

## VPL-EX293

3,800 lumens XGA portable projector with wireless connectivity



### Overview

**Bring learning to life with this bright, energy-efficient, wireless-ready portable projector that has been designed in consultation with teachers and made for today's classrooms**

Combining superb XGA image quality with smart energy-efficient features, the VPL-EX293 portable projector enhances learning with powerful presentations that really stand out. Simple to use and wireless ready, the projector is ideal for maximising student engagement in today's networked classrooms, making it your ideal partner throughout the busy school day.

Sony BrightEra™ panel technology assures clear pictures in any conditions, from daylight to darkened classrooms. Plenty of interfaces allow easy connection, while a choice of Picture Modes optimises viewing with any source – slide presentations, PC documents, pictures or videos. Adding an optional Wi-Fi module lets students and teachers wirelessly share homework, images and graphics from mobile devices like smartphones and tablets. There's a wide range of smart energy-saving features built in. And with a recommended lamp replacement time of 10,000 hours, downtime and maintenance costs are minimised.

## Features

### **Energy efficient with long-lasting lamp of 10,000 hours**

The lamp driver optimally controls the wattage of the lamp and achieves a long-lasting lamp time of 10,000\* hours. The recommended lamp replacement time is extended by 43%, compared to the previous model.

\*Lamp mode: low, Complies with IEC61947 standard

### **Advanced energy-saving features**

Advanced lamp technology enables robust energy-saving features. For example, greater brightness control in Auto Light Dimming mode saves considerable energy when the projector is left on without being used. During projection, Auto Lamp Mode automatically adjusts light output to suit the projected scene. When you need to mute the picture temporarily, light output can be completely deactivated to minimise energy consumption.

### **High image quality 3LCD BrightEra™ natural and vivid colour images**

XGA (1024 x 768) 4:3 screen resolution, 3LCD BrightEra™ natural and vivid colour images, plus various Picture Modes for optimising image quality, make the projector one of the best in its class. Thanks to the optical system projecting three basic colours constantly, the projector offers excellent light efficiency, ensuring colourful and bright images. Sony's BrightEra™ panels deliver improved panel light resistance, higher resolution, high brightness and increased panel reliability. High colour reproducibility is important especially when using colourful content, such as materials used in classrooms.

### **Various picture modes for optimal picture quality**

The projector has six available picture modes for correct picture quality: Dynamic, Standard, Presentation, Blackboard, Game, and Cinema. With six picture modes

and three brightness modes combined, the user can select the most suitable picture/brightness combination according to the picture source and environment, to create the optimal image.

### **Network presentation (LAN/Wireless LAN)**

When the projector is installed in a LAN, presentations can be projected from any PC and Mac on the network. A tablet or smartphone can be connected at the same time. You can project jpg, pdf and other supported formats. Up to four users can project PC/Mac images simultaneously, while up to eight users can connect to one projector. For PC/Mac, an application, Projector Station for Network Presentation, is provided. For a tablet/smartphone, an application is provided by Pixelworks, downloaded from the web. For details, please visit:  
<http://PWPresenter.pixelworks.com>

### **Remote control for iOS device**

Projector Remote is a simple remote control application for Sony's projectors. Networked projectors can be controlled by this remote application. Remote Control allows you to operate the projector with simple and easy-to-read buttons.

### **USB display**

The projector allows you to display pictures and audio\* with one USB cable. You do not need to install any driver for this function. It is a convenient way to connect to the projector when you want to connect easily.

\* There is a time lag in video and audio. When not in simple use, it is recommended to use Line-in or HDMI-in.

### **Input Label**

The input label, which appears in the input menu on

screen, can be customised. This gives users a clear understanding of which equipment is connected.

## Specifications

### Display System

|                |              |
|----------------|--------------|
| Display System | 3 LCD system |
|----------------|--------------|

### Display device

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Size of effective display area | 0.63"(16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3 |
|--------------------------------|---------------------------------------------------------|

|                  |                                 |
|------------------|---------------------------------|
| Number of pixels | 2,359,296 (1024x768 x 3) pixels |
|------------------|---------------------------------|

### Projection lens

|       |        |
|-------|--------|
| Focus | Manual |
|-------|--------|

|                       |        |
|-----------------------|--------|
| Zoom - Powered/Manual | Manual |
|-----------------------|--------|

|              |               |
|--------------|---------------|
| Zoom - Ratio | Approx. x 1.6 |
|--------------|---------------|

|             |                  |
|-------------|------------------|
| Throw Ratio | 1.40:1 to 2.27:1 |
|-------------|------------------|

### Light source

|      |                                  |
|------|----------------------------------|
| Type | Ultra high pressure mercury lamp |
|------|----------------------------------|

|         |            |
|---------|------------|
| Wattage | 210 W type |
|---------|------------|

## Recommended lamp replacement time\*1

|                 |        |
|-----------------|--------|
| Lamp mode: High | 4000 H |
|-----------------|--------|

|                        |        |
|------------------------|--------|
| Lamp mode:<br>Standard | 6000 H |
|------------------------|--------|

|                |         |
|----------------|---------|
| Lamp mode: Low | 10000 H |
|----------------|---------|

## Filter cleaning / replacement cycle (Max.)\*1

|                                                  |                   |
|--------------------------------------------------|-------------------|
| Filter cleaning /<br>replacement cycle<br>(Max.) | 7000 H (cleaning) |
|--------------------------------------------------|-------------------|

