

VPL-VW5000ES

4K SXR D Home Cinema Projector
with laser light source and 5000
lumen brightness



Overview

The world's most advanced Home Cinema Projector: spectacular brightness and native 4K clarity

It's an unforgettable experience, whatever you're watching. An ideal match for the largest and most lavishly equipped home cinema rooms, the VPL-VW5000ES brings movies to life with extraordinary cinematic detail, colour and contrast.

The world's most advanced home cinema projector combines an advanced laser light source with the same Sony 4K SXR D panel technology that's found in our professional cinema projectors. Crisply detailed native 4K images (4096 x 2160) offer four times the resolution of Full HD, pulling you right into the heart of the action with unprecedented clarity. You'll experience fabulously rich cinematic colours, smooth motion and spectacular contrast. Extremely powerful 5000 lumen brightness ensures wonderfully clear and sharp big-screen pictures, even in well-lit rooms.

The ultra-pure, highly efficient laser light source provides virtually maintenance free operation with no lamp swaps. As well as spectacular picture quality and reliability, you'll enjoy reduced operating costs compared with conventional projection systems, plus less worry of lamp failure half way through the show.

You're future-proofed with compatibility for the latest 4K standards, including High Frame Rates and HDR (High Dynamic Range) - so you'll get the very best out of today's content, and tomorrow's. With flexible installation, simple setup, fuss-free auto calibration and low-noise operation, the VPL-VW5000ES 4K Home Cinema Projector puts you in control of the ultimate entertainment experience.

Features

Cinematic 4K clarity with four times the detail of Full HD

SXRD panel technology featured in our professional cinema projectors delivers native 4K (4096 x 2160) resolution images, with no artificial pixel enhancement. Every detail is wonderfully clear and natural, without jagged edges or visible pixels.

Very high brightness and contrast

With an impressive 5,000 lumen brightness and a spectacularly high contrast range, 4K images are clear and bright with sparkling highlights and rich, deep blacks – even in well-lit rooms.

Watch brightness for longer with a Z-Phosphor™ laser light

The VPL-VW5000ES uses an ultra-pure and reliable Z-Phosphor™ laser light source. This Sony developed light source offers bright images for up to 20,000 hours of uninterrupted operation - no lamp replacement, and virtually zero maintenance.

Dual contrast control

In addition to the dynamically-controlled laser light output, an Advanced Iris is also incorporated. Both the iris control and laser can be adjusted independently, and dynamically, to optimise light output for both dark and bright well-lit scenes. The result is deeper blacks than ever, as well as bright, vibrant colours where needed. The infinite dynamic contrast makes every scene spring

to life with detail and realism.

Corner-to-corner sharpness with the ARC-F lens

For pristine image quality across the entire screen, the VPL-VW5000ES features an All-Range Crisp Focus (ARC-F) lens. This large-aperture lens adopts an all-glass design for its 18 elements, including six extra low-dispersion (ELD) elements. This ensures optimal convergence of the red, green and blue primaries even at the extreme edges of the image for a clear and vivid image wherever you look.

Digital Focus Optimiser

Optimum focus is achieved, not only optically but digitally, by the Digital Focus Optimiser. It compensates the possible optical degradation of the lens in advance then outputs the optimum corrected images, so that even the focus in the corners is better than ever.

Super-resolution Reality Creation

Exclusive Reality Creation technology analyses images right down to the pixel level. It uses powerful pattern-matching algorithms developed over years of movie production to enhance image crispness without increasing digital picture noise. It also upscales existing full HD Blu-ray Disc™ and DVD movies to near 4K quality.

TRILUMINOS™ Display with even wider, cinema-like colour gamut

You will enjoy an extended range of spectacular colours, far wider than a standard projection system. The VPL-VW5000ES supports the same DCI-P3 colour space as professional cinema projectors, as well as the new BT.2020 colour space (emulated) that accurately captures an even wider range of true-to-life tones.

Smooth, fluid on-screen action

Coupled with the panel's super-fast response rate, Motionflow technology means you'll see every detail with minimal blur - no

matter how fast the action.

