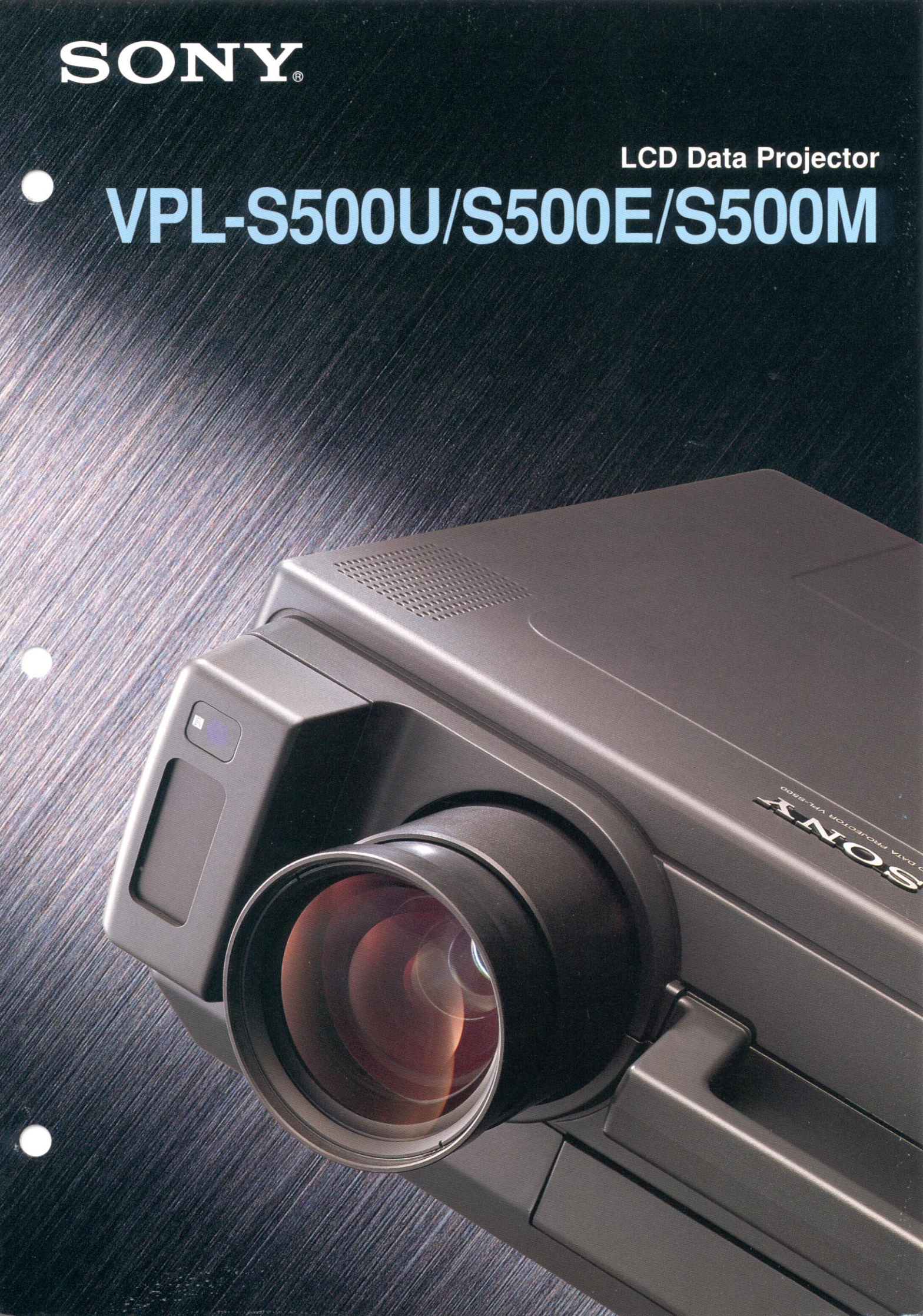
SONY

LCD Data Projector

VPL-S500U/S500E/S500M

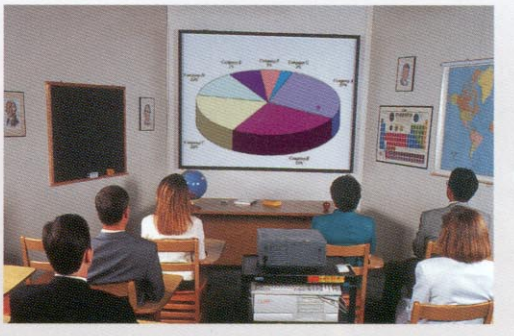


Sony presents to you...

