

## VPL-EX310

3,800 lumens XGA high brightness compact projector



### Overview

#### **Present clear, bright images in larger rooms, plus flexible connectivity and low running costs**

The VPL-EX310 projector is ideal for mid-sized and larger classrooms and meeting rooms.

Quiet, compact and powerful, it delivers bright, detailed XGA resolution images with 3,800 colour light output that can be seen clearly even in bright rooms, with Sony's 3LCD technology assuring natural, vivid colours.

The VPL-EX310 is an ideal partner for today's integrated AV/IT environments, expanding your connectivity options with dual HDMI ports and Direct USB Display connection. A convenient input label function makes life simpler, confirming on screen the name of connected devices.

Add the VPL-EX310 to a network and see presentations from up to four connected PC/Mac computers simultaneously. Slip in an optional Wi-Fi dongle and present directly wirelessly from laptops, phones or tablets. Control the projector remotely with a free app for smartphones and tablets. You don't even need to bring a PC to meetings - just slip in a USB thumb drive and start presenting.

A range of energy-saving features and long-lasting lamp life contribute to low ownership costs. Maintenance is simplified by a new rear lamp access feature.

### Features

#### **Bright, clear images with maximum 4,200 lumens colour light output**

With a 3,800 lumen maximum light output (in high mode), the VPL-EX310 delivers crisp, bright presentations that can be seen clearly in larger classrooms or meeting rooms. There's a choice of three brightness modes to suit any environment, from bright daylight to darkened rooms.

#### **3LCD BrightEra™ technology**

The efficient 3LCD panel system is enhanced by advanced BrightEra™ technology for impressively bright, consistent, high resolution images with excellent colour accuracy and impressive reliability.

#### **XGA resolution**

XGA (1024 x 768) 4:3 display resolution gives plenty of crisp detail: ideal for making presentations direct from a laptop, mobile device or DVD player.

#### **Energy efficient with long-lasting lamp life up to 10,000 hours**

High-performance lamp technology offers reduced ownership costs plus reduced maintenance, with a long-lasting lamp replacement time of approx. 10,000 hours (with brightness in low mode).

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

Advanced lamp technology enables a range of energy-saving features. Auto Light Dimming mode saves energy when the projector is left on without being used. Auto Picture Mode automatically adjusts light output to suit the projected scene. Touching a button on the remote mutes the picture temporarily, dramatically reducing power consumption.

### **Quick go**

Don't waste time when you're in a hurry to leave the room: turn off the projector and unplug immediately, with no lengthy waiting for cool-down.

### **Networked presentations**

Project presentations from a networked PC or Mac. Present JPEG, PDF and other files wirelessly from a tablet or smartphone. Up to four users can project PC/Mac images simultaneously, while up to eight users can connect to one projector. The Projector Station for Network Presentation application for Windows/Mac is included. For tablet/smartphone use, an application is provided by Pixelworks, downloaded from the web. For details visit <http://PWPresenter.pixelworks.com>

### **Control and management from any networked PC**

Projector functions and status can be managed and monitored remotely from any networked PC, using the included Projector Station for Network Control application.

### **Present wirelessly**

Make presentations wirelessly from a portable or handheld device. (Microsoft Windows / Macintosh OS requires Projector Station for Network Presentation application. iOS / Android requires VueMagic application.)

### **Remote Control app for iOS/Android**

Download the free Projector Remote app and control the projector from anywhere in the room with your handheld device, with simple easy-to-read buttons on your phone or tablet screen.

### **USB media viewer**

Slip in a USB drive and display photos, images and graphics with no PC needed.

### **Dual HDMI inputs**

Two HDMI input terminals make it easy to connect HDMI-equipped devices like PCs and media streaming devices.

### **USB Display function for easy one-cable PC connection**

Present pictures and audio\* from a connected PC or Mac with just one USB cable - you don't even need to install a software driver.

\* There may be a time lag between video and audio. For low-latency applications it is recommended to use projector's line-in or HDMI-in connection.

### **Customised input naming labels**

Define your own input labels like 'BD Player', 'PC' and 'Document Camera', making it easier to see on screen what devices are connected and being used.

### **Easier maintenance**

Lamp access has been shifted to the rear of the projector body, making lamp swaps simpler when the projector is hanging from a ceiling mount.

### **Quiet operation**

Low fan noise ensures discreet, unobtrusive operation in classrooms and meeting rooms.

