

SONY



Corporate and Education solutions range guide

October 2019

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SONY

The Sony Solution

When it comes to professional AV technology, Sony provides much more than just great products. We create solutions that make visual communications and knowledge sharing even smarter and more efficient.

We empower organisations of every industry, sector and size with advanced audio-visual tools that help them go further. From schools to universities, small business to big business, retail to automotive and more, we have the perfect solution.


Our comprehensive suite of TEOS solutions intelligently manage all of your connected devices, while our powerful collaboration tools enable real-time knowledge sharing. Discover new levels of detail with our class-leading BRAVIA Professional Displays, and take your presentations further with our bright, captivating range of Projectors.

Support is at the heart of everything we do. With our PrimeSupport packages, you'll always get the best service for your business. With specialist advice and a host of support features included as standard, we've got you covered.

For full product features and specifications please visit **[pro.sony](https://www.pro.sony)**





For more on PrimeSupport visit pro.sony/support-services/primesupport 



You've got our support

Your business can't afford unscheduled interruptions. Our PrimeSupport packages plus optional extras make sure you're covered with the perfect level of support.



PrimeSupport Pro

Our initial **PrimeSupportPro** packages go beyond a standard warranty with access to expert technical assistance. Our multilingual helpdesk can answer everyday questions on setting up and using your product by phone or email. And if you do need repairs, we'll organise things quickly and efficiently, with free shipping and no hidden costs.



PrimeSupport Elite

If you're looking for even more peace of mind, upgrading to **PrimeSupportElite** could be the option for your business. We'll keep you up and running with our fast-track repair service that includes all shipping costs. And – depending on your product – we may offer to loan a replacement unit* while yours is being repaired. For certain models, we now offer an Advanced Replacement extension where we will ship out a replacement model within 48 hours.



PrimeSupport On-Demand

Everybody's business is different. A selected number of our products are also eligible for **PrimeSupportBespoke**, and **PrimeSupportOn-Demand**, tailored solutions for organisations with the most demanding requirements for service and support. With options like next working day spares and on-site technical assistance, there's no better choice when dependable performance of your AV communications infrastructure is most crucial.



PrimeSupport Bespoke

Have you registered for Prime Support?

Instantly protect your Sony professional product with PrimeSupportPro and get extended cover, telephone helpdesk support and notification of firmware updates, absolutely FREE.

Activate your PrimeSupportPro cover now pro.sony/productregistration



Find your local telephone number to contact our technical support team on our website pro.sony/support-services/primesupport, or e-mail primesupport@sony.com

Monday - Friday 09:00 – 18:00 (Central European Time), excluding local national holidays. Support is available in English, French, Italian, German & Spanish and is free for most European countries.

† Specific product cover may vary. Please visit pro.sony/support-services/primesupport for full details.

TEOS Workplace Solutions

Making spaces perform

In today's business, time may be our most precious resource. Whether we're reacting to the latest market shift or sharing a big idea with a client, every second counts. Any moment wasted in the working day has an impact on our job satisfaction – and on the bottom line.

We put everything into our work. But between the emails, the meetings, the trips and the to-do lists, we've lost something. We've lost the ability to move freely through the working day. To focus when the pressure's on. To step back and enjoy our achievements when it's off.

All too often, it's our work space that limits us. Inaccurate booking systems. Cluttered cables. Confusing signage. It's not ideas that hold us back, it's physical spaces and connections.

At Sony, we've made it our mission to change that. We believe work spaces should perform for us – and demand nothing from us. Because when our work space performs, we have time to think. **To create. To connect. To reflect.**

To get the best out of our space, we need technology that balances control with flexibility. That makes it as easy to book a room as it is to share a presentation within it. That offers creative ways to inform and inspire employees and visitors alike. That's seamless, intuitive and robust.

That's why we designed the TEOS family of intelligent workspace solutions. To unlock productivity, creativity, communication and collaboration.

Our commitment goes beyond technology. We understand and drive the broader workplace transformation agenda.

When technology fits easily into our work spaces, the working day is smooth and stress-free. Flexible, functional spaces make people proud to come to work in the morning. And when people are confident in their environment, they perform.

