

SONY®

Data Projector

VPL-ES1



FEATURES

A High-Brightness Projection System Packed in a Stylish and Compact Body – The Economical Choice for Impressive Mobile Presentations

The VPL-ES1 is a cost-effective projection system, offered as a new player in Sony's line of Ultracompact Projectors. It achieves a high brightness of 1500 ANSI lumens* and a native SVGA resolution (800 x 600) by use of a newly developed 0.62-inch LCD panel. The design of the VPL-ES1 also puts maximum emphasis on simple operation. At the touch of the power button, the Intelligent Auto Setup Function sets up the projector in an instant, allowing presenters to immediately get started at any customer site. And with a smart appearance, the VPL-ES1 will ultimately match any business style.



* ANSI lumen is a standard measuring method of the American National Standards Institute IT7.228. Since there is no uniform method of measuring brightness, specifications will vary among manufacturers.

High Brightness and High Resolution

The VPL-ES1 employs a new 0.62-inch, super-bright LCD panel that offers native SVGA (800 x 600) resolution. This advanced LCD panel, combined with Sony original optical technology and a bright 185 W elliptic reflector lamp, allows the VPL-ES1 to achieve a high brightness of 1500 ANSI lumens. Brilliant images are projected from the ultracompact body for impressive presentations.

Short Throwing Distance (100 inch @ 9.5 feet)

The VPL-ES1 comes equipped with a short focal-length lens with a focal length of 18.0-21.6mm. This enables a large screen size from a very short throwing distance. A 100-inch projection size (viewable area, measured diagonally) is achieved at a throwing distance of only 9.5 feet. This capability becomes an invaluable feature when room space is limited but presentations must still be dynamic.

Ultra Compact and Light Weight

Compact in size and merely 6 lbs., 3 oz. (2.8 kg) in weight, the VPL-ES1 can be carried anywhere with its supplied soft case.

Flat and Simple Design

To achieve a clean and simple design, only a few buttons and connectors are located on the top and sides of the projector. Connectors that are not frequently used are concealed with a cover. Therefore, the VPL-ES1 will keep a smart appearance even while being used.



Intelligent Auto Setup Function

Intelligent Auto Setup allows presentations to be started immediately. As soon as the power is turned on, the projector initiates a host of sophisticated setup functions.

Powered Lens Protector

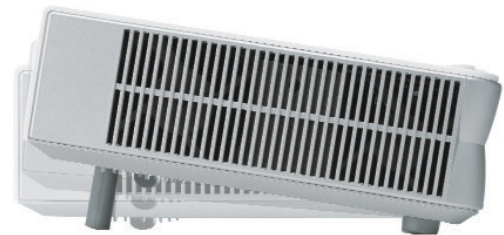
When power is switched on, the powered lens protector opens automatically. No more wasted time looking for a missing lens cover; it's always on the projector.



Powered lens protector

Powered Tilt Adjuster and Auto Keystone Correction

The shooting angle can be set with the power-operated tilt adjuster. The tilt angle is adjustable from the supplied Remote Commander® unit and the new setting is retained in memory, which can be instantly recalled the next time the projector is used. Vertical keystone distortion is automatically corrected according to the tilt angle. Keystone distortion can be corrected up to 15 degrees. This means images can be projected with correct geometry even where installation space is limited.



Powered tilt adjuster

Auto Input Search

The VPL-ES1 automatically checks the projector's input connectors and selects the one to which an input signal is supplied. Images are projected instantly from the moment the power is turned on.



Auto keystone

Smart APA (Auto Pixel Alignment)

The Smart APA function automatically sizes and adjusts PC image displays for optimum picture performance – allowing users to concentrate on their presentations, rather than time-consuming technical adjustments.

Adjustable Rear Legs

The VPL-ES1 is equipped with adjustable rear legs that enable manual fine adjustment of the projector's shooting angle.

Monitor Output

A projected image can be monitored during a presentation. By connecting a small PC monitor placed on a podium or wherever desired, presenters can face their audience during a presentation for a fluid and professional delivery.

Useful Remote Commander Unit RM-PJ2 (supplied)

The VPL-ES1 is supplied with a card-type Remote Commander unit. This Remote Commander unit is equipped with keys to control multiple functions, quickly and easily, providing the convenience required for smooth presentations. The IR receiver is located on the rear side of the projector.