## Display device

Size of effective display area	0.63" (16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3
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Number of pixels	2,359,296 (1024x768 x 3) pixels
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## Projection lens

Focus	Manual
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Zoom - Powered/Manual	Manual
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Zoom - Ratio	Approx. x 1.6
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Throw Ratio	1.40:1 to 2.27:1
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## Light source

Type	Ultra high pressure mercury lamp
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Wattage	225 W type
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## Recommended lamp replacement time \*1

Lamp mode: High	4000 H
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Lamp mode: Standard	6000 H
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Lamp mode: Low	10000 H
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## Filter cleaning / replacement cycle (Max.)

Filter cleaning / replacement cycle (Max.)	10,000 H
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## Screen size

Screen size	30" to 300"(0.76 m to 7.62 m) (measured diagonally)
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## Light output

Lamp mode: High	3800 lm
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Lamp mode: Standard *2	3000 lm
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Lamp mode: Low *2	2500 lm
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## Color light output

Lamp mode: High	3800 lm
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Lamp mode: Standard *2	3000 lm
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## Color light output

Lamp mode: Low \*2                      2500 lm

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## Contrast ratio (full white / full black) \*3

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

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## Displayable scanning frequency

Horizontal                                      15 kHz to 92 kHz

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Vertical                                         48 Hz to 92 Hz

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## Display resolution

Computer signal input                      Maximum display resolution: 1600 x 1200 dots \*4

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Video signal input                            NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p

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## Color system

Color system                                    NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60

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## Keystone correction (Max.) \*4

Vertical                                         +/-30 degrees

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## OSD languages

OSD languages                                 27-languages (English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Greek, Czech, Slovakia, Romania)

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## INPUT OUTPUT (Computer/Video/Control)

INPUT A                                         RGB / Y PB PR input connector: Mini D-sub 15-pin (female)

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INPUT B                                         RGB input connector: Mini D-sub 15-pin (female)

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INPUT C                                         HDMI input connector: HDMI 19-pin, HDCP support

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## INPUT OUTPUT (Computer/Video/Control)

INPUT D	HDMI input connector: HDMI 19-pin, HDCP support
S VIDEO IN	S Video input connector: Mini DIN 4-pin
VIDEO IN	Video input connector: Phono jack
OUTPUT	MONITOR output connector *5: Mini D-sub 15-pin (female)
REMOTE	RS-232C connector: D-sub 9-pin (male)
LAN	RJ45,100BASE-TX (Shared with HDBaseT)
USB	Type-A
USB	Type-B

## Acoustic noise \*5

Lamp mode: Low	29 dB
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## Operating temperature / Operating humidity

Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 20-80% (no condensation)
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## Storage temperature / Storage humidity

Storage temperature / Storage humidity	-10 °C to +60°C (-4°F to +140°F) / 20% to 80% (no condensation)
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## Power requirements

Power requirements	AC 100 V to 240 V, 2.9 A to 1.3 A, 50 Hz / 60 Hz
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## Power consumption

AC 100 V to 120 V	Lamp mode: High: 284 W
AC 220 V to 240 V	Lamp mode: High: 275 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")

## Power Consumption (Networked Standby Mode)

AC 100 V to 120 V	5.3 W (LAN) 5.7 W (optional WLAN module) 6.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
AC 220 V to 240 V	5.5 W (LAN) 6.0 W (optional WLAN module) 6.3 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")

## Standby Mode/Network Standby Mode Activated

Standby Mode/Network Standby Mode Activated	Approx. 10 Minutes
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## Wireless Network(s) On/Off Switch

Wireless Network(s) On/Off Switch	1) Press the MENU button, then select [Connection/Power] 2) [WLAN Settings] 3) [WLAN Connection] 4) Select On or Off
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## Heat dissipation

AC 100 V to 120 V	969 BTU/h
AC 220 V to 240 V	938 BTU/h

## Dimensions (W x H x D)

Dimensions (W x H x D) (without protrusions)	Aprox. 365 x105.3 x 267.7mm (14 3/8 x 4 5/32 x 10 17/32 ")
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## Mass

Mass	Approx. 3.9 kg (8 lb)
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## Supplied accessories

Remote commander	RM-PJ8
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## Optional Accessories

Optional Lamp	LMP-E221
Wireless LAN module	IFU-WLM3

## Notes

*1	The figures are the expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used.
*2	The value are estimate.
*3	The value is average.
*4	Available for the VESA Reduced Blanking signal.
*5	Not available in standby. From INPUT A and INPUT B.
Environmental notice for customers in the USA	Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see <a href="http://www.sony.com/mercury">www.sony.com/mercury</a> for additional information.

## Gallery



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