SONY
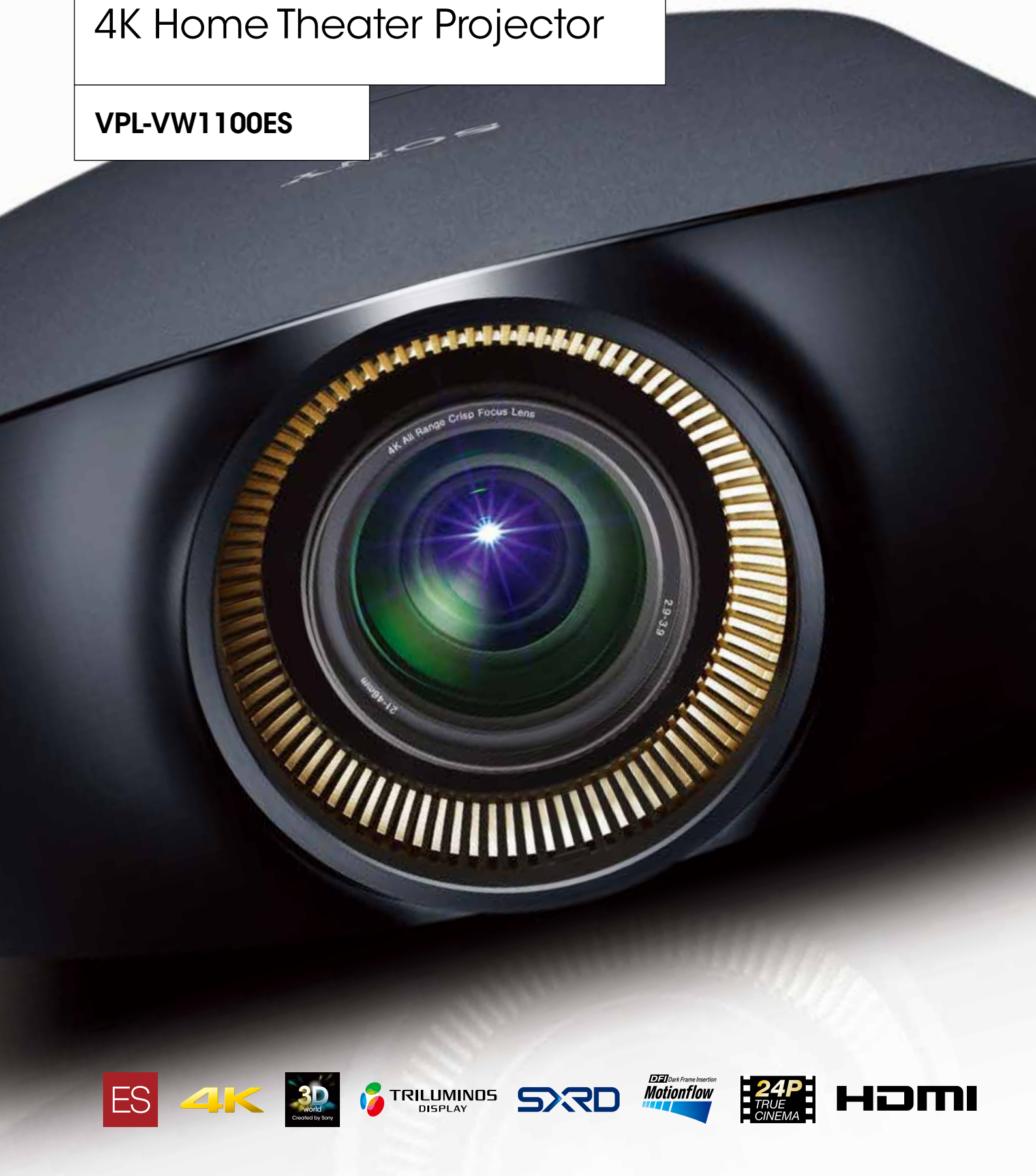
4K Home Theater Projector

VPL-VW1100ES

The Ultimate 4K
Home Cinema Experience

The VPL-VW1100ES projector is our leading, luxury 4K home theater projector.
It gives you the fully immersive experience of digital cinema in a large, dedicated screening space.
With astonishing 4K resolution (4x the quality of Full HD) and a multitude of advanced features,
it's our most 'professional' home theater projector yet.

