# SONY®

*a brilliant*

*performance*

*every time*

# The Key to Smart Presentations

## …the Sony VPL-PX40 Projector

## Visuals

*Leave a lasting impression. With its brightness of 3500 ANSI lumens\* and a high contrast level, the VPL-PX40 is the easy and effective way to view presentations in any environment or lighting condition. Its 3D Gamma Correction and 3D Digital Comb Filter features, plus an RGB Enhancer for RGB and DDE for video, combine to make pictures always look their best.*

*\*ANSI lumens is a measurement unit defined by the American National Standards Institute IT7.228. Since there is no uniform method of measuring brightness, specifications may vary among manufacturers.*

## Audio

*Complete the experience. An integrated stereo-speaker system delivers audio to support the presentation visuals for even greater impact.*

## Presentation Tools

*A laser-pointer, mouse function and 4-times Digital Zoom – all included on the supplied remote-control unit – help to make presentations run smoothly and keep the audience enthralled. The projector itself – the main presentation tool – goes virtually unnoticed, because of near-silent operation.*

## Flexibility

*The broad installation capabilities of the VPL-PX40 enable the projector to be mounted on the ceiling or floor, or installed in a rear-projection system. Installation flexibility is further enhanced by the choice of two optional lenses. With the Direct Power-On function, the projector can be turned on or off quickly using a circuit-breaker switch on a switchboard, and, for added security, the VPL-PX40 incorporates a password-authentication system.*

## For Powerful Presentations …the VPL-PX40

# Picture Quality

### High Brightness and Contrast

With a new optical system incorporating Sony LCD panels and a 265 W UHP lamp, the VPL-PX40 offers an outstanding brightness of 3500 ANSI lumens. High-quality images can be projected even in high ambient-light conditions, producing an extremely highcontrast ratio.

### High Resolution

By utilizing three 0.99-inch XGA LCD panels, the VPL-PX40 provides a clean and detailed reproduction of all images.

### Digital Signal Processing

The VPL-PX40 achieves high picture quality with Sony original Digital Signal Processing technology. The VPL-PX40 provides digital signal processing by adopting a newly developed driver for the LCD panel that directly accepts digital signals; thus the projector is capable of projecting images with high accuracy.

### Smart APA

Dot phase and image size or shift can be automatically adjusted to their optimal settings according to input signals.

### 3D Gamma Correction

The 3D Digital Gamma Correction circuit simultaneously provides superb grayscale reproduction and helps to improve overall picture uniformity.

### Dynamic Detail Enhancer (DDE)

This unique Sony technology generates high quality images through the Interlace/Progressive conversion processor. Signals of film-originated sources converted through 2-3 and 2-2 pull down process are detected, resulting in extremely accurate image reproduction.

### RGB Enhancer

For a crisper RGB image, the VPL-PX40 is equipped with an RGB Enhancer function. A simple adjustment provides heightened image quality to match any image source – whether text, photos, or graphics.

# Presentation Effectiveness

### 4-times Digital Zoom

To help convey a clear message, the 4-times Digital Zoom function allows users to zoom in on any part of the projected image during a presentation.

### Stereo Sound

Users can improve the impact and effectiveness of presentations with stereo audio output from the built-in stereo-speaker system.

### Useful Remote-Control Unit

The supplied remote-control unit is equipped with keys to control various projector functions, for smooth, persuasive presentations every time. It has an integrated mouse function for point-and-click control of a USB-connected computer, and it can work as a laser pointer to direct the audience's attention and guide them through the presentation.

# Input Versatility

### Multiple Inputs

Using a built-in high-performance scan converter, the VPL-PX40 accepts a wide range of input signals: composite video, S-Video, Y/R-Y/B-Y, Y/PB/PR and RGB video, as well as analog and digital computer signals. A variety of DTV signals (480/60i,575/50i,540/60p,480/60p,575/50p,720/60p, 720/50p, 1080/60i, and 1080/50i) are also fully supported, extending its potential even further.
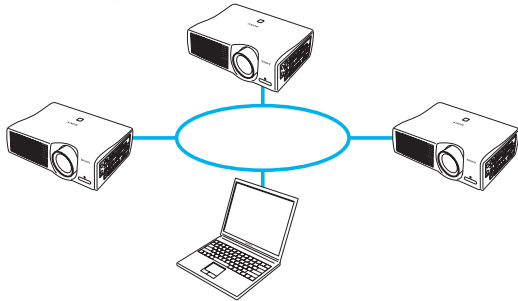
### DVI interface

The VPL-PX40 accepts digital signals directly thanks to its DVI interface.