It's simple. If we want people to make the most of their time at work, we have to make sure they can get the most out of their working environment. This belief is at the heart of everything TEOS does.



TEOS

TEOS Solutions Overview

TEOS Manage

Advanced workplace management software to control devices, signage and content.



TEOS Connect

Mirror content wirelessly from your device to large displays.



TEOS Signage

Create colorful, eye-catching, and touch-interactive digital signage and distribute it across networked screens.



TEOS Book

A complete room booking solution to save time, avoid double bookings and optimize the use of meeting spaces.



TEOS Mobile

A mobile application to manage meetings from anywhere. Combines not only room booking, but also room control, and mirroring, with no need to be on company network.



TEOS Reception

Offer an efficient, professional welcome to every guest while they check-in to automatically notify their host by email or text.



TEOS Room Control

Control connected meeting room devices from a customizable interface that integrates with professional grade tablets.



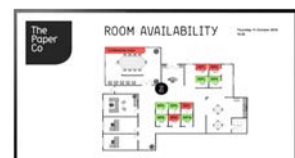
TEOS Survey

Get feedback from employees and guests with a completely customizable survey solution. View live survey results in TEOS Manage.



TEOS Wayfinding

Locate your meeting room, and navigate the workplace easily. See which rooms are available and which are booked.



TEOS Manage

Advanced workplace management software

Make your working environment smarter and more productive with TEOS Manage – the workplace management platform from Sony. The platform gives AV, IT, facilities and communications managers full control over devices, signage and content across the whole workplace ecosystem, from meeting rooms to reception areas. And, as your needs evolve, you can add further solutions with ease, including TEOS Book, TEOS Reception or TEOS Mobile.

The result is simple yet systematic working, tighter team collaboration and intuitive management tools for all your facility and resource needs.

KEY FEATURES

TEOS Manage gives organisations the power to transform their workplace so that device management is streamlined, usage of space is optimised, energy costs are reduced, communication is targeted, and worker productivity is amplified. **It's the most dynamic workplace management solution.**

Full control of devices

- Sleek interface design for an intuitive user experience
- Control networked devices with the universal remote, and push advanced setting configurations with one click
- View live device status and live signage content
- Group devices by location – building, floor, or site – for easy management
- Update firmware and Android applications remotely

Schedule devices and content playout

- Schedule on and off times for each device
- Green management - save energy when devices not in use
- Schedule when to push signage content to devices
- Ensure that the right content is displayed on the right screen, at the right time

A total view on workplace data

- Data from devices and spaces collected
- Advanced analytics presented in dashboard-style interface
- Filter data by timeframe or site
- Use insights to drive smarter decision making
- Secure and compliant with privacy regulations

Rapidly pinpoint issues and send emergency alarms

- Receive alerts when a device is not working correctly
- Proactively fix issues in advance
- Push urgent alarm notifications to connected devices – such as fire emergency directions

Scalable and cost effective

- Cloud or on-site local deployment
- Scalable licensing scheme for solutions
- Wide device compatibility – including Sony, LG, Samsung and Philips display screens, PJLink projectors, tablets Other 3rd party brands upon request
- Simple installation and maintenance with remote configuration capabilities

