SONY

Ultra-Short Throw 4K HDR Home Theater Projector
VPL-VZ1000ES

iF DESIGN AWARD 2017

ES 4K HDR 3D world Created by Sony TRILUMINOS DISPLAY Z-Phosphor LASER LIGHT SOURCE SXRD

Don't limit your view

Ever dream of having large screen display in your room, but then wonder where it would go?

Well, wonder no more.

Now you can have an immersive experience with over 100" of 4K HDR picture quality in any room, with no limits on the design or layout of your home. Going from living space theater and back again has never been easier.
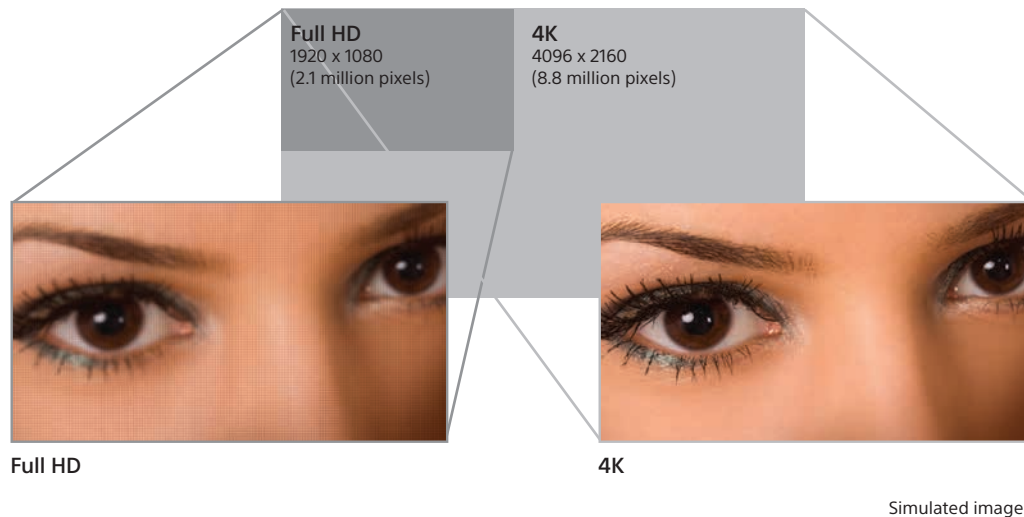
Unlock the walls of your imagination with the VPL-VZ1000ES ultra-short throw 4K HDR home theater projector.
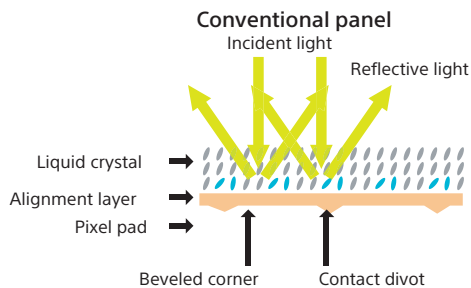
Real-life clarity with Cinematic 4K- over four times the detail of Full HD

With more than four times the resolution of Full HD, 4K offers 8.8 million pixels for a picture that's so incredibly lifelike, you could believe you're looking at the real thing. Every detail is perfectly clear, with less jagged edges and visible pixels than with a conventional Full HD projector.
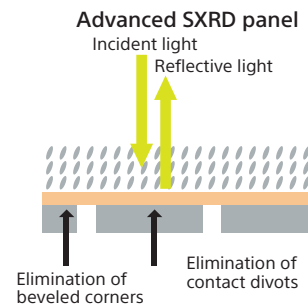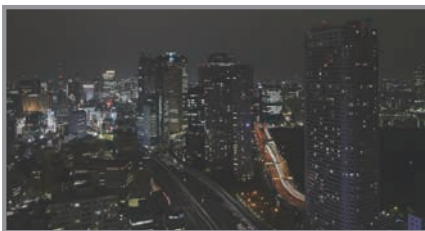
Full HD
1920 x 1080
(2.1 million pixels)

4K
4096 x 2160
(8.8 million pixels)

Full HD

4K

Simulated images

Advanced SXRD Panels

The projector's 4K native SXRD panels produce outstanding native device contrast, reproducing deep blacks thanks to the improved flatness level of the pixel surface.