No-compromise 4K Native Resolution:
More Than 4x Full HD Images
The VPL-VW1100ES 4K home theater projector offers DCI-based*
4096 x 2160 resolution, more than four times the resolution of
Full HD. The projector's 4K SXRD™ panels have been specially
developed by Sony for the VPL-VW1100ES, utilizing 4K expertise
from the professional cinema market. These panels deliver a
native 4K picture, with no electronic enhancement of pixels.

*Digital Cinema Initiatives: The standard of digital cinema distribution.

Full HD
1920 x 1080
(2.1 million pixels)

4K
4096 x 2160
(8.8 million pixels)

Full HD

4K

Simulated images

2,000 Lumens for Vibrant Images
With 2,000-ANSI-lumen brightness, the VPL-VW1100ES delivers
nearly twice the output of Sony's previous home theater
projectors. Combined with 4K SXRD panels, this projector is
able to offer both higher brightness and a higher contrast
ratio for optimum viewing in the home environment.

Remarkable Dynamic Contrast for Highest Picture Quality
The projector's 4K native SXRD panels produce outstanding
native device contrast, reproducing deep blacks by improving
the flatness level of the pixel surface. When combined with
Sony's Advanced Iris3 technology, this projector can achieve
an incredible 1,000,000:1 dynamic contrast for the best ever
images.

Conventional panel

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

New SXRD

Incident light
Reflective light
Elimination of beveled corners
Elimination of contact divots

Scattered light diminishes black levels

High contrast and high reflectivity
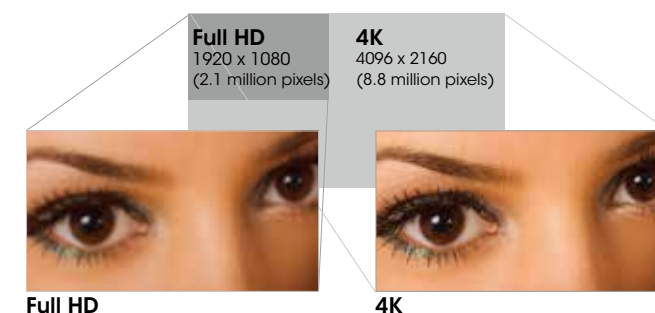
Simulated images

Richer Pictures with Wide Color Space (DCI*, Adobe RGB)
The VPL-VW1100ES offers a wider-than-normal color space,
enabling it to show the fuller color information provided by the
professional DCI color specification and the Adobe RGB color
space.

*Digital Cinema Initiatives: The standard of digital cinema distribution.

TRILUMINOS™ Display Technology
The VPL-VW1100ES'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.

