is displayed and your presentation appears shortly thereafter.

### High-Security (Control Panel Key Lock, Password Authentication System, Security Bar, and Kensington Lock)

Both the VPL-EX4 and VPL-ES4 have a control panel key lock and a password authentication system to help prevent unauthorized use of the projector. Also, a built-in security bar or Kensington™ lock can be used to help prevent theft.

### Useful Remote Commander Unit

The supplied card-type Remote Commander unit can be used to adjust the VPL-EX4 and VPL-ES4 projector settings such as digital zoom and audio volume or to activate APA, picture muting, and picture freeze functions. Also, because IR receivers are located on both the front and rear of the projector, the Remote Commander unit is effective from almost anywhere in the room.

### Input Flexibility (Multiscan Converter)

The VPL-EX4 and VPL-ES4 accept a wide variety of video input signals from standard definition (SD) to high definition (HD), including composite, S-Video (Y/C), and analog RGB/component via the HD D-sub 15 pin interfaces.\*<sup>3</sup> In addition, the unit can accept computer signals from VGA up to SXGA+ (1400 x 1050).

### Other Features

- Monitor Output
- Digital Zoom Function (Up to 4x)
- Image Freeze Function
- Seven Picture Modes
- Dynamic Detail Enhancer (DDE) for Video Signals
- Smart APA (Auto Pixel Alignment)
- Vertical Keystone Adjustment
- Multi Language OSD
- RS-232C Control
- Audio Output
- Ceiling Mount Design\*<sup>4</sup>

\*<sup>1</sup> Viewable area measured diagonally.

\*<sup>2</sup> The startup time may vary depending lamp condition.

\*<sup>3</sup> The VPL-ES4 has one D-sub 15 pin interface supporting both RGB and component signals. The VPL-EX4 has two D-sub 15 pin interfaces; however, only one supports both RGB and component signals, while the other supports RGB only.

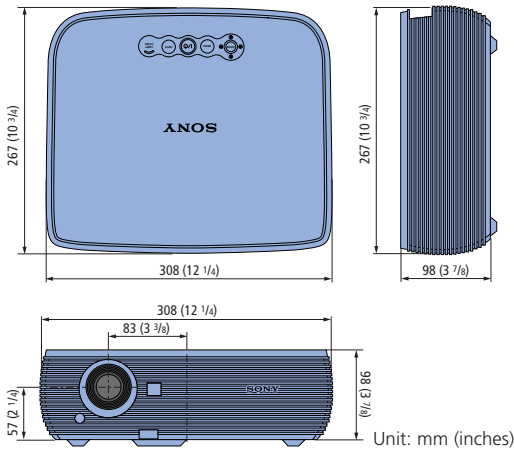
\*<sup>4</sup> Requires an optional ceiling mount kit. Please contact your local Sony sales office for details.

# SPECIFICATIONS

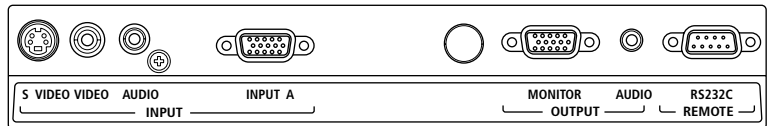
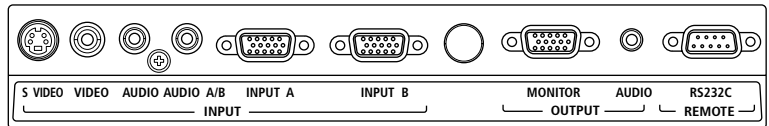
	VPL-EX4	VPL-ES4
<b>Optical</b>		
Projection System	3 LCD panels, 1 lens projection system	
Panel	0.63-inch TFT LCD 2,359,296 pixels (786,432 pixels x 3)	0.63-inch TFT LCD 1,440,000 pixels (480,000 pixels x 3)
Projection lens	1.2 times zoom lens, f18.9 to 22.7 mm, F1.6 to 1.90	1.2 times zoom lens, f18.8 to 22.6 mm, F1.6 to 1.94
Light Output	2100 lm (lamp mode high), Approximately 1500 lm (lamp mode standard)	2200 lm (lamp mode high), Approximately 1500 lm (lamp mode standard)
Lamp	165 W Ultra high-pressure lamp	
Screen Coverage	40" to 300" (viewable area measured diagonally)	
Throwing Distance	40-inch 1.2 to 1.4 m (3.9 to 4.6 feet)	
	80-inch 2.3 to 2.8 m (7.5 to 9.2 feet)	
	100-inch 2.9 to 3.6 m (9.5 to 11.8 feet)	
	150-inch 4.4 to 5.4 m (14.4 to 17.7 feet)	
	200-inch 5.9 to 7.2 m (19.4 to 23.6 feet)	
	250-inch 7.3 to 9.0 m (24.0 to 29.5 feet)	
	300-inch 8.8 to 10.7 m (28.9 to 35.1 feet)	
<b>Signal</b>		
Color System	NTSC <sub>3.58</sub> , PAL, SECAM, NTSC <sub>4.43</sub> , PAL-M, PAL-N, PAL60 (automatically/manually selected)	
Resolution	Video 750 TV lines	500 TV lines
	RGB 1024 x 768	800 x 600
Acceptable Input Signals	Computer fh: 19-92kHz, fv: 48-92Hz (up to SXGA+ 60Hz)	
	Video 15kHz RGB/Component 50/60Hz, Progressive Component 50/60Hz DTV (480/60i, 575/50i, 1080/60i, 480/60p, 575/50p, 1080/50i, 720/60p, 720/50p) Composite video, Y/C video	

	VPL-EX4	VPL-ES4
<b>Speaker</b>		
Speaker	Mono 1 W (max.) x1	
<b>Inputs/Outputs</b>		
Input	RGB/Component	Analog RGB, HD D-sub 15 pin x1 (Input A)
	RGB	Analog RGB, HD D-sub 15 pin x1 (Input B)
	S-Video	Mini DIN 4pin x1
	Composite	RCA pin x1
	Audio	Mono (stereo mini jack x2) Mono (stereo mini jack x1)
Output	RGB	HD D-sub 15 pin x1
	Audio (variable out)	Stereo mini jack x1
Remote In/Out	RS-232C	D sub 9-pin
<b>General</b>		
Power Requirements	AC 100 to 240V, 50/60 Hz	
Power	Max	220 W
Consumption	Standby	5 W
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% (no condensation)	
Dimension (W x H x D)	308 x 98 x 267 mm (12 1/4 x 3 7/8 x 10 5/8 inches), excl. projections	
Mass	Approx. 3 kg (6 lb 10 oz)	
Heat Dissipation	750.7 BTU	
Picture Modes	Dynamic/Standard/Natural/Game/Living (room)/Cinema/Presentation	
Supplied Accessories	Remote Commander Unit (RM-PJ4), Lithium battery CR2025, HD D-sub 15 pin cable 1.8m, Soft carrying case, AC Power cord, Operating Instructions (CD-ROM), Quick reference manual, Safety regulation booklet, Security label, Warranty card	

## DIMENSIONS



## CONNECTOR PANEL



## OPTIONAL ACCESSORY



**LMP-C162**  
Projector Lamp (for replacement)



Halogenated flame retardants are not used in cabinets or printed wiring boards.

## CONTROL PANEL

