

VPL-VW500ES

4K Home Cinema projector
with 200,000:1 contrast ratio



Overview

4K - more than 4x the quality of Full HD

4K is the very best the big screen can deliver. The VPL-VW500ES gives you that very same, fully immersive cinema experience, at home.

Incredible 4096 x 2160 resolution pictures and an exceptionally high dynamic contrast ratio of 200,000:1 produce details so stunning, you may never leave the house to see a movie again.

2D and 3D upscaled to 4K

While more and more native 4K material is becoming available, our Reality Creation technology means you can enjoy your current 2D and 3D discs, upscaled for an incredible 4K experience. You'll get the very best from your favourite movies and notice even more detail than before - even in 3D.

Features

4K native resolution: over 4x better than Full HD

No compromises: the VPL-VW500ES provides 4096 x 2160 4K resolution (the DCI standard in digital cinemas). We used our professional cinema expertise to develop 4K SXRD panels and produce a 4K native picture with no artificial enhancement of pixels.

Ultra high contrast ratio and brightness

Drawing on optical technology developed for the VPL-VW1000ES, we've achieved both high brightness (1,700 ANSI lumens) and high contrast (200,000:1 dynamic contrast ratio) in the VPL-VW500ES. So, you'll see crystal-clear, bright, detail-packed images – even in well-lit rooms.

Advanced SXR panels

4K digital drive panels minimise the space between pixels in every frame with an incredible response rate of 2.5-milliseconds. That's much faster, and more stable, than an LCD TV and produces ultra-smooth, dot-free pictures with natural, fluid movement – whatever the action.

Triluminos Display

The VPL-VW500's optical engine and SXR panels incorporate our Triluminous Display technology to produce a much broader colour range, reproducing more tones and textures than a standard projector system. The result is greater purity, depth and realism.

New Motionflow

We've enhanced our Motionflow technology. 'Combination' mode uses our 'Film Projection' and 'Motion Enhancer', adding frames to reduce blur and maintain brightness in thrilling, fast-moving scenes. Cinema purists can choose 'True Cinema' to retain the original 24 frames per second.

Industry standard RF 3D compatible

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

Reality Creation: upscales your movies to 4K

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

Compatible with 'Mastered in 4K' Blu-ray™ discs

Drawing on the same technology used to downscale 4K material for Full HD, the VPL-VW500ES gives you a near native 4K experience with discs 'Mastered in 4K'. It's as close as you can get to the 4K-pixel resolution and expanded colour range of the original.

New 4K standard: 60 frames per second

The VPL-VW500ES can show up to 60 frames per second in 4K (at colour signal YUV 4:2:0). It's the new 4K industry standard and is much higher than the earlier 24p. The result is a smoother image with superior colour and realism.

Compact design

A smaller optical engine means the VPL-VW500ES is approximately 18cm shorter in length than our leading projector, the VPL-VW1000ES, so there's greater flexibility for installation.

Front-facing fan

Because the fan is positioned at the front, you don't need to worry about wall space and room for air inhale/exhaust when you install. This helps maximize the throw distance for bigger projected images.

Wider zoom and shift lens

A 2.06 motorised zoom lens and wide lens shift range of 85% vertical and 31% horizontal gives greater installation flexibility - even when the ceiling is very high.

Suitable for home automation

The VPL-VW500ES is compatible with many home automation systems. It has an RS232 interface, RJ45 control, and IR-IN terminal.

Auto calibration

After extended periods, colour can be automatically calibrated to the original factory condition. There's no need for extra calibration equipment or cameras; a built-in colour sensor stores all the necessary information.

Manual HSV Colour Correction

A correction tool allows you to adjust the hue, saturation, and brightness of each colour to get exactly the picture you want.

Picture Position Memory

This feature remembers the position of the zoom lens. You can match it to a movie's aspect ratio (including 16:9 and Cinemascope) and store the settings for a future viewing.

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.

USB updates

To get the best from your projector, the VPL-VW500ES has a USB port for the latest firmware updates.

Specifications

Display System

Display System

SXRD projection system

Display device

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

Projection lens

Focus	Powered
Zoom - Powered/Manual	Powered
Zoom - Ratio	Approx. x 2.06
Lens shift - Powered/Manual	Powered
Lens shift - Range Vertical	+ 85% - 80%
Lens shift - Range Horizontal	+/- 31%

Light source

Type	Ultra high pressure mercury lamp
Wattage	230 W type

Screen size

Screen size	60" to 300" (1.52 m to 7.62)
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m) (measured diagonally)

Light output

Lamp mode: High 1700 lm

Color light output

Lamp mode: High 1700 lm

Contrast ratio*1

Contrast ratio 200,000 (Dynamic Contrast)

Displayable scanning frequency

Horizontal 19 kHz to 72 kHz

Vertical 48 Hz to 92 Hz

Display resolution

Computer signal input Maximum display resolution:
1920 x 1080 dots (HDMI Input
only)

Video signal input 80/60p, 576/50p, 720/60p,
720/50p, 1080/60i, 1080/50i,
1080/60p, 1080/50p,
1080/24p, 3840 x 2160/24p,
3840 x 2160/25p, 3840 x
2160/30p, 3840 x
2160/50p*1, 3840 x
2160/60p*1, 4096 x

2160/24p, 4096 x 2160/25p,
4096 x 2160/30p, 4096 x
2160/50p*1, 4096 x
2160/60p*1

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)

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

LAN RJ-45, 10Base-T/100BASE-TX

IR IN Mini Jack

TRIGGER1 / TRIGGER2 Mini Jack (x2)

Acoustic noise

Lamp mode: Low 26 dB

Operating temperature / Operating

humidity

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

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

Power requirements	AC 100 V to 240 V, 4.0 A to 1.7A, 50 Hz / 60Hz
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Power consumption

AC 100 V to 120 V	375 W
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AC 220 V to 240 V	375 W
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Power Consumption (Standby Mode)

AC 100 V to 120 V	0.3 W (when "Remote Start" is set to "Off")
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AC 220 V to 240 V	0.3 W (when "Remote Start" is set to "Off")
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Power Consumption (Networked Standby Mode)

AC 100 V to 120 V	1.0 W (LAN) (when "Remote Start" is set to "Off")
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AC 220 V to 240 V	1.0 W (LAN) (when "Remote Start" is set to "Off")
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Standby Mode / Networked Standby Mode Activated

Standby Mode / Networked Standby Mode Activated	After about 10 Minutes
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Dimensions (W x H x D)

Dimensions (W x H x D) (without protrusions)	495.6 x 195.3 x 463.6 mm (19 1/2 x 7 11/16 x 18 1/4 inches)
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Mass

Mass	14 kg (31 lb)
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Supplied accessories

Remote commander	RM-PJ24
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Optional Accessories

Replacement lamp	LMP-H260
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Wireless HD Unit	IFU-WH1
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IR 3D Glasses	TDG-BT500A Please contact your Sony representative for specific models available in your region.
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Notes

*1	YCbCr 4:2:0 / 8 bit
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*2	HDMI Input2 is compatible with HDCP 2.2.
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Environmental notice for customers in the USA	Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or see www.sony.com/mercury for additional information.
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Gallery

