

SONY

VPL-VW320ES

Home Theater Projector



4K



**TRILUMINOS
DISPLAY**

SXR



HDMI

Seeing is believing Experience the beauty of true 4K

Bring incredible 4K detail to your favorite movies

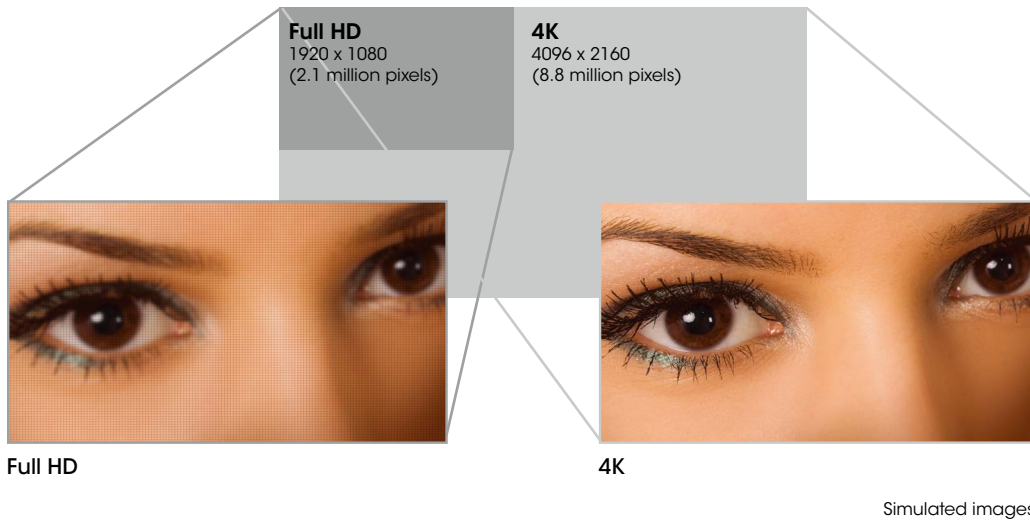
Imagine bringing the truly cinematic quality of 4K into your own home. Now you can make this a reality with our VPL-VW320ES Home Theater projector. It's our most affordable 4K model yet, producing a native 4096 x 2160 resolution picture - that's over four times the quality of Full HD. Designed for your home theater room and living room, the VPL-VW320ES delivers stunning, detail-packed images and incredibly lifelike color like never before. And with high brightness, you're guaranteed an exceptional picture even in well-lit rooms.



Breathtaking Picture Quality

Real-life clarity with Cinematic 4K- over four times the detail of Full HD

With more than four times the resolution of Full HD, 4K offers 8.8 million pixels for a picture that's so incredibly lifelike, you could believe you're looking at the real thing. Every detail is perfectly clear, with less jagged edges and visible pixels than with a conventional Full HD projector.



High Brightness

Drawing on optical technology developed for the VPL-VW1100ES, we've achieved high brightness. Conventional home theater projectors typically enhance the green color to secure image brightness. However, this projector boasts our new Bright Cinema and Bright TV modes. Optical block and signal processing improvements bring high brightness without a loss in color reproduction and contrast, so you can enjoy bright, crisp images even when viewing in a well-lit room.