Conventional panel
Incident light
Reflective light
Liquid crystal
Alignment layer
Pixel pad
Beveled corner
Contact divot

Advanced SXRD panel
Incident light
Reflective light
Elimination of beveled corners
Elimination of contact divots

Scattered light diminishes black levels

High contrast and high reflectivity

Simulated images

High brightness and contrast

With 2,500 lumens brightness and a spectacularly high contrast range, 4K images are clear and have deep blacks.
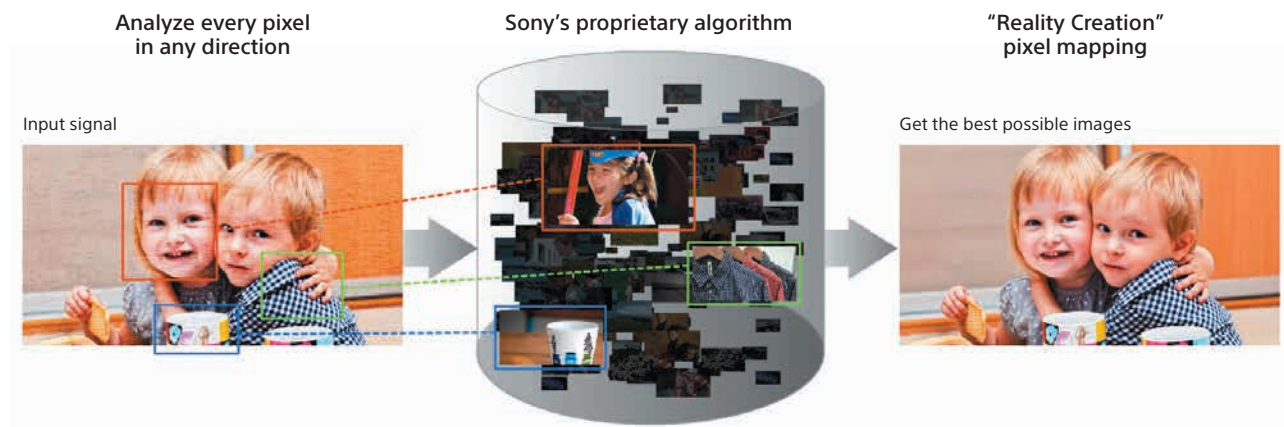
Simulated images

Reality Creation: Enjoy A Variety Of Content In 4K

As well as 4K material, you can watch your current Full HD Blu-ray™ or DVD movie collection upscaled for a 4K experience. Reality Creation is a super-resolution technology that intelligently enhances Full HD content, even upscaling 3D movies for 4K.

The VPL-VZ1000ES incorporates improved Reality Creation which works perfectly with 4K content to get the best possible images.

Analyze every pixel in any direction

Sony's proprietary algorithm

"Reality Creation" pixel mapping

Input signal

Get the best possible images

Picture patterning based on 10 years of accumulated expertise

Simulated images

HDR Compatible

This system complies with HDR (High Dynamic Range) both for 4K 24p and 4K 60p, enabling you to view the entire range of each image accurately and clearly. With the VPL-VZ1000ES, you can adjust average screen brightness, depending on your environment and preferences, while maintaining accurate HDR reproduction.

SDR* input

* Standard Dynamic Range

HDR input

Simulated images

TRILUMINOS Display

The projector's optical engine and SXRD panels incorporate our TRILUMINOS Display technology to produce a much broader color range, reproducing more tones and textures than a standard projector system. The result is greater purity, depth and realism.

Simulated images

4K Motionflow

We offer our Motionflow up to 4K, adding frames to reduce blur and maintain brightness in thrilling, fast-moving scenes. Cinema purists can choose True Cinema mode to retain the original 24 fps cadence.

Without Motionflow

With Motionflow

Simulated images

Installation Advantages

Ultra-short throw distance for flexible installation

The VPL-VZ1000ES has been designed with flexible installation in mind. Place the projector next to a wall and you'll enjoy a beautiful 80" (diagonal) display; place the projector 10.2 inches (26 cm) away from the wall and this screen size increases to a huge 120". So whether it's placed on the floor, mounted on the ceiling or used for rear projection, you can be sure that you'll always see the big picture.

80–120 in. diagonal

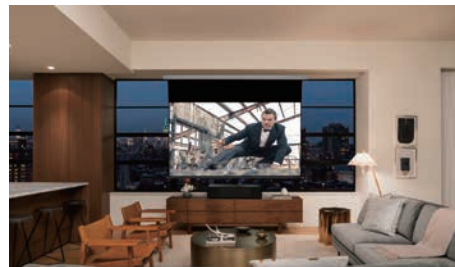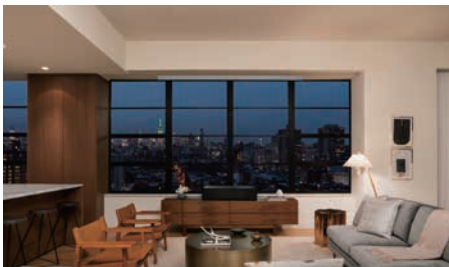Projector placed 6–10 inches away from the wall

Blend in design

Thanks to Ultra Short Throw (UST) projection and its sleek design, with side covers to conceal cabling, the display equipment fits perfectly into any room interior.

