

VPL-EX245

Full featured, energy-efficient portable XGA projector designed for the demanding budget conscious educator

Just as teaching methods are adapted to match student ability levels, so we design our AV technology for the education sector to meet specific requirements. Working closely with teachers and students, we have created a comprehensive range of education projectors designed to ensure that schools have reliable, long lasting projectors that capture attention and enhance learning.

For great Performance, easy convenience and eco and economic responsibility the VPL-EX245 is the perfect choice for the classroom. .

For Great Performance - Sony's inorganic panels (BrightEra) delivers higher picture quality, substantially brighter images, higher efficiency, better contrast, consistent colour stability and longer durability and usability.

For Easy Convenience – the VPL-EX245 offers 3200lm, XGA, 3000:1, X1.6 Zoom, 2 XRGB, HDMI, USB, S-Video, Video in, RJ45, RS232, 1X Mon. out, Mic Audio / Speaker, in a chassis that is just a little over 2.5kg

With eco conscious features that ensure outstandingly low total cost of ownership the projector provides 7000 hours of lamp life, three brightness mode, auto lamp dimming, auto picture dimming and an ECO Gauge that makes the VPL-EX245 one of the most eco-friendly projectors available.

PrimeSupport

All Sony education projectors come supplied with a 3-year support pack, which offers unique extra services and benefits:

- 3 years' cover and 3 year lamp (or 3000 hours)
- Free telephone helpdesk support in English, German, French, Italian and Spanish
- Collection and delivery anywhere in the EU, Norway and Switzerland

PrimeSupport Plus

For customer peace of mind we have designed additional PrimeSupport packs that give that extra support if needed.

- 2yr extension of current service level for a total of 5 Years PrimeSupport coverage
- Immediate loan unit service to current 3 Year PrimeSupport pack (above)

- Immediate loan and 2 year extension for the ultimate package for a complete 5 year coverage with immediate loan service

Features

Maximum 3200 lumens brightness with High, Standard and Low modes

The VPL-EX245 features three brightness modes for your different uses – High for naturally white presentations in bright rooms, Standard for everyday use, and Low for video in darkened rooms.

1.40-2.27:1 throw ratio

The VPL-EX245 offers a throw ratio that accommodates the majority of installation replacements in all education environments.

3-LCD BrightEra Technology

Sony's 0.63 inch BrightEra inorganic TFT 3-LCD panels deliver improved panel light resistance, higher resolution, high brightness and increased panel reliability.

XGA Resolution

The VPL-EX245 has a colour light output of 3200 ANSI lumens and with a native XGA (1024 x 768) 4:3 screen resolution panel is perfect for presentations direct from a laptop or PC.

7000 hours Lamp Life

New driving scheme reduces gap expansion that reduces brightness gradation and a new cooling system allows uniformity in the temperature of the glass bulb which prevents the glass from clouding.

Eco Mode Key

Users can easily select power-saving Eco Modes. The most energy-efficient mode is accessible through a single button-push and further adjustments are available through an easily understood menu system.

ECO Lamp Dimming

Reduce power consumption without user detection or after a user pre-set time, reduce brightness and power consumption up to 30% power usage for ultimate power eco savings.

Auto Dimming Mode

Adjust brightness depending on picture, The darker the picture, the less energy used by the lamp. (Max 70% Lamp power reduction based on image).

ECO Picture Mute - (Instant off / Instant On)

New Picture Mute reduces power consumption down to 30% power usage, saving cost and lamp hours. No need to power complete off and turn back on that does increase power consumption and time consuming.

Eco Gauge

At time of projector shut down an ECO achievement indication (gauge) appears to show the user how well they have used their projector. The more Eco features used, the better the ECO green leaf mark. (Calculated by use of Eco Functions and actual lamp wattage)

Vertical Keystone Adjustment

The projector can correct keystone distortion by +/- 30% for perfect installation adjustment to the smart board or screen. (Note that since this is an electronic correction, it will reduce the picture quality slightly).

Smart APA (Auto Pixel Alignment)

When a computer is used as a picture source, APA automatically optimises Phase, Pitch and Shift values. These can also be adjusted manually.

Auto Input Search

Auto Input Search detects which input has an incoming signal, and automatically switches to it. This makes it easier for users to set up the projector prior to making a presentation.

Picture Muting

If the picture needs to be turned off, all it takes is a single button-press on the remote control. This will mute audio at the same time. There is also a separate "mute audio" button for audio-only muting.

Audio switcher facility

To avoid the need for a separate audio switcher, the projector can be used to select between two audio

sources, routing them via a variable audio output to the room amplification system.

Picture Freeze Function

Picture Freeze is useful during presentations if you need to look at other material on your PC's screen without the viewing audience being aware. Freeze the current image, and you can use your PC independently of the display from the projector.