In today's world, it is easy to create an impactful and colorful presentation full of charts, graphics, video clips and animations. To deliver these effective and interesting presentations, you need a display device that is compact, portable, reliable and easy to use. Sony presents such a product, the VPL-S500* LCD Data Projector. It can be conveniently used in either desk top mounted or ceiling mounted configuration. This makes it the ideal display for a wide variety of applications such as business and education.



As computers play an increasingly important role in the creation and presentation of multimedia material, this projector has the ability to reproduce SVGA (800x600) signals at true resolution, while advanced compression techniques are used to display XGA (1024x768) signals with outstanding quality. The VPL-S500 LCD Data Projector is engineered by Sony for reliability and long life. It is easy to operate; simply plug it into a computer with the supplied lead, provide power - and make you presentation.



It is the perfect way to present information with high impact to audiences large and small.



** The VPL-S500 is available in three different models; the VPL-S500E for Europe, the VPL-S500M for countries other than Europe operating at AC220 to 240V, the VPL-S500U for countries operating at AC100 to 120V.*

Superior Picture Performance

High Brightness

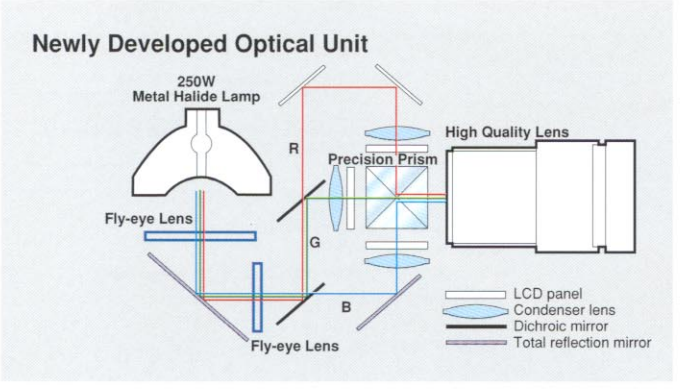
A newly developed optical unit and a 250W DC drive metal halide lamp combine to give brilliance of image, a level of performance that is maintained throughout the long operating life of the lamp. This advanced optical technology gives the high light output of 450 ANSI lumens, allowing images to be effectively displayed in meeting rooms and classrooms even in ambient light, making it easier for an audience to take notes and follow individual texts, workbooks, or reports.

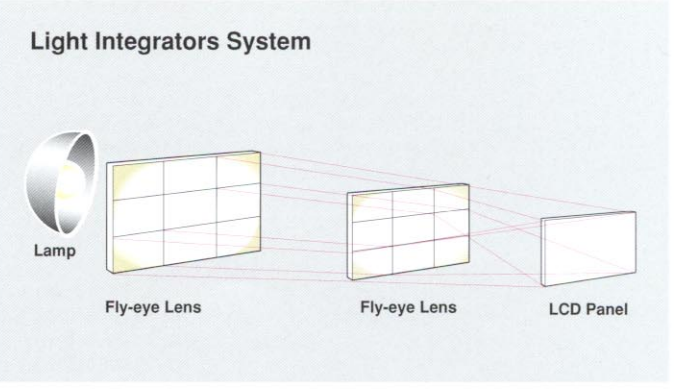
High Resolution

The VPL-S500 offers a high resolution of 832x624 pixels for RGB input and also provides a high resolution of 600TV lines for composite video.

Excellent Uniformity

With an innovative optical system featuring light integrators, precision prism block assembly, and a high quality lens, the VPL-S500 Projector creates uniform image color and brightness from screen corner to corner.



