

# VPL-HW50ES

## Full HD 3D Home Cinema Projector

High speed precision  
for true 3D viewing



### Key Feature

#### Reality Creation – Super Resolution Function

Developed for the Sony 4K home cinema projector (VPL-VW1000ES) this function has now been adapted for the new VPL-HW50ES projector. It reproduces the colour and texture of the original 1080p signal by restoring missing information lost during packaging of the original contents to disc. As a result, you can enjoy sharp and crisp full HD pictures.

Input Signal



Reality Creation Pixel Mapping



View the best possible images

The VPL-HW50ES\* is the new Sony 3D home cinema projector that includes the very latest technology and delivers a premium home theatre experience.

Packed with many new innovative features that draw on Sony's latest Optical Engine, the VPL-HW50ES utilises Sony's clever 'Reality Creation' to dramatically enhance high definition 1080P content to deliver sharp and crisp Full HD images.

#### High Brightness of 1,700 Lumens with Faithful Colour Reproduction

By improving the light efficiency of the lamp and with an optimised optical block, the brightness is increased by approximately 30%\* giving much brighter and clearer images in well-lit living rooms. The VPL-HW50ES also provides rich colour reproduction due to the improved optical engine design and the same colour management method as the VPL-VW1000ES.

\* Compared to Sony conventional Home Cinema Projectors

Conventional model



By improving the light efficiency of the lamp with an optimised optical block



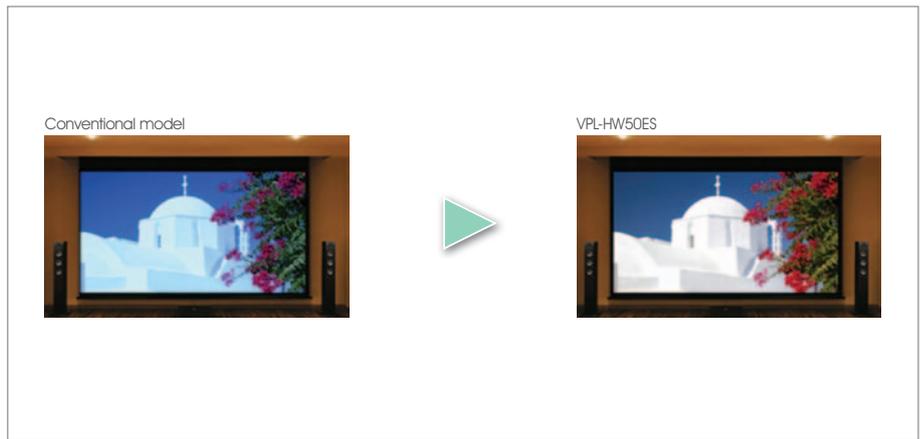
VPL-HW50ES

Simulated images

\* VPL-HW50ES/B black projector  
VPL-HW50ES/W white projector

### Bright Cinema and Bright TV Mode for Living Room Theatre

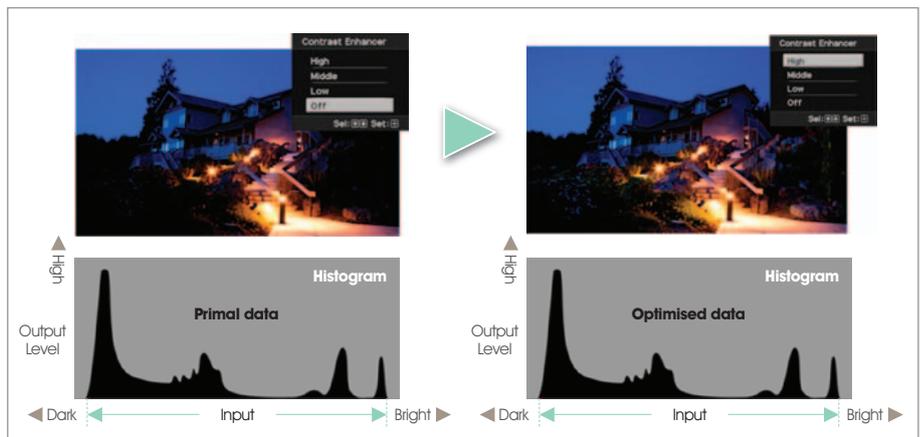
Conventional home cinema projectors typically enhance the green colour to secure the image brightness, however, the VPL-HW50ES boasts the new Bright Cinema and Bright TV Mode. With optical block and signal processing improvements bringing high brightness without a loss in colour reproduction and contrast, you can enjoy bright, crisp images even when viewing in a well-lit room.