## The Benefits of Networking

The VPL-PX40 can even be controlled via a TCP/IP-based network connection, which also enables users to receive maintenance information. This functionality is ideal for offices and schools equipped with a Local Area Network (LAN).

## Back-to-Front Tilt

The VPL-PX40 can be tilted upwards or downwards by 90 degrees. This flexibility greatly expands the projector's application possibilities.
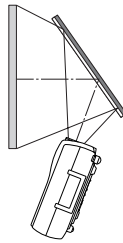
## Digital Keystone Adjustment

Keystone distortion, caused when the projection angle is not properly calibrated, can be easily corrected within a wide adjustment range of +/- 20 degrees. The necessary adjustments can be easily made via the On-Screen Display.

## On-Screen Display (OSD)

The OSD, which provides easy projector control, is available in a choice of nine languages: English, French, Spanish, German, Italian, Japanese, Chinese, Portuguese, or Korean.

## Direct Power On and Off

With this function, standby mode can be skipped over to activate the VPL-PX40 immediately. And thanks to a cooling fan with drive circuitry that works even after the power has been cut, the projector can be turned on or off using a circuit-breaker switch on a switchboard.

## Password-Authentication System

This function restricts unauthorized use of the projector. Once a password has been set, the VPL-PX40 cannot be used without it.

## Optional Lenses

Two optional lenses are available, giving users the ability to customize the VPL-PX40 to perfectly suit any projection environment.

**VPLL-FM22**
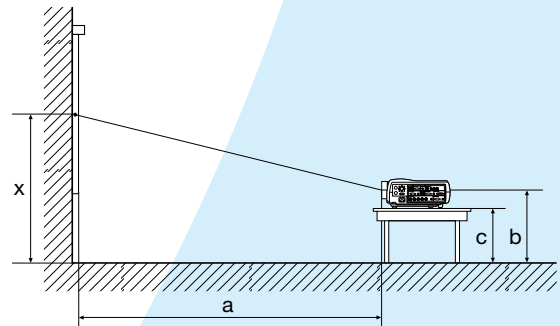❚ Fixed short-focus lens
❚ Throw ratio*: 0.9:1

**VPLL-ZM102**
❚ 1.5-times zoom long-focus lens
❚ Throw ratio*: 3.35-4.9:1

*Throw ratio is the distance between the center of the projector lens and the screen, divided by the screen width.

## Throwing Distance

### Floor Installation

Floor installation (Standard Lens)
a: distance between the screen to the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the adjusters of the projector
x: free
∗: Viewable area,measured diagonally

| Screen Size∗ | | 40 | 80 | 100 | 150 | 180 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|---|---|---|
| a | Minimum | 1490 | 3040 | 3820 | 5750 | 6920 | 7690 | 9630 | 11570 |
| | | 58 7/8 | 119 7/8 | 150 3/8 | 226 5/8 | 272 3/8 | 302 7/8 | 379 1/8 | 455 1/2 |
| | Maximum | 1890 | 3830 | 4800 | 7220 | 8680 | 9650 | 12070 | 14500 |
| | | 74 3/8 | 150 3/4 | 189 | 284 1/2 | 341 3/4 | 380 | 475 1/2 | 571 |
| b | | x-305 | x-610 | x-762 | x-1143 | x-1372 | x-1524 | x-1905 | x-2286 |
| | | x-12 | x-24 | x-30 | x-45 | x-54 | x-60 | x-75 1/8 | x-90 1/8 |
| c | | x-392 | x-697 | x-849 | x-1230 | x-1459 | x-1611 | x-1992 | x-2373 |
| | | x-15 1/2 | x-27 1/2 | x-33 1/2 | x-48 1/2 | x-57 1/2 | x-63 1/2 | x-78 1/2 | x-93 1/2 |