For full product specifications and features please visit pro.sony/TEOS

TEOS Manage Specifications

Technical Requirements	On premise / Cloud	Yes / Yes
	On premise (min requirements)	Min Windows Server 2012R2 / 16GB
Users	Number of users	No limitation
	Database compatibility	Active Directory
	Rights Management	Complete access customization, per size, device and content
	Active Directory Compatibility	Yes
Facility Management	Number of sites/rooms/spaces	No limitation
	Advanced analytics	Yes
	Alerts	Yes
Device Management	Remote Control & Monitoring	Yes (IP Control)
	Remote Scheduling	Yes
	Remote Firmware Update	Yes*
	Remote Android Applications Installation/Update	Yes*
	Sony devices compatibility	Professional BRAVIA, projectors, tablets**
	Other displays compatibility	Yes (Samsung SSSP2 or higher, LG (SNMP), Philips (IP control), NEC, CTOUCH)***
	Projectors compatibility	Yes (Plink IP protocol: Epson, NEC, Panasonic, Optoma, etc.)***
	Other devices compatibility	Yes (Printers, Barco Clickshare, etc.)***
Reception	Visitor Sign In Solution	Yes (TEOS Reception)
	Notifications	Yes (SMS and e-mail)
	Badge printing	Yes****
	Analytics	Yes
Meeting room	Room Booking Solution	Yes (TEOS Book)
	Room Control Solution	Yes (TEOS Room Control)
	Wireless Mirroring Solution	Yes (TEOS Connect)
	Calendar compatibility	Yes (Google Calendar, Microsoft Exchange, Office 365, TEOS Calendar, Scientia, Celcat)
	Mobile compatibility	Yes (iOS, Android)
	RFID/NFC Badges compatibility	Yes
	Customizable background	Yes
Signage	Lockable secured interface	Yes
	Signage Solution	Yes (TEOS Signage)
	Survey Solution	Yes (TEOS Survey)
	Content creation	Yes (Simple and Advanced)
	Content scheduling	Yes****
	Main functions	Template design, Facebook, Instagram, Twitter, YouTube, websites, interactive content, PowerPoint, streaming, weather reports, RSS feeds, and many more.
	Live Screenshots / Proof of play	Yes / Yes
	Emergency alarms	Yes
	External data integration	Yes
	Basic signage via email	Yes
Interactivity/Touch compatibility	Yes	
Licences	TEM-SRV250	TEOS Manage software
	TEM-CO10	License for Simple Control use (1 per device required)
	TEM-MR10	License for Meeting Room use (1 per device required)
	TEM-TA10	License for tablet use (1 per device required)
	TEM-DS10	License for Signage use (1 per device required)
	TEM-UL10	License for Mobile Room Booking (floating license per user)
Warranty	Standard warranty	1 year for support and new features firmwares
	Extensions (one per device required)	PSP.TEM100.1X, 1 additional year
		PSP.TEM100.2X, 2 additional years
		PSP.TEM100.4X, 4 additional years

*Sony Android devices only **Tablets for TEOS: TEB-7DSQPM, TEB-10DSQPL, TEB-10SLb, TEB-15DSKP, TEB-22D ***Contact your Sony representative for exact list of compatible devices
 ****List of compatible printers available on demand **** TEP-TX5 required for non-Sony Android devices





Collaboration Solutions

Vision Exchange

Enhance teaching, learning and business communications with these intuitive, cost effective solutions for real-time knowledge sharing and more focused collaboration.

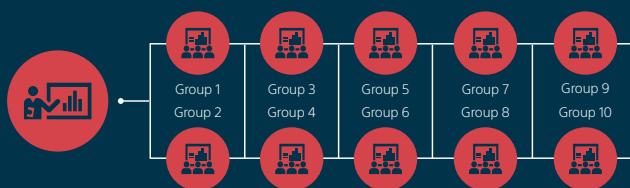
Active learning

Inspire and engage with our interactive workgroup-based active learning solution for universities, colleges and corporate meeting rooms.

Share and engage

Let users share multimedia presentation content, bringing in other participants at remote locations to join the discussion as needed.

Connect 10 workgroups with up-to 6 contributors per group



Interactive Lecture

Vision Exchange can be used as an interactive lecture tool, right up to a full scale active learning solution. Give students the opportunity of greater engagement and participation in learning to improve their results. Coupled with the ability to provide an exciting learning environment this will enhance your reputation amongst the global student body. Students can fully engage with lectures, participating in a two way learning experience on their own devices. Increased engagement means improved results.

For full product specifications and features please visit pro.sony/presentation-tools

The dynamic, collaborative Active Learning Solution

Vision Exchange is the uniquely powerful and intuitive active learning solution that brings together students, lecturers and presenters. Ideal for knowledge sharing and brainstorming ideas, this immersive environment boosts audience engagement by directly involving everyone in the learning process. Cost-effective, flexible and easy to configure, Vision Exchange is ideal for universities and colleges.

