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.

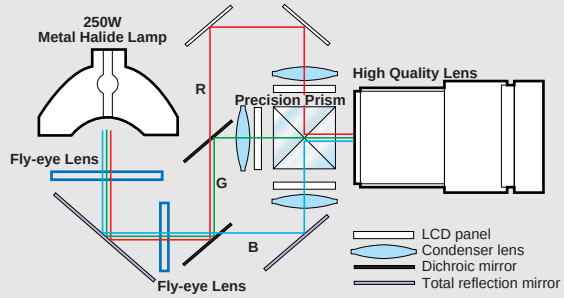
### High Resolution

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.

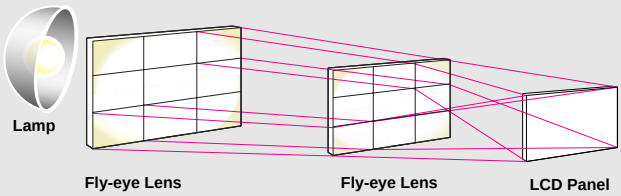
### Excellent Uniformity

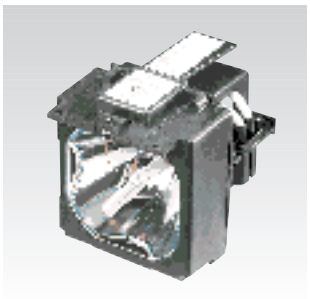
With an innovative optical system featuring light integrators, precision prism block assembly, and a high quality lens, the VPL-S500 Projector creates uniform image color and brightness from screen corner to corner.

**Newly Developed Optical Unit**



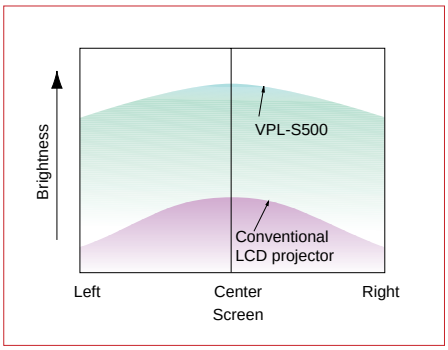

**Light Integrators System**



*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

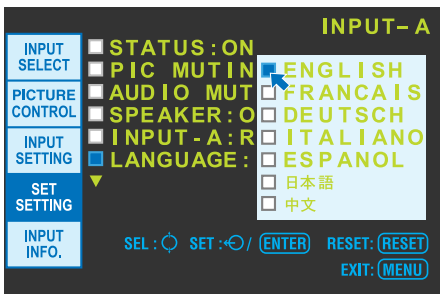
The VPL-S500 is designed for simple, effective presentations and, as such, does not require complicated hook up or setup. Using the supplied cable, it accepts video soures as well as computer input signals from VGA to XGA sources. No complex adjustments are required. The VPL-S500 automatically recognizes 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 joy-stick-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

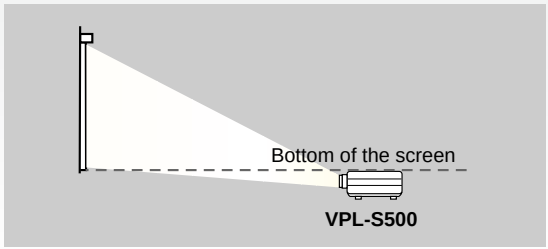
The on-screen menu display shows the status of all major operational functions and adjustments. This display makes it easy to follow adjustments as they are performed. The on-screen menu also allows the operator to select any one of seven languages: English, French, German, Italian, Spanish, Japanese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

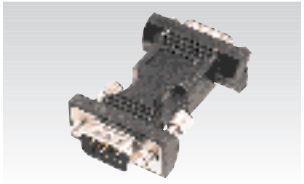
*Signal interface cable*
**SIC-20A/20B/20C**
- Analog RGB
- D-sub 9-pin (female) — D-sub 15-pin (female) / D-sub 15-pin (male)
- Length: overall 2m (6.6ft), branch 0.2m (0.7ft)