Simulated Images

### Contrast Enhancer Function

This function automatically adjusts the contrast for optimum viewing. It compensates for dark and bright parts of an image by analysing the signal component of each scene in real time to ensure that the optical contrast is obtained.



Simulated Images

### Motionflow

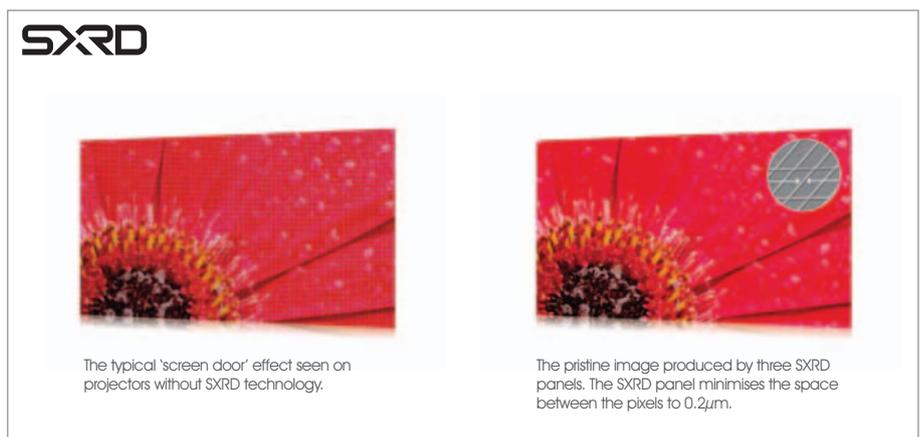
Motionflow technology allows the VPL-HW50ES to display twice as many images per second. This algorithm, unique to Sony, creates completely new images based on the incoming signal, and inserts them between the original frames to reproduce smoother, sharper motion.



Simulated Images

### SXRD Panel Technology

SXRD panels minimise the gaps between pixels to 0.2µm for sharper, dot-free images, making it possible to reproduce up to 240 frames per second. The opening and closing of the shutters on the 3D glasses are synchronised to ensure that each eye receives the correct image, thus reducing crosstalk to a minimum. The result is stunningly detailed, high-definition 3D images that you believe you can reach out and touch.



Simulated Images

### 100,000:1 Dynamic Contrast

Thanks to contrast enhancer technology and the Advanced Iris3 technology, the projector has a dynamic contrast ratio of more than 100,000:1. It maximises black and white levels without diminishing peak brightness to ensure no detail is missed in dark scenes.

### Advanced Iris3 Control

This automatic Iris control feature enhances the contrast in accordance with the scene. It maximises black and white levels without diminishing peak brightness.

### Dynamic Lamp Control Technology for 3D

When each of the shutters on the 3D glasses opens, Dynamic Lamp Control Technology automatically boosts the brightness (approximately 3x brighter) in the image to that eye, maximising the picture's impact and the lamp's efficiency. This means that you will not lose any brightness and attain the optimal visual experience from the comfort of your own home.

### Built-in 3D Sync Transmitter

You can synchronise the projector with the 3D glasses thanks to the 3D synchronous transmitter built into the front of the projector, thus reducing set-up time and removing the need for extra cabling.

### Separate 2D and 3D Modes

The VPL-HW50ES allows you to pre-select separate parameters for 2D and 3D content under a variety of application modes – Dynamic, Standard, Game, Cinema and Photo – as well as automatically recognising 2D or 3D input.

