



bringing cinema home in 4K, Full HD and 3D

SXRD™ Home Cinema Projector Range

SONY

4K



2-3	Introduction
4-5	4K for the Home
6	SXRD
7-9	Picture & Colour Enhancement
10-13	3D
14-15	Incredible Features
16-17	VPL-VW1100ES
18-19	VPL-VW500ES
20	VPL-HW55ES
21	VPL-HW40ES
22-23	Technical Glossary
24	Technical Specifications

bringing cinema home in 4K, Full HD and 3D

Imagine your favourite movies in true cinematic detail. From 4K to Full HD, create a real movie theatre feel at home.

4K gives you more than four times the resolution of Full HD, the same as you would see at a professional cinema. Our 3D projectors bring the action to life with incredible impact.



4K SXRD





The big screen, at home

From native 4K to Full HD 3D, Home Cinema projectors from Sony are packed with innovative technology to bring your movies to life. Advanced SXRD panels, like the ones inside our professional cinema projectors, produce jaw-dropping detail that will totally immerse you in the action.

VPL-VW500ES

Delivering the same, incredible native 4K resolution, the VPL-VW500ES is ideal for home cinema enthusiasts. A smaller optical engine and compact design allows flexible installation in your movie room.



VPL-HW55ES

Our Full HD 3D projector produces an incredible cinematic experience, far beyond the reach of TV. Reality Creation upscales your movies and SXRD panels synchronise with your 3D glasses for remarkable impact.



VPL-VW1100ES

For dedicated screening spaces, this is home cinema at its very best. Spectacular native 4K resolution (more than four times the quality of Full HD) and a host of advanced features make this our leading 4K Home Cinema projector.



VPL-HW40ES

Enjoy a high-impact, great value home cinema experience, bursting with detail. Advanced SXRD panels, Reality Creation and 1,700 lumens brightness mean you'll see your favourite films like never before.



4K: the ultimate,

See the truly bigger picture with 4K. You'll see the movie the director intended you to see – every detail, every texture, every tone.



fully immersive visual experience **4K**

4K native resolution: no compromise

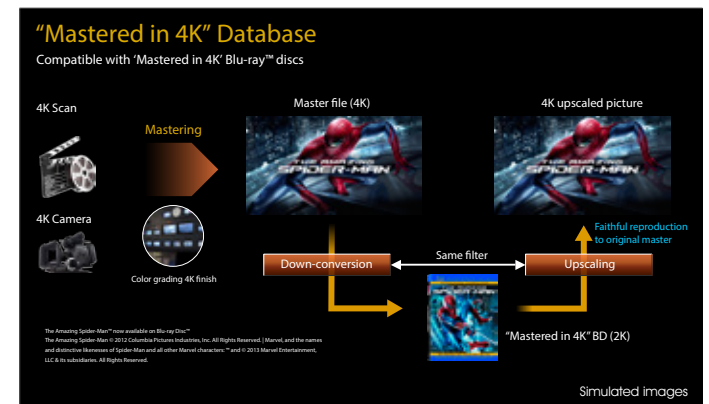
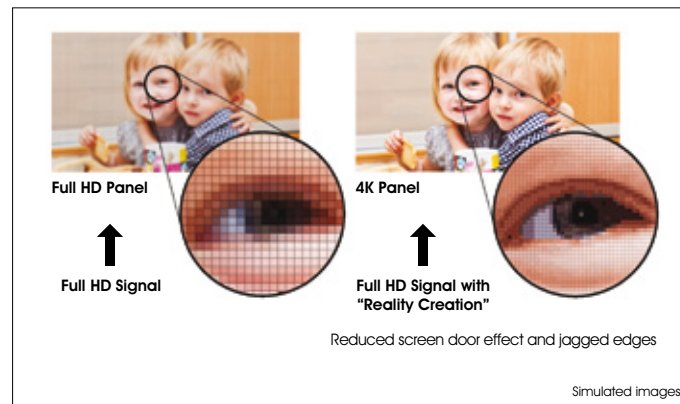
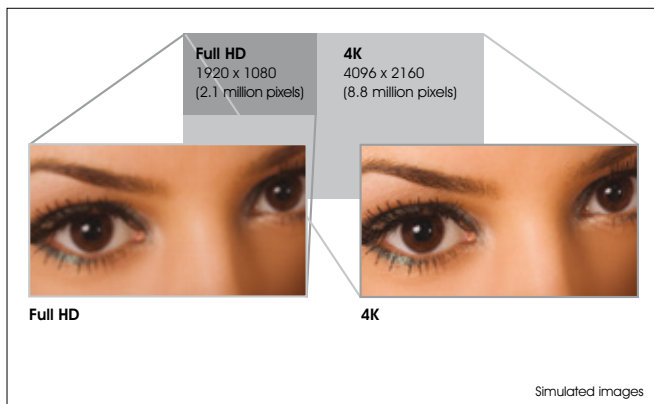
Our 4K Home Cinema projectors offer 4096 x 2160 resolution, more than four times the resolution of Full HD. The 4K SXRD panels have been developed by Sony using 4K technology from our professional cinema projectors. They deliver a native 4K picture with no electronic enhancement of pixels.

