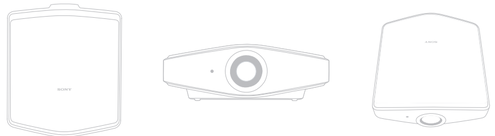
SONY

VPL-VW100 FULL HD SXRD™ PROJECTOR

like.no.other™

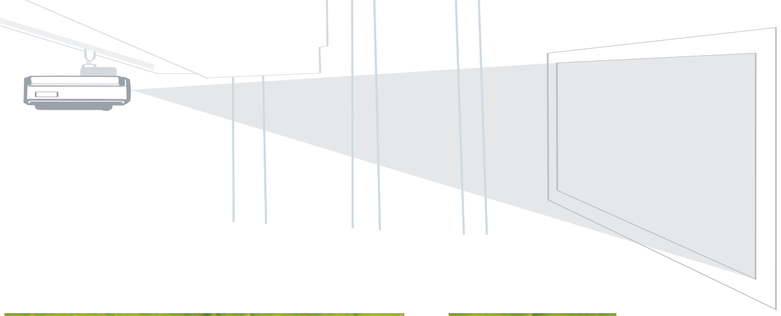


S O N Y V P L - V W 1 0 0

The VPL-VW100, Full High Definition SXRD™ Home Theatre Projector has the highest contrast ratio of any projector in the marketplace. It successfully combines the breathtaking innovations from two award winning products; VPL-VW12HT (EISA 2002) and QUALIA 004 (EISA 2005) to deliver the best of both.

Specifically designed for the Home Theatre environment, with its clean sweeping lines and stunning white casing the VPL-VW100 is the perfect embodiment of ultimate style and supreme technology.

TRUE HIGH DEFINITION



Standard Definition

High Definition -
5 times more detail

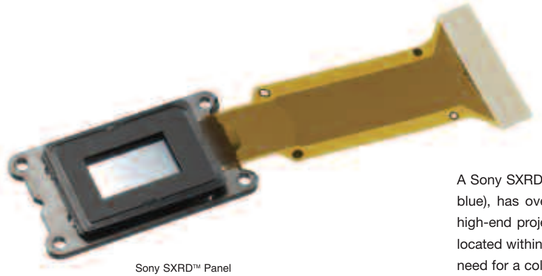
HIGH DEFINITION (HD) / Programming is about to make the most dramatic change to viewing habits. The quantum leap in picture quality has to be seen to be believed, and it is reassuring to know that Sony is at the very heart of this technological revolution. Sony is currently working very closely with many of the major programme makers and broadcasters around the world as they adopt the new technology. Similarly Sony is bringing to market a wealth of HD products. These range in applications from Post Production Suites to Medical Analysis and from consumer products such as Camcorders to Games Consoles.

The heart of all HD products is always the display and Sony offers a wide range of HD displays amongst monitors, Flat TVs and projectors. It is this wealth of experience and knowledge of HD displays which has been applied and encapsulated into the VPL-VW100. High definition displays offer high resolution wide screen images which are closer to reality because of their startling clarity. The result is a dramatically engaging viewing experience which is maximised to the full when viewed on a larger screen, only made possible through the use of a projector.

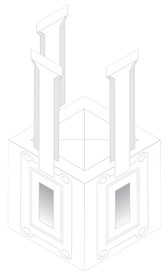
HD ready

S O N Y S X R D™

MOTION PICTURE FILM QUALITY IMAGES / The Silicon X-tal Reflective Display (SXRD™) technology has been designed by Sony to perform like 35mm movie film. The VPL-VW100 has virtually vanished the ‘screen door effect’, which is the pixel grid being seen on screen, by using narrow inter-pixel spacing.



Sony SXRD™ Panel



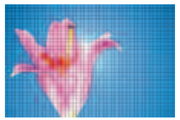
A conceptual diagram of a SXRD™ prism block with three SXRD™ panels in place

A Sony SXRD™ panel, of which the VPL-VW100 employs three, one for each colour (red, green and blue), has over 2 million enabled square pixels. This is more than twice as many as other 720p high-end projectors. The combination of the three panels means that the Sony SXRD™ prism block located within the VPL-VW100 has 6.22 million active pixels. Having three panels also eliminates the need for a colour wheel and the potential rainbow colour separation.