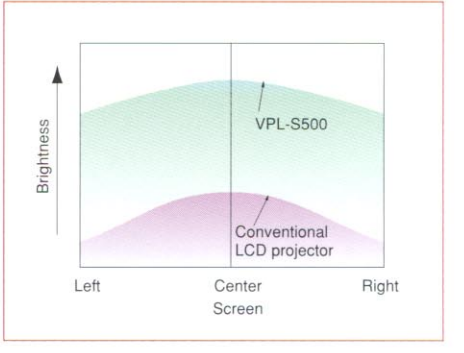




250W Metal Halide Lamp



1.3-inch p-Si TFT LCD Panel



Convenient Portability

Lightweight, Compact Design

The VPL-S500 is compact and light in weight, and can be easily transported anywhere. The supplied joystick-type wireless RM-PJM500 Remote Commander can be installed in the remote commander pocket of the VPL-S500 and carried along with the projector.



Easy Operation

Easy Setup

The VPL-S500 is designed for simple, effective presentations and, as such, does not require complicated hook up or setup. Using the supplied cable, it accepts video soures as well as computer input signals from VGA to XGA sources. No complex adjustments are required. The VPL-S500 automatically recognizes the input signal and selects the appropriate data display mode, including dot phase, horizontal size and shift.

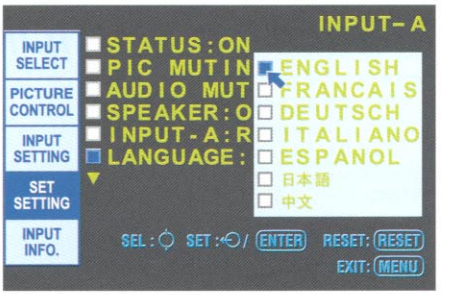
Remote Control Capability

The control panel of the projector and the supplied joystick-type wireless RM-PJM500 Remote Commander control all adjustments and operation of the VPL-S500. When the RM-PJ21 Mouse Receiver is connected to a computer, the RM-PJM500 can operate the computer remotely. This functions allows the presenter to be free of the computer mouse and keyboard. The presenter can concentrate on the presentation, not the changing of slides.



On-screen Display

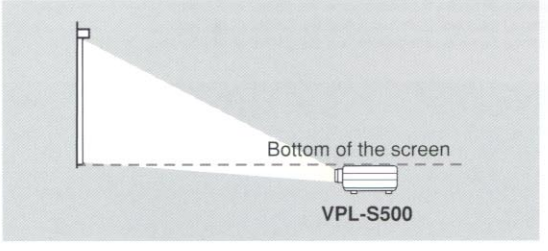
The on-screen menu display shows the status of all major operational functions and adjustments. This display makes it easy to follow adjustments as they are performed. The on-screen menu also allows the operator to select any one of seven languages: English, French, German, Italian, Spanish, Japanese and Chinese.



Other

Installation Position

The VPL-S500 features an optical design which allows the projector to be installed below the screen. This means that the projector can be positioned so it does not intrude into the audience's view of the screen.



Height Adjuster Function

To easily adjust the projected picture to the required position, the VPL-S500 has a height adjuster function on its front and rear sides.

Power Saving Function

When the projector is in power saving mode and it has not received an input or sync signal for more than 10 minutes, power consumption is automatically reduced.

Stereo Audio System

The built-in stereo audio system provides dynamic sound.

Optional Accessories



Signal interface cable
SIC-20A/20B/20C
- Analog RGB
- D-sub 9-pin (female) — D-sub 15-pin (female) / D-sub 15-pin (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

SIC-21
- Analog RGB
- D-sub 9-pin (female) — D-sub 9-pin (female) / D-sub 9-pin (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

SIC-22
- Analog RGB with digital sync
- D-sub 9-pin (female) — D-sub 15-pin High density (female) / D-sub 15-pin High density (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)



Projector lens
VPLL-FM30
- Fixed short focus lens
- f 37mm / F 3.5
- Screen coverage: 40 to 290 inches
- Throwing distance: 100 inches: 2790mm / 200 inches: 5640mm