Reality Creation 4K upscaling of Full HD content

In addition to supporting 4K native resolution, our 4K projectors also feature Reality Creation, an exclusive Super Resolution upscaler. It dramatically enhances high definition 1080p content, so you'll get the most from your existing Blu-ray Disc™ libraries at home. For greater versatility, it can also display Full HD, 3D and even 4K upscaling of 3D movies.

"Mastered in 4K"

Our 4K projectors are compatible with 'Mastered in 4K' Blu-ray™ discs. Drawing on the same technology used to downscale 4K material for Full HD, they produce 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 colour range of the original.



Advanced SXRD panels for truly cinematic 4K and Full HD resolution

Highly developed SXRD panels produce an ultra-smooth native picture by dramatically reducing the space between pixels at a super-fast speed.

SXRD



Digital drive panels minimise the space between pixels, aligning red, green and blue areas in every frame at an incredible response rate of 2.5-milliseconds. That's much faster, and more stable, than an LCD TV, producing ultra-smooth, dot-free pictures with natural, fluid movement.

4K native resolution: over 4x better than Full HD

No compromises: the VPL-VW1100ES and VPL-VW500ES provide 4096 x 2160 4K resolution (the DCI standard in digital cinemas). We used our professional cinema expertise to develop 4K SXRD panels and produce a 4K native picture with no artificial enhancement of pixels.



The typical 'screen door' effect seen on projectors without SXRD technology.

Full HD 3D with advanced Iris3

SXRD panels with advanced Iris3 technology in the VPL-HW55ES projector reduce pixel gaps and reproduce up to 240 frames per second for super-sharp images. Because our 3D glasses have a synchronised shutter speed, you'll also enjoy incredible high-definition 3D with minimal crosstalk.



The SXRD panel minimises the space between the pixels to 0.2µm.

a multitude of picture and colour enhancement technologies

4K and Full HD 3D technologies offer true-to-life picture quality, but blowing them up to 300"/7.6m also means you'll notice any flaws. Our SXRD home cinema projectors have many features to ensure optimum picture quality.





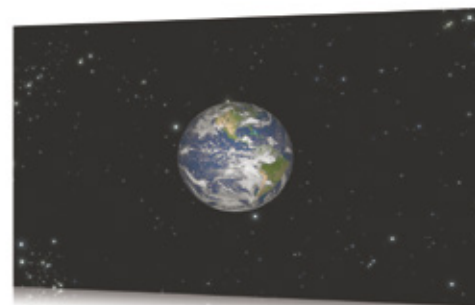
Reality Creation

Innovated for our 4K Home Cinema projectors, Reality Creation has now been adapted for the VPL-HW55ES and VPL-HW40ES projectors. It reproduces the colour and texture of the original 1080p content by restoring missing information lost during packaging of the original to disc. As a result, you can enjoy sharp and crisp Full HD pictures.



Bright Cinema and Bright TV Mode for living room theatre

Conventional home cinema projectors typically enhance green colours to increase brightness, which compromises quality. Sony Home Cinema projectors use Bright Cinema and Bright TV Mode to retain high brightness without sacrificing colour reproduction or contrast, so you can enjoy a crisp, bright picture, even in a well-lit room.