Standard Home Theater Projector

Not bright enough



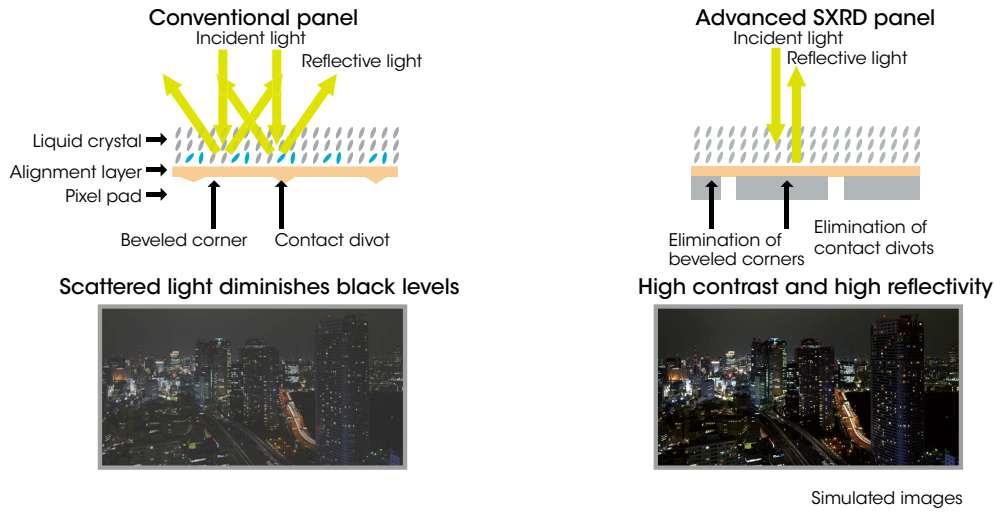
Sony Home Theater Projector

Images are brighter and clearer
even in a well-lit environment

Simulated images

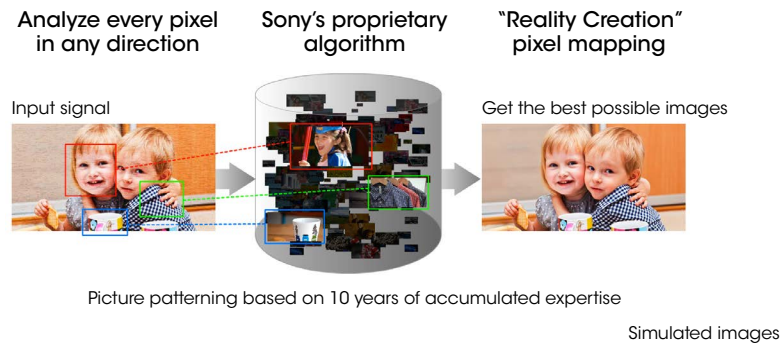
Advanced SXR Panel

The projectors' 4K native SXR panels produce outstanding native device contrast, reproducing deep blacks by improving the flatness level of the pixel surface.



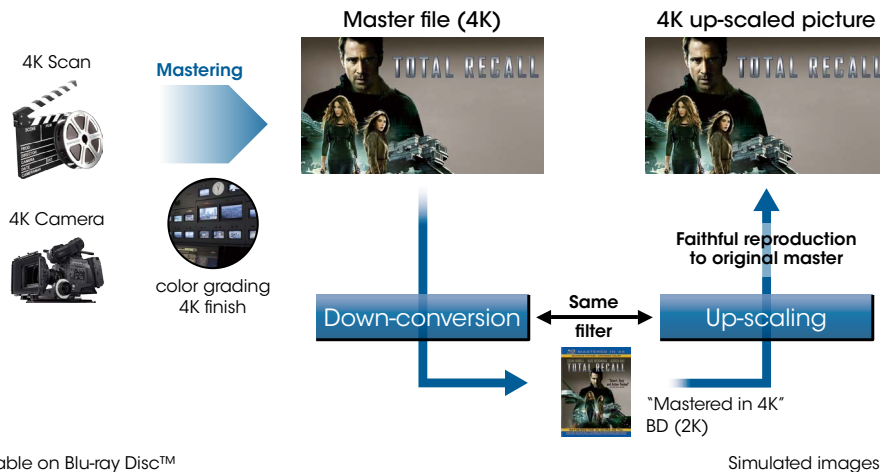
Reality Creation: Upscale Your Movies to 4K

As well as native 4K material, you can watch 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 projector 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.



TRILUMINOS Display

The projectors' optical engines 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.



Simulated images

Advanced Motionflow

We've simplified our Motionflow offering. Combination mode uses Sony's Film Projection and Motion Enhancer capabilities, adding frames to reduce blur and maintain brightness in thrilling, fast-moving scenes. Cinema purists can choose True Cinema mode to retain the original 24 fps.



Without Motionflow



With Motionflow

Simulated images

Installation Advantages

Compact and Functional Design

A smaller optical engine means the projector is approximately 18 cm shorter in length than our leading projector, the VPL-VW1100ES, 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 intake/exhaust when you install. This helps maximize the throw distance for bigger projected images.

Wider Zoom and Shift Lens

The projector offers a zoom-powered lens to provide maximum flexibility for home installations, including high ceiling mounting.

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.

User-friendly Functions

Professional Calibration

A correction tool allows you to adjust the hue, saturation, and brightness of each color and the color space for red, green and blue respectively, to get exactly the picture you want.