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Fits any room

Neat and compact, this is a projector that's ready for rooms of any size.
Bring immersive 4K entertainment to places where projection may not previously have been possible.
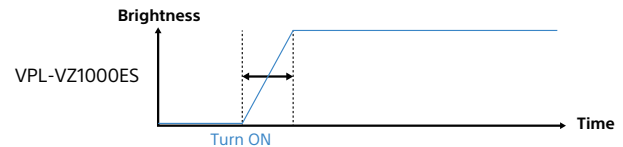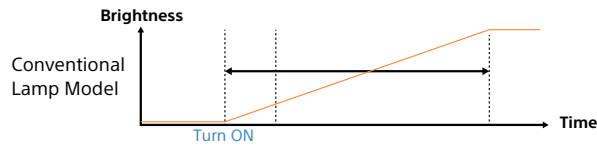
Living room

Bed room

Electronic Panel Alignment

Ensures the red and blue elements in each pixel are precisely positioned against green. Adjustments can be made by as little as 0.1 pixels for optimum clarity.

Quick turn On/Off

The laser projector can be turned on and off quickly.

Brightness

Conventional
Lamp Model

Turn ON

Time

Brightness

VPL-VZ1000ES

Turn ON

Time

Virtually no maintenance

The reliable, energy-efficient laser light source reduces lifetime running costs compared with traditional lamp-based projectors. Replacement cycles reduce maintenance overheads even further.

Low fan noise noise at 24dB*

Whisper-quiet fan noise minimizes disturbance for your audience.

* Depends on the viewing environment or how the projector is used. 24dB is based on the typical environment.

HDCP 2.2 Compatibility

All HDMI inputs are compatible with HDCP 2.2 - the latest content protection standard - ensuring readiness for future premium 4K content.

USB Updates

To get the best from your projector, there's a USB port for the latest firmware updates.

Low Latency Mode

A feature for gamers. Experience our fastest ever response time between your controller and the screen for ultimate gaming action.

Easy Connectivity for Home Automation

Complies with many home automation systems via an RJ45(IP), RS-232C, TRIGGER and IR IN interfaces.

Built-in Auto Calibration

Set-up is quick and easy: auto calibration ensures superb pictures without effort.

*This function adjusts only the White Balance

Professional Calibration

A correction tool allows you to adjust the hue, saturation, and brightness of each color and the color space for red, green and blue respectively, to get exactly the picture you want.

Industry-standard RF 3D Compatible

A built-in RF transmitter synchronizes with any RF 3D glasses for wider coverage and greater stability, and there's no need for an external transmitter.

Specifications

Display System		4K SXRD panel, projection system
Display device	Size of effective display area	0.74" x 3 SXRD
	Number of pixels	26,542,080 (4096 x 2160 x 3) pixels
Projection lens	Focus	Powered
	Zoom	Powered (Approx. x1.02)
	Lens shift	Powered
		Vertical: Vertical: +/-6 % , Horizontal: +/-3 %*3
Light source		Laser diode
Screen size		80" to 120" (2030 mm to 3050 mm)*3
Light output		2500 lm*4
Color light output		2500 lm*4
Contrast ratio		∞:1*5 (Dynamic Contrast)
Accepted digital signals*1		VGA, SVGA, XGA, WXGA(1280x768), Quad-VGA, SXGA, 720x480/60p, 720x576/50p, 1280x720/50p, 1280x720/60p, 1920x1080/50i,1920x1080/60i, 1920x1080/24p, 1920x1080/50p, 1920x1080/60p, 3840x2160/24p, 3840x2160/25p, 3840x2160/30p, 3840x2160/50p, 3840x2160/60p, 4096x2160/24p, 4096x2160/25p, 4096x2160/30p, 4096x2160/50p, 4096x2160/60p
Color bit depth		Up to 12 bit via HDMI
INPUT OUTPUT (Computer / Video / Control)	HDMI*2	HDMI (x4)
	Trigger	Mini Jack, DC 12 V Max. 100 mA
	Remote	RS-232C, D-sub 9-pin
	LAN	RJ-45, 10Base-T/100BASE-TX
	IR IN	Mini Jack
	USB	Type A, DC 5V, Max. 500 mA
OSD language		18-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Arabic)
Acoustic noise		24 dB*6
Operating temperature / Operating humidity		41°F to 95°F (5°C to 35°C) / 20% to 80% (no condensation)
Storage temperature / Storage humidity		14°F to +140°F (-10°C to +60°C) / 20% to 80% (no condensation)
Power requirements		AC 100 V to 240 V, 4.4 A to 1.9 A, 50 Hz / 60 Hz
Power consumption		435 W
	Standby	0.5 W (when "Remote Start" is set to "Off")
	Networked Standby	0.6 W (LAN) (when "Remote Start" is set to "On") When a LAN connector is not connected, the power consumption changes to low power consumption mode (0.5W).
Dimensions (W x H x D) (without protrusions)		36 13/32 x 8 19/32 x 19 7/16 inches (925 mm x 218.5 mm x 493.8 mm) (with side covers)
Weight		Approx. 77 lb (35 kg) (without side and top covers)
Optional accessories		TDG-BT500A