Without Advanced Iris3

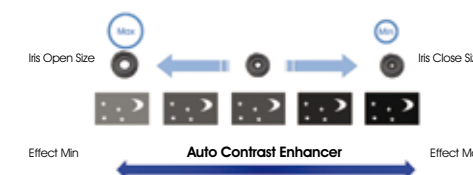


With Advanced Iris3

Advanced Iris3 for optimum dynamic contrast*

Don't miss out on the detail in dark scenes. Advanced Iris3 technology works like the human eye to produce the optimum dynamic contrast for the picture. The impact on image quality makes a real difference to your film picture, making your home truly feel like a cinema.

*Except VPL-HW40ES





Simulated images

Colour as real as life

(VPL-VW1100ES and VPL-VW500ES only)

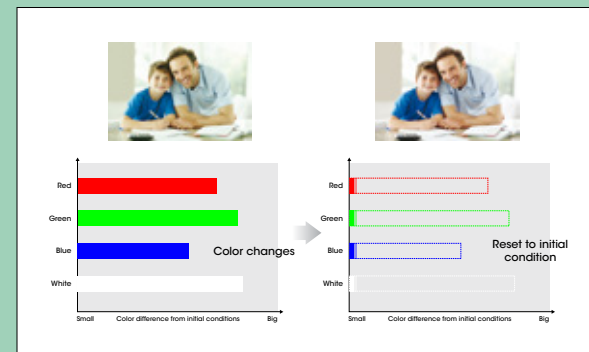
From the deepest blues to the freshest greens and boldest reds, you'll experience colours as bright – and subtle – as real life. Our 4K projectors use unique TRILUMINOS technology to create a broader colour palette, so what you see on screen has greater purity, depth and realism.



Motionflow

Motionflow and New Motionflow

For fast-moving scenes, the VPL-VW1100ES, VPL-HW55ES and VPL-HW40ES use our Motionflow technology, displaying twice as many images and transitions per second as Full HD for minimal blur. The VPL-VW500ES uses New Motionflow, with 'Combination' mode creating additional dark frames to reduce blur for more natural motion, while 'True Cinema' mode retains additional combined dark and artificial images to each frame.



Auto Calibration

(VPL-VW500ES only)

After extended periods, colour can be automatically calibrated to the original factory condition. There's no need for extra calibration equipment or cameras; a built-in colour sensor stores all the necessary information.

HSV manual Colour Correction

(VPL-VW500ES only)

A correction tool allows you to adjust the hue, saturation, and brightness of each colour to get exactly the picture you want.

RCP (Real Colour Processing) for richer picture quality

(VPL-HW55ES and VPL-HW40ES only)

The VPL-HW55ES offers an "RCP (Real Colour Processing)" function to adjust the colour and hue of each target colour of the projected picture independently, alongside the brightness at the same time.



a breathtaking 3D experience



Added impact with frame sequential display technology.

Our 3D Home Cinema projectors deliver high quality 3D pictures using specialist 3D active shutter innovation from Sony. Frame sequential display technology transmits alternate images to the left and right eye and synchronises them with the on-screen image for maximum resolution.



VPL-VW500ES: built-in RF 3D transmitter

There's no need for an external transmitter or cables. Our latest 4K projector has a built-in RF 3D transmitter and synchronises automatically with RF 3D glasses. The result is greater stability and wider coverage (up to a 10m radius). Our RF 3D glasses (TDG-BT500A) are an optional accessory – adding extra pairs means everyone can enjoy the full 3D impact.



RF 3D compatibility

For improved 3D viewing, the VPL-VW1100ES, VPL-HW55ES and VPL-HW40ES are RF 3D compatible. The emitter and glasses are optional accessories, offering you greater stability and coverage. A built-in IR 3D transmitter synchronises automatically with IR 3D glasses. The IR and optional RF 3D emitter meet 'Full HD 3D Initiative' industry standards.

3D – get closer to the action



Greater coverage and stability with RF 3D transmission.



Built-in RF 3D transmitter

While the 4K VPL-VW500ES comes with a built-in RF 3D transmitter to automatically synchronise with your RF 3D glasses, the VPL-VW1100ES and VPL-HW55ES are RF 3D compatible with an optional RF 3D transmitter. RF 3D glasses are also an optional accessory.