## Screen size

|             |                                                     |
|-------------|-----------------------------------------------------|
| Screen size | 30" to 300" (0.76 m to 7.62 m)(measured diagonally) |
|-------------|-----------------------------------------------------|

## Light output

|                 |         |
|-----------------|---------|
| Lamp mode: High | 3800 lm |
|-----------------|---------|

|                        |         |
|------------------------|---------|
| Lamp mode:<br>Standard | 2700 lm |
|------------------------|---------|

|                |         |
|----------------|---------|
| Lamp mode: Low | 2100 lm |
|----------------|---------|

## Color light output

|                 |         |
|-----------------|---------|
| Lamp mode: High | 3800 lm |
|-----------------|---------|

|            |         |
|------------|---------|
| Lamp mode: | 2700 lm |
| Standard   |         |

|                |         |
|----------------|---------|
| Lamp mode: Low | 2100 lm |
|----------------|---------|

## Contrast ratio (full white / full black)\*2

|                                          |        |
|------------------------------------------|--------|
| Contrast ratio (full white / full black) | 3300:1 |
|------------------------------------------|--------|

## Displayable scanning frequency

|            |                  |
|------------|------------------|
| Horizontal | 14 kHz to 93 kHz |
|------------|------------------|

|          |                |
|----------|----------------|
| Vertical | 47 Hz to 93 Hz |
|----------|----------------|

## Display resolution

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Computer signal input | Maximum display resolution: UXGA 1600 x 1200 dots*3 |
|-----------------------|-----------------------------------------------------|

|                    |                                                                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video signal input | NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, The following items are available for digital signal (HDMI input) only; 1080/60p, 1080/50p |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Color system

|              |                                              |
|--------------|----------------------------------------------|
| Color system | NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N |
|--------------|----------------------------------------------|

## Keystone correction (Max.)

|          |               |
|----------|---------------|
| Vertical | +/-30 degrees |
|----------|---------------|

## OSD language

|              |                                                                                                                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OSD language | 24-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek) |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## INPUT OUTPUT (Computer/Video/Control)

|            |                                                           |
|------------|-----------------------------------------------------------|
| INPUT A    | RGB / Y PB PR input connector: Mini D-sub 15-pin (female) |
| INPUT B    | RGB input connector: Mini D-sub 15-pin (female)           |
| INPUT C    | HDMI input connector: HDMI 19-pin, HDCP support           |
| S VIDEO IN | S video input connector: Mini DIN 4-pin                   |
| VIDEO IN   | Video input connector: Pin jack                           |
| OUTPUT     | Monitor output connector*4:                               |

|        |                                       |
|--------|---------------------------------------|
|        | Mini D-sub 15-pin (female)            |
| REMOTE | RS-232C connector: D-sub 9-pin (male) |
| LAN    | RJ-45, 10BASE-T/100BASE-TX            |
| USB    | Type-A                                |
| USB    | Type-B                                |

## Acoustic noise

Lamp mode: Low      30 dB

## Operating temperature / Operating humidity

Operating temperature / Operating humidity      0°C to 40°C (32°F to 104°F) / 35% to 85% (no condensation)

## Storage temperature / Storage humidity

Storage temperature / Storage humidity      -20 °C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)

## Power requirements

Power requirements      AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz / 60 Hz



## Power consumption

AC 100 V to 120 V      Lamp mode: High: 283 W

AC 220 V to 240 V      Lamp mode: High: 271 W

## Power Consumption (Standby Mode)

AC 100 V to 120 V      0.5 W (when "Standby mode" is set to "Low")

AC 220 V to 240 V      0.5 W (when "Standby mode" is set to "Low")

## Standby Mode / Networked Standby Mode Activated

Standby Mode /  
Networked  
Standby Mode  
Activated      After about 10 Minutes

## Wireless Network(s) On/Off Switch

Wireless  
Network(s) On/Off  
Switch      1) Press the MENU button,  
then select  
[Connection/Power]  
2) [WLAN Settings]  
2) [WLAN Settings]  
4) Select On or Off

## Heat dissipation

AC 100 V to 120 V      966 BTU/h

AC 220 V to 240 V      925 BTU/h

## Dimensions (W x H x D)

|                                              |                                                                    |
|----------------------------------------------|--------------------------------------------------------------------|
| Dimensions (W x H x D) (without protrusions) | Approx. 365 x 96.2 x 252 mm<br>(14 3/8 X 3 25/32 X 9 29/32 inches) |
|----------------------------------------------|--------------------------------------------------------------------|

## Mass

|      |                       |
|------|-----------------------|
| Mass | Approx. 3.8 kg (8 lb) |
|------|-----------------------|

## Supplied accessories

|                  |        |
|------------------|--------|
| Remote commander | RM-PJ8 |
|------------------|--------|

## Optional Accessories

|               |          |
|---------------|----------|
| Optional Lamp | LMP-E212 |
|---------------|----------|

|                     |          |
|---------------------|----------|
| Wireless LAN module | IFU-WLM3 |
|---------------------|----------|

## Notes

|    |                                                                                                                                           |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|
| *1 | This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used. |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|

|    |                       |
|----|-----------------------|
| *2 | The value is average. |
|----|-----------------------|

|    |                                             |
|----|---------------------------------------------|
| *3 | Available for VESA Reduced Blanking signal. |
| *4 | From INPUT A and INPUT B.                   |

## Gallery

