SONY

VPL-FHZ80

6,000 lm (6,500 lm centre) WUXGA laser light source projector

Overview

Powerful, compact and beautifully styled, the VPL-FHZ80 WUXGA 3LCD laser projector is bursting with Sony innovation for consistently rich, colourful images with an impressive 6,000 lm (6,500 lm centre) brightness.

Even powerful projectors can suffer from washed-out colours in strongly-lit conference rooms and classrooms. The VPL-FHZ80 features new Bright View processing technology to ensure bright, high-impact images that don't sacrifice colour.

Impressive WUXGA picture quality is boosted by newly improved Reality Creation technology. Images are analysed and compared against Sony's unique pattern database, using re-pixel mapping to ensure that video, diagrams and text always look crisp and sharp.

Intelligent Setting fine-tunes brightness, colour, cooling and other projector parameters for consistently clear, bright pictures in real-world operating conditions. There's even an ambient light sensor that adjusts image brightness to suit the environment.

The VPL-FHZ80 is ideal for integration in corporate, education and public environments. Its class-leading lens shift adjustment range and wide choice of interchangeable lenses broaden

installing possibilities in any space, including rooms and halls with high ceilings. Installation is further simplified with Sony's Intelligent Setting that optimises brightness, cooling, colour and other projector settings for great pictures in every environment.

Maintenance requirements are reduced by the sealed laser light source and automated filter cleaning system that prevent dust build-up, ensuring cool, efficient operation with uncompromised image brightness.

Features

Reality Creation for clearer images and text

The use of 4K photos and videos is increasingly common in presentations. While the VPL-FHZ80 is a WUXGA projector, it offers a 4K60P input to display images with quality that's close-to-true 4K resolution. Sony's powerful Reality Creation processing technology uses powerful algorithms that boost image resolution even closer to 4K clarity. Reality Text improves visibility of characters – ideal for presenting in conference rooms and classrooms.

Consistently bright, beautiful colours

Bright View is Sony's unique processing technology that brightens images while maintaining rich colours when you're presenting in brightly-lit business and educational environments.

Stylish blend-in design

The slim, stylish body features a flat top surface that blends discreetly into any space when the projector is ceiling mounted.

Generous lens shift range

The VPL-FHZ80 provides more installation freedom thanks to its class-leading vertical +70% lens shift adjustment range. Enjoy greater flexibility to position the projector in restricted spaces, ensuring that audience and presenter aren't distracted by the light source.

Versatile lens options

In addition to the supplied standard lens there's a range of lens options to suit virtually any size of room and throw requirements. The projector's quick-release bayonet mount simplifies lens exchange.

4K 60P input capable

The projector's 4K 60P input capability makes life simpler when you're using it in multi-screen set ups with other devices like flat panel sub-screens. Just split the same 4K signal to drive all your displays, with no conversion needed.

Intelligent Settings for easy installation

Intelligent Settings simplifies installation and maximises performance based on projector usage, image detail, colour richness and fidelity, light output, cooling level and output noise. The Meeting/Classroom function controls laser output to keep brightness as high as possible for a period of actual usage time. Intelligent Settings with Ambiance uses a built-in light sensor to measure room brightness, automatically adjusting Bright View mode, colour gain and Reality Creation to suit your presentation environment.

Automatic filter cleaning

The VPL-FHZ80 helps minimise time spent on routine maintenance. The projector's automated filter cleaning system removes dust every 100 hours, ensuring unrestricted clean air intake for optimised cooling.

Avoid dust build-up

The sealed laser light source ensures that dust can't accumulate, helping to maintaining image brightness and clarity over the projector's lifetime. The dedicated cooling duct for the projector's 3LCD panels is covered with an air filter to prevent dust from entering.

Data cloning

The new Data Cloning feature makes it easy to copy settings from one projector to another via USB flash memory drive. You'll appreciate the time saving when installing and setting up multiple projectors.

Auto input select
Don't get distracted by fiddling with input settings while you're preparing for your presentation. The VPL-FHZ80 automatically switches to the right input when a new source is connected to the projector.

Auto power on
Connect the VPL-FHZ80 to a switched-on computer and the projector turns on automatically from standby mode, with no need to operate the power button.

