

SONY



VPL-VW200

1080p HD home theatre projector with High Frame Rate SXR^D panels, Carl Zeiss Vario-Tessar Lens and extremely high 35,000:1 contrast ratio

The VPL-VW200 is a 1080p HD home theatre projector with High Frame Rate SXR^D panels, Carl Zeiss Vario-Tessar Lens and extremely high 35,000:1 contrast ratio displaying incredible picture quality for screen sizes up to 300". BRAVIA Engine Pro and x.v.Colour create life-like images with stunning colour representation

Features

Three 1920 x 1080 High Frame Rate SXR^D™ panels deliver 1080p HD resolution and cinema-quality smoothness

6.2 Mega Pixel resolution for stunning HD picture quality

Motionflow Dark Frame Insertion technology for greater smoothness of fast-moving images

Extraordinarily high contrast ratio of up to 35,000:1 with Advanced Iris 2 for manual contrast settings

Powered by BRAVIA Engine Pro to produce sharp, life-like images and x.v.Colour for vibrant, natural colour representation

Accurate colour reproduction thanks to 400W Xenon lamp that achieves crisp whites and spectacular reds

Carl Zeiss Vario-Tessar Lens provides extremely high resolution and sharp focus, optimising full 1080p HD images

Adjustable Lens Shift for easy set-up (Vertical: 65% up or down, Horizontal: 6.7% left or right)

Zone Panel Alignment

BRAVIA Theatre Sync enabling you to operate your projector and entire home cinema system by pushing a single button

Wide range of connections including 2 HDMI for easy connectivity to High Definition sources such as Blu-ray Disc

Accepts 1080p and 24p input signals via HDMI™ CEC to meet the standard used in Hollywood and almost all cinema studios

Virtually silent fan noise of 22dB - the sound of a whisper from 20 metres away

Deluxe remote commander with back-light buttons for great functionality in dark settings

Benefits

1080p High Definition

The unique combination of three separate panels of 1920 x 1080 resolution (one each for red, green and blue) means that SXR^D can deliver over 6.2 million pixels, more than twice as many as the 2.8 million pixels you get with other 720p HD ready projectors. Because each pixel is smaller, lines are cleaner and the detail and texture of fine objects can be perfectly expressed. Your reward is breathtaking depth and clarity of such a high level, you will be able to count the whiskers on your favourite actor's face.

Smoother cinema-quality films

By reducing the space between pixels, SXR D panels virtually eliminate the 'screen door' effect, the pixel grid which can spoil big-screen pictures on lesser projectors (see left). This gives the projected image seamless film-quality consistency, even when the incoming High Definition video signal is less than 1080p HD. The VW200 also has new SXR D panels with high frame rate capability, which enhances the HD video signal even further to deliver the ultimate smoothness every cinema connoisseur craves.

Stunning contrast

Working together with new SXR D panels, our enhanced optical components and Advanced Iris 2 function produce an image with an incredible contrast of 35.000:1.

Fast action movies, sports and video games

Sony's SXR D panels feature a 2,5 millisecond response time which makes the images on the VW Series projectors at least as crisp and smooth as they are in the cinema, even with fast-action sports and video games. When compared to the 8 millisecond response time of a conventional LCD television, you begin to get a sense of just how fast SXR D panels really are.

Three new SXR D panels for outstanding contrast, clarity and colour

VW Series projectors feature three separate SXR D panels - one for red, green and blue - which each process light paths of equal length to ensure uniform colour strength across the entire screen. This eliminates the colour inconsistency often caused by conventional projectors, which create light paths of different lengths when forwarding the light to the panel, making some colours stronger than others. What's more, the annoying rainbow effect caused by colour-wheel technology is a thing of the past thanks to this remarkable three panel system. With a BRAVIA SXR D projector, you will never have to suffer any irregularity of colour.

Advanced Iris 2 is here

In combination with three new SXR D panels and superior optical components, the newly-evolved Advanced Iris 2 produces an incredible contrast ratio of 35.000:1 in Auto Mode. Black appears a staggering 35.000 times darker than white. By mimicking the human eye, Advanced Iris 2 responds dynamically to each scene, switching to an optimum iris size according to the projected image.

The results are deeper, velvety blacks in darker scenes and truly whiter whites in brighter scenes. With a panel response time of just 2,5 milliseconds, Advanced Iris 2 can even maintain this level of contrast in fast-moving scenes - from sports to video games and action films. Four

settings guarantee that perfect contrast is achieved every time.

Two Auto modes for perfect contrast moment to moment

Advanced Iris 2 has two Auto mode settings designed for different types of video content. Auto 1 is intended for material with a wide range of brightness from scene to scene, like action or adventure films and games. It allows the iris to fully open and close as required. Auto 2 is for viewing content with less brightness variation, such as a romantic feature film or a courtroom drama.

