



## VPL-VW285ES

### 4K HDR Home Theater Projector



Enjoy up to 200 inches in True 4K HDR in any room.<sup>1</sup> With more than four times the resolution of Full HD, 4K delivers a picture that's so incredibly lifelike, it's like being in the scene or at the game. Experience the latest HDR content with an extremely wide range of contrast and a greater volume of colors.

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- Full 4K resolution with 4096 x 2160 pixels
  - Three SXR<sup>™</sup> imagers for full color brightness
  - Advanced Reality Creation for upscaling and sharpening images without sharpening picture noise<sup>2</sup>
  - High brightness of 1,500 Lumens
  - Enjoy High Dynamic Range (HDR) content in various formats
  - View clear sharp images with Motionflow<sup>™</sup> technology
  - Enjoy gaming and other types of content in 4K HDR
  - Enjoy the latest 4K content services with HDCP 2.2 compatibility on both HDMI inputs<sup>4</sup>
  - TRILUMINOS<sup>™</sup> Display for wider array of rich colors
  - Long lasting lamp – up to 6,000 hours suggested replacement

## Features

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### Native 4K resolution for lifelike pictures.

With more than four times the resolution of Full HD, <sup>1</sup> native 4K offers 8.8 million pixels (4096 x 2160) for a picture that's so incredibly lifelike, it's like looking at the real thing.

### SXR<sup>™</sup> Imagers times 3

Separate imagers for Red, Green and Blue channels give you all 8.8 million pixels in full, rich color at every instant

### HDR Compatible

Take full advantage of the latest content produced with HDR (High Dynamic Range) for extremely wide contrast range with an even higher range of brightness levels and volume of colors.

### High brightness and contrast

With an impressive 1,500 lumens brightness and spectacular contrast, 4K images are clear with bright highlights and rich, deep blacks – even in well-lit rooms.

### Reality Creation upscales your favorites.<sup>2</sup>

Upscale your existing Blu-ray Disc<sup>™</sup> and DVD movies to near 4K quality.<sup>2</sup> The super-resolution Reality Creation 4K upscaler analyzes every pixel in any direction, then employs a digital signal processing

algorithm to map pixels against an ever-evolving picture patterning database, compiled from over 10 years of expertise, to enhance colors, contrast, and textures without enhancing image artifacts.<sup>2</sup>

### **Action stays smooth and sharp with MotionFlow™**

Whatever you're watching, you'll enjoy a silk-smooth and razor-sharp on-screen look in fast-moving action sequences with Motionflow™. This innovative technology can create and insert extra frames between the original frames by first comparing key visual factors on successive frames, then calculating the split second of missing action in the sequences. True Cinema 24p mode mimics true movie projection for cinema purists.

### **Colors come alive with TRILUMINOS™ Display**

Discover true-to-life colors and tones. The VPL-VW285ES incorporates TRILUMINOS™ Display color, reproducing more tones and textures than a standard projector system. Hard-to-reproduce crimson reds, aqua blues, and emerald greens are displayed beautifully, so landscapes and seascapes look more vivid. Faces look better, too, with skin tones more faithfully reproduced.

### **Enjoy all types of content in 4K HDR.**

4K HDR 60p 10bit (for HDR10/HLG) so you can enjoy gaming and other high frame rate content in 4K HDR.

### **Support for latest standards.**

The VPL-VW285ES can project content at up to 60 frames per second (fps) in 4K for even smoother images with superior color and realism. Both HDMI inputs support HDCP 2.2 so you can enjoy more of the latest 4K content services.<sup>4</sup>

### **Watch for longer with a 225 W high-pressure lamp.**

Enjoy up to 6000 hours of watch time (in low mode) from a long-lasting mercury lamp. This means fewer lamp swaps, simpler maintenance, and lower running costs.

### **Flexible home installation with wide zoom and shift lens**

The powered zoom lens with a 2.1x zoom ratio and wide lens shift range gives greater installation flexibility in any room size, even with a high ceiling.

### **Built-in 3D transmitter synchronizes entertainment**

A built-in 3D transmitter synchronizes the optional glasses with the projector, so you can start watching 3D movies quicker.<sup>3</sup> Upscale 2D films to 3D and enjoy classic movies in a whole new dimension, or watch anamorphic images and 3D films simultaneously without changing the lens. High-emission power gives you a strong signal anywhere in the room.

### **Front-facing fan**

With the fan exhaust positioned at the front of the projector, you don't need to worry about wall clearance and room for air intake/exhaust between back of the projector and a wall when installing. This helps maximize throw distance, for the biggest possible projected images.

### **Plays your "Mastered in 4K<sup>1</sup>" discs**

The Mastered in 4K<sup>1</sup> collection includes classic films, remastered with enhanced color and detail for Blu-ray Disc. Play these discs with a pixel resolution and color range that's almost identical to the 4K original. The movie is down-sampled from the original 4K source at a high bitrate to Full HD, then upscaled to 4K using the same algorithm.