Built-in IR 3D transmitter

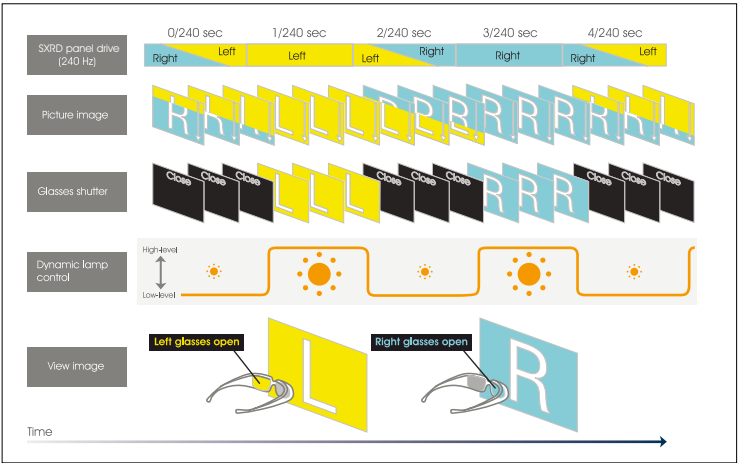
For greater convenience, the VPL-VW1100ES, VPL-HW55ES and VPL-HW40ES have the IR transmitter built in, eliminating the need for extra cabling and reducing set-up time.

	VPL-VW1100ES/ VPL-HW55ES/ VPL-HW40ES	VPL-VW500ES
Built In	IR	RF
External (optional accessory)	IR/RF	N/A



2D to 3D conversion

Sony is leading the way with an ever-growing selection of movies, sports and TV programmes in 4K and Full HD 3D detail. Our 3D projectors also convert 2D pictures into 3D, so you can enjoy a classic movie in a whole new dimension.



Dynamic Lamp Control

(VPL-HW55ES and VPL-HW40ES only)

When each of the shutters on your 3D glasses opens, Dynamic Lamp Control Technology automatically boosts the brightness in the image to that eye, by up to three times. This maximises the picture's impact and the lamp's efficiency, so you will not lose any brightness.

240 Hz panel drive mechanism for 3D

(VPL-HW55ES and VPL-HW40ES only)

The VPL-HW55ES uses Motionflow and special active shutter 3D glasses to synchronise with images at a high speed of up to 240 frames per second. The result is a high quality Full HD 3D image, with little 'ghosting' (sometimes experienced with other 3D technologies).

Separate 2D and 3D modes

As well as automatically recognising 2D and 3D content, our home cinema projectors allow you to pre-select from a range of viewing options: Standard, Dynamic, Cinema, Game and Photo.

Adjustable settings

Sony 3D projector technology gives you extra control over the 3D picture. Adjust 3D depth and brightness to suit your room conditions or get the picture just how you like it.

Incredible features for a



Extremely low fan noise

Sony SXRD Home Cinema projectors run very quietly with an advanced air discharge system. Highly efficient cooling ensures fan noise is kept to a minimum, leaving you to concentrate on your movie or game without distraction.



superb cinematic experience

Our projectors are packed with innovative features which are easy to use and control.

Adjustable Lens Shift

The projected image position (horizontal and vertical) can be easily adjusted with the Lens Shift function. It expands the projector's placement and installation options without distorting the image quality. The VPL-VW55ES and VPL-HW40ES can be adjusted 71% vertically and 25% horizontally; the VPL-VW1100ES and VPL-VW500ES have a shift range of up to 85% vertically and 31% horizontally as well as a built-in motorised lens system. An automatic cover in front of the lens protects the VPL-VW1100ES and VPL-VW500ES from dust and opens and closes automatically when the projector is turned on or off.

Panel alignment

To ensure the best possible results, all models feature electronic panel alignment for exact positioning of the red and blue elements in each pixel. Adjustments can be made by as little as 0.1 pixels to achieve optimum clarity.



Picture Position Memory

(VPL-VW1100ES and VPL-VW500ES only)

This feature remembers the position of the zoom lens. You can match it to a movie's aspect ratio (including 16:9 and Cinemascope) and store the settings for a future viewing.



