SONY

VPL-EX200 Series
XGA Digital Projector

VPL-EX293

VPL-EX253

VPL-EX233

3LCD **BrightEra** TM **HDMI**

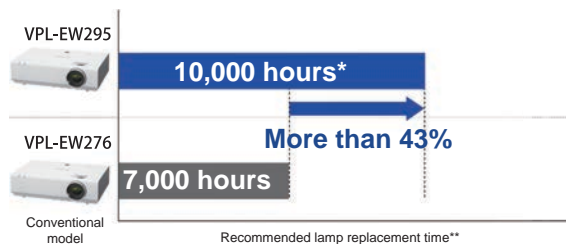# Sony High-Efficient, Environmental Friendly,Energy-Saving Model Suitable for Education

Combining superb image quality with smart energy-saving features, the VPL-EX200 Series portable projector enhances learning by delivering powerful presentations that really stand out. Simple to use and wireless-ready, this projector is ideal for maximizing student engagement in today's networked classrooms, making it your ideal partner throughout the busy school day. Sony BrightEra™ panel technology assures clear pictures in any conditions. Plenty of interfaces allow easy connection, while the choice of picture modes can optimize viewing with any source – slide presentations, PC document, pictures, videos, websites, and more. Adding an optional USB wireless LAN module lets students and teachers wirelessly share homework and images from mobile devices like smartphones or tablets. There's a wide built-in range of smart energy-saving features and, with a recommended lamp replacement time of 10,000 hours, downtime and maintenance costs are minimized.

Features

Low Operating Cost, Energy-efficient Design

Energy Efficient With Long-Lasting Lamp, Recommended Replacement Time up to 10,000 hours

It optimally controls the wattage of the lamp and achieves a long-lasting lamp replacement time of 10,000 hours with lamp brightness set to low*. This extends the lamp replacement time by more than 43% compared with the previous model.

VPL-EW295

10,000 hours*

More than 43%

VPL-EW276

7,000 hours

Conventional model

Recommended lamp replacement time**

Lamp mode: low

Complies with IEC61947 standard

*Usage condition example: 8 hours per day x 5 times per week x 5 years.
**The figures are the expected maintenance time, they will depend on the environment or how the projector is used.

Auto Power Saving Function

● Auto Mode (Auto Brightness Adjustment Function)

For VPL-EX200 Series projector, the brightness of the lamp's output is automatically adjusted depending on the brightness of the projected image, to avoid unnecessary power consumption. When showing darker images that do not require high brightness, lamp output decreases.
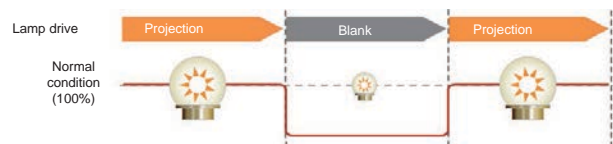
Lamp drive
High

High Image Quality

3LCD BrightEra™ Natural and Vivid Color Images

Thanks to 3LCD BrightEra™ LCD panel, the projector offers excellent light efficiency and this, ensures colorful and bright images. Sony's BrightEra™ panels deliver improved panel light resistance, higher resolution, high brightness, and increased panel reliability. High color reproducibility is important especially when using colorful content, such as materials typically used in classrooms.
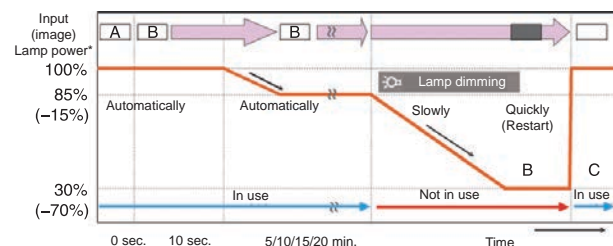
● Blank mode

The VPL-EX200 Series projectors can temporarily disable video signal output. This function can be easily operated with just the touch of a button (BLANK) on the supplied Remote Commander™ unit. In addition, this function allows blank image projection with low power consumption using lamp control technology.

