

## 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.

## Specifications

### Display System

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

### Display device

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

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

### Projection lens

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

|                        |        |
|------------------------|--------|
| Zoom<br>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: High 10000 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.) 10,000H

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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 \*1

Lamp mode: High 3200 lm

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Lamp mode: Standard 2300 lm

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Lamp mode: Low 1800 lm

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## Color light output \*1

Lamp mode: High 3200 lm

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Lamp mode: Standard 2300 lm

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Lamp mode: Low      1800 lm

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

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

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## Speaker

Speaker      Speaker 16 W (monaural)

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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, fV:60Hz

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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

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## 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  
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<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

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

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## Power requirements

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

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## Power consumption

AC 100 V to 120 V                      Lamp mode: High 333 W

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AC 220 V to 240 V                      Lamp mode: High 320 W

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## Power Consumption (Standby Mode)

AC 100 V to 120 V                      0.50 W (when “Standby mode” is

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|                   |  |
|-------------------|--|
| AC 100 V to 120 V | 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

1) Press the MENU button, then

|                                      |  |
|--------------------------------------|--|
| Wireless Network(s)<br>On/Off Switch | 1) Press the MENU button, then<br>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)<br>(without protrusions) | Aprox. 365 x 96.2 x 252mm (14 3/8 x<br>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 |
|---------------|----------|

## 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.  |
| 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 |

[www.sony.com/mercury](http://www.sony.com/mercury) for  
additional information.

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## Gallery