Manual Mode for any lighting situation

The Manual Mode setting provides a free choice of settings so you can select your preferred contrast level for different lighting conditions. Setting the level to Max offers maximum screen brightness when a room is brightly lit. While in low light conditions or total darkness, a setting at the minimum closes the shutter which results in the maximum amount of contrast for deep blacks in darker scenes.

Carl Zeiss lens

Nothing has a greater impact on picture quality than lenses. So it's no wonder cinematographers insist on the legendary optics of Carl Zeiss. The professional-grade Vario-Tessar lens is composed of many separate glass elements bringing world renowned precision to the BRAVIA VW200 home theatre projector. Each Vario-Tessar lens is individually tested and evaluated to the most stringent standards of resolution, uniformity and focus. The result is a first-class lens of unquestioned quality with an impressive zoom range of 1,8x.

Pure Xenon Lamp

Reproducing the brightness of clear whites and reds has always posed a problem for conventional projectors. Not for the VPL-VW200. Its Pure Xenon Lamp has extraordinary spectral characteristics so it can produce a light spectrum similar to that of sunlight. This spectral profile allows the Pure Xenon Lamp to generate staggering reds for richer, more natural colours overall, especially when paired a High Definition video source. The capacity of the 400 wattage lamp makes it exclusive to the BRAVIA VW200, with the exception of the professional screening rooms at major motion picture studios.

x.v.Colour - more lifelike colours and natural tones

x.v.Colour is based on the xYCC international standard for video signals that defines a colour space nearly two times wider than the existing sRGB standard colour space. The x.v.Colour palette more closely matches the full, natural range of hues and gradients perceived by the human eye, instead of substituting or approximating

colours as lesser projectors do. It is now possible to experience this more realistic colour by connecting the VW200 projector to an x.v.Colour source, such as an HD Handycam® camcorder by Sony.

Deep Colour - trillions of colours instead of mere millions

Deep Colour makes it possible for the VPL-VW200 to produce trillions of colours so you can enjoy groundbreaking vividness and accuracy of colour. Deep Colour eliminates on-screen colour banding, ensuring smooth tonal transitions and subtle gradations between hues. It helps deliver increased contrast ratio, and can represent many times more shades of grey between black and white.

Real Colour Processing (RCP) - absolute colour control

Ingenious RCP for the VPL-VW200 and VW60 actually allows you to adjust the hue of a specific colour without changing the whole image. You can make a rose redder without altering the green of its stem, or bring out the blue in someone's eyes without changing the colour of their shirt.

Motionflow Dark Frame Insertion

To bring the thrill of watching fast-paced, cinematic action to your home, the VPL-VW200 features a new technology called Motionflow Dark Frame Insertion, which makes motion much smoother through a method called Double Speed Processing. This innovative process creates and inserts artificial frames, first comparing key visual factors on successive frames - for example the position of a car hubcap - then calculating the split second of 'missing' action in the sequence. Although other technologies also insert frames in a similar way,

Motionflow Dark Frame Insertion uses a unique algorithm that can take into account more visual factors from the existing frames - so the new frame is much more accurate. The optional insertion of darkened frames heightens the contrast and eliminates any judder - the jerky picture that can occur when the camera pans - by allowing the eye to naturally blend one frame into the next. This action mimics that of actual movie projection and functions best in a completely dark environment. Thanks to Motionflow Dark Frame Insertion, your BRAVIA projector can display the wildest action scenes with incredible precision and smoothness. The picture practically leaps off the screen in cinematic splendour.

BRAVIA ENGINE and BRAVIA ENGINE PRO

The unique BRAVIA ENGINE found inside the VPL-VW60 drives its amazing picture by generating incredible colour clarity through nine separate picture enhancement processes. These ensure that the picture projected on the screen represents visual perfection. The VPL-VW200 boasts the advanced BRAVIA ENGINE PRO featuring Digital Reality Creation (DRC-MF v2.5) which further

improves both Standard and High Definition signals through four additional processing steps, so that you see every detail clearer than ever before. For example, through the process of noise reduction, interference within the signal is reduced pixel by pixel, essentially upgrading the quality of even High Definition pictures. The work of the BRAVIA ENGINE PRO in combination with new high frame rate SXRD panels is the reason the VW200 can deliver such sharp, vibrant and lifelike images.

Cinema Mode

Cinema Mode was developed to faithfully reproduce genuinely cinematic visual experience in the convenient surroundings of home. When you select Cinema Mode, one of six picture-setting buttons located on the remote, your BRAVIA projector will achieve a picture quality that stays truer to the director's vision. For instance, Cinema Mode retains the original lighting in shadowy scenes. When used in a completely darkened room, Cinema Mode perfectly recreates all the colour, contrast and brightness of the original film as it would appear in an actual cinema. Of course, individual picture settings can be adjusted, saved and retrieved via the corresponding button on the remote control.