## Specification

<b>Light output</b>		
2D [lm]	1,500 lm	
<b>Display device</b>		
Display device	SXRD 0.74" x3	
Effective picture elements	26,542,080 pixels	
Resolution	4096x2160	
Drive [Hz]	120	
System	Digital	
<b>Projection lens</b>		
Projection lens	Powered	
Zoom	Zoom ratio: x 2,1	
Throw ratio	Wide:1,38 Tele: 2,83	
Lens shift	V: Powered Max. range: +85%/-80%  H: Powered Max. range: 31%"	
<b>Projection image size</b>		
Projection image size	60"-300	
<b>Light source</b>		
Power	225W	
Type	UHP	
Life	6,000 h	
<b>Acoustic noise</b>		
High [dB]	33 dB	
Low [dB]	26 dB	
<b>Operating conditions</b>		
Operating temp.	41°F to 95°F (5°C to 35°C)	
Storage Temp.	-4°F to +140°F (-20°C to +60°C)	
Operating Humidity	35 to 85%	
Storage Humidity	10 to 90%	
Ventilation	Intake: Back / Exhaust: Front	
Installation	Table / Ceiling / Front/Rear	
<b>Power</b>		
Power consumption	AC100-240V 50/60 Hz	
Power consumption (In Operation)	High 120V: 350W High 220V-240V: 350W	
Power Consumption (in Standby)	Standby: 0.3 W Network Standby: 1,0 W	
Power Requirements	AC100-240V 50/60 Hz	
<b>Display Performance</b>		
Display resolution	Video	Up to 4096/60p
Bit depth (IN)@1920*1080 Frame Rate@ 23.98/24/50/59.54/60	YUV422	12
	RGB444	12
	Deep Color	Yes
Bit depth (IN)@4096*2160 Frame Rate@ 23.98/24	RGB444	12 (422 10bit)
	YUV422	12 (422 10bit)
	Deep Color	Yes
Bit depth (IN)@4096*2160 Frame Rate@ 50/59.54/60	YUV420	12 (8 bit)
HDR	EOTF Signal Compatibility	HDR10/HLG
	EOTF Signal Display	HDR10/HLG
	Auto Detect Function	Yes (Both EOTF&BT.2020)
<b>Terminals</b>		
HDMI	2	
Ver.	2.0b	
HDCP	all inputs: 2.2	
Network & Control	RS-232C	1
	IR IN	1
	Trigger	2

	LAN	1
Others	USB	1 (for Update)
<b>Network</b>		
IP control	Yes	
	PJ Talk2	Yes
	Advertisement (SADP)	Yes
	Crestron Connected	Yes
	AMX DDDP	Yes
	C4 SDDP	Yes
	ADCP	Yes
<b>Other Functions</b>		
3D	Active	
Picture Mode	9	
Reality Creation	Yes	
Color Temp.	D93/D75/D65/D55/Custom1-5	
Smooth Gradation	H/M/L/Off (2K)	
Motion Flow	Yes (2K)	
Contrast Enhancer	H/M/L/Off	
Gamma Correction	1-10 / Off	
Color Correction	On/Off	
Clear White	H/L/Off	
X.V. Color	Yes	
Color Space	BT.709/BT.2020/CS1-3/Custom	
Triluminos Display	Yes	
Aspect	6	
Blanking	Yes	
Anamorphic	3D:Yes	
3D Brightness	Bright/Standard	
Simulated 3D	Yes	
HDMI Dynamic Range	Yes	
HDMI Signal Format	Standard/Enhanced	
Panel Alignment	Shift/Zone: 1/10 dot	
Lens Center Design	Yes	
<b>Other Product Relationships</b>		
Supplied Accessories	Remote Control (RM-PJ28) Size AA (R6) manganese batteries (2) AC Power cord (Local (ex.US/JP/CN)) Operating Instruction (CD-R) Quick Reference Manual Safety Regulation Warranty Card	
Optional accessories	TDG-BT500A	
<b>Weight and Measurements /Main Unit</b>		
Dimensions (WxHxDcm)(Approx.)	19.5 x 8 x 18.25 inches (496 x 202 x 464 mm) (W x H x D)	
incl.projecting parts	19.5 x 7.7 x 18.25 inches (496 x 195 x 464 mm) (W x H x D) (without protrusions)	
Weight (kg)(Approx.)	31 lbs (14kg)	

1. 4096 x 2160 resolution

2. Upscaled, simulated and enhanced 4K images will vary based on source content.

3. 3D glasses (TDG-BT500A) are optional; requires 3D content, a 3D player, and an HDMI cable (at least 10.2 Gbps).

4. Requires HDMI® cable sold sep.

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