RM-PJ2

Digital Zoom Function

Up to 4x digital zoom is available which can be controlled via the supplied Remote Commander unit. One section of the projected image can be zoomed in to show details of the image.

Freeze Function

The VPL-ES1 can freeze a picture when a signal from a PC is input. During the picture freeze, the presenter can operate the PC for setting up the next presentation file or images.

Various Inputs (Multiscan Converter)

The VPL-ES1 comes equipped with a scan converter to accept a wide variety of input signals – both computer images and video. For computer images, the VPL-ES1 supports signals ranging from VGA up to XGA (1024 x 768), with horizontal frequencies of 19 to 72 kHz and vertical frequencies of 48 to 92 Hz. For video, it accepts component and composite signals, in addition to S-Video and RGB signals. Input signals with a variety of scanning lines, as well as interlace and progressive modes, are supported.

Password Authentication System (Security Lock)

Once a user sets a password, the projector cannot be used without it. This function prevents unauthorized use of the projector.

On-Screen Display

The On-Screen Display for projector control is available in thirteen languages: English, Dutch, French, Italian, German, Spanish, Portuguese, Russian, Swedish, Norwegian, Japanese, Chinese, and Korean. Its position and color can be altered, depending on user preferences.

Ceiling Mounting

The VPL-ES1 can be ceiling mounted. Screw holes on the bottom plate are provided to use a suspension-type bracket*. When using this bracket type, maintenance procedures such as replacing the lamp and cleaning the filter are easily achieved by opening the bottom plate without removing the metal fittings.

Accepts HDTV Signals

HDTV signals including 1080/60i, 480/60p, 575/50p, 1080/50i, 720/50p, 540/60p are accepted by the VPL-ES1.

*For details, please contact your nearest Sony office or authorized Sony dealer.

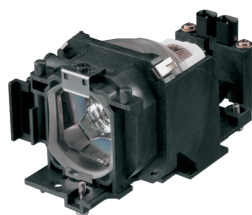
PRESET DATA OF INPUT SIGNALS

Memory No.	Preset signal		fH (kHz)	fV (kHz)	Sync.
1	Video 60 Hz	60 Hz	15.734	59.940	
2	Video 50 Hz	50 Hz	15.625	50.000	
3	RGB/Component 60 Hz	480/60 i	15.734	59.940	S on G/Y or Composite sync
4	RGB/Component 50 Hz	575/50 i	15.625	50.000	S on G/Y or Composite sync
5	1080/60 i		33.750	60.000	S on G/Y or Composite sync
6	640 x 350	VGA mode1	31.469	70.086	H-pos, V-neg
7		VGA VESA 85Hz	37.861	85.080	H-pos, V-neg
8	640 x 400	PC-9801 Normal	24.823	56.416	H-neg, V-neg
9		VGA mode 2	31.469	70.086	H-neg, V-pos
10		VGA VESA 85 Hz	37.861	85.080	H-neg, V-pos
11	640 x 480	VGA mode 3	31.469	59.940	H-neg, V-neg
12		Macintosh 13"	35.000	66.667	H-neg, V-neg
13		VGA VESA 72 Hz	37.861	72.809	H-neg, V-neg
14		VGA VESA 75 Hz	37.500	75.000	H-neg, V-neg
15		VGA VESA 85 Hz	43.269	85.008	H-neg, V-neg
16	800 x 600	SVGA VESA 56 Hz	35.156	56.250	H-pos, V-pos
17		SVGA VESA 60 Hz	37.879	60.317	H-pos, V-pos
18		SVGA VESA 72 Hz	48.077	72.188	H-pos, V-pos
19		SVGA VESA 75 Hz	46.875	75.000	H-pos, V-pos
20		SVGA VESA 85 Hz	53.674	85.061	H-pos, V-pos
21	832 x 624	Macintosh 16"	49.724	74.550	H-neg, V-neg
*22	1024 x 768	XGA VESA 43 Hz	35.524	86.958	H-pos, V-pos
23		XGA VESA 60 Hz	48.363	60.004	H-neg, V-neg
24		XGA VESA 70 Hz	56.476	69.955	H-neg, V-neg
25		XGA VESA 75 Hz	60.023	75.029	H-pos, V-pos
26		XGA VESA 85 Hz	68.677	84.997	H-pos, V-pos
43	480/60 p		31.470	60.000	S on G
44	575/50 p		31.250	50.000	S on G
45	1080/50 i		28.130	50.000	
47	720/60 p		45.000	60.000	
48	720/50 p		37.500	50.000	
50	540/60 p		33.750	60.000	

*Memory number 22 accepts the signal as an interlace signal.