### Ceiling Installation
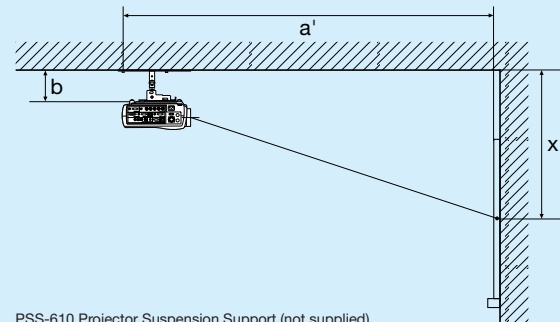
PSS-610 Projector Suspension Support (not supplied)

Ceiling installation using the PSS-610
Projector Suspension Support (Standard Lens)
a': distance from the center of the upper ceiling mount bracket hole (rear) to the screen
b: distance between the ceiling and the surface of the mounting bracket
x: distance between the ceiling and the center of the screen
∗: Viewable area,measured diagonally

| Screen Size∗ | | 80 | 100 | 120 | 150 | 180 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|---|---|---|
| a' | Minimum | 3350 | 4130 | 4900 | 6070 | 7230 | 8000 | 9940 | 11880 |
| | | 132 1/8 | 162 5/8 | 193 1/8 | 238 5/8 | 284 5/8 | 315 1/8 | 391 3/8 | 467 5/8 |
| | Maximum | 4140 | 5110 | 6080 | 7530 | 8990 | 9960 | 12380 | 14810 |
| | | 163 | 201 1/4 | 239 3/8 | 296 3/4 | 354 | 392 1/4 | 487 3/4 | 583 1/4 |
| x | | b+693 | b+846 | b+998 | b+1227 | b+1455 | b+1608 | b+1989 | b+2370 |
| | | b+27 3/8 | b+33 3/8 | b+39 3/8 | b+48 3/8 | b+57 3/8 | b+63 3/8 | b+78 3/8 | b+93 3/8 |
| b | | 150/175/200/250/275/300mm (6, 7, 7 7/8, 9 7/8, 10 7/8, 11 7/8 inches) adjustable when using PSS-610 | | | | | | | |

# Specifications

| Model | | VPL-PX40 |
|---|---|---|
| Optica | Projection system | 3 LCD panels, 1 lens projection system |
| | LCD panel | 0.99-inchp-Si TFT Sony LCD panel with Micro Lens Array<br>2,359,296 pixels (786,432 pixels x 3) |
| | Projection lens | Approx. 1.3 times zoom lens, F1.7 to 2.3, f37.6 to 48.8 mm |
| | Lamp | 265 W UHP Lamp |
| | Screen coverage | 40 to 300 inches (viewable area, measured diagonally) |
| | Light output | 3500 ANSI lumens*¹ |
| Signals | Color system | BTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL-N (automatically/manually selected) |
| | Resolution | Video: 750 TV lines, RGB: 1024 x 768 pixels |
| | Acceptable signals | RGB (fH 19 to 92 kHz, fV: 48 to 92 Hz (up to UXGA), 15 kHz RGB Component<br>50/60 Hz,Progressive component 50/60 Hz, DTV (480i/60i,575/50i,480/60p, 540/60p,<br>575/50p, 720/60p,720/50p, 1080/60i, 1080/50i) Composite video, Y/C video |
| General | Cabinet color | White |
| | Speaker | Stereo speakers system 40 x 70 mm (1 5/8 x 2 7/8 inches) Max. 2W x 2 |
| | Power requirements | 100 to 240 V, 50/60 Hz |
| | Power consumption | Max. 365 W, Standby 6 W |
| | Operating temperature | 0 to 35°C (32 to 95°F) |
| | Operating humidity | 35 to 85% |
| | Dimensions | 420 (W) x 115 (H) x 316 (D) mm (16 5/8 x 4 5/8 x 12 1/2 inches) |
| | Mass | Approx. 7.5 kg (16 lb 10 oz) |
| | Heat dissipation | 1246 BTU |
| Inputs/Outputs | | |
| VIDEO IN | Composite | Phono type, 1.0 Vp-p ±2 dB sync negative, 75 Ω |
| | Y/C IN | Mini DIN 4-pin |
| | Y | 1.0 Vp-p ±2 dB sync negative, 75Ω |