Wireless option (up to Full HD 60p)

Free yourself from cables and keep things tidy with an optional wireless HDMI emitter/receiver kit. Wirelessly connect to your games console, Blu-ray Disc™ player and more.

USB updates

To get the best from your projector, the VPL-VW500ES has a USB port for the latest firmware updates.



16:9 Without Picture Position Memory



16:9 With Picture Position Memory

VPL-VW1 100ES

Our flagship 4K Home Cinema front projector, offering more than 4x the resolution of Full HD.

The ultimate 4K experience. Designed for dedicated screening rooms, our luxury, flagship 4K projector gives you more than four times the resolution of Full HD with an incredible dynamic contrast ratio of 1,000,000:1 and high brightness of 2,000 lumens.

Key Features:

- 4K: over four times the resolution of Full HD
- Advanced SXRD panels and Iris3 technology
- Remarkably high dynamic contrast ratio of 1,000,000:1
- High brightness: 2,000 ANSI lumens
- Reality Creation: 4K upscaling
- TRILUMINOS colour technology: wider colour range
- Motionflow: less blur in fast action scenes
- Picture Position Memory
- 4K/60 frames per second (new 4K standard)
- RF compatible for improved 3D viewing (RF 3D emitter and glasses are optional accessories)
- Built-in IR 3D transmitter
- Optional Wireless HDMI emitter/ receiver kit available



Advanced SXRD panels with Iris3 produce superb native 4K images, while Reality Creation upscales 2D and 3D content for an outstanding 4K experience.



home projector range - VPL-WW1 100ES 17

VPL-VW500ES

For the serious home cinema enthusiast: a 4K projector, packed with advanced features.

Imagine the fully immersive cinematic quality of 4K in your own home.

Perfect for home cinema enthusiasts, the VPL-VW500ES 4K projector gives you a 4096 x 2160 resolution picture, over four times better than Full HD. Its exceptionally high dynamic contrast ratio of 200,000:1 and 1,700 ANSI lumens brightness produce stunning detail and rich, faithful colour – even in well-lit rooms.

Key Features:

- 4K: over four times the resolution of Full HD
- Advanced SXRD panels and Iris3 technology
- High dynamic contrast ratio of 200,000:1
- High brightness: 1,700 ANSI lumens
- Reality Creation: 4K upscaling
- TRILUMINOS colour technology: wider colour range
- New Motionflow: 'Combination' mode reduces blur, 'True Cinema' mode retains the 24p original
- Picture Position Memory
- 4K/60 frames per second (new 4K standard)
- Built-in RF transmitter for improved 3D viewing
- Auto Calibration
- Optional Wireless HDMI emitter/ receiver kit available



Incredible native 4K
detail, stunning colour
reproduction and Reality
Creation upscaling.



VPL-HW55ES

Full HD 3D Home Cinema Projector for an incredible cinematic experience at home, far beyond the reach of TV.

The VPL-HW55ES Full HD 3D home cinema projector uses the very latest technology and delivers a premium home theatre experience. Packed with many innovative features that draw on Sony's latest optical engine, it uses Reality Creation to dramatically enhance high definition content, reproducing colours and textures that are lost when movies are packaged to disc. It gives you crisper, sharper Full HD pictures, much closer to the 1080p original.

Key Features:

- Advanced SXRD panels and Iris3 technology
- Dynamic contrast ratio of 120,000:1
- High brightness: 1,700 ANSI lumens
- Bright Cinema and Bright TV modes
- Reality Creation
- Long-lasting lamp: up to 5,000 hours
- Motionflow: minimises blur in fast-moving scenes
- Built-in IR 3D transmitter
- RF 3D compatible (RF 3D transmitter and glasses are optional accessories)
- Optional Wireless HDMI emitter/ receiver kit available

Reality Creation –
Super Resolution function



Built-in IR 3D

High Brightness of 1,700 lumens



SXRD



VPL-HW40ES

Come home to better looking movies –an outstanding cinematic experience.

The VPL-HW40ES is a fantastic option for movie lovers who want high-impact home cinema experience at great value. It's packed with our professional technology, including advanced SXRD panels and Reality Creation for an incredibly sharp, crystal clear picture, and with 1700 lumens colour brightness, you'll see your favourite films at their best, in 3D or 2D.

