# Procure

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# 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.

- **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) |

**Displayable scanning frequency**

| | |
|---|---|
| ● Horizontal | 15 kHz to 92 kHz |
| ● Vertical | 48 Hz to 92 Hz |

**Display resolution**

| | |
|---|---|
| ● Computer signal input | Maximum display resolution: 1600 x 1200 dots, fV: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 |

**Colour system**

| | |
|---|---|
| ● Colour system | NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 |

**Keystone Correction (Max) *4**

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

**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) |

**INPUT OUTPUT (Computer/Video/Control)**

| | |
|---|---|
| ● INPUT A | RGB / Y PB PR inputconnector: Mini D-sub 15 pin female<br>Audio input connector: Stereo mini jack |
| ● INPUT B | RGB input connector: Mini Dsub 15 pin female<br>Audio input connector: Stereo mini jack |
| ● INPUT C | HDMI input connector: HDMI 19-pin, HDCP support<br>Audio input connector: HDMI audio support |
| ● INPUT D | HDMI input connector: HDMI 19-pin, HDCP support<br>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<br>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 |

**Acoustic Noise *5**

| | |
|---|---|
| ● Lamp mode: Low | 29dB |

**Operating temperature / Operating humidity**

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

**Storage temperature / Storage humidity**

| | |
|---|---|
| ● Storage temperature /Storage humidity | -10 °C to +60°C (14°F to +140°F) /20% to 80% (no condensation) |

**Power requirements**

| Power requirements | AC 100 V to 240 V, 3.4 A to 1.5 A, 50 Hz / 60 Hz |
|---|---|

## Power consumption

| AC 100 V to 120 V | Lamp mode: High 333 W |
|---|---|
| AC 220 V to 240 V | Lamp mode: High 320 W |

## Power Consumption (Standby Mode)

| 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") |

## Power Consumption (Networked Standby Mode)

| AC 100 V to 120 V | 5.5W (LAN)<br>6.0W (optional WLAN module)<br>6.2W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard") |
|---|---|
| AC 220 V to 240 V | 5.8W (LAN)<br>6.3W (optional WLAN module)<br>6.6W (ALL Terminals and Networks Connected, when "Standby Mode"is set to "Standard") |

## Standby Mode Networked Standby Mode Activated

| Standby Mode Networked Standby Mode Activated | Approx. 10 Minutes |
|---|---|

## Wireless Network(s) On/Off Switch

| Wireless Network(s) On/Off Switch | 1) Press the MENU button, then select [Connection/Power]<br>2) [WLAN Settings]<br>3) [WLAN Connection]<br>4) Select On or Off |
|---|---|

## Heat dissipation

| AC 100 V to 120 V | 1136 BTU/h |
|---|---|
| AC 220 V to 240 V | 1092 BTU/h |

## Dimensions (W x H x D)

| Dimensions (W x H x D) (without protrusions) | Aprox. 365 x 96.2 x 252mm (14 3/8 x 3 25/32 x 9 29/32") |
|---|---|

## Mass

| Mass | Approx. 3.9kg (8.6 lb) |
|---|---|

## Supplied accessories

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

## Wireless LAN Module

| Optional Lamp | LMP-E221 |
|---|---|
| Optional Accessories | IFU-WLM3 |

## Notes

| *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