| | C | Burst 0.286 Vp-p ±2 dB (NTSC), 75Ω or 0.3 Vp-p ±2 dB (PAL), 75Ω |
| INPUT A | Analog RGB | HD D-sub 15-pin (female) |
| | R | 0.7 Vp-p ±2 dB positive, 75Ω |
| | G | 0.7 Vp-p ±2 dB positive, 75Ω |
| | G with Sync | 1.0 Vp-p ± 2dB sync negative, 75Ω |
| | B | 0.7 Vp-p ± 2dB positive, 75Ω |
| | SYNC/HD | |
| | Composite sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | Horizontal sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | VD | |
| | Vertical sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | AUDIO IN | Stereo mini jack, 500 mV rms, impedance more than 47 kΩ |
| INPUT B | Analog RGB | HD D-sub 15-pin (female) |
| | R | 0.7 Vp-p ±2 dB positive, 75Ω |
| | G | 0.7 Vp-p ±2 dB positive, 75Ω |
| | G with Sync | 1.0 Vp-p ± 2dB sync negative, 75Ω |
| | B | 0.7 Vp-p ±2 dB positive, 75Ω |
| | SYNC/HD | |
| | Composite sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | Horizontal sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | VD | |
| | Vertical sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | AUDIO IN | Stereo mini jack, 500 mV rms, impedance more than 47 kΩ (Shared by INPUT B/C) |
| INPUT C | Digital RGB | DVI-D (TMDS) |
| | AUDIO IN | Stereo mini jack, 500 mV rms, impedance more than 47 kΩ (Shared by INPUT B/C) |
| INPUT D | Analog RGB/Component | 5 BNC (Female) |
| | R/R-Y | 0.7 Vp-p ±2 dB positive, 75Ω |
| | G | 0.7 Vp-p ±2 dB positive, 75Ω |
| | G with Sync/Y | 1.0 Vp-p ±2 dB sync negative, 75 Ω |
| | B/B-Y | 0.7 Vp-p ±2 dB positive, 75Ω |
| | SYNC/HD | |
| | Composite sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | Horizontal sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | VD | |
| | Vertical sync | 1.0 to 5.0 Vp-p, high impedance positive/negative |
| | AUDIO IN | Stereo mini jack, 500 mV rms, impedance more than 47 kΩ |
| USB | | Up (female) x 1 (Shared by INPUT A/B/C/D) |
| OUTPUT | MONITOR OUT*² | HD D-sub 15-pin (female) R/R-Y, G/Y, B/B-Y: Gain Unity, 75Ω SYNC/HD, VD: 4.0 Vp-p (open), 1.0 Vp-p (75 Ω) |
| | AUDIO OUT (Variable out) | Stereo mini jack, max. 1 V rms, when the input signal is 500 mV rms, impedance less than 5 kΩ |
| REMOTE | RS-232C | D-sub 9-pin (female) |
| | ETHERNET port | RJ-45: 10 BASE-T/100 BASE-TX |
| CONTROL S IN/ | | Stereo mini jack |
| PLUG IN POWER | | 5.0 Vp-p, plug in power, DC 5V |
| Safety regulations | | UL, cUL, DHHS, FCC Class A, IC Class A, NEMKO, CE (LVD), CE (EMC), C-Tick, CCC, VCCI class B, JEITA |
| Laser beam | Laser type | Class II |
| | Wavelength | 645 nm |
| | Output | 1 mW |
| Supplied accessories | | Remote commander, Monitor Cable (2 m): HD D-sub 15-pin to HD D-sub 15-pin, USB Cable A type to B type (2 m),<br>AA size Battery (x 2), Lens Cap, Air Filter, Operating Manual, Installation Manual for dealers |