Easily share knowledge and ideas

Vision Exchange lets presenters and lecturers easily share information, with the freedom to move around the teaching space in a truly active learning environment. Information can be shared from teacher to student, student to teacher, or through active collaboration with workgroup sharing. Connect up to 10 workgroups with up to 6 contributors per group.

Collaboration with any device

Vision Exchange is created for today's BYOD (Bring Your Own Device) classrooms and lecture theatres. Students can work collaboratively in small independent workgroups or clusters, creating content with their own tablets, laptops and smartphones to share wirelessly with other group members, workgroups and lecturers.

Annotation and whiteboard tools

Lecturers can enhance their presentations with easy-to-use annotation tools: draw and sketch to emphasise what's on screen, or bring up the whiteboard with handy digital tags.

Easy video collaboration

Video collaboration is possible with native support using Skype for Business, with overlaid annotations or whiteboard images for even more effective communication.

Lecture capture and recording ready

Every system installed is 'recording ready' making the deployment of lecture capture to every teaching space flexible and simple, without the need for dedicated local room recording hardware.

Active learning (optional license)

Adding an optional active learning license lets students 'mirror' their own devices and share content with other groups in the room or on the main presentation screen via simple drag-and-drop gestures under the lecturer's control.

Streaming output (optional license)

Stream content from the main view to a central server for lecture capture, recording or live distribution. Record directly to UbiCast MIRIS Netcapture.

Scalable and cost effective

Vision Exchange provides a dynamic and flexible solution to suit any teachingspace. It's easy and cost effective to expand Vision Exchange by adding further active workgroup 'pods'.



Active Learning class workflow



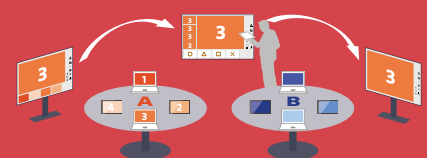
SHARE TO CLASS

- Easy sharing for teacher's materials (laptop/tablet images, documents, camera, HDMI inputs, etc.).
- Any image on the main view will be shown to all work group POD displays in full screen when "Pod share" button is pressed.



ACTIVE GROUP DISCUSSION

- Any student can easily mirror their BYOD content. Enhance discussion by simple switching, annotation/digital tag whiteboard mode.
- Teacher can monitor and select any group's information, then share to all other group screens.



PRESENT AND FEEDBACK

- Quickly drag & drop to share anyone's screen.
- Promptly reflect teacher or student/group comments with real-time annotation to feedback.

Collaboration solutions for corporate environments

Conference Rooms

Today's conference rooms often harbour a confusing tangle of cables, switchers, video conferencing systems and other hardware. Hard to set up and operate, they're a frequent cause of wasted time as presenters struggle with awkward wiring instead of focusing on the meeting itself.

Vision Exchange streamlines conference room communications, allowing every participant to concentrate on business with fewer distractions and less stress.

Room occupants can share content from their own laptops, tablets and smartphones, with participants overlaying real-time 'whiteboard' annotations to images presented from their personal devices. Vision Exchange also extends collaboration globally, allowing rich interactive communication with colleagues at remote locations.



Interactive Collaboration Solution

PEQ-C100	Main unit with HDMI x2 input, including 1st year hardware and software update program
PEQ-C130	Main unit with HDMI x4 input, including 1st year hardware and software update program
PES-C10 ¹	Pod PC software, including 1st year software update program
PEQA-C10	Optional Active Learning software for PEQ-C100/130
PEQA-C30	Optional H.264 IP Streaming software for PEQ-C100/130 & PES-C10

Hardware and Software Support

PSP.PEQC100.E1X	Additional 1 year Hardware support for PEQ-C100 main unit
PSP.PEQC130.E1X	Additional 1 year Hardware support for PEQ-C130 main unit
PEQ-C1SU	Additional 1 year Software Update Program support for PEQ-C100 and PEQ-C130
PES-C1SU	Additional 1 year Software Update Program support for PES-C10

*1 Customer is required to locally provide physical mini 'Pod' PC to specifications provided by Sony.