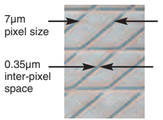
The result is film quality smoothness and a tremendous increase in clarity. Sony SXRD™ is capable of reproducing full HD panel resolution (1920 x 1080) with pixels of only 7µm. In combination with the minimization effect of the space between pixels, the inter-pixel space of 0.35µm delivers an extremely life like picture that is simply breathtaking.

For a smooth rendering of images, the VPL-VW100 has a rapid 2.5 milli second response time, which enhances crisp and vivid image reproduction, even from video sources containing fast moving images.

Sony SXRD™ (1920x1080)



DLP (1280x720)



Pixel Definition

SXRD
Silicon X-tal Reflective Display

PURE XENON LAMP

The VPL-VW100 uses a Pure Xenon Lamp to deliver a true movie theatre experience. This is because it is capable of producing the closest light quality to that of sunlight and therefore Xenon lamps are commonly used in applications where the quality and clarity of the light is critical. Xenon lamps are also widely used in professional movie projectors, where demanding movie goers insist on the best possible picture quality for their viewing enjoyment. Today, with the VPL-VW100, the home theatre experience moves well beyond that of the movie theatre, delivering stunning high definition visuals in the comfort of your home.

A conventional projector may provide you with a picture, but only Sony's VPL-VW100 envelopes you with true to life, richer and deeper colour accuracy.

Pure Xenon Lamp

UHP Lamp

XENON LAMP COMPARISON

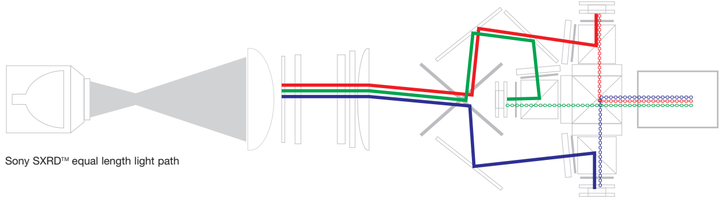
Reproducing the brightness of clear whites and reds has been a difficult matter for conventional projectors. The UHP (Ultra-High Pressure mercury) lamp built into these projectors are deficient in reproducing reds, which in turn affects the overall colour quality of the image.

The Pure Xenon Lamp however, has extraordinarily flat spectral characteristics, and therefore reproduces a light spectrum with a high similarity to sunlight. Not surprisingly, there is no comparison with the VPL-VW100 in natural colour reproduction.

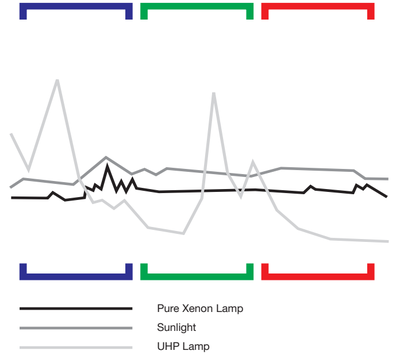
SXRD™ COLOUR UNIFORMITY

SONY SXRD™ EQUAL LENGTH LIGHT PATH / Unlike other projection technologies, Sony SXRD™ manages the separated light paths (red, green and blue) along paths of equal length thus ensuring colour uniformity across the screen, even in the four corners.

In a conventional projector the processing creates light paths of different lengths and therefore of different strengths when they are forwarded to the lens. This can create colour inconsistency and whilst measures are taken to compensate for this, colour inconsistency cannot be completely eliminated.



Sony SXRD™ equal length light path



Pure Xenon Lamp

ALL RANGE CRISP FOCUS LENS

ALL RANGE CRISP FOCUS (ARC-F) LENS / Especially for the VPL-VW100 Sony have engineered a new lens technology to optimise the high performance of the HD Sony SXRD™ panel. The ARC-F lens is capable of reproducing full HD panel resolution (1920 x 1080) with pixels of only 7µm. In combination with the minimization effect of the space between pixels, the inter-pixel space of 0.35µm delivers an extremely life like picture that is simply breathtaking.

POSITIONING FLEXIBILITY

1.8 TIMES ZOOM / The VPL-VW100 has one fixed lens with an incredible zoom range of 1.8 times (conventional projectors employ 1.2 times), that provides a greater flexibility in throwing distance. Combined with the lens shift function to adjust the projected image, the user has greater flexibility over where to position the projector within the room.

