VPL-EX235

2,800 lumens XGA portable projector with wireless connectivity



Overview

Bring learning to life with this bright, energy-efficient, wireless-ready portable projector that has been designed in consultation with teachers and made for today's classrooms

Combining superb XGA image quality with smart energy-efficient features, the VPL-EX235 portable projector enhances learning with powerful presentations that really stand out. Simple to use and wireless ready, the projector is ideal for maximising 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, from daylight to darkened classrooms. Plenty of interfaces allow easy connection, while a choice of Picture Modes optimises viewing with any source – slide presentations, PC documents, pictures or videos. Adding an optional Wi-Fi module lets students and teachers wirelessly share homework, images and graphics from mobile devices like smartphones and tablets. There's a wide range of smart energy-saving features built in. And with a recommended lamp replacement time of 10,000 hours, downtime and maintenance costs are minimised.



Features

• Energy efficient with long-lasting lamp of 10,000 hours

The lamp driver optimally controls the wattage of the lamp and achieves a long-lasting lamp time of 10,000* hours. The recommended lamp replacement time is extended by 43%, compared to the previous model. *Lamp mode: low, Complies with IEC61947 standard

Advanced energy-saving features

Advanced lamp technology enables robust energy-saving features. For example, greater brightness control in Auto Light Dimming mode saves considerable energy when the projector is left on without being used. During projection, Auto Lamp Mode automatically adjusts light output to suit the projected scene. When you need to mute the picture temporarily, light output can be completely deactivated to minimise energy consumption.

High image quality 3LCD BrightEra™ natural and vivid colour images

XGA (1024 x 768) 4:3 screen resolution, 3LCD BrightEra[™] natural and vivid colour images, plus various Picture Modes for optimising image quality, make the projector one of the best in its class. Thanks to the optical system projecting three basic colours constantly, the projector offers excellent light efficiency, ensuring colourful and bright images. Sony's BrightEra[™] panels deliver improved panel light resistance, higher resolution, high brightness and increased panel reliability. High colour reproducibility is important especially when using colourful content, such as materials used in classrooms.

Various picture modes for optimal picture quality

The projector has six available picture modes for correct picture quality: Dynamic, Standard, Presentation, Blackboard, Game, and Cinema. 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.

Network presentation (LAN/Wireless LAN)

When the projector is installed in a LAN, presentations can be projected from any PC and Mac on the network. A tablet or smartphone 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 users can connect to one projector. For PC/Mac, an application, Projector Station for Network Presentation, is provided. For a tablet/smartphone, an application is provided by Pixelworks, downloaded from the web. For details, please visit: http://PWPresenter.pixelworks.com

Remote control for iOS device

Projector Remote is a simple remote control application for Sony's projectors. Networked projectors can be controlled by this remote application. Remote Control allows you to operate the projector with simple and easy-to-read buttons.

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. It is a convenient way to connect to the projector when you want to connect easily.

* There is a time lag in video and audio. When not in simple use, it is recommended to use Line-in or HDMI-in.

Input Label

The input label, which appears in the input menu on screen, can be customised. This gives users a clear understanding of which equipment is connected.

Built-in speaker

The projector includes a 16W monaural speaker.

Technical Specifications

Display System		
Display System	3 LCD system	
Display device		
Size of effective display area	0.63"(16 mm) 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 1.3	
Throw Ratio	1.37:1 to 1.80:1	I
ight source		
• Туре	Ultra high pressure mercury lamp	
• Wattage	210 W type	
Recommended lamp replacement time*1		
Lamp mode: High		3000 H
Lamp mode: Standard		5000 H
Lamp mode: Low		10000 H
Filter cleaning / replacement cycle (Max.)*1		
• Filter cleaning / replacement cycle (Max.)	7000) H (cleaning)
Screen size		
Screen size	30" to 300" (0.76 m to 7.62 m)(measured diagonally)	
.ight output		
Lamp mode: High		2800 lm
Lamp mode: Standard		2100 lm
Lamp mode: Low		1600 lm
Color light output		
Lamp mode: High		2800 lm
Lamp mode: Standard		2100 lm
Lamp mode: Low		1600 lm
Contrast ratio (full white / full black)*2		
Contrast ratio (full white / full black)		3300:1
Speaker		