### Extremely Low Fan Noise (21dB)

The VPL-HW50ES runs very quietly with an advanced air discharge system. Through a highly efficient cooling system, fan noise is suppressed to a mere 21dB. With whisper-quiet fan noise, you can concentrate on a movie or game in a quiet environment without distraction.

### Gamma Adjustment Function

With 11 modes to select, it is possible to fine tune image brightness according to the room conditions or the screen content.

### Improved Lens Shift Range

The vertical range is wider than Sony's conventional models. This expands the projector's placement and installation options without distorting image quality.

Vertical range: Max. +/- 0.71V

Horizontal range: Max. +/- 0.25H

### Improved Panel Alignment Function

The VPL-HW50ES is configured with a function that compensates for gaps in character or colour management. It is possible to select R(Red) or B(Blue) to make adjustments based on G(Green), and to adjust the horizontal and vertical direction by shifting the full image or selecting zones of each colour.

### RCP (Real Colour Processing) Version 2

The VPL-HW50ES offers an "RCP (Real Colour Processing)" function to adjust the colour and hue of each target colour of the projected picture independently. Additionally, version 2 adds the ability to adjust the brightness at the same time. With this capability, you can tweak the images to perfection.

### PrimeSupport

- 3 year projector and 1 year lamp warranty/1000 hour PrimeSupport cover – from the product purchase date.
- Specialist telephone support – an exclusive multi-lingual telephone helpline staffed by technical experts with detailed understanding of projector products.
- Collect-and-deliver repair service – if your problem cannot be resolved via the helpline, we'll activate our no-hassle collect-and-deliver repair service. All financial costs are covered – parts, labour and logistics to and from our state-of-the-art European repair centres.
- PrimeSupport will be provided through the Sony accredited partner.

### With VPL home projectors, PrimeSupport also includes:

Free loan unit – you'll receive a free loan unit of similar specification if repairs are likely to exceed 10 working days, minimising your disruption.

Prime  
Support

Prime  
Support Plus





## Specifications

		VPL-HW50ES
Display system		High Frame Rate SXRD panel
Light Output		1700 lm
Contrast ratio		100,000:1 (Dynamic Contrast)
Display elements	Effective display size	0.61" x 3
	Effective pixels	Full HD (1920x1080) x3 6,220,800 pixels
Projection lens	Zoom / Focus	Manual (Approx. 1.6 x) / Manual
	Lens shift	Manual, V: +/-71% / H: +/-25%
Light source		Ultra High-pressure lamp 200W type
Screen size		40" to 300"
3D		YES
Reality Creation		YES
Contrast Enhancer		YES
MotionFlow		YES
Advanced Iris		Ver 3
RCP		Ver 2
Panel Alignment		Yes (Shift / Zone)
Picture modes		9 modes
Gamma modes		11 modes
Input/Output	HDMI (2 inputs)	Digital RGB/Y Pb/Cb Pr/Cr
	Y Pb/Cb Pr/Cr	Component: phono type
	INPUT A	Mini D-sub 15-pin (RGB)
	Remote	RS-232C, D-sub 9-pin (female)
	IR IN	Mini Jack
	3D Sync	Built-in Transmitter or via RJ-45 (TMR-PJ2)
Acoustic noise		21 dB
Power requirement		AC 100 V to 240 V, 3.0 A to 1.3 A, 50/60 Hz
Power consumption		Max. 300 W
Body Colour		Black / White
Standard outside dimensions		W 407.4 x H 179.2 x D 463.9 mm
Weight		Approx. 9.6 kg
Supplied Accessories		Remote Control RM-PJ23
		Size AA (R6) manganese batteries (2)
		AC Power Cord for projector (1)
		3D glasses (2)
		Pouch for the 3D glasses (2)
		Warranty Card (1)
		Operating Instructions (1)

## Optional Accessories

Projector Lamp LMP-H202 (for replacement)	Projector Suspension Support PSS-H10	3D Glasses TDG-PJ1	3D Transmitter TMR-PJ2
			

Sony. The clear choice for 3D home cinema.

For full features visit [www.pro.sony.eu/homecinemaprojectors](http://www.pro.sony.eu/homecinemaprojectors)

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