SONY

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)

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 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

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) 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")

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] 2) [WLAN Settings] 3) [WLAN Connection] 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.

Accessories

Lamps



LMP-E221

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