Lamp drive | Projection | Blank | Projection

Normal condition (100%)

● Lamp Dimming Function

The VPL-EX200 Series projectors are equipped with a lamp dimming function. After 10 seconds of a static signal feed, the lamp dims by approximate 15% automatically. After a set period of time, it will automatically detect no change of signal input and will dim the lamp to as low as approximate 30% of original brightness to significantly reduce energy consumption.

Input (image)
Lamp power*

100%

85% (−15%) Automatically Automatically Slowly Quickly (Restart)

Lamp dimming

30% (−70%) In use Not in use In use

0 sec. 10 sec. 5/10/15/20 min. Time

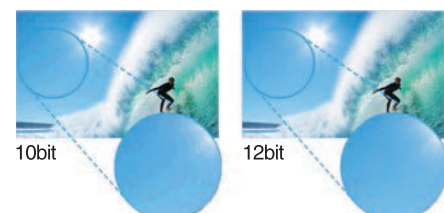### Brand New Electrostatic Filter Screen

With the foldable design, the electrostatic filter screen can absorb the dust in the air passing the filter screen more effectively and provide a more powerful dust-proofing effect, so as to protect the optimal projection effect and extend the service life of the projector.

ECO MODE Key

With a single push of the ECO MODE key on either the projector or the supplied Remote Commander™ unit, users can select an energy-saving setting from the ECO Mode menu.

12-bit 3D Gamma Correction

Smooth picture

10bit   12bit

Various Picture Modes

The projector has six available picture modes for correct picture quality: Dynamic, Standard, Presentation, Blackboard, Cinema, and Game. With six picture modes and three brightness modes combined, the user can select the most suitable picture / brightness combination according to the picture source and environment, to create the optimal image.

Dynamic

Optimized for presenting in a bright environment, with bright and colorful text, graphics, and images.

Standard

The picture is ideal for delivering a presentation under fluorescent lights in offices or classrooms.

Presentation

This setting delivers the greatest light output-- ideal in a bright environment, both inside and outside.

Blackboard

Optimized to deliver clear images on a blackboard in the classroom, supporting teaching where there is no projection screen.

Gaming
Ideal for enjoying games in a living room with lots of ambient light.

Cinema
Fine-tuned to enjoy movies in a room with indirect lights.

Ease of Use

Network Presentation (LAN)

When the projector is installed in a LAN, presentations can be projected from any PC and Mac on the network.
A tablet or smart phone can be connected at the same time. You can project JPG, PDF, and other supported formats. Up to four users can project PC / Mac images simultaneously, while up to eight[1] users can connect to one projector.

Wireless Presentation Software

For MS Windows/Mac operating system: Projector Station for Network Presentation
For iOS/Android operating system: VueMagic[2]

[1] Up to seven users for wireless.

[2] The application for tablets and smartphones is provided by Pixelworks.

For details, please visit the following website:
http://PWPresenter.pixelworks.com

VueMagic

Remote Control for iPhone/iPad

Projector Remote is a simple remote control application for Sony's projectors. Networked projectors can be controlled by this remote application, and remote control allows you to operate the projector easily.

*Projector Remote Application
Scan the QR code.
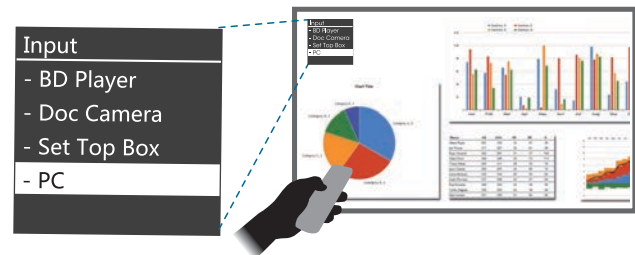Download FREE today.

Projector Remote

USB Display

The projector allows you to display pictures and audio* with one USB cable. You do not need to install any driver for this function. This is a convenient and very easy way to connect to the projector.

* There is a time lag in video and audio. Beyond basic usage, Line-in or HDMI-in is recommended.

Input Label

Input label (equipment name) which appears in the input menu on screen can be customized. This gives users a clear understanding of which equipment is connected.