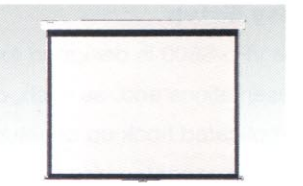
Projector lens
VPLL-ZM100
- 2 times zoom long focus lens
- f 72.3 to 141.0mm / F 3.0 to 4.6
- Screen coverage: 80 to 300 inches
- Throwing distance: 100 inches: 5500 to 10430mm / 200 inches: 11150 to 20880mm



Signal adapter
(HD D-sub 15-pin to D-sub 9-pin for SIC cable)
ADP-10



Suspension support
PSS-500



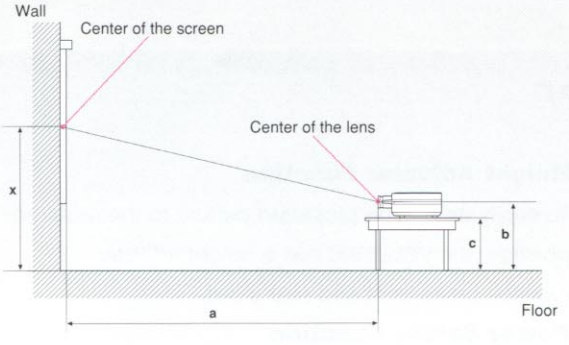
100-inch flat screen **VPS-100FH**
120-inch flat screen **VPS-120FH**



Carrying case
VLC-500

Installation Examples

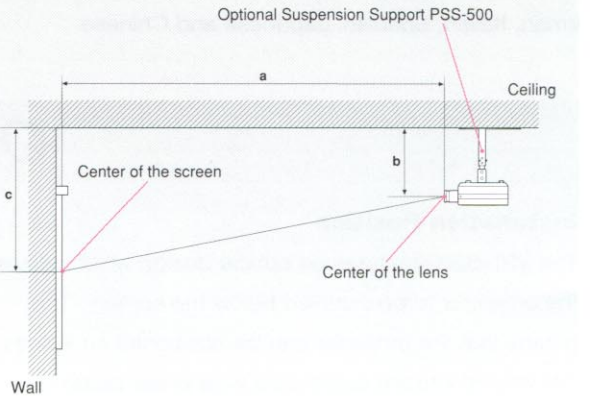
Floor Installation
Unit: mm (inches)



a: Distance between the screen and the center of the lens
b: Distance from the floor to the center of the lens
c: Distance from the floor to the foot of the projector
x: free

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1470 (57 7/8)	2260 (89)	3040 (119 3/4)	3820 (150 1/2)	4600 (181 1/8)	5770 (227 1/4)	6950 (273 5/8)	7730 (304 3/8)	9680 (381 1/8)	11640 (458 3/8)
	Maximum	2190 (86 1/4)	3320 (130 3/4)	4450 (175 1/4)	5580 (219 3/4)	6720 (264 5/8)	8420 (331 1/2)	10120 (398 1/2)	11250 (443)	14080 (554 3/8)	16910 (665 3/4)
b		x–336 (13 1/4)	x–504 (19 7/8)	x–672 (26 1/2)	x–840 (33 1/8)	x–1008 (39 3/4)	x–1260 (49 5/8)	x–1511 (59 1/2)	x–1679 (66 1/8)	x–2099 (82 3/4)	x–2519 (99 1/4)
c		x–447 (17 5/8)	x–615 (24 1/4)	x–783 (30 7/8)	x–951 (37 1/2)	x–1119 (44 1/8)	x–1371 (54)	x–1622 (63 7/8)	x–1790 (70 1/2)	x–2210 (87 1/8)	x–2630 (103 5/8)

Ceiling Installation
Unit: mm (inches)



a: Distance between the screen and the center of the lens
b: Distance between the ceiling and the center of the lens
c: Distance between the ceiling and the center of the screen