Long-lasting Lamp

By incorporating a high-performance lamp and advanced lamp-control technology, the projectors deliver an extremely long lamp replacement time of 6,000 hours*.

* Approximate recommended period, in low mode.

Industry-standard RF 3D Compatible

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

USB Updates

To get the best from your projector, there's a USB port for the latest firmware updates.

The Latest 4K/60p HDMI Standard: 60 Frames Per Second

The projectors can show up to 60 frames per second in 4K (at color signal YUV 4:2:0 / 8 bit). It's the new 4K industry standard and is much higher than the earlier 24p. The result is a smoother image with superior color and realism.

Low Latency Mode

A new feature for gamers. Experience our fastest ever response time between your controller and the screen for ultimate gaming action.

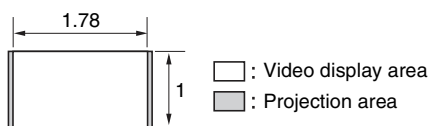
HDCP 2.2 Compatibility

Compatible with HDCP 2.2 - the latest content protection standard - ensuring readiness for future premium 4K content.

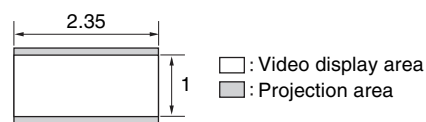
Easy Connectivity for Home Automation

Complies with many home automation systems via an RJ45(IP), RS-232C, TRIGGER and IR IN interfaces.

Projection distance



| 1.78:1 (16:9) | | |
|-----------------------|------------------------|--------------------------|
| Projection image size | | Projection distance L |
| Diagonal | Width x Height | |
| 80" (2.03 m) | 1.77 x 1.00 (70 x 39) | 2.44 - 5.01 (96 - 197) |
| 100" (2.54 m) | 2.21 x 1.25 (87 x 49) | 3.05 - 6.28 (121 - 247) |
| 120" (3.05 m) | 2.66 x 1.49 (105 x 59) | 3.67 - 7.55 (145 - 297) |
| 150" (3.81 m) | 3.32 x 1.87 (131 x 74) | 4.60 - 9.44 (181 - 371) |
| 200" (5.08 m) | 4.43 x 2.49 (174 x 98) | 6.15 - 12.61 (242 - 496) |



| 2.35:1 | | |
|-----------------------|------------------------|--------------------------|
| Projection image size | | Projection distance L |
| Diagonal | Width x Height | |
| 80" (2.03 m) | 1.87 x 0.80 (74 x 31) | 2.41 - 4.96 (95 - 195) |
| 100" (2.54 m) | 2.34 x 0.99 (92 x 39) | 3.02 - 6.22 (119 - 244) |
| 120" (3.05 m) | 2.80 x 1.19 (110 x 47) | 3.64 - 7.47 (143 - 294) |
| 150" (3.81 m) | 3.51 x 1.49 (138 x 59) | 4.55 - 9.35 (180 - 368) |
| 200" (5.08 m) | 4.67 x 1.99 (184 x 78) | 6.08 - 12.48 (240 - 491) |