TRILUMINOS
DISPLAY
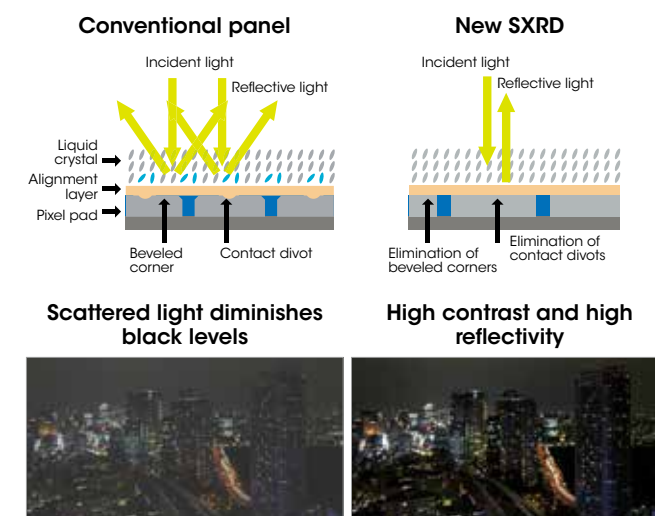
Simulated images

Lens Optimized for 4K Images

To achieve optimized 4K images, Sony has developed the 4K All-Range Crisp Focus (ARC-F) lens specifically for the VPL-VW1100ES projector. By incorporating this super high-resolution lens, high precision and detail are seen in all corners of the image. Both Full HD SXRD projector lens technology from Sony and 4K digital cinema technology from Sony are included in the 4K ARC-F lens. In addition, this lens offers very high resolving capability, and the high-resolution image on the 4K panel can be projected correctly.
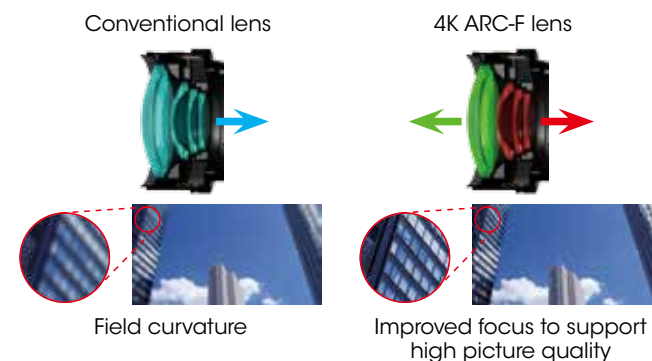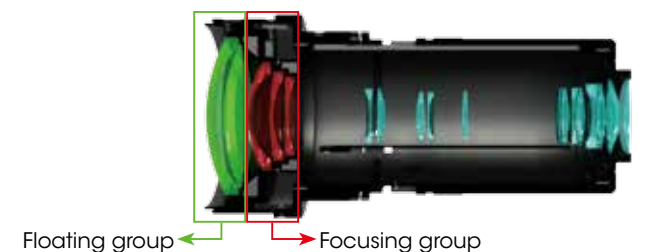
Conventional lens
4K ARC-F lens

Simulated images
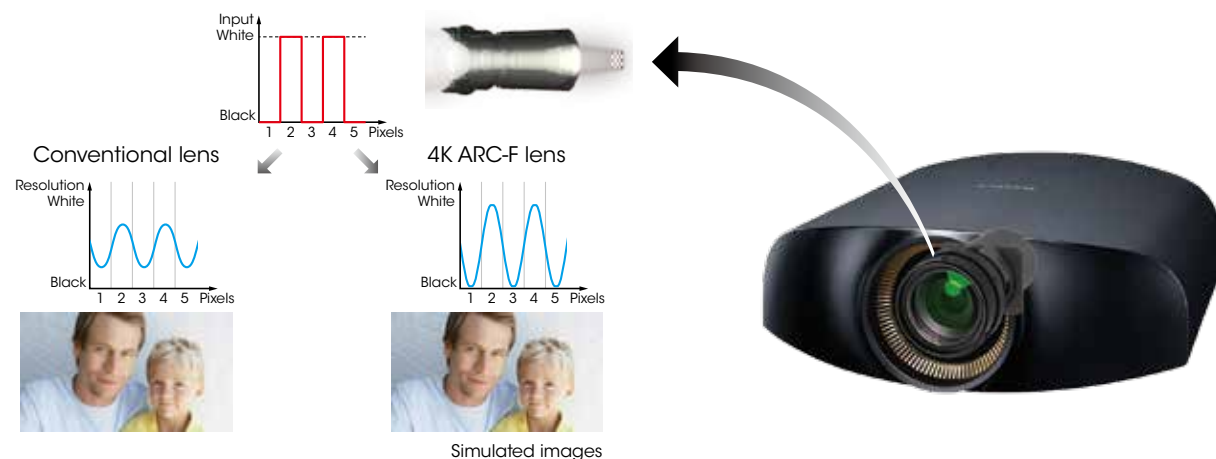
-Structure
An 18-piece lens structure is used, similar to that of a 4K digital cinema projector.
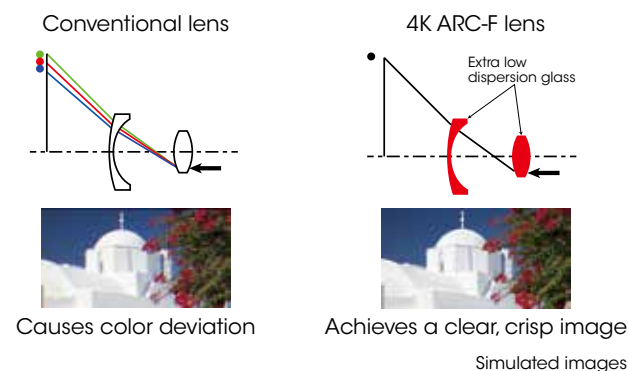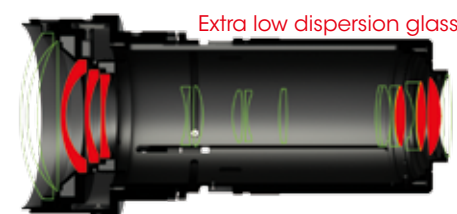
-Floating focus system
By moving the floating lens group and focusing lens group simultaneously, the floating focus system corrects any curved field occurring at the time of focal adjustment of images. Thanks to this system, high precision and high picture quality are realized in every corner of the image.