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3040 (119 3/4)	3820 (150 1/2)	4600 (181 1/8)	5770 (227 1/4)	6950 (273 5/8)	7730 (304 3/8)	9680 (381 1/8)	11640 (458 3/8)
	Maximum	4450 (175 1/4)	5580 (219 3/4)	6720 (264 5/8)	8420 (331 1/2)	10120 (398 1/2)	11250 (443)	14080 (554 3/8)	16910 (665 3/4)
b		247/272/297/347/372/397 mm (9 3/4 / 10 3/4 / 11 3/4 / 13 3/4 / 14 3/4 / 15 3/4 inches) adjustable							
c		b+672 (26 1/2)	b+840 (33 1/8)	b+1008 (39 3/4)	b+1260 (49 3/8)	b+1511 (59 1/2)	b+1679 (66 1/8)	b+2099 (82 3/4)	b+2519 (99 1/4)

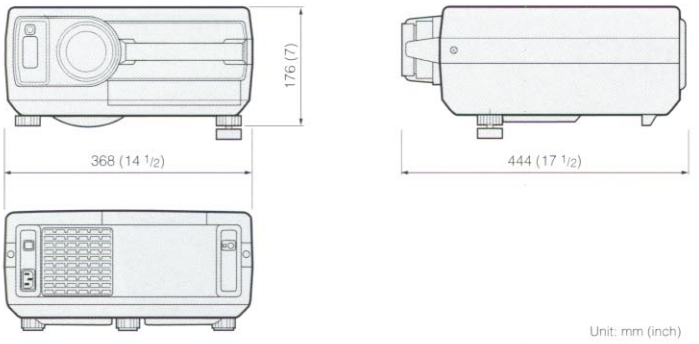
Specifications

Optical

Projection system	3 LCD panels, 1 lens, projection system 1.3-inch p-Si TFT LCD panel, 1,557,504 pixels (519,168 pixels × 3)	
ProjectionLens	1.5 times zoom lens f 50 to 75 mm/F 2.5 to 3.1	
Lamp	250 W Metal halide lamp	
Screen coverage	40 to 300 inch	
Light output	ANSI*1 450 lm	
Throwing distance	40-inch:	1470 to 2190 mm (57 7/8 to 86 1/4 inches)
	80-inch:	3040 to 4450 mm (119 3/4 to 175 1/4 inches)
	100-inch:	3820 to 5580 mm (150 1/2 to 219 3/4 inches)
	120-inch:	4600 to 6720 mm (181 1/8 to 264 5/8 inches)
	200-inch:	7730 to 11250 mm (304 3/8 to 443 inches)
	300-inch:	11640 to 16910 mm (458 3/8 to 665 3/4 inches)

General

Color system	NTSC/PAL/SECAM/NTSC4.43/PAL-M automatically selected	
Resolution	Video: 600TV lines RGB: 832 × 624 pixels	
Compatible signals	15k RGB/component (NTSC base)	fH:15.734 kHz, fV:59.94 Hz
	15k RGB/component (PAL/SECAM base)	fH:15.625 kHz, fV: 50.0 Hz
	VGA mode1 (640 × 350 dots)	fH:31.468 kHz, fV:70.086 Hz
	VGA mode2 (640 × 400 dots)	fH:31.468 kHz, fV:70.086 Hz
	VGA mode3 (640 × 480 dots)	fH:31.468 kHz, fV:59.94 Hz
	VGA VESA 72 Hz (640 × 480 dots)	fH:37.86 kHz, fV:72.809 Hz
	VGA VESA 75 Hz (640 × 480 dots)	fH:37.5 kHz, fV:75 Hz
	VGA VESA 85 Hz (640 × 480 dots)	fH:43.269 kHz, fV:85.008 Hz
	Macintosh 13-inch mode (640 × 480 dots)	fH:35.0 kHz, fV:66.7 Hz
	Macintosh 16-inch mode (640 × 480 dots)	fH:49.724 kHz, fV:74.55 Hz
	S VGA VESA 56 Hz (800 × 600 dots)	fH:35.156 kHz, fV:56.25 Hz
	S VGA VESA 60 Hz (800 × 600 dots)	fH:37.879 kHz, fV:60.32 Hz
	S VGA VESA 72 Hz (800 × 600 dots)	fH:48.077 kHz, fV:72.188 Hz
	S VGA VESA 75 Hz (800 × 600 dots)	fH:46.875 kHz, fV:75.0 Hz
	S VGA VESA 85 Hz (800 × 600 dots)	fH:53.674 kHz, fV:85.061 Hz
	XGA VESA 60 Hz (1024 × 768 dots)	fH:48.363 kHz, fV:60 Hz*2
	XGA VESA 70 Hz (1024 × 768 dots)	fH:56.476 kHz, fV:70.069 Hz*2
Horizontal frequency range of computer input	RGB:15 kHz (S on G/Composite sync), 24 to 57 kHz	
Speaker	Max. 2 W + 2 W, 7 × 4 cm stereo	
Power requirements	VPL-S500U:	AC 100 to 120 V/220 to 240 V*3, 50/60 Hz
	VPL-S500E/S500M:	AC 220 to 240 V, 50/60 Hz
Power consumption	Max. 350 W (Standby mode: 10 W)	
Heat dissipation	1194.4 BTU	
Mass	Approx. 10 kg (22 lb 1 oz)	
Operating temperature	0°C to 40°C (32°F to 104°F)	
Operating humidity	35% to 85%	
Storage temperature	–20°C to 60°C (–4°F to 140°F)	
Storage humidity	10% to 90%	
Dimensions	368(W) × 176(H) × 444(D) mm (14 1/2 × 7 × 17 1/2 inches)	