Features	Vision Exchange PEQ-C100 Main Unit	Vision Exchange PEQ-C130 Main Unit	Vision Exchange PES-C10 POD
Interactive Lecture System	Yes		
Main Unit for Active Group Learning System	Yes		No
Active Group Learning	Yes		Yes
Connected Displays	2		1
BYOD Mirror Connections	6 plus # POD views		6
Device Bandwidth Control	Yes		
HDMI Input	2	4	Yes ³
Whiteboard, Annotation, Snapshot	Yes		
Multi Group Sharing	Yes		No
Multi User Control	Yes		
Skype 4 Business ²	Yes		
Active Learning Option	Yes		
H264 IP Streaming Option	Yes		

*2 Customer is required to locally provide and install Microsoft Office Skype for Business licensed software.

*3 Customer is required to locally provide and purchase HDMI-USB convertor and adaptor unit.

Training Programme

TRN.EDU.P.1	1 day training covering user operation and administration operation
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See page 5 for further details

Products	Reference	Support	Duration
Vision Exchange Device	PS.PACK4.ADVEXCH.1		1 year
PEQ-C100	PSP.PEQC100.E1X	Hardware	1 year extension
PEQ-C130	PSP.PEQC130.E1X	Hardware	1 year extension

See page 5 for further details

Vision Exchange Hardware

Support for our Collaboration Solutions is available with **PrimeSupportOn-Demand**. One working day (**PSP.CE.INITDAY.1**), initial solution setup (**PSP.CE.TRAINDAY.1**), training delivery (**PSP.CE.ONSITEDAY.1**) or maintenance. We can also deliver resource to adapt the solutions to your requirements (**PSP.CE.CUSTOMDAY.1**) Scope of work must be agreed before intervention.

Vision Exchange Software Update Programme

Model	Code
PEQ-C100 & PEQ-C130 Annual Software Update Program Valid access to install new software versions as released including entitlement of new features, continued BYOD OS device support, vulnerability support and bug fixes.	PEQ-C1SU
PES-C10 Annual Software Update Program Valid access to install new software versions as released including entitlement of new features, continued BYOD OS device support, vulnerability support and bug fixes.	PES-C1SU

For full product specifications and features please visit pro.sony/presentation-tools



Sharing your knowledge has never been easier

UbiCast orchestrates every phase of producing and delivering rich video content - from recording and editing to publishing, managing and user analytics.

A WORLD OF APPLICATIONS

- **Lecture capture:** Digitise lectures and deliver them as searchable, engaging videos.
- **MOOC creation:** Easily create high quality interactive learning videos for Massive Open Online Course programmes.
- **Online training:** Create engaging, flexible video training modules for employees, customers and partners.
- **Webcasting:** Stream conferences and events to a global audience, live or on demand.

Sony Solutions



Miris Netcapture

Streaming lectures has never been so simple, and so cost effective. Have every lecture hall kitted out with the technology, but pay only for the number of licences you use at any one time. Gives students - anytime, anywhere - the opportunity to join or catch up, with access to learning, always.



No more room booking issues



Enable every classroom for BYOD at no additional cost



A scalable and cost-effective solution

MediaServer

Your reliable, smart video platform:

- Centralize the delivery of your videos.
- Index your existing content and find precise sequences with a powerful search engine.
- Encourage contribution with WebStudio and the most advanced social learning features.



Index & search



WebStudio: screen & webcam recorder



Cloud or on site deployment

A social experience for your learners

- Watch your videos in our interactive player.
- Adjust playback speed and image quality.
- Enhance your videos with attachments, comments or even external links associated to a moment of the video.
- Engage your audience with quizzes and surveys.



Social Learning



Polls & Quizzes



Time-based annotations



Dynamic Rich Media

With Dynamic Rich Media (DynRM) you are more than just a viewer, you can create the content you want to watch. Click on one of the video tiles to zoom in and focus on the area you are interested in. Up to 6 simultaneous sources can be synchronized.

Edge Analytics Appliance

Adding more intelligence to every presentation

The REA-C1000 Edge Analytics Appliance brings an exciting new dimension of audience engagement to lectures, MOOCs, government and corporate presentations.