Floating group — Focusing group

Conventional lens   4K ARC-F lens

Field curvature   Improved focus to support high picture quality
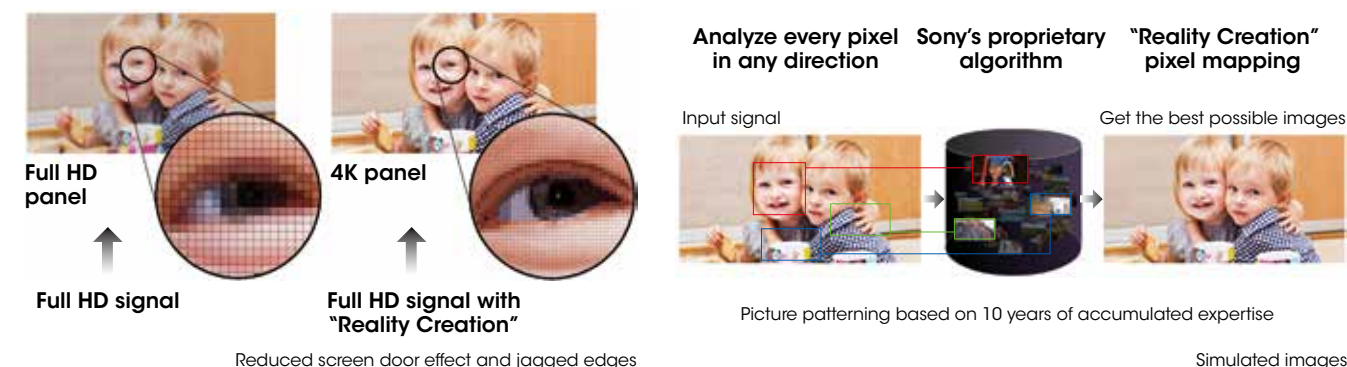
-Extra low dispersion glass
By adopting extra low dispersion glass – which provides an optimized refractive index for green, red, and blue light – clear and crisp images can be achieved.