Specifications

Display system	
Display system	3 LCD system

Display device	
Size of effective display area	New LCD panel 0.76" (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10
Number of pixels	6,912,000 (1920 x 1200 x 3) pixels

Projection lens *1	
Focus	Powered

Zoom - Powered/Manual	Powered
Zoom - Ratio	Approx. x 1.6
Throw ratio	1.39:1 to 2.23:1
Lens shift - Powered/Manual	Powered
Lens shift - Range Vertical	-5%, +70%
Lens shift - Range Horizontal	+/- 32%

Light source

Type	Laser diode

Screen size

Screen size	40'' to 600'' (1.02 m to 15.24 m) (measured diagonally)

Light output *2

Mode: Standard	6000lm *3 / 6500lm (Center)*4
Mode: Middle	4800lm

Mode: Low	-

Colour light output *2

Mode: Standard	6000lm
Mode: Middle	4800lm
Mode: Low	-

Time until light output declines to 50 %*5

Mode: Standard	20000 hours
Mode: Middle	30000 hours

Contrast ratio (full white / full black) *2

Contrast ratio (full white / full black)	∞:1

Displayable scanning frequency

Horizontal	15 kHz to 93 kHz
Vertical	23 Hz to 63 Hz

Accepted signal resolution

Maximum signal resolution: 1920 x

Computer signal input	1200 *6
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,3840/60p, 3840/30p, 3840/25p, 3840/24p,4096/60p, 4096/30p, 4096/25p, 4096/24p

Keystone correction (Max.)	
Horizontal	+/- 30 degrees
Vertical	+/- 30 degrees

INPUT OUTPUT (Computer / Video / Audio / Control)	
INPUT A	RGB / Y PB PR input connector:Mini D-sub 15 pin (female) Audio input connector: Stereo mini jack
INPUT B	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with INPUT A

INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
INPUT D	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)
VIDEO IN	Video input connector: BNC Audio input connector: Shared with input A
OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack
OUTPUT B	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported Audio output, Monitor out connector: Stereo mini jack
REMOTE	D-sub 9-pin (male) / RS232C
LAN	RJ45, 10BASE-T/100BASE-TX
IR (Control S)	Stereo mini jack, Plug in power DC5V

USB	TYPE-A (for F/W update) , TYPE-A (for Power supply)

Acoustic Noise *2

Acoustic Noise (Mode: Standard / Middle)	36 dB / 34 dB

Operating temperature / Operating humidity

Operating temperature / Operating humidity	0°C to 45°C (32°F to 109°F) / 20% to 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, 5.1 A to 2.2 A, 50 Hz / 60 Hz

Power consumption

AC 100 V to 120 V	Mode: Standard: 397 W

AC 220 V to 240 V	Mode: Standard: 378 W

Power consumption (Standby Mode)

AC 100 V to 120 V	0.5W (when “Standby mode” is set to “Low”)
AC 220 V to 240 V	0.5W (when “Standby mode” is set to “Low”)

Power consumption (Networked Standby Mode)

AC 100 V to 120 V	9.8 W (LAN) 10.6 W (HDBaseT) 10.6 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")
AC 220 V to 240 V	10.9 W (LAN) 11.6 W (HDBaseT) 11.6 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	Approx. 10 Minutes

Heat dissipation

AC 100 V to 120 V	1355 BTU/h
AC 220 V to 240 V	1290 BTU/h

Dimensions (W x H x D)

Dimensions (W x H x D) (without protrusions)	460 x 169 x 494 mm 18 1/8 x 6 3/4 x 19 1/2 inches

Mass

Mass	Approx. 13 kg (28 lb)

Optional accessories

Projection Lens	VPLL-3003 / 3007 / Z3009 / Z3010 / Z3024 / Z3032

Notes

*1	With supplied standard lens
	The figures are approximate. They

*2	vary depending on the environment or how the projector is used.
*3	The value is in accordance with ISO 21118, and may differ depending on the actual unit. Brightness and contrast vary depending on use conditions and environments.
*4	The value is light output measured at centre area of screen in Standard mode, and average of all products shipped.
*5	Estimated time until light output declines to 50 % varies depending on environment.
*6	Available for VESA Reduced Blanking signal.

Gallery










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