Key Features:

- Cinema-quality advanced SXRD panels
- High brightness: 1700 ANSI lumens
- Bright Cinema and Bright TV modes
- Contrast Enhancer function.
- Reality Creation
- Motionflow: minimises blur in fast-moving scenes
- Built-in IR 3D transmitter
- Wide lens shift for flexible installation
- Extremely low fan noise: 21db
- Optional Wireless HDMI emitter/ receiver kit available



SXRD





Sony Home Cinema projectors incorporate state-of-the-art technology to ensure the highest image quality and performance.

technical glossary

4K resolution

4K

4K is fast becoming the standard resolution for the professional cinema market. It delivers 4096 x 2160 images, more than four times the resolution of Full HD. We used our professional cinema expertise to develop 4K SXRD panels for the VPL-VW1100ES and VPL-VW500ES. They produce a 4K native picture with no artificial pixel enhancement.

Reality Creation

Our exclusive Super Resolution upscaler, Reality Creation, dramatically enhances high definition content, allowing viewers to get the most from their existing Blu-ray Disc™ libraries. It reproduces colour and textures lost when the original content is packaged to disc.



TRILUMINOS Display

The VPL-VW1100ES and VPL-VW500ES use our unique TRILUMINOS technology to produce a much broader colour range, reproducing more tones and textures than a standard projector system. The result is greater purity, depth and realism.

Motionflow and New Motionflow

For fast-moving scenes, the VPL-VW1100ES, VPL-HW55ES and VPL-HW40ES use our Motionflow technology, displaying twice as many images and transitions per second as Full HD for minimal blur. The VPL-VW500ES uses New Motionflow, with 'Combination' mode creating additional dark frames to reduce blur for more natural motion, while 'True Cinema' mode retains additional combined dark and artificial images to each frame.

Noise Reduction

All models have the "Noise Reduction" function to reduce the roughness, or noise of the picture.

Menu Position Change

It is possible to change the menu position display for easier picture adjustment.

Crisp Focus Lens (ARC-F)

A specially developed crisp focus lens takes full advantage of 4K or Full HD resolution to deliver superior resolution and focus.

Anamorphic Zoom Mode

The anamorphic zoom mode allows the projectors to 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.

SXRD home cinema projectors specifications



PrimeSupport

- 3 year projector and 1 year lamp warranty/1000 hour PrimeSupport cover - from the product purchase date.
- Specialist telephone support – an exclusive multi-lingual telephone helpline staffed by technical experts with detailed understanding of projector products.
- Collect-and-deliver repair service – if your problem cannot be resolved via the helpline, we'll activate our no-hassle collect-and-deliver repair service. All financial costs are covered – parts, labour and logistics to and from our state-of-the-art European repair centres.
- PrimeSupport will be provided through the Sony accredited partner.

With VPL home projectors, PrimeSupport also includes:

Sony. The clear choice for Home Cinema.