Extra low dispersion glass

Conventional lens   4K ARC-F lens

Extra low dispersion glass

Causes color deviation   Achieves a clear, crisp image
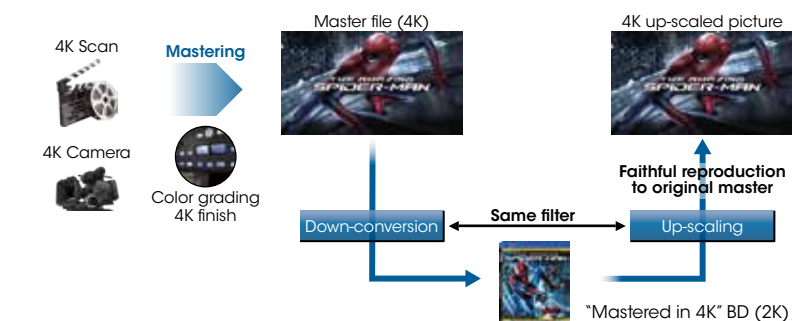
Simulated images

"Reality Creation" 4K Upscaling

In addition to supporting 4K native resolution, the VPL-VW1100ES projector features an exclusive super-resolution 4K upscaler, "Reality Creation", which dramatically enhances high-definition 1080p content, allowing viewers to get the most from their existing Blu-ray Disc™ libraries at home. For greater versatility, it can also display Full HD 3D and 4K upscaling of 3D movies.

Full HD panel   4K panel

Full HD signal   Full HD signal with "Reality Creation"

Reduced screen door effect and jagged edges

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

Compatible with 'Mastered in 4K' Blu-ray Discs

Drawing on the same technology used to downscale 4K material for Full HD, the VPL-VW1100ES 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 color range of the original.

4K Scan
4K Camera
Mastering
Color grading 4K finish

Master file (4K)   4K up-scaled picture

Faithful reproduction to original master

Down-conversion   Same filter   Up-scaling

"Mastered in 4K" BD (2K)

The Amazing Spider-Man™ now available on Blu-ray Disc™ The Amazing Spider-Man © 2012 Columbia Pictures Industries, Inc. All Rights Reserved. | Marvel, and the names and distinctive likenesses of Spider-Man and all other Marvel characters: ™ and © 2013 Marvel Entertainment, LLC & its subsidiaries. All Rights Reserved.

Simulated images

Widescreen Friendly

The VPL-VW1100ES delivers a widescreen-friendly resolution of 4096 x 2160 based on the DCI specification. This means viewers can enjoy movies without annoying black bars at the top and bottom of the screen.

	4 x Full HD 1.78:1 (3840 x 2160)	VPL-VW1100ES 4K 1.89:1 (4096 x 2160) *
Cinema Scope 2.35:1	3840 x 1634	4096 x 1742
American Vista 1.85:1	3840 x 2075	3996 x 2160

Minimize black bars

* Complying with the DCI specification.

Picture Position Memory Matches Movie Aspect Ratio
The VPL-VW1100ES has a picture position memory, which memorizes the position of the lens (focus, zoom, shift). Users can match a movie's aspect ratio, including 1.78:1 and 2.35:1, and store these settings in the projector for easy recall.

Screen 2.35:1

Screen 2.35:1

Screen 2.35:1

Position 1.78:1   Image 1.78:1

Position 1.78:1   Image 2.35:1

Position 2.35:1   Image 2.35:1

2.35:1 without picture position memory

2.35:1 with picture position memory

Simulated images

Cool and Functional Design
Combining hallmark styling with high-dimensional balance, the VPL-VW1100ES unit succeeds at being both cool and functional.

4K ARC-F lens

Intake grill
Built-in 3D sync transmitter

Unobtrusive terminals

Top access to lamp

Exhaust grill

Lens Protector
The protector opens/closes automatically, keeping the lens dust-free, and is synchronized with the projector powering on/off.
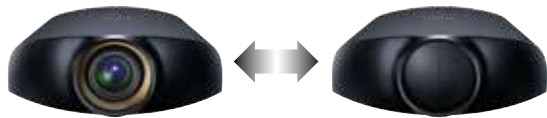
Immersive 4K Upscaling 3D

-Improved emission power for built-in 3D transmitter
The projector has a built-in 3D transmitter to synchronies 3D glasses, which alleviates the need for a cable. The emission power of the transmitter has also been boosted by 30% compared to previous models, allowing much wider coverage of the 3D signal.