Advanced built-in AI-based video technology analyses the input it receives from connected cameras and combines the camera feeds with image sources to create high-quality video content that can be displayed live or recorded. Acting as the smart hub of a connected AV setup, the compact and light-weight REA-C1000 allows educational institutes and corporate organisations to automatically generate compelling video content in real time. The REA-C1000 offers a range of powerful presentation features that are available via optional licenses.

Handwriting extraction & presenter overlay

The REA-C1000 intelligently extracts handwritten text and diagrams from black and white boards. This can be displayed as a real-time overlay that 'floats' in front of the presenter, allowing audiences to clearly see written content with enhanced colour and contrast as well as gestures and expressions of the presenter.

Chroma key-less CG overlay*

Based on advanced motion detection technology, this feature can extract the presenter's image, overlaying it onto any background image or movie without the need for a dedicated chromakey system or specialist operator.

PTZ auto tracking

The REA-C1000 can serve as a virtual camera operator, controlling a connected PTZ camera to track the current presenter smoothly, keeping them accurately framed and sharply focused as they move around or turn their back to the audience.

Focus area cropping*

Using this feature, an image from one camera can be simultaneously shown as two different output images. Connected to a 4K camera, the REA-C1000 can simultaneously output a wide-angle view in 4K resolution and a cropped view of the same presenter in FHD. The cropped image can also be selectable as static or dynamic.

Close-up by gesture

The REA-C1000 can react intelligently when an audience member stands up to speak, triggering the camera to zoom in and frame the new speaker.







TDM Digital Signage models:
TDM-DS1Y:
1 year
TDM-DS3Y:
3 years


TDM Digital Signage


Inspire customers with affordable, effective digital signage


Operate your screens from a centralised or decentralised location with the content you want – anytime and any place. You can now do it all with our new generation of digital signage software.


- 


Multiple screens and locations simultaneously
You can place content both centrally and decentrally on a single or even a cluster of screens from one operating system.
- 


Alerts
Possibility to send alerts centrally.
- 


RSS feeds
Keep up on all the latest news, weather forecasts, traffic reports and stock market information.
- 

Show images
Show your favourite images via a media library.
- 

Show websites
Ability to show websites.
- 

Interactive
Possibility to show specific content based on an action.
- 

Streaming video
YouTube, Vimeo, RTSP. It is even possible to show parts of videos.
- 

Social media
Feeds from e.g. Twitter, Facebook and LinkedIn.
- 

Live statistics
Based on emotion detection.

TDM Digital Signage is developed for **SONY**

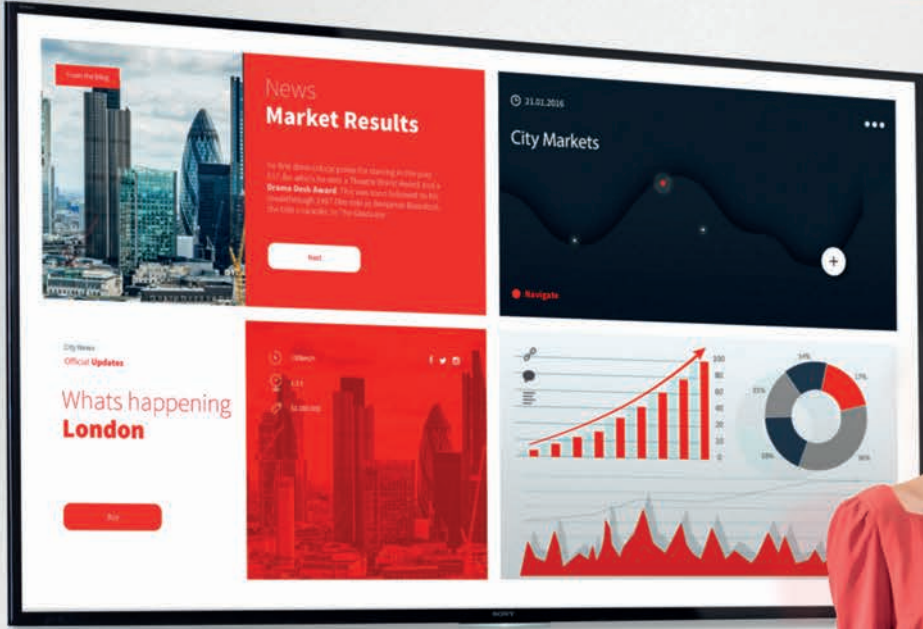
 PrimeSupport
Elite

See page 5 for
further details

 PrimeSupport
On-Demand

See page 5 for
further details

For full product specifications
and features please visit
pro.sony/professional-displays



Crystal LED

Display System

The ultimate big-screen display solution, delivering ultra-real visual experiences on virtually any scale.