Digital Zoom

With Digital Zoom, if you are displaying a computer-sourced image, you can enlarge a selected area of the screen image up to four times.

Off and Go

At the end of a presentation, you can turn off the power supply to the projector immediately, instead of going through a 'power down' cycle.

Direct Power On/Off

With this function, there is no need to go through 'Standby' mode when powering up the projector. The projector can be set to activate as soon as power is applied.

Filter replaced at the same time as lamp

The filter only needs to be changed when a new lamp is fitted, potentially halving disruption due to maintenance.

Multiple Picture Modes

The VPL-EX245 has six picture modes (Dynamic, Standard, Game, Blackboard, Cinema and Presentation) that can be selected to suite the nature of the source material.

Built-in security measures

The VPL-EX245 has a package of security measures, including password protection, and physical anti-theft anchor points.

Technical Specifications

Display system	3 LCD system
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Display device	
Size of effective display area	0.63" (16.0 mm) x 3, BrightEra, Aspect ratio: 4:3
Number of pixels	2,359,296 (1024 x 768 x 3) pixels

Projection lens	
Zoom (Manual)	X1.6
Focus	Manual

Digital Zoom	X4
Light source	High-pressure mercury lamp 210 W type
Recommended lamp </br> replacement time*1	3000 H / 5000 H / 7000 H (Lamp mode: High / Standard / Low)
Filter cleaning cycle	Max. 7000 (Lamp Mode: Low) Same time as the lamp replacement is recommended
Screen size	30" to 300" (0.762m to 7.62m)

Light output (Lamp mode: High / Standard / Low)	3200 lm / 2200 lm / 1700 lm
Color light output	3200 lm / 2200 lm / 1700 lm
Contrast ratio (full white / full black)*3	3000:1
Speaker	16 W x 1 (mono)

Displayable scanning frequency

Horizontal	19 kHz to 92 kHz
Vertical	48 Hz to 92 Hz

Display resolution

Computer signal input	Maximum input signal resolution: UXGA 1600 x 1200 fV:60Hz (resizing display), Panel display resolution: 1024 x 768 pixels
Video signal input	Video (composite), 15k (480/60i, 576/50i), DTV (480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i 1080/60p. 1080/50p)
Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N
Keystone correction	Vertical: Max. +/- 30 degrees
OSD language	23-language (English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese(????), Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic ,Turkish, Polish, Vietnamese, Farsi, Finnish*, Indonesian*, Hungary*) * From August 2012

Computer and video signal input/output

INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio: Stereo mini jack
INPUT B	RGB / Y PB PR input connector: Mini D-sub 15-pin (female), Audio: Stereo mini jack
INPUT C	HDMI (Digital RGB/Y Pb Pr, Digital Audio) HDCP Support
VIDEO IN	Video input connector: Pin jack, Audio: Pin jack X2 / Shared with S-Video
S VIDEO IN	Mini DIN 4-pin Audio: Pin jack X2 / Shared with S-Video

MONITOR OUT	Mini D-Sub 15-pin (From Input A and Input B)
AUDIO OUT	Stereo mini jack (variable out)
RS232C	D-sub 9-pin (male)
LAN	RJ-45 10BASE-T/100BASE-TX
USB	Type A, Type B
Operating temperature (Operating humidity)	0°C to 40°C / 32°F to 104°F (35% to 85% (no condensation))
Storage temperature (Storage humidity)	-20°C to +60°C / -4°F to +140°F (10% to 90%)
Power requirements	AC 100 V to 240 V, 3.2 - 1.3A 50 Hz /60 Hz

Power consumption

AC 100 V to 120 V	315W / 254W / 225W
AC 220 V to 240 V	305W / 248W / 220W

Standby mode power consumption

AC 100 V to 120 V	5.9W (std) 0.1 W (Standby mode: Standard / Low)
AC 220 V to 240 V	5.9W (std)

Heat dissipation

AC 100 V to 120 V	1075 BTU
AC 220 V to 240 V	1041 BTU
Standard outside dimensions	W 365 x H 96.2 x D 252 mm (without protrusion) W 365 x H 105.3 x D 252.5 mm (with Protrusion)
Mass	4kg / 8lb 11oz

Supplied Accessories

RM-PJ7	Remote Commander RM-PJ8 (1)
CR2025	Lithium Battery (1)
	Mini D-sub 15-pin cable (1)
	Operating Instructions (1) WEEE, EU Battery Info, Service Documentation
	Quick Reference Manual (1)

Optional Accessories

IPN-WLN3	USB wireless module
LMP-E212	Replacement Projector Lamp
442670201 (FILTER)	Replacement Filter (Service Part)