ULTRA HIGH CONTRAST

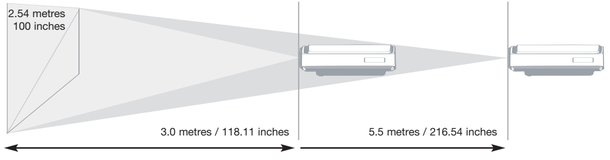
ADVANCED IRIS / The combination of the newly-evolved Advanced Iris and the Full HD SXRD™ panel delivers an ultra high 15,000:1 contrast ratio when in Auto mode. Advanced Iris can be controlled by the menu set up and has three settings; Off, On and Auto. In Auto mode it also automatically switches to an optimum iris according to the projected image. The Automatic Iris Aperture mimics the human eye in its behaviour resulting in deeper velvety blacks in the darker scenes and truly whiter whites in the brighter scenes. The effect is truly eye opening!

Bright scene

Dark scene

Advanced Iris: Off
Aperture open
Normal contrast

Advanced Iris: On
Aperture smaller
Enhances black by
emphasising contrast



LENS SHIFT

Lens Shift adds greater flexibility allowing the projected image to be adjusted in the vertical direction electronically via the remote control, and in the horizontal direction manually via a 1mm step change to the lens.

Horizontal shift: 1mm (Manual)

FULL DIGITAL PROCESSING

HIGH DEFINITION INPUT CONVERTER / The management and integrity of the data processing within the projector is of paramount importance to ensure that the best possible picture information reaches Sony's purpose designed 12 bit panel driver. For this reason, Sony has incorporated its own high quality DRC-MFv2, IP Converter and 3D Gamma processors into the VPL-VW100.

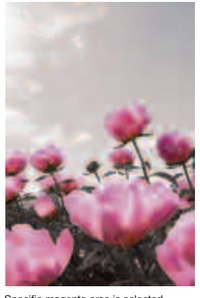
DIGITAL REALITY CREATION – MULTI FUNCTION v2 / Stunningly crisp and smooth images are reproduced thanks to Sony's DRC-MFv2 processor that allows the user to finely adjust the 'reality' and 'clarity' parameters. DRC-MFv2 is a proven technology that has been utilised with great success in the Sony BRAVIA LCD TV range and produces stunning results even when provided with a DVD source.

12 BIT PANEL DRIVER / Sony's 12 bit panel driver employed within the VPL-VW100 is capable of producing 4096 gradients of colour. This extended range of colour definition means far more realistic skin tones, greater natural colour reproduction and therefore pictures containing far more dimension.

REAL COLOUR PROCESSING / RCP allows the user to adjust a specific colour (red, yellow, green, cyan, blue, magenta) independent of all other colours to achieve the perfect image for each media environment. Three user settings can then be set so that they may be recalled at will. For the ultimate in user flexibility the projector image settings can be further adjusted from a PC using the supplied 'Image Director 2' software.

OVERSCAN AND NOISE REDUCTION / The overscan function allows the complete projection of the input image ("off" setting) or it allows you to hide the image 'noise' that appears along the edges of the picture ("on" setting). Noise reduction reduces the "roughness" or noise of the picture (low / middle / high setting), giving you a smoother picture and a more pleasurable viewing experience.

Original image before adjusting
Real Colour Processing



Specific magenta area is selected

Real Colour Processing adjusted image

Menu screen

SILENT OPERATION

SUPERB LOW FAN NOISE / When the eye is being entertained with the most stunning imagery, distractions of any nature interfere with your movie experience. That is why the VPL-VW100 is the quietest home projector in the industry. The fan noise of 22dB is like someone whispering at a distance of 20 metres, in other words hardly perceptible.

CONNECTIVITY

The VPL-VW100 plays host to the widest range of input connections possible. In addition to the standard analogue inputs of Component Video, Composite Video and S-Video the projector accommodates a 15-pin D-sub for PC connection. The range of digital inputs will ensure that any input device can be capably handled. The inclusion of both HDMI and DVI-D inputs guarantee the best possible HD picture quality will be delivered to the screen.