*1 60p,30p,24p include 59.94/60Hz, 29.97Hz/30Hz, 23.98Hz/24Hz
*2 All HDMI inputs are compatible with HDCP2.2
*3 For 16:9 display
*4 The values are estimate.
*5 This value is approximate. Depends on the projector setting condition and usage environment
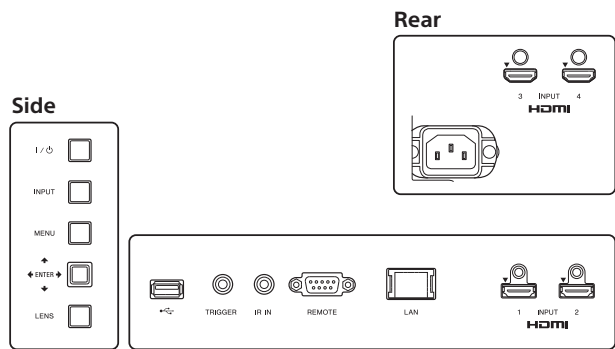*6 Depends on the viewing environment or how the projector is used. 24dB is based on the typical environment.
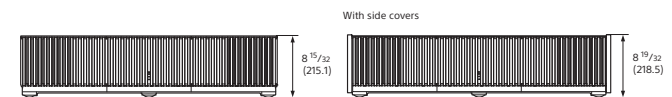
Optional Accessories
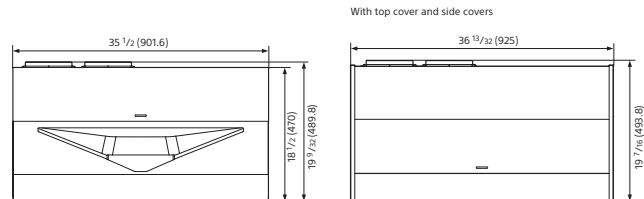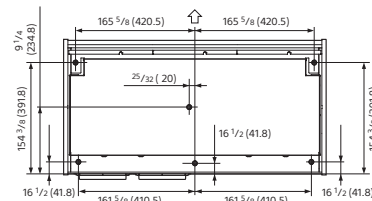
TDG-BT500A
3D Glasses

Connector Panel

Rear

Side

Dimensions

Units: inches (mm)

Front

With side covers

8 15/32 (215.1)

8 19/32 (218.5)

Top

With top cover and side covers

35 1/2 (901.6)

18 1/2 (470)

19 9/32 (489.8)

36 13/32 (925)

19 7/16 (493.8)

Bottom

9 1/4 (234.8)

165 5/8 (420.5)   165 5/8 (420.5)

25/32 (20)

154 3/8 (391.8)

16 1/2 (41.8)

154 3/8 (391.8)

16 1/2 (41.8)

161 5/8 (410.5)

161 5/8 (410.5)

16 1/2 (41.8)

LASER NOTICES
For the U.S.A.
IEC 60825-1:2007

For other countries
IEC 60825-1:2014

IEC 60825-1:2007
LASER RADIATION
DO NOT STARE INTO BEAM   WAVE LENGTH:450-460nm
CLASS 2 LASER PRODUCT   MAX OUTPUT < 27.5mW
RG2

IEC 60825-1:2014
LASER 1

CLASS 1 LASER PRODUCT
As with any bright light source, do not stare into the beam,
RG2 IEC 62471-5:2015.

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