

## VPL-EX435

3,200 lumens XGA compact projector



### Overview

#### **Present clear, bright images, with flexible connectivity and low running costs**

The VPL-EX435 projector is ideal for mid-sized classrooms and meeting rooms.

Quiet, compact and powerful, it delivers XGA images with 3,200 lumens colour light output and high 20,000:1 contrast ratio, with Sony's 3LCD technology assuring natural, vivid colours. Image quality is further improved compared with previous models, with a new colour/white balance setting for crisp reproduction of on-screen text and a new 'Vivid' picture mode ensuring even richer, more vibrant colours.

The VPL-EX435 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-EX435 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.

A range of energy-saving features plus up to 10,000 hours recommended lamp replacement time contribute to low ownership costs. Routine maintenance is quick and easy with a convenient rear lamp access feature.

## Features

- **Bright, clear images with maximum 3,200 lumens colour light output**

With a 3,200 lumen maximum light output (in high mode), the VPL-EX435 delivers crisp, high-contrast presentations that can be seen clearly in bright rooms or on larger screens. 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.

- **Powerful 16W audio**

The powerful built-in 16W speaker (mono) lets your audience hear video soundtracks with no need for additional amplification.

- **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 recommended lamp replacement time of approx. 10,000 hours (with brightness in low mode - may vary depending on environment or how the projector is used).

- **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.

- **Quiet operation**

Near-silent projector fan ensures discreet, unobtrusive operation in classrooms and meeting rooms. Lamp mode : 35dB / Standard 33dB / Low 29dB

- **Auto power on**

Save time and start presenting faster: the projector automatically turns on when signals are detected from a connected PC.

- **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 and wireless presentations**

Project presentations from PC or Mac via network and wireless. 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.

- **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.

- **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.

- **IP control sync for easy system expansion**

Control signals (power on/off, input select) from a master projector can be distributed over an IP network to additional 'sub' projectors.

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

Present pictures and audio\* from a connected PC or Mac with a single 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.

- **Easy maintenance**

Convenient lamp access at the rear of the projector body makes lamp swaps simpler when the projector is hanging from a ceiling mount.

## Technical Specifications

Display System	
● Display System	3 LCD system

  

Display device	
● Size of effective display area	0.63" (16mm) 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 1.2
● Throw Ratio	1.47:1 to 1.77:1

  

Light source	
● Type	Ultra high pressure mercury lamp
● Wattage	225 W type

  

Recommended lamp replacement time *3	
● Lamp mode: High	4000 H
● Lamp mode: Standard	6000 H
● Lamp mode: Low	10000 H

  

Filter cleaning / replacement cycle (Max.)	
● Filter cleaning / replacement cycle (Max.)	10,000H

  

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

  

Light output *1	
● Lamp mode: High	3200 lm
● Lamp mode: Standard	2300 lm
● Lamp mode: Low	1800 lm

  

Color light output *1	
● Lamp mode: High	3200 lm
● Lamp mode: Standard	2300 lm
● Lamp mode: Low	1800 lm

  

Contrast ratio (full white / full black) *2	
● Contrast ratio (full white / full black) *2	20000:1

  

Speaker	

● Speaker	Speaker 16 W (monaural)
<b>Displayable scanning frequency</b>	
● Horizontal	15 kHz to 92 kHz
● Vertical	48 Hz to 92 Hz
<b>Display resolution</b>	
● Computer signal input	Maximum display resolution: 1600 x 1200 dots, IV:60Hz
● Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p
<b>Colour system</b>	
● Colour system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60
<b>Keystone Correction (Max) *4</b>	
● Vertical	+/-30 degrees
<b>OSD languages</b>	
● 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)
<b>INPUT OUTPUT (Computer/Video/Control)</b>	
● INPUT A	RGB / Y PB PR inputconnector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack
● INPUT B	RGB input connector: Mini Dsub 15 pin female Audio input connector: Stereo mini jack
● INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
● INPUT D	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
● S VIDEO IN	S Video input connector: Mini DIN 4-pin
● VIDEO IN	Video input connector: Phono jack
● OUTPUT	MONITOR output connector: Mini D-sub 15 pin female Audio output connector: Stereo mini jack
● REMOTE	D-sub 9-pin male/RS232C
● LAN	RJ-45, 10BASE-T/100BASE-TX
● USB	Type-A
● USB	Type-B
● MICROPHONE IN	Microphone jack: Mini Jack
<b>Acoustic Noise *5</b>	
● Lamp mode: Low	29dB
<b>Operating temperature / Operating humidity</b>	
● Operating temperature / Operating humidity	0 °C to 40 °C (32 °F to 104 °F) /20-80% (no condensation)
<b>Storage temperature / Storage humidity</b>	
● Storage temperature /Storage humidity	-10 °C to +60 °C (14 °F to +140 °F) /20% to 80% (no condensation)
<b>Power requirements</b>	

● Power requirements	AC 100 V to 240 V, 3.4 A to 1.5 A, 50 Hz / 60 Hz
<b>Power consumption</b>	
● AC 100 V to 120 V	Lamp mode: High 333 W
● AC 220 V to 240 V	Lamp mode: High 320 W
<b>Power Consumption (Standby Mode)</b>	
● AC 100 V to 120 V	0.50 W (when "Standby mode" is set to "Low")
● AC 220 V to 240 V	0.50 W (when "Standby mode" is set to "Low")
<b>Power Consumption (Networked Standby Mode)</b>	
● AC 100 V to 120 V	5.5W (LAN) 6.0W (optional WLAN module) 6.2W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")
● AC 220 V to 240 V	5.8W (LAN) 6.3W (optional WLAN module) 6.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")
<b>Standby Mode Networked Standby Mode Activated</b>	
● Standby Mode Networked Standby Mode Activated	Approx. 10 Minutes
<b>Wireless Network(s) On/Off Switch</b>	
● 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
<b>Heat dissipation</b>	
● AC 100 V to 120 V	1136 BTU/h
● AC 220 V to 240 V	1092 BTU/h
<b>Dimensions (W x H x D)</b>	
● Dimensions (W x H x D) (without protrusions)	Approx. 365 x 96.2 x 252mm (14 3/8 x 3 25/32 x 9 29/32")
<b>Mass</b>	
● Mass	Approx. 3.9kg (8.6 lb)
<b>Supplied accessories</b>	
● Remote commander	RM-PJ8
<b>Wireless LAN Module</b>	
● Optional Lamp	LMP-E221
● Optional Accessories	IFU-WLM3
<b>Notes</b>	
● *1	The values are estimate
● *2	This value is average with lamp dimming.
● *3	The figures are approximate. They vary depending on the environment or how the projector is used.
● *4	The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.
● *5	The figures are approximate. They vary depending on the environment or how the projector is used.

### Lamps



#### **LMP-E221**

Replacement Lamp for the  
VPL-E300/E400/E500 Series