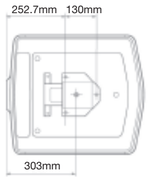
Furthermore, a 9-pin remote connection for integration into a 'room control' system and a 12-volt trigger output for controlling powered screens or room lights, have been incorporated. The projector can also be connected to a network enabling adjustments to the setup and monitoring of the lamp status from a remote PC.

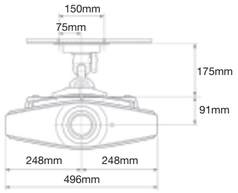
HD ready

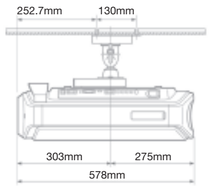
HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

ACCESSORIES

PSS-H10 - Optional Ceiling Bracket







RM-PJVW100 - Supplied
Illuminated Remote Control

LMP-H400 - Replacement lamp

Easy replacement of lamp

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VPL-VW100 SPECIFICATIONS

MODEL		VPL-VW100
Contrast Ratio / Advanced Iris Setting	Auto:	15,000:1
	On:	6,000:1
	Off:	3,000:1
Brightness in ANSI Lumens	Auto / On / Off:	800 / 400 / 800
Projection System		3 SXRD panels, 1 lens system
LCD Panel Size		0.61-inch SXRD with micro-lens array
Native Resolution		Full HD 1920 x 1080 x 3, 6,220,800 Pixels
Max. Input Signal Resolution		1920 x 1080
Zoom Lens		1.8 times (electric) f 18.7 - 33.7mm / F 2.54 - 3.53
Fan Noise		22dB
Picture Correction - Vertical		Lens Shift (electrical) & Vertical Keystone
Picture Correction- Horizontal		Lens Shift (manual fine adjustment)
Lamp		400W Pure Xenon
Lamp Replacement Time		2500 Hours
Lamp Replacement Type		LMP-H400
Filter Cleaning Time		2500 Hours
Screen Size (diagonally)		40 - 300 inch / 1.02 - 7.62m
Throwing Distance	80" / 2m screen	2.5 - 4.3m
Floor Installation	100" / 2.5m screen	3.1 - 5.3m
16:9 Aspect Ratio Screen	150" / 3.8m screen	4.7 - 8.0m
	200" / 5.1m screen	6.3 - 10.7m
	300" / 7.6m screen	9.4 - 16.0m
INPUTS		
15-pin D-sub		1 (Input A)
HDMI		1
DVI-D		1 (TMDS)
Component Video		1
S-Video		1
Composite Video		1
RS232C		1 (D-sub 9-pin)
Network		RJ-45
Trigger Out		1 Minijack (12V)
SIGNALS		
Colour System (switched automatically & manually)		PAL / SECAM / NTSC3.58 / NTSC4.43 / PAL-M / PAL-N / PAL 60 system (only auto)
Acceptable Video Signals		15kHz RGB/Component 50/60Hz, Progressive Component 50/60Hz, DTV (480/60i, 575/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i), 1080/60p (DVI and HDMI only), 1080/50p (DVI and HMDI only), Composite Video, Y/C Video
Acceptable Computer Signals		Horizontal 19-72kHz, Vertical 48-92Hz, Maximum resolution 1920x1080, fV: 60Hz
GENERAL		
HD Ready		Yes
Power Consumption		Max. 610W, Standby mode: 10W, ECO mode: 0.5W
Colour		Glossy White
Dimensions (wxhxd)		496 x 175 x 574 mm
Weight		Approx 19kg
SPECIAL FEATURES		
Advanced Iris		Off / On / Auto
Real Colour Processing		Manual colour adjustments
DRC-MFv2, smooth images		Off / Mode 1 / Mode 2
Noise Reduction		Off / Low / Middle / High
Over Scan		On / Off (Whole Picture)
Screen Area		Full (Whole Screen) / Through
Access Projector via PC		Status / Control / Set-up via IP Address
SUPPLIED ACCESSORIES		
Remote Control		RM-PJVW100
Battery Remote		2x R6 (AA)
Replacement Air Filter		Air filter cover
CD-ROM		Image Director 2 Software
OPTIONAL ACCESSORIES		
Replacement Lamp		LMP-H400
Ceiling Bracket		PSS-H10

SONY

VPL-VW100 FULL HD SXRD™ PROJECTOR

HD ready

SXRD Silicon X-tal Reflective Display

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE