Get Closer to a Real Cinema Experience

The HW65ES is a Full HD 3D home theater projector packed with our latest technology for an incredibly sharp, crystal clear cinematic experience. Enhanced light efficiency and an optimized optical block enables the HW65ES to reach 1,800 ANSI lumens brightness, delivering clearer images, even in well-lit environments. The HW65ES also has an approximate 6,000 hour long-lasting lamp due to its improved lamp cooling system. An optical engine upgrade, contrast enhancer technology and Advanced Iris3 technology enable a dynamic contrast ratio of more than 120,000:1. This increases black and white levels without diminishing peak brightness to maximize detail during darker scenes. Additional features such as Sony’s Bright Cinema and Bright TV mode plus SXRD panels, enhance the 3D image even further. The projector also has Sony’s Reality Creation technology.
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, the 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.

Dynamic Image with High Contrast
Advanced Iris 3
This is an automatic Iris control feature that enhances the contrast in accordance with the scene. It maximizes black and white levels without diminishing peak brightness. Thanks to improved Advanced Iris3 algorithm, the projector has a dynamic contrast ratio of 120,000:1.

Contrast enhancer
This function automatically adjusts the contrast for optimum viewing. It compensates for dark and bright parts of an image by analyzing the signal component of each scene in real time to enhance contrast.

Advanced Reality Creation for Full HD
The Reality Creation function for our VPL-HW65ES projector has been further improved by taking the same technology from our 4K home theater models. It reproduces the texture and color of the original 1080p signal by restoring missing information lost during packaging original contents to disc and broadcast transmission. As a result, you can enjoy sharp and crisp Full HD pictures.

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.
User-friendly Functions

**Powerful Picture Calibration Features**
There are eight calibrated presets to optimize various content.

- **Cinema Film1**
  Highly dynamic and clear images of typical master positive films.

- **Cinema Film2**
  Rich tone and color typical of a movie theater.

- **Reference**
  Original image without any adjustment.

- **TV**
  Watching TV programs, sports, concerts, etc.

- **Photo**
  For still images taken with a digital camera.

- **Game**
  Well-modulated colors and fast response.

- **Bright Cinema**
  Movies in a bright environment, such as a living room.

- **Bright TV**
  TV programs in a bright environment.

- **User**
  Adjusts the picture quality to suit your preference using Reference mode.

**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.

**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.

**Long-lasting Lamp**
By incorporating a high-performance lamp and advanced lamp-control technology, the projector delivers an extremely long lamp replacement time of 6,000 hours*.

* Approximate recommended period, in low mode.

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

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

**Easy Connectivity for Home Automation**
Complies with many home automation systems via an RJ45(IP), RS-232C, TRIGGER and IR IN interfaces.

**Installation Advantages**

**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.
### Specifications

<table>
<thead>
<tr>
<th>Display System</th>
<th>SXRD panel, projection system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display device</td>
<td>Size of effective display area&lt;br&gt;0.61&quot; x 3</td>
</tr>
<tr>
<td>Number of pixels</td>
<td>6,220,800 (1920 x 1080 x 3) pixels</td>
</tr>
<tr>
<td>Projection lens</td>
<td>Focus&lt;br&gt;Manual&lt;br&gt;Zoom&lt;br&gt;Manual (Approx. x1.6)&lt;br&gt;Manual Vertical:&lt;br&gt;-17%, Horizontal:&lt;br&gt;-25%</td>
</tr>
<tr>
<td>Light source</td>
<td>High-pressure mercury lamp, 215 W type</td>
</tr>
<tr>
<td>Recommended lamp replacement time*1</td>
<td>6000 H (Lamp mode: Low)</td>
</tr>
<tr>
<td>Filter replacement cycle (Max.)</td>
<td>Same time as the lamp replacement is recommended</td>
</tr>
<tr>
<td>Screen size</td>
<td>&lt; 40&quot; to 300&quot; (1,016 mm to 7,624 mm)</td>
</tr>
<tr>
<td>Light output</td>
<td>1800 lm (Lamp mode: High)*2</td>
</tr>
<tr>
<td>Color light output</td>
<td>1800 lm (Lamp mode: High)*2</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>120,000:1 (Dynamic Contrast)</td>
</tr>
</tbody>
</table>
| Displayable scanning frequency | Horizontal 19 kHz to 72 kHz
Vertical 48 Hz to 92 Hz |
| Display resolution | Computer signal input<br>Maximum display resolution:<br>1920 x 1080 dots (HDMI input only)
Video signal input<br>480/60p, 576/50p, 720/60p, 720/50p, 1080/50i, 1080/50p, 1080i/50i
The following items are available for HDMI input only,<br>1080i/60p, 1080i/50i, 1080i/24p |
| 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 Digital (RGB/Y Pb/Cb Pr/Cr)
Trigger MiniJack, DC 12 V Max. 100 mA
Remote RS-232C, D-sub 9-pin (female)
LAN RJ45, 10Base-T/100BASE-TX
IR Mini Jack |
| Acoustic noise | 22 dB |
| Operating temperature / humidity | 41°F to 95°F (5°C to 35°C) / 35% to 85% (no condensation) |
| Storage temperature / humidity | -4°F to +140°F (-20°C to +60°C) / 10% to 90% (no condensation) |
| Power requirements | AC 100 V to 240 V, 3.1 A to 1.3 A, 50/60 Hz |
| 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 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) | 16 1/8 x 7 1/8 x 18 3/8 inches<br>407.4 x 179.2 x 463.9 mm |
| Weight | Approx. 20 lb / 9 kg |
| Replacement lamp | LMP-H210 |
| Optional Accessories | LMP-H210 Projector Lamp (for replacement) |

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**Optional Accessories**

**Connector Panel**

**Dimensions**

Units: inches (mm)

![Diagram showing dimensions and connector panel](image)

### Projection distance

![Projection distance diagram](image)

**Projection image size**

<table>
<thead>
<tr>
<th>Projection Distance L</th>
<th>Diagonal Width x Height</th>
<th>Projection distance L</th>
</tr>
</thead>
<tbody>
<tr>
<td>100&quot; (2.54 m)</td>
<td>70 x 39 (1.77 x 1.01)</td>
<td>99 – 142 (2.53 - 3.61)</td>
</tr>
<tr>
<td>120&quot; (3.05 m)</td>
<td>87 x 49 (2.21 x 1.25)</td>
<td>125 – 178 (3.17 - 4.52)</td>
</tr>
<tr>
<td>150&quot; (3.81 m)</td>
<td>105 x 59 (2.66 x 1.49)</td>
<td>150 – 214 (3.81 - 5.43)</td>
</tr>
<tr>
<td>180&quot; (4.58 m)</td>
<td>123 x 74 (3.12 x 1.87)</td>
<td>188 – 268 (4.77 - 6.80)</td>
</tr>
<tr>
<td>200&quot; (5.08 m)</td>
<td>141 x 84 (3.59 x 2.14)</td>
<td>252 – 357 (6.38 - 9.08)</td>
</tr>
</tbody>
</table>

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*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.