Crystal LED Display System

- Spectacularly immersive high-contrast images with unprecedented depth and detail.
- Crystal clarity, with no image artefacts or picture noise.
- Exceptionally wide viewing angle, with no colour shift from any viewpoint.
- Seamless images on any scale, with no visible gaps or tiling lines between display modules.



A window to a new world

Crystal LED turns the world's biggest ideas into thrilling visual reality – from automotive and industrial product design, theme parks, museums and galleries to corporate lobbies, boardrooms, broadcast studios, retail and home.



Industrial Design

Redefining reality

Our ultimate display solution brings the world's biggest ideas to life in the world of industrial product design and manufacturing. Simulate every step of the design process with groundbreaking, borderless design. Multiple panels can be seamlessly tiled to create super-sized displays with any dimension or aspect ratio and no bezels or visible gaps.



High End Retail

Overwhelming visuals on any scale

With 10-bit colour depth, wide colour gamut (140% of sRGB) and a maximum rate of 120 frames per second, our Crystal LED display system offers astonishing pictures and superb contrast at more than 1,000,000:1. And with brightness of up to 1000 cd/m² (1000 nits), your customers will experience every fine detail.



Corporate Boardrooms

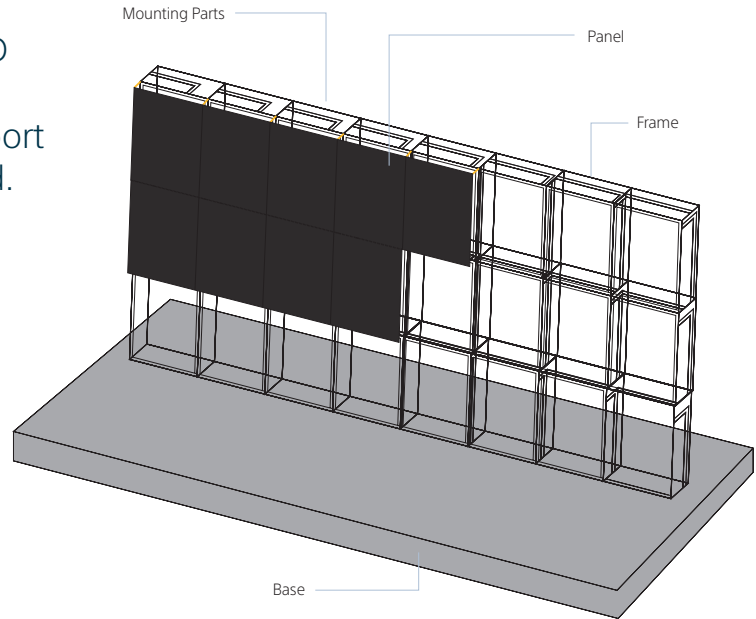
A stunning image at any angle
Our Crystal LED display system offers a viewing angle of virtually 180 degrees so that anyone, no matter where they are in the room, can see the full picture, even in dimly lit environments. And because moving images are blur-free with near-instant response and a maximum refresh rate of 120 fps, it's perfect for bringing video conferences to life.

Crystal-LED Display

Sony's dedicated team of Crystal-LED specialist engineers manage the full design, installation, service and support so you have complete peace of mind.

Crystal LED Display Base & Frame

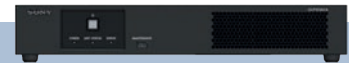
Multiple Crystal LED Display Units and controller are integrated with the customised base and frame to create a complete large-scale display solution. The highly rigid frame structure ensures excellent positioning accuracy and stability for each display module. The accompanying base unit is carefully installed, using digital levelling measurement to ensure absolutely precise alignment.