HDR compatibility: every image comes to life

Get the most from today's UHD Blu-ray and streaming services with High Dynamic Range. HDR video offers an expanded brightness range that delivers more realistic, high-contrast images and brilliant colours. Compatible with both HDR10 and HLG (Hybrid Log-Gamma) formats. Sony's home cinema projectors reproduce colour and contrast that's faithful to the creator's intention.

Future-proofed support for the latest HDMI standards

The VPL-VW5000ES can project Ultra HD content at up to 60 frames per second (4K 60p YCbCr 4:4:4 8 bit/ YCbCr 4:2:2 12 bit) for even smoother images with superior colour and realism. Support for HDCP 2.2 lets you enjoy the latest 4K content services.

Picture position memories

Memorises up to five zoom lens positions for future viewing. Stored settings can be matched to a movie's aspect ratio, including 16:9 and Cinemascope.

Flexible home installation

$\pm 30^\circ$ tilt capability allows flexible installation in a wide range of home cinema environments such as rear projection.

Auto calibration

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

Industry standard RF 3D compatible

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

Quick start

Don't keep your audience waiting for the show to begin. With quick start, thanks to laser light source technology, you're all ready to start projection right after initial power-on.

Specifications

Display System

Display System	4K SXRD panel projection system
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Display Device

Size of effective display area	0.74" x 3
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Number of pixels	26,542,080 (4096 x 2160 x 3) pixels
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Projection lens

Focus	Powered
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Zoom	Powered
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Lens shift	VPLL-Z7013 (Bundled): Powered V $\pm 80\%$, H $\pm 31\%$
	VPLL-Z7008 (Optional): Powered V $\pm 50\%$, H $\pm 18\%$

Throw ratio *1	VPLL-Z7013 (Bundled): 1.35 : 1 to 2.90 : 1
	VPLL-Z7008 (Optional): 0.85 : 1 to

1.06:1

Light source

Light source Laser diode

Light output

Light output 5,000 lm

Color light output

Color light output 5,000 lm

Contrast ratio

Contrast ratio ∞:1 (dynamic contrast)

Accepted digital signals *2

Accepted digital signals *2 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

Color bit depth Up to 12 bit via HDMI

Input / Output

HDMI1/HDMI2 *3 Digital (RGB/Y Pb/Cb Pr/Cr)

TRIGGER1/TRIGGER2 Mini jack, DC 12 V Max. 100 mA

REMOTE RS-232C, D-sub 9-pin (female)

LAN RJ45, 10BASE-T/100BASE-TX

IR IN/OUT IN:1, OUT:1 , Mini jack

USB Type A

Acoustic noise

Acoustic noise 30dB ~ 35dB *4

Operating temperature / Operating humidity

Operating temperature / Operating humidity 5°C to 40°C (41°F to 104°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 220 V to 240 V, 6 A, 50/60 Hz (For Europe and China)
AC 100 V to 240 V, 12 A to 6 A, 50/60 Hz (For the other countries)

Power consumption

Power consumption MAX. 1.2 kW

Power consumption (Standby)

Power consumption (Standby) 0.5 W

Standby Mode / Networked Standby Mode Activated

Standby Mode / Networked Standby Mode Activated	After about 10 Minutes
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Heat dissipation

Heat dissipation	4092 BTU/h
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Dimensions (WxHxD) (without protrusions)

Dimensions (WxHxD) (without protrusions)	550 x 228 x 750 mm / 21.6 x 9.0 x 29.5 inch
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Mass

Mass	Approx. 43 kg / 94 lb (including standard lens) Approx. 40 kg / 88 lb (excluding standard lens)
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Supplied accessories

Supplied accessories	VPLL-Z7013 (Standard lens) RM-PJ24 Remote Commander Size AA (R6) Manganese Batteries (2) AC Power Cord (1) Plug holder (1)
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Operating Instructions (CD-ROM)

(1)

Quick Reference Manual (1)

Optional accessories

Optional accessories

TDG-BT500A (3D glasses)*
 VPLL-Z7008 (Short Throw Lens)

*Please contact your Sony representative for specific models available in your region.

Notes

*1 Display size : 16:9

*2 60p,30p,24p include 59.94/60Hz,
 29.97Hz/30Hz, 23.98Hz/24Hz

*3 Both HDMI inputs are compatible with HDCP 2.2.

*4 This will depend on the environment and how the projector is used.

Gallery