3D sync transmitter

-2D to 3D conversion
Sony is leading the way in creating an ever-growing selection of movies, sports, and TV programs in 4K 3D detail. Sony's 3D projectors also convert 2D pictures into 3D, so viewers can even enjoy classic movies in this whole new viewing dimension.

-Simultaneous anamorphic and 3D viewing
The VPL-VW1100ES is able to display anamorphic images and 3D without requiring a lens change, making it as user-friendly as possible.

Experience Blur-free Action with Motionflow
To bring the thrill of watching fast-paced, cinematic action to the home, the VPL-VW1100ES features a technology called Motionflow, which makes motion much smoother. This innovative process creates and inserts artificial frames, first comparing key visual factors on successive frames, and then calculating the split second of 'missing' action in the sequence. This action mimics that of actual movie projection, so viewers experience movies and sports with a greater sense of realism than ever before.

Simulated images

Without Motionflow

With Motionflow

Powerful Picture Calibration
Powerful features allow viewing in a dark room as well as a room with ambient light. Users can quickly select the right picture calibration for each type of content, with nine unique modes including a variety of pre-sets: cinema film1, cinema film2, cinema digital, reference, TV, photo, game, bright cinema, and bright TV.

Panel Alignment Function
To ensure the best possible results, all models feature electronic panel alignment, allowing the user to achieve an exact alignment of the red and blue elements within each pixel. Adjustments can be made by as little as 0.1 pixels to achieve optimum clarity.

Whisper-quiet Operation
The VPL-VW1100ES incorporates the latest noise-reduction technology, including a whisper-quiet fan, to minimize projector sound as much as possible.
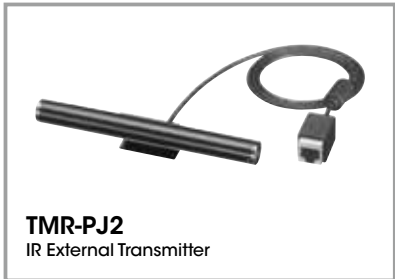
Optional Accessories

LMP-H330
Projector Lamp (for replacement)

TDG-PJ1 *
IR 3D Glasses

TMR-PJ2
IR External Transmitter

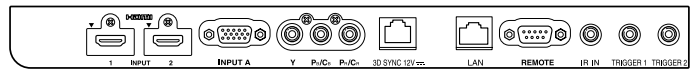* 2x 3D glasses bundled with the VPL-VW1100ES.