Specifications

| | | |
|--|---|--|
| Display System | 4K SXRD panel, projection system | |
| Display device | Size of effective display area | 0.74" x 3 |
| | Number of pixels | 26,542,080 (4096 x 2160 x 3) pixels |
| Projection lens | Focus | Powered |
| | Zoom | Powered (Approx. x2.06) |
| | Lens shift | Powered Vertical: +85% -80% Horizontal: +/-31% |
| Light source | High-pressure mercury lamp, 225 W type | |
| Recommended lamp replacement time*1 | 6000 H (Lamp mode:Low) | |
| Filter replacement cycle (Max.) | Same time as the lamp replacement is recommended | |
| Screen size | 60" to 300" (1,524 mm to 7,620 mm) | |
| Light output | 1500 lm (Lamp mode: High)*2 | |
| Color light output | 1500 lm (Lamp mode: High)*2 | |
| 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 | 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*3, 3840 x 2160/60p*3, 4096 x 2160/24p, 4096 x 2160/25p, 4096 x 2160/30p, 4096 x 2160/50p*3, 4096 x 2160/60p*3 |
| OSD language | 17-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Arabic, Polish) | |
| INPUT OUTPUT (Computer / Video / Control) | HDMI1 / HDMI2*4 | Digital (RGB/Y Pb/Cb Pr/Cr) |
| | Trigger1 / Trigger2 | Minijack, DC 12 V Max. 100 mA |
| | Remote | RS-232C, D-sub 9-pin (female) |
| | LAN | RJ45, 10Base-T/100BASE-TX |
| | IR IN | Mini Jack |
| Acoustic noise | 26 dB | |
| Operating temperature / Operating humidity | 5°C to 35°C (41°F to 95°F) / 35% to 85% (no condensation) | |
| Storage temperature / Storage humidity | -20°C to +60°C (-4°F to +140°F) / 10% to 90% (no condensation) | |
| Power requirements | AC 100 V to 240 V, 3.5 A to 1.5 A, 50/60Hz | |
| Power consumption | AC 100 V to 120 V | MAX 350 W |
| | AC 220 V to 240 V | MAX 350 W |
| Power consumption (Standby Mode) | AC 100 V to 120 V | 0.3 W (when "Standby mode" is set to "Low") |
| | AC 220 V to 240 V | 0.3 W (when "Standby mode" is set to "Low") |
| Power consumption (Networked Standby Mode) | AC 100 V to 120 V | 1.0 W (All terminals and networks connected, when "Standby Mode" is set to "Standard") |
| | AC 220 V to 240 V | 1.0 W (All terminals and networks connected, when "Standby Mode" is set to "Standard") |
| 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 | |
| Mass | Approx. 14 kg / 31 lb | |
| Supplied accessories | RM-PJ28 Remote Commander (1), Size AA (R6) Manganese Batteries (2), Lens Cap (1), AC Power Cord (1), Operating Instructions (CD-ROM) (1), Quick Reference Manual (1) | |
| Replacement lamp | LMP-H220 | |

*1 The figures are expected maintenance time and not guaranteed. They will depend on the environment or how the projector is used.

*2 The values are estimate.

*3 YCbCr 4:2:0 / 8 bit

*4 HDMI Input2 is compatible with HDCP 2.2.

Optional Accessories

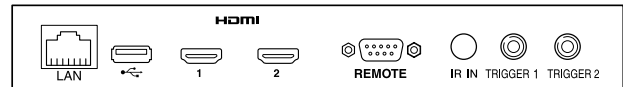


LMP-H220
Projector Lamp (for replacement)



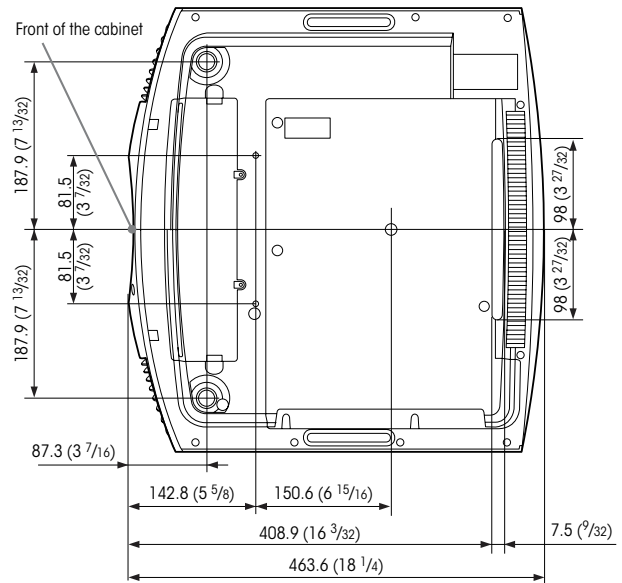
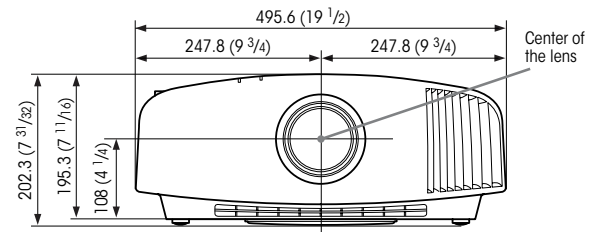
TDG-BT500A
3D Glasses

Connector Panel



Dimensions

Units: mm (inches)



SONY

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