Input
- BD Player
- Doc Camera
- Set Top Box
- PC

Other Features

Network and Control

Controls and monitors projector status
Compatible with various control systems

Specifications

		VPL–EX293	VPL–EX253	VPL–EX233
Display system		3 LCD system		
Display device	Effective display area	0.63" (16 mm) x 3 BrightEra™ Aspect ratio: 4:3		
	Number of pixels	2,359,296 (1024 x 768 x 3) pixels		
Projection lens	Zoom	Optical: (Approx. x 1.6)		Optical: (Approx. x 1.3)
	Focus	Manual		
	Throw ratio	1.40:1 to 2.27:1		1.37:1 to 1.80:1
Light source		Ultra high pressure mercury lamp 210 W type		
Recommended lamp replacement time*1		6,000H / 10,000H (Lamp mode: Standard / Low)	5,000H / 10,000H (Lamp mode: Standard / Low)	
Screen size		30" to 300" (0.76 m to 7.62 m)		
Luminous flux*2 (Lamp mode: High)		3800 lm	3300 lm	2800 lm
Color light output*3 (Lamp mode: High)		3800 lm	3300 lm	2800 lm
Displayable scanning frequency	Horizontal	14 kHz to 93 kHz		
	Vertical	47 Hz to 93 Hz		
Display resolution	Computer signal input	Maximum display resolution: UXGA 1600 x 1200 dots*4 Panel display resolution: 1024 x 768 dots		
	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		
Color system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL–M, PAL–N		
Keystone correction		Vertical: Max. +/- 30 degrees		
Computer and video signal Input/Output	Input A	RGB/Y $P_B P_R$ input connector: Mini D-sub 15-pin (female)		
	Input B	RGB input connector: Mini D-sub 15-pin (female)		
	Input C	HDMI input connector: HDMI 19-pin, support HDCP, audio input connector: HDMI audio support		
	S VIDEO IN	S video input connector: Mini DIN pin		
	VIDEO IN	Video input connector: pin jack		
	OUTPUT	Monitor output connector*5: Mini D-sub 15-pin (female)		
Control signal input/output, Others		RS-232C connector: D-sub 9-pin (male), network connector: 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%; no condensation)		
Power supply		AC 100 V to 240 V 3.0 A to 1.3 A 50 Hz / 60 Hz	AC 100 V to 240 V 2.8 A to 1.2 A 50 Hz / 60 Hz	
Power consumption (Lamp mode: High)	AC 220 V to 240 V	271W	256 W	
Standby mode power consumption (Standby mode: Standard / Low)	AC 220 V to 240 V	5.1 W / 0.5 W		
Heat dissipation	AC 220 V to 240 V	925 BTU	874 BTU	
Outside dimensions		W 365 x H 96.2 x D 252 mm (without protrusions)		
Mass		3.8 kg		
Supplied accessories		RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), Operating Instructions (1), Mini D-sub 15-pin cable (1), Projector Station for Network Presentation application (CD-ROM) (1), Warranty Card (1)		
Optional accessories		Lamp LMP-E212 (replacement), USB wireless connector IFU-WLM3		

*1 The figures are the expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used.
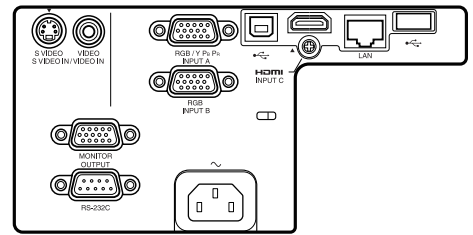
*2 Based on ISO21118 Standard. The brightness value prescribed by ISO21118 Standard is the average value of products under batch production. 80% of the brightness value shown here is the minimum value when delivery. Actual brightness will vary based on lamp mode setting.

*3 Testing based on the Company's prescribed method or refer to http://www.3lcd.com/cn/benefits/default.html, 80% of the brightness value shown here is the minimum value when delivery.

*4 Available for the VESA Reduced Blanking signal.

*5 Not available in standby. From INPUT A and INPUT B.

Connector panel

VPL-EX293 / VPL-EX253 / VPL-EX233

OPTIONAL ACCESSORIES

LMP_E212
Projector Lamp (for replacement)

IFU_WLM3
USB wireless LAN module

PEAK CONFERENCE
www.PeakConference.com