24p True Cinema

24p True Cinema was designed for loyal movie-lovers who wish to enjoy films just as the director intended, pure and without distortion. Most movie directors shoot their films using 24 frames per second, yet when films are transferred to video, more frames are needed to compensate for the higher frame rate. So the speed of a film on DVD is increased by 4%, shortening the overall running time. This also affects picture quality and even raises the pitch of the music as well as actors' voices! When a BRAVIA home theatre projector is connected to a 24p movie source such as a Blu-ray Disc player, films shot in 24p are displayed exactly as the camera first recorded them - for a truly authentic night at the movies.

Comprehensive connectivity

Even the most impressive performers are only as good as their network - and the VW Series is extremely well connected. Two HDMI™ (High Definition Multimedia Interface™) digital inputs with CEC ensure that your projector can reproduce the superb quality of any signal delivered by the next generation of 1080 High Definition devices. HDMI does not require compression or conversion to process HD signals. For this reason, the projected image will match the native resolution of the HD source pixel by pixel, for a smoother, sharper picture and audio of the highest fidelity.

In addition to the standard analogue inputs of Component Video, Composite Video and S-Video, VW Series projectors also accommodate a 15-pin D-sub (VGA) port that lets you run films or photo slideshows directly from a PC, and a 12-volt trigger that will automatically lower a powered theatre screen. But the king of VW Series

interfaces is the RJ45 Ethernet port¹). This efficient connection offers simple and comprehensive menu settings from a remote PC.

'BRAVIA' Theatre Sync

Gone are the days of complex start-up routines and multiple remotes. 'BRAVIA' Theatre Sync allows automatic two-way communication and synchronisation between home theatre components that support the next generation of HDMI: HDMI with CEC. Thanks to this convenient feature, when you are ready to watch a film, you can turn on every device you need by simply pressing 'Play' on your DVD player. Press 'Power' on your projector remote, and all your devices simultaneously power down.

Room control installation

With a 9-pin RS-232C port, VW Series projectors will install in a room control system which blends elements of lighting control and audiovisual management with other automated room control functions. Via the RS-232C input, you can activate the projector, lower the screen, dim the lights and start the film - without touching a remote. The RS-232C port also enables you to monitor the lamp status via a PC.

Lens Shift

Need the projection to be just above the sound system but directly below the light fixture and right between the speakers? Lens Shift aligns the picture exactly where you want it, from a relatively short distance away. Lens Shift allows for vertical adjustment of the projected image electronically via the remote control, and horizontal adjustment to the lens of 1mm via a manual dial. That means the image can shift vertically by 65% of its height and horizontally by 6,7% of its width. Combine that with throwing distance adjustments by way of the motorised zoom and Lens Shift gives you the greatest control over how and where to position your projector, even when you place it close to the screen.

Silent operation

One of the very best features of a VW Series projector is one you won't notice at all. BRAVIA designers have all but eliminated the problem of fan noise at home theatre viewings by optimising the airflow in all VW models. Their distinct internal layout boosts the efficiency of the fan to deliver maximum cooling for longer lamp life, while the specially designed fan assembly runs noiselessly on a non-contact spindle so that the projector is whisper-quiet, emitting a near-silent 22dB. This unique fan design makes every screening a sensory experience to be savoured, perfectly free of distractions.

Anamorphic zoom mode

After defining the ideal screen position with Lens Shift, select your preferred aspect ratio. All new VW Series

projectors are ready to be fitted with an optional anamorphic lens (sold separately) for a true cinematic experience. Thanks to anamorphic zoom mode, VW projectors can compress the image vertically so that the attached anamorphic lens can widen it horizontally - allowing you to view films in the impressive 2,35:1 aspect ratio seen in actual cinemas. The lens requires professional installation, so please ask your dealer for more information.

Ceiling installation

The PSS-H10 optional ceiling bracket enables you to mount your projector permanently on the ceiling while still allowing for positioning flexibility - just in case your theatre layout should change. The stand itself slides from side to side, and the ball-and-socket joint can be rotated in multiple directions for both fine and large adjustments. Not only can the projected image flip vertically for ceiling projection, but it also flips horizontally for rear projection. The Lens Shift function can then be used to position the picture exactly where you need it.

Finishing touches

After finding the perfect place for your projector and selecting the optimal picture size to fit your screen, you're ready to enjoy High Definition entertainment. To ensure the image is absolutely perfect, the VPL-VW200 and VW60 are configured with a panel alignment function that allows you to shift each colour vertically or horizontally for perfect character positioning (see diagram). Please refer to the instruction manual before making any adjustments since pixel number and resolution can be inadvertently affected.