Speaker		16 W x 1 (monaural)
Displayable scanning	g 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*3
 Video signal input 	NTSC, PAL, SECAM, 480/60 only; 1080/60p, 1080/50p	i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, The following items are available for digital signal (HDMI input)
Color system		
Color system	1	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N
Keystone correction	(Max.)	
Vertical		+/-30 degrees
OSD language		
OSD 24-langua		alian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional bic, Farsi, Finnish, Indonesian, Hungarian, Greek)
INPUT OUTPUT (Cor	nputer/Video/Control)	
INPUT A		RGB / Y PB PR input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack
INPUT B		RGB input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack
INPUT C		HDMI input connector: HDMI 19-pin, HDCP support
• S VIDEO IN		S video input connector: Mini DIN 4-pin Audio input connector: Pin jack (x2) (shared with VIDEO IN)
• VIDEO IN		Video input connector: Pin jack Audio input connector: Pin jack (x2) (shared with S VIDEO IN)
OUTPUT		Monitor output connector*4: Mini D-sub 15-pin (female) Audio output connector*5: Stereo mini jack (variable out)
• REMOTE		RS-232C connector: D-sub 9-pin (male)
• LAN		RJ-45, 10BASE-T/100BASE-TX
• USB		Туре-А
• USB		Туре-В
MICROPHONE II	N	Microphone jack: Mini Jack
Acoustic noise		
Lamp mode: Low		30 dB
Operating temperatu	re / Operating humidity	
 Operating temper 	ature / Operating humidity	0°C to 40°C (32 $^{\circ}\text{F}$ to 104 $^{\circ}\text{F})$ / 35% to 85% (no condensation)
Storage temperature	/ Storage humidity	
	ure / Storage humidity	-20 $^{\circ}C$ to +60 $^{\circ}C$ (-4 $^{\circ}F$ to +140 $^{\circ}F)$ / 10% to 90% (no condensation)
Power requirements		

Power requirements

Power consumption

• AC 100 V to 120 V

Lamp mode: High: 310 W

• AC 220 V to 240 V

Lamp mode: High: 299 W

After about 10 Minutes

1013 BTU/h

976 BTU/h

- Power Consumption (Standby Mode)
- 0.5 W (when "Standby mode" is set to "Low")

AC 220 V to 240 V

• AC 100 V to 120 V

0.5 W (when "Standby mode" is set to "Low")

• AC 100 V to 120 V	5.0 W (LAN) 5.6 W (optional WLAN module) 5.8 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
• AC 220 V to 240 V	5.3 W (LAN) 5.9 W (optional WLAN module) 6.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")

Standby Mode / Networked Standby Mode Activated

Standby Mode / Networked Standby Mode Activated

Wireless Network(s) On/Off Switch

• Wireless Network(s) On/Off Switch

Press the MENU button, then select [Connection/Power]
 [WLAN Settings]
 [WLAN Connection]
 Select On or Off

Heat dissipation

- AC 100 V to 120 V
- AC 220 V to 240 V

Dimensions (W x H x D)

• Dimensions (W x H x D) (without protrusions)

Approx. 365 x 96.2 x 252 mm (14 3/8 X 3 25/32 X 9 29/32 inches)

Mass Approx. 3.9 kg (8 lb)
Supplied accessories
Remote commander RM-PJ8

Optional Accessories	
Optional Lamp	LMP-E212
Wireless LAN module	IFU-WLM3

Notes	
• *1	This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.
• *2	The value is average.
• *3	Available for VESA Reduced Blanking signal.
• *4	From INPUT A and INPUT B.
• *5	Works as an audio switcher function. Output from a selected channel; not available in standby.



Accessories

Ceiling Brackets



Projector Ceiling Mount for Installation Projector



IFU-WLM3 USB wireless LAN module

Wireless TX/RX Accessories

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