Unit: mm (inch)

Input/Output

VIDEO IN	Composite video:	BNC, 1 Vp-p ±2dB sync negative 75 Ω
	S VIDEO:	Mini DIN 4-pin
	Y (luminance):	1 Vp-p ±2dB sync negative 75 Ω
	C (chrominance):	Burst 0.286 Vp-p ±2dB (NTSC), 75 Ω 0.3 Vp-p ±2dB (PAL), 75 Ω
	Audio IN:	Phono (×2) 500 mVrms, stereo, impedance more than 47 kΩ
INPUT A	Analog RGB/component:	HD D-sub15-pin (female)
	R/R-Y:	0.7 Vp-p ±2dB positive, 75 Ω
	G:	0.7 Vp-p ±2 dB positive, 75 Ω
	G with sync/Y:	1 Vp-p ±2 dB sync negative, 75 Ω
	B/B-Y:	0.7 Vp-p ±2 dB positive, 75 Ω
	SYNC/HD:	
	Composite sync:	0.6-8 Vp-p high impedance, sync positive/negative
	Horizontal sync:	0.6-8 Vp-p high impedance, sync positive/negative
	VD:	
	Vertical sync:	0.6-8 Vp-p high impedance, positive/negative
	AUDIO IN:	Stereo minijack 500 mVrms, impedance more than 47 kΩ
AUDIO OUT (variable out)	Phono (×2) Max. 1Vrms, when an input is 500 mVrms, impedance less than 5 kΩ	
CONTROL S IN/ PLUG IN POWER	Stereo minijack 5 Vp-p, Plug in power, DC 5 V maximum output 60 mA	

Safety regulations

VPL-S500U:	UL1950, CSA950, FCC Class B, IC Class B
VPL-S500E/S500M:	EN60 950 (TÜV), CE, C-Tick

Accessories

Supplied accessories

- Remote commander RM-PJM500
- Mouse receiver RM-PJ21
- HD D-sub 15-pin (male) to HD D-sub 15-pin (male) cable
- VGA-Macintosh adapter
- Ventilation cover
- Size AA (R6) batteries
- AC Power cord
- Operating manual

Optional accessories

- Signal Interface cable SIC-20A/20B/20C/21/22
- Remote control receiver RM-PJ10
- Projector lamp (for replacement) PK PJ-500*4
- Projection lens VPLL-FM30
- Projection lens VPLL-ZM100
- Carrying case VLC-500*4
- Suspension support PSS-500
- Signal adapter ADP-10
  (HD D-sub 15-pin to HD D-sub 9-pin for SIC Cable)
- HD D-sub 15-pin to 5 BNC cable SMF-400
- 100-inch flat screen VPS-100FH*4
- 120-inch flat screen VPS-120FH*4

*1 ANSI is a measuring method of American National Standard ANSI IT7.228
*2 Compressed XGA signal is reproduced.
*3 UL listed for 120V operation.
*4 Some items are not available in some areas.
For details, please consult your nearest Sony office.

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