Easy maintenance

All projector lamps begin to deteriorate after some time and therefore need to be replaced periodically. Easy-to-follow instructions make maintenance and lamp replacement a simple task. To ensure undiminished BRAVIA picture quality, it is recommended that the lamp for the VPL-VW200 be changed after 2500 hours of use, and the lamp for the VPL-VW60 after 3000 hours. Naturally the lamps may last much longer than stated here depending on how you use your projector. To guarantee the longest lamp life possible, the air filter should be cleaned after 1500 hours of use. For your convenience, both replacement lamps come packaged with a new air filter. Please ask your dealer for details on where to purchase replacement lamps.

Sophisticated illuminated remote control

All the most important settings can be adjusted directly from the remote without needing to access the projector's menu.

Command performance at your fingertips

All VW Series projectors come supplied with a unique remote control that puts all the outstanding functions of the projector firmly in the palm of your hand. Wide Mode, Cinema Mode, Brightness and Contrast settings can each be changed directly via the remote without accessing the menu. Three individual user settings can be saved and retrieved through dedicated buttons, allowing you to assign, for example, one picture setting for films, one for sports and another for video games. The LED illumination

makes the remote control clearly visible and easy to use whenever you need it, even in total darkness.

Image Director 3 software

Image Director 3 software, included with the VW200 and VW60, enables more knowledgeable users to make advanced gamma adjustments to the projected image via a connection to their PC through the RS-232C input. Image Director 3 provides precision picture adjustment capabilities for the most discerning viewers of High Definition media.

Technical Specifications

Video Signal

480p	Yes
576i	Yes
576p	Yes
1080i	Yes
720p	Yes
1080p	Yes (HDMI input only)
1080/24p	Yes (HDMI input only)

Accessories

Software	Image Director 3 Gamma
Air Filter (Replacement)	Supplied with replacement lamp
Ceiling Bracket (Optional)	PSS-H10
Lamp (Replacement)	LMP-H400 (optional)
Remote Commander	RM-PJVW200

Colour System

NTSC 3.58	Yes
NTSC 4.43	Yes
PAL	Yes
PAL-60	Yes
PAL-M	Yes
PAL-N	Yes
SECAM	Yes

Connections

HDMI	Yes (CEC)
HDMI 2	Yes (CEC)
Composite Video	Yes
S-Video	Yes
RS232C Control	Yes
Bravia Theatre Sync	Yes
RJ45	Yes
Input A	15 pin D-sub
Computer Input	Yes
12V Trigger	Yes

Dimensions

Depth (mm)	574
Height (mm)	175
Width (mm)	496

General

Fan Noise (dB)	22
Ceiling Mountable	Yes

Colour	Midnight Blue
Power Consumption (Standby) (W)	Eco 0.5
Power Consumption (W)	650
Weight (Gross) (kg)	20

Menu

Lamp Timer	Yes
OSD Menu	Yes
Model Name Display Mode	Yes

Menu Languages

Arabic Menu	Yes
Chinese Menu	Yes
Dutch Menu	Yes
English Menu	Yes
French Menu	Yes
German Menu	Yes
Italian Menu	Yes
Japanese Menu	Yes
Korean Menu	Yes
Norwegian Menu	Yes
Portuguese Menu	Yes
Russian Menu	Yes
Spanish Menu	Yes
Swedish Menu	Yes

Optical

SXRD™ Panel Resolution	6.2 Mega Pixel
Aspect Ratio	16:9
Brightness (ANSI lumen)	800
Contrast	35,000:1
Response Time (ms)	2.5
Lamp (W)	400
Lamp Type	Xenon
LCD Panel Resolution	1920x1080
LCD Panel Size (inch)	0.61
Projection Lens	Carl Zeiss Vario-Tessar (F / f 2.5 - 3.5 / 19 - 34)
Projection System	3 x High Frame Rate SXRD™
Screen Coverage (Diagonal) (inch)	40 - 300

Picture

Horizontal Lens Shift	Yes (6.7% left or right)
Vertical Lens Shift	Yes (65% up or down)
Real Colour Processing	Yes
x.v.Colour	Yes
Technologie DRC (Digital Reality Creation)	Yes
Advanced Iris Setting	Advanced Iris 2
24p True Cinema	Yes
Digital Noise Reduction (DNR)	Yes
Vertical keystone correction	Yes
Bravia Engine Pro	Yes

Throwing Distance

Screen Size 40 inch diagonal (m)	1.5 - 2.4
Screen Size 60 inch diagonal (m)	2.1 - 3.4
Screen Size 80 inch diagonal (m)	2.7 - 4.5
Screen Size 100 inch diagonal (m)	3.4 - 6.0
Screen Size 120 inch diagonal (m)	4.0 - 6.7
Screen Size 150 inch diagonal (m)	4.9 - 8.3
Screen Size 200 inch diagonal (m)	6.5 - 11.0
Screen Size 300 inch diagonal (m)	9.7 - 16.4