

SONY

VPL-HW55ES

Full HD 3D home cinema projector with Reality Creation, SXRD panels, Bright Cinema and TV modes



Overview

An outstanding cinematic experience

The VPL-HW55ES is a fantastic option for movie lovers who want an incredible cinematic experience at home, far beyond the reach of TV. It's packed with our latest technology, including Reality Creation and advanced SXRD panels for an incredibly sharp, crystal clear picture.

High brightness and contrast ratio

With 1,700 lumens colour brightness and a contrast ratio of 120,000:1, you can enjoy your favourite films at their best, in 3D or 2D. Bright Cinema and Bright TV modes also ensure optimum brightness and superb, rich colour quality.

Features

- **Reality Creation – Super Resolution function**

Developed for our leading 4K home cinema projector (VPL-VW1000ES), Reality Creation reproduces colours and textures that are lost when movies are packaged to disc. It gives you crisper, sharper Full HD pictures, much closer to the 1080p original.

- **1,700 lumens brightness with faithful colour reproduction**

Thanks to an improved optical engine, the VPL-HW55ES is much brighter than our previous standard home cinema projectors. At 1,700 lumens, it produces clearer images and faithful colours, even in well-lit rooms.

- **Bright Cinema and Bright TV modes**

Conventional home cinema projectors sacrifice some colour accuracy by increasing greens to improve brightness. With Bright Cinema and Bright TV modes, the VPL-HW55ES retains true colour and contrast, even in a bright environment.

- **Dynamic contrast now 120,000:1**

Optical engine improvements and advanced Iris 3 technology mean we've achieved an incredible dynamic contrast ratio of 120,000:1. It maximises blacks and whites without diminishing brightness so you won't miss a detail, even in dark scenes.

- **Long lasting lamp**

You can expect a longer lamp replacement time from the VPL-HW55ES: up to 5,000 hours (roughly 60% longer than our standard home cinema projectors). This lowers your running costs and total cost of ownership.

- **Contrast Enhancer and advanced Iris3**

Automatically adjusts contrast for optimum viewing by analyzing dark and light areas in every scene, without diminishing colour.

- **Motionflow**

See every detail, even in fast-moving action scenes or sports. Motionflow technology shows twice as many pictures per second by creating extra images between the original frames. The result is smoother, sharper motion with less blur.

- **SXRD panel technology**

Our SXRD panels reduce pixel gaps and reproduce up to 240 frames per seconds for super-sharp images. Because our 3D glasses have a synchronised shutter speed, you'll enjoy incredible high-definition 3D with minimal crosstalk.

- **Dynamic Lamp Control**

When each of the shutters of your 3D glasses opens, Dynamic Lamp Control boosts the brightness by three times: this maximises picture impact as well as lamp efficiency.

- **Built-in IR 3D transmitter**

No set-up time or cables, just synchronise the VPL-HW55ES with your IR 3D glasses via the built-in transmitter.

- **2D and 3D modes**

The VPL-HW55ES automatically recognises 2D or 3D content and allows you to pre-select Standard, Dynamic, Cinema, Game and Photo modes.

- **Extremely low fan noise**

Our advanced cooling system means fan noise is reduced to a whisper-quiet 21db.

- **Gamma adjustment**

Fine tune image brightness according to the light in the room or the on-screen picture. There are 11 modes to select from.

- **Wider lens shift range**

A wider vertical range than our standard home cinema projectors allows more options for placement and installation, without reducing image quality.

- **Perfect panel alignment**

Electronic panel alignment ensures precise colour and clarity. Any colour gaps are corrected by shifting the blue and red areas of each pixel into perfect alignment with green.

- **Real Colour Processing (RCP Version 2)**

Adjust the colour and hue using a target on the projected picture. RCP Version 2 also allows you to adjust brightness at the same time.

Technical Specifications

Display System	
● Display System	SXRD projection system
Display device	
● Size of effective display area	0.61" x 3 SXRD
● Number of pixels	6,220,800 (1920 x 1080 x 3) pixels
Projection lens	
● Focus	Manual
● Zoom - Powered/Manual	Manual
● Zoom - Ratio	Approx. x 1.6
● Lens shift - Powered/Manual	Manual
● Lens shift - Range Vertical	+/- 71%
● Lens shift - Range Horizontal	+/- 25%
Light source	
● Type	Ultra high pressure mercury lamp
● Wattage	200 W type
Screen size	
● Screen size	40" to 300" (1.01 m to 7.62 m) (measured diagonally)
Light output	
● Lamp mode: High	1700 lm
Color light output	
● Lamp mode: High	1700 lm
Contrast ratio*1	
● Contrast ratio	120,000:1 (Dynamic Contrast)
Display resolution	
● Computer signal input	Maximum display resolution: 1920 x 1080 dots (HDMI Input only)
● Video signal input	480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, The following items are available for HDMI input only; 1080/60p, 1080/50p, 1080/24p
OSD language	
● OSD language	15-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai)
INPUT OUTPUT (Computer/Video/Control)	
● HDMI 1 / HDMI 2	HDMI (x2)
● Y PB/CB PR/CR	Pin Jack (x3)

● INPUT A	RGB/Y Pb/Cb Pr/Cr input connector: Mini D-sub 15-pin (female)
● REMOTE	RS-232C connector: D-sub 9-pin (female)
● IR IN	Mini Jack
● 3D SYNC	RJ-45

Acoustic noise	
● Lamp mode: Low	22 dB

Operating temperature / Operating humidity	
● Operating temperature / Operating humidity	5°C to 35°C (41°F to 95°F) / 35% to 85% (no condensation)

Storage temperature / Storage humidity	
● Storage temperature / Storage humidity	-20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation)

Power requirements	
● Power requirements	AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz / 60 Hz

Power consumption	
● AC 100 V to 120 V	Max. 300 W
● AC 220 V to 240 V	Max. 300 W

Power Consumption (Standby Mode)	
● AC 100 V to 120 V	0.4 W (when "Standby mode" is set to "Low")
● AC 220 V to 240 V	0.4 W (when "Standby mode" is set to "Low")

Power Consumption (Networked Standby Mode)	
● AC 100 V to 120 V	6.0 W (LAN) (when "Standby Mode" is set to "Standard")
● AC 220 V to 240 V	6.0 W (LAN) (when "Standby Mode" is set to "Standard")

Standby Mode / Networked Standby Mode Activated	
● Standby Mode / Networked Standby Mode Activated	After about 10 Minutes

Dimensions (W x H x D)	
● Dimensions (W x H x D) (without protrusions)	407.4 x 179.2 x 463.9 mm (16 1/8 x 7 1/8 x 18 3/8 inches)

Mass	
● Mass	10 kg (22 lb)

Supplied accessories	
● Remote commander	RM-PJ23

Optional Accessories	
● Replacement lamp	LMP-H202
● IR 3D Glasses	TDG-PJ1
● IR External Transmitter	TMR-PJ2

Notes	

• *1

The values are estimate.

Accessories

Ceiling Brackets



PSS-H10
Projector Ceiling Bracket for
Home Cinema

Lamps



LMP-H202
Replacement Lamp for
Home Cinema projectors

Other Accessories



IFU-WH1
Wireless HD Unit for home
cinema projectors



TDG-PJ1
3D active shutter glasses (IR
type) for home cinema
projectors



TMR-PJ2
External 3D sync transmitter
(IR type) for home cinema
projectors