		VPL-HW40ES/B - VPL-HW40ES/W	VPL-HW55ES/B - VPL-HW55ES/W	VPL-VW500ES	VPL-VW1100ES
Display system		High Frame Rate SXRD panel	High Frame Rate SXRD panel	High Frame Rate SXRD panel	High Frame Rate SXRD panel
Light Output		1,700 lm	1,700 lm	1,700 lm	2,000 lm
Contrast ratio		-	120,000:1 (Dynamic Contrast)	200,000:1 (Dynamic Contrast)	1,000,000:1 (Dynamic Contrast)
Display elements	Effective display size	0.61" x 3	0.61" x 3	0.74" x 3	0.74" x 3
	Effective pixels	Full HD (1920 x 1080) x3 / 6,220,800 pixels	Full HD (1920 x 1080) x3 / 6,220,800 pixels	4K (4096 x 2160) x3 / 26,542,080 pixels	4K (4096 x 2160) x3 / 26,542,080 pixels
Projection lens	Zoom / Focus	Manual (Approx. 1.6 x) / Manual	Manual (Approx. 1.6 x) / Manual	Electric (Approx. 2.06 x) / Electric	Electric (Approx. 2.06 x) / Electric
	Lens shift	Manual, V: +/-71% / H: +/-25%	Manual, V: +/-71% / H: +/-25%	Electric, V: +85% / -80% H: +/-31%	Electric, V: +/-80% / H: +/-31%
Light source		Ultra High-pressure lamp 200W type	Ultra High-pressure lamp 200W type	Ultra High-pressure lamp 265W type	Ultra High-pressure lamp 330W type
Screen size		40" to 300"	40" to 300"	60" to 300"	60" to 300"
Reality Creation		YES (FullHD Reality Creation)	YES (FullHD Reality Creation)	YES (4K Reality Creation)	YES (4K Reality Creation)
Compatible with "Mastered in 4K" Blu-ray™		No	No	YES	YES
4K 60P(YUV420/8bit)		No	No	YES	YES
3D capability		YES	YES	YES	YES
3D emitter		Built-in IR emitter (Compatible with RF external emitter)	Built-in IR emitter (Compatible with RF external emitter)	Built-in RF emitter	Built-in IR emitter (Compatible with RF external emitter)
3D glasses		TDG-PJ1 (IR type: Bundled) / TDG-BT500A (RF type: Optional)	TDG-PJ1 (IR type: Bundled) / TDG-BT500A (RF type: Optional)	TDG-BT500A (Optional)	TDG-PJ1 (IR type: Bundled) / TDG-BT500A (RF type: Optional)
Auto Calibration		No	No	YES	No
Manual Calibration		RCP ver 2.0 (1 mode)	RCP ver 2.0 (3 modes)	HSV Colour Correction	No
Picture Position Memory		No	No	YES	YES
Wireless HDMI compatibility		IFU-WH1 (Optional)	IFU-WH1 (Optional)	IFU-WH1 (Optional)	IFU-WH1 (Optional)
Advanced Iris		-	Ver 3	Ver 3	Ver 3
Picture modes		5 modes	9 modes	9 modes	9 modes
Gamma modes		7 modes	11 modes	11 modes	11 modes
Panel alignment		Yes (Shift / Zone)	Yes (Shift / Zone)	Yes (Shift / Zone)	Yes (Shift / Zone)
Acoustic noise		21 dB	21 dB	26 dB	22 dB
Power requirement		AC 100 V to 240 V, 3.0 A to 1.3 A, 50/60 Hz	AC 100 V to 240 V, 3.0 A to 1.3 A, 50/60 Hz	AC 100 V to 240 V, 3.0 A to 1.3 A, 50/60 Hz	AC 100 V to 240 V, 3.0 A to 1.3 A, 50/60 Hz
Power consumption		Max. 300 W	Max. 300 W	Max. 370 W	Max. 480 W
Body colour		Black / White	Black / White	Black	Black
Standard outside dimensions		W 407.4 x H 179.2 x D 463.9 mm	W 407.4 x H 179.2 x D 463.9 mm	W 495.6 x H 195.3 x D 463.6 mm	W 520 x H 200 x D 640 mm
Weight		Approx. 9.6 kg	Approx. 9.6 kg	Approx. 14 kg	Approx. 20 kg

Full technical information is available at
www.pro.sony.eu/homecinemaprojectors

'Sony', '24p True Cinema', 'Advanced Iris3', 'Deep Colour', 'Digital Reality Creation', 'Handycam', 'Motionflow Dark Frame Insertion', 'SXRD', 'VAIO' and 'x.v.Colour' are trademarks of Sony Corporation, Japan. PLAYSTATION 3 is a registered trademark of Sony Computer Entertainment, Inc. Blu-ray Disc and the Blu-ray Disc logo are trademarks of the Blu-ray Disc Association. Full HD logo is a trademark. 1080p logos are trademarks of EICTA. HDMI, the HDMI logo and High Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC (in the United States and other countries). All other trademarks are acknowledged. Whilst the information given here is true at the point of printing, small production changes in the course of the Company's policy of improvement through research and design might not necessarily be indicated in the specification. Errors and omissions are excepted. © 2014, unless otherwise indicated by Sony United Kingdom Limited. No part of this publication may be reproduced without the permission of the publishers.

SONY

4K_SXRD_Brochure_2014_UK_V1_Mar_2014