**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)

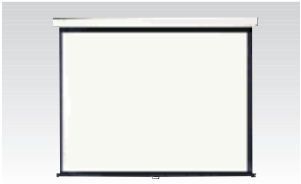
*Projector lens*
**VPLL-FM30**
- Fixed short focus lens
- f 37mm / F 3.5
- Screen coverage: 40 to 290 inches
- Throwing distance: 100 inches: 2790mm
  200 inches: 5640mm

*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**



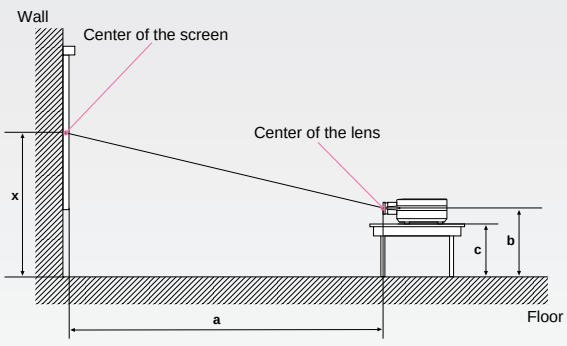
*100-inch flat screen* **VPS-100FH**
*120-inch flat screen* **VPS-120FH**

*Carrying case*
**VLC-500**

# Installation Examples

## Floor Installation

Unit: mm (inches)

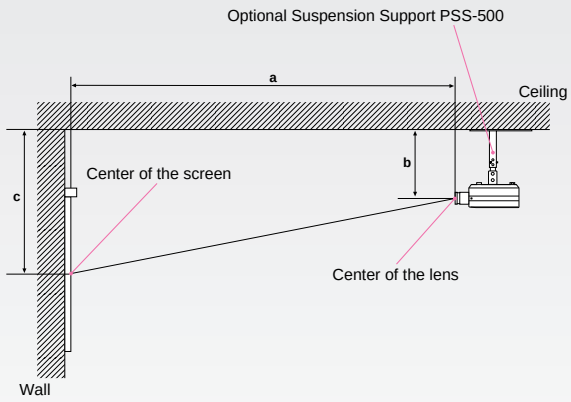



**a:** Distance between the screen and the center of the lens
**b:** Distance from the floor to the center of the lens
**c:** Distance from the floor to the foot of the projector
**x:** free

| 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) |

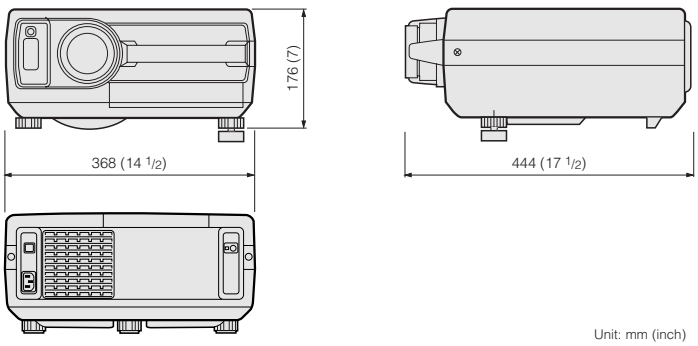
# Specifications

## Optical

| | | |
|---|---|---|
| **Projection system** | 3 LCD panels, 1 lens, projection system<br>1.3-inch p-Si TFT LCD panel, 1,557,504 pixels (519,168 pixels × 3) | |
| **ProjectionLens** | 1.5 times zoom lens<br>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<br>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<br>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<br>0.3 Vp-p ±2dB (PAL), 75 Ω |
| | Audio IN: | Phono (×2)<br>500 mVrms, stereo,<br>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<br>500 mVrms, impedance more than 47 kΩ |
| **AUDIO OUT (variable out)** | Phono (×2)<br>Max. 1Vrms, when an input is 500 mVrms, impedance less than 5 kΩ | |
| **CONTROL S IN/ PLUG IN POWER** | Stereo minijack<br>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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