Specifications

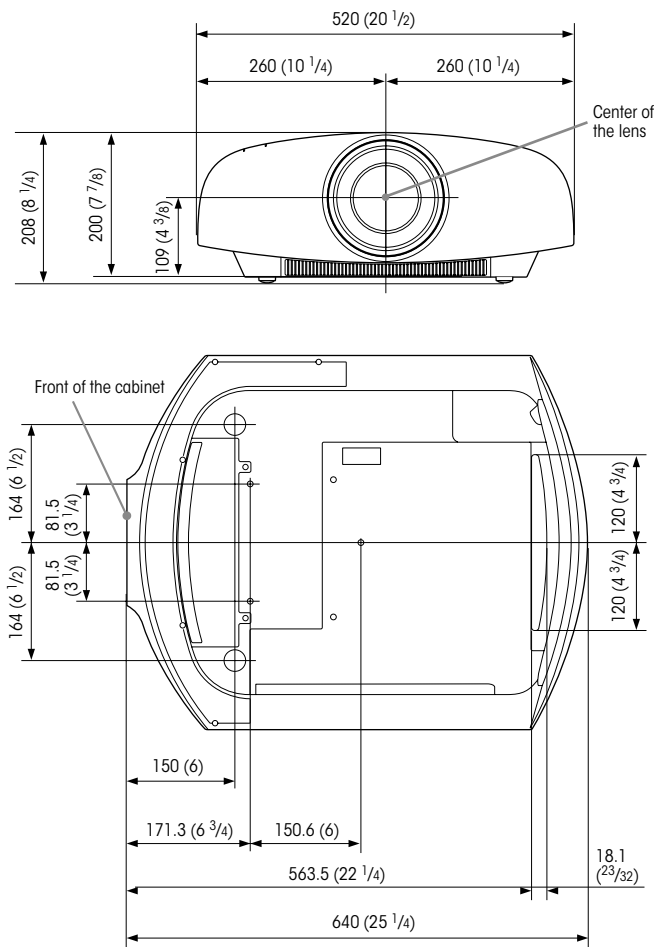|	VPL-VW1100ES
Optical	
Light Output	2000 lumens
LCD Panels	0.74" x3 SXRD Panel
Panel Display Resolution	4096 x 2160 dots
Contrast Ratio*[1]	1,000,000:1 (Dynamic Contrast)
Light Source	Ultra High Pressure Lamp 330 W type
Recommended Lamp Replacement Time*[2]	2000 H (Lamp mode: High) 2500 H (Lamp mode: Low)
Projection Lens — Zoom / Focus	Approx. 2.1x Powered Zoom / Powered Focus
Projection Lens — Lens Shift	Powered, Vertical +/- 80%, Horizontal + /- 31%
Projection Lens — Throw Ratio	1.27:1 to 2.73:1
Screen Size	60" to 300"
Interface	
Input / Output — HDMI (2 inputs)	Digital RGB/Y Pb/Cb Pr/Cr
Input / Output — Y Pb/Cb Pr/Cr	Component: phono type
Input / Output — INPUT A	Mini D-sub 15-pin (RGB)
Input / Output — Trigger (2 connectors)	Mini Jack, DC 12 V Max. 100 mA
Input / Output — Remote	RS232C, D-sub 9-pin (female)
Input / Output — LAN	RJ45, 10BASE-T/100BASE-TX
Input / Output — IR IN	Mini Jack
Input / Output — 3D Sync	RJ45 / Built-in transmitter
General	
Scanning Frequency	H: 19 to 72 kHz, V: 48 to 92 Hz
Display Resolution (Digital Input)	480/60p, 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*, 3840 x 2160/60p*, 4096 x 2160/24p, 4096 x 2160/25p, 4096 x 2160/30p, 4096 x 2160/50p*, 4096 x 2160/60p*
Power Requirements	AC 100 V to 240 V, 4.8 A to 2.0 A, 50 Hz/60 Hz
Power Consumption	480 W (AC 100 V) 470 W (AC 120 V) 460 W (AC 220 V-240 V)
Standby Mode Power Consumption	3.5 W (Std) / 0.3 W (Low) (AC 100 V) 3.5 W (Std) / 0.3 W (Low) (AC 120 V) 3.9 W (Std) / 0.4 W (Low) (AC 220 V-240 V)
General	
Dimensions (WxHxD) (without protrusion)	520 x 200 x 640 mm 20 1/2 x 7 7/8 x 25 1/4 inches
Mass	20.0 kg / 44 lb 1.5 oz
Service Parts	
Replacement Remote	1-490-070-11 (RM-PJ22)

*1 The value is average.
*2 The figures are expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used.
*3 Available only for YUV 4:2:0 / 8-bit format signal.

Control Panel

Dimensions

520 (20 1/2)
260 (10 1/4)   260 (10 1/4)
Center of the lens
208 (8 1/4)
200 (7 7/8)
109 (4 3/8)

Front of the cabinet
164 (6 1/2)
81.5 (3 1/4)
164 (6 1/2)
81.5 (3 1/4)
120 (4 3/4)
120 (4 3/4)
150 (6)
171.3 (6 3/4)   150.6 (6)
563.5 (22 1/4)
18.1 (23/32)
640 (25 1/4)

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