*¹ ANSI lumens is a measuring method of the American National Instisute IT7. 228. Since there is no uniform method of measuring brightness, specifications will vary among manufactures. *² DIGITAL RGB and Component signals are not output from the MONITOR OUT terminal.
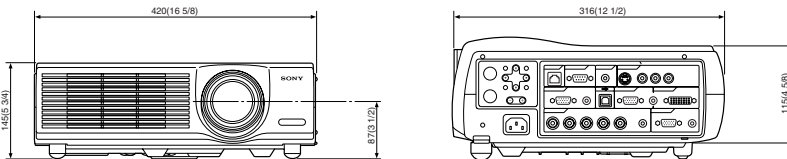
## Input Signal Preset Data

| No. | Preset Signal | | fH (kHz) | fV (Hz) | H/V |
|---|---|---|---|---|---|
| 1 | VIDEO/60 60Hz | | 15.734 | 59.940 | |
| 2 | VIDEO/50 50Hz | | 15.625 | 50.000 | |
| 3 | 480/60i | | 15.734 | 59.940 | SonG/Y |
| 4 | 575/50i | | 15.625 | 50.000 | or |
| 5 | HDTV 1035/60i, 1080/60i | | 33.750 | 60.000 | Composite |
| 6* | 640x350 | VGA-1(VGA350) | 31.469 | 70.086 | P/N |
| 7* | | VESA 85(VGA350) | 37.861 | 85.080 | P/N |
| 8* | 640x400 | NEC PC98 | 24.823 | 56.416 | N/N |
| 9* | | VGA-2(TEXT)/VESA70 | 31.469 | 70.086 | N/P |
| 10* | | VESA 85(VGA400) | 37.861 | 85.080 | N/P |
| 11* | 640x480 | VESA 60 | 31.469 | 59.940 | N/N |
| 12* | | Mac 13 | 35.000 | 66.667 | N/N |
| 13* | | VESA 72 | 37.861 | 72.809 | N/N |
| 14* | | VESA 75(IBM M3) | 37.500 | 75.000 | N/N |
| 15* | | VESA 85(IBM M4) | 43.269 | 85.008 | N/N |
| 16* | 800x600 | VESA 56 | 35.156 | 56.250 | P/P |
| 17* | | VESA 60 | 37.879 | 60.317 | P/P |
| 18* | | VESA 72 | 48.077 | 72.188 | P/P |
| 19* | | VESA 75(IBM M5) | 46.875 | 75.000 | P/P |
| 20* | | VESA 85 | 53.674 | 85.061 | P/P |
| 21* | 832x624 | Mac 16 | 49.724 | 74.550 | N/N |
| 22* | 1024x768 | VESA 43(8514) | 35.524 | 86.958 | P/P |
| 23* | | VESA 60 | 48.363 | 60.004 | N/N |
| 24* | | VESA 70 | 56.476 | 69.955 | N/N |
| 25* | | VESA 75 | 60.023 | 75.029 | P/P |
| 26* | | VESA 85 | 68.677 | 84.997 | P/P |
| 27* | 1152x864 | VESA 70 | 63.995 | 70.019 | P/P |
| 28 | | VESA 75 | 67.500 | 75.000 | P/P |
| 29 | | VESA 85 | 77.487 | 85.057 | P/P |
| 30* | 1152x900 | SUN LO | 61.795 | 65.960 | N/N |
| 31 | | SUN HI | 71.713 | 76.047 | Cneg(N/P) |
| 32* | 1280x960 | VESA 60 | 60.000 | 60.000 | P/P |
| 33 | | VESA 75 | 75.000 | 75.000 | P/P |
| 34* | 1280x1024 | VESA 43 | 46.433 | 86.872 | P/P |
| 35 | | SGI-5 | 53.316 | 50.062 | SonG(P/P) |
| 36* | | VESA 60 | 63.974 | 60.013 | P/P |
| 37 | | SXGA VESA75 | 79.976 | 75.025 | P/P |
| 38 | | SXGA VESA85 | 91.146 | 85.024 | P/P |
| 39 | 1600x1200 | UXGA VESA60 | 75.000 | 60.000 | P/P |
| 43 | 480/60p (double frequency of NTSC) | | 31.470 | 60.000 | SonG |
| 44 | 575/50p (double frequency of PAL) | | 31.250 | 50.000 | SonG |
| 45 | 1080/50i | | 28.130 | 50.000 | |
| 47 | 720/60p | | 45.000 | 60.000 | |
| 48 | 720/50p | | 37.500 | 50.000 | |
| 50 | 540/60p | | 33.750 | 60.000 | |
| 52 | 1400x1050 SXGA+ | | 63.981 | 60.020 | N/N |

When the signal other than ones in "Preset Signals" are input, the picture may not display correctly. When the aspect ratio of an input signal is other than 4:3, a part of the screen is displayed in black. The UXGA signal can be projected only when user set the frequency of a computer 60Hz. The digital input complies with the signals marked with asterisks(*) on the table. When the digital signal output from a computer is a signal other than the signals marked with asterisks(*) among the memory numbers 6 to 39, it is automatically output according to the specifications of the projector. The memory numbers 22 and 34 are the interlace signals.

## Optional Accessories

**Projector Lamp**
**LMP-P260**
(for replacement)

LMP-P260

**Suspension Support**
**PSS-610**

**Signal Cables**
**SMF-400**
(HD D-sub 15-pin to 5 BNC, for RGB signal)
**SMF-410**
(HD D-sub 15-pin to HD D-sub 15-pin, for RGB signal)

**Optional Lenses**
**VPLL-FM22**
(Fixed short-focus lens)
**VPLL-ZM102**
(Long-focus zoom lens)

## Dimensions

420(16 5/8)
316(12 1/2)
145(5 3/4)
87(3 1/2)
115(4 5/8)

Unit:mm (inches)

eco info — Power consumption during standby 6.0W or less. Halogenated flame retardant is not used in cabinets. Lead-free solder is used for soldering. Polystyrene form for cushioning has been eliminated and corrugated paper is used as buffer materials.

## Distributed by