Contact your local Sony sales office for more information when inputting a signal not listed in the above chart.

OPTIONAL ACCESSORIES



LMP-E180

LMP-E180

Projector Lamp (replacement)

SMF-402

Signal Cable
(HD D-sub 15-pin to phono x 3,
for component signal)

SPECIFICATIONS

Optical

Projection System	3 LCD panels, 1 lens projection system	
Panel	Super high aperture 0.62-inch TFT LCD 1,440,000 pixels (480,000 pixels x 3)	
Projection lens	1.2 times F2.2 to 2.4 f18.0 to 21.6mm	
Lamp	185W UHP	
Screen coverage	40" to 150" (measured diagonally)	
Light Output	1500ANSI lm (lamp mode high) (Standard: Approx. 1300 ANSI lm)	
Throwing Distance	40-inch	: 1.1 to 1.4 m (3.6 to 4.6 feet)
	60-inch	: 1.7 to 2.1 m (5.6 to 6.9 feet)
	80-inch	: 2.3 to 2.8 m (7.5 to 9.2 feet)
	100-inch	: 2.9 to 3.5 m (9.5 to 11.5 feet)
	120-inch	: 3.5 to 4.2 m (11.5 to 13.8 feet)
	150-inch	: 4.4 to 5.3 m (14.4 to 17.4 feet)

Signals

Color System	NTSC _{3.58} , PAL, SECAM, NTSC _{4.43} , PAL-M, PAL-N	
Resolution	Video	600TV lines
	RGB	800 x 600
Acceptable Signals	Computer	fH: 19-72 kHz, fV: 48-92 Hz (up to XGA (fV: 85 Hz))
	Video	RGB/Component 50/60 Hz, Composite video, Y/C video, 480/60i, 575/50i HDTV: 1080/60i, 480/60p, 575/50p, 1080/50i, 720/60p, 720/50p, 540/60p

General

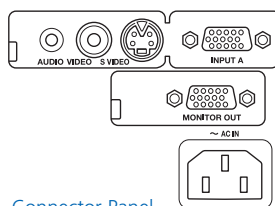
Speaker	Mono 1 W (max.) x 1	
Power Requirements	AC 100 to 240 V, 50/60 Hz	
Power Consumption	Max	250 W
	Standby	4.6 W
Operating Temperature	0 to 35 degrees Celsius (32 to 95 F)	
Operating Humidity	35% to 85% (no condensation)	
Dimension (WxHxD)	mm	295 x 78 x 238
	inch	11 5/8 x 3 1/8 x 9 3/8
Weight	kg	Approx. 2.8 kg
	lb	Approx. 6 lbs., 3 oz.
Heat Dissipation	853.1BTU	

INPUT/OUTPUT

Input	RGB/Component	Analog RGB (HD D-sub 15 pin x 1)
	S-Video	S-Video (Mini DIN 4pin x 1)
	Composite	Composite video (RCA pin x 1)
	Audio	mono (stereo mini x 1)
Output	Analog RGB (HD D-sub 15 pin x 1)	
Safety Regulations	UL60950, cUL (CSA No.60950), FCC Class B, IC Class B, NEMCO (EN60950), CE (LVD, EMC), C-Tick	
Supplied Accessories	Remote Commander (RM-PJ2), Lithium battery, HD D-sub 15 pin cable, Soft case, Air filter, Operating Instructions, Quick reference sheet, Security label	



Control Panel



Connector Panel



- Halogenated flame retardants are not used in cabinets.
- Halogenated flame retardants are not used in printed wiring boards.
- Lead-free solder is used for soldering.
- Polystyrene foam for the packaging cushions is not used in packaging.

SONY

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