Crystal LED Display Unit - ZRD-2



Crystal LED Display Controller - ZRCT-200



Specifications	Crystal LED Display Unit - ZRD-2
Method	Self Light Emitting Display
Light emission device	Sony Original Developed Super Micro LED (RGB in 1pixel)
Pixel pitch	1.26mm
Black area	>99% (Ratio of display area except lighting point area)
Unit resolution (W x H)	320 x 360 (115,200pixels)
Unit size (mm/inch) (W x H x D)	403.2 x 453.6 x 100 / 15 7/8 x 17 7/8 x 4
Unit area (sqm/sqft)	0.18 / 1.97
Unit weight (kg/lb)	10.0 kg / 22 lb, 0.74 oz
Cell module resolution (W x H)	80 x 120 (9,600pixels)
Cell module size (mm/inch) (W x H)	100.8 x 151.2 / 3 31/32 x 5 15/16
Cell module configuration (W x H)	4 x 3 in 1 unit (12 Cell Modules in 1 unit)
Brightness (nit = cd/m2)	Maximum 1,000, Colour Temp D93
Contrast ratio	more than 1,000,000:1
Viewing angle	Almost 180° (H/V)
Display native Colour space	140% wider than sRGB
Input signal	10bit
Signal interface	1 in 1out (2x RJ45) (Unit-Controller or Unit-Unit)
Signal cable (Unit-Controller, Unit-Unit)	Cat.7 Ethernet Cable
Power In/Out	1 AC Inlet, 1 AC Outlet (AC Inlet: IEC C13, AC Outlet: IEC C14 x1)
Power requirements	AC200-240V, 50/60 Hz, Single Phase
Average power consumption (per Unit)	100W
Average power consumption (per sqm)	550W (approx.)
LED lifespan (half brightness)	87,600hour
Storage temperature	-20°C-60°C
Operation humidity	20-80% (No condensation)
Storage humidity	20-80% (No condensation)

Specifications	Crystal LED Display Controller - ZRCT-200
Maximum control number of display unit	72 (6unit/1port x 12port)
Maximum input resolution	W3840 x H2160
Maximum input frame rate	120p
Video input	HDMI (HDMI2.0a) x 2 *HDCP Compliant, DisplayPort (DP1.2) x 2
Unit output	RJ45 x 12
Maximum power consumption	90W
Controller size (mm) (W x D x H)	440 x 349 x 65 (without protrusions) 440 x 367.3 x 75 (incl. protrusions) *1.5U 19inch Rack
Controller size (inch) (W x H x D)	17 3/8 x 13 3/4 x 2 5/8 (without protrusions) 17 3/8 x 14 15/32 x 2 15/16 (incl. protrusions) *1.5U 19inch Rack
Storage temperature	-20°C-60°C
Operation humidity	20-80% (No condensation)
Storage humidity	20-80% (No condensation)

For full product specifications and features please visit pro.sony/crystal-led

PrimeSupport
Bespoke

See page 5 for further details



Projectors

From classrooms and offices to lecture halls and auditoriums, Sony projectors deliver outstanding quality, reliability and energy-efficiency in every kind of venue.

Installation projectors

Outstanding image quality

Our laser projectors are ideal for a wide range of high-end business, education or large-scale applications. The powerful Z-Phosphor laser light source is teamed with Sony's advanced 3LCD projection engine to deliver extremely bright, rich, and stable colours. For everyday applications and environments, our lamp projectors offer the same advanced 3LCD projection engine with cost-effective features that deliver the same high-quality performance.

Highlights - laser or lamp technology

- Powerful, WUXGA & WXGA resolution images.
- Models range from 4,000 to 12,000 colour and white light output.
- Easy, flexible installation.
- Energy-saving features.

Business and education projectors

From large venue to portable

For classrooms or meeting spaces, our portable and desktop projectors are lightweight, durable and easy-to-use, combining outstanding performance with cost-efficiency. Wireless connectivity enables presentation direct from your PC.

Highlights

- 3LCD BrightEra™ technology.
- Smart ECO features.
- Long lamp life.
- Options with XGA or WXGA resolution.
- Models range from 2,600 to 4,300 colour and white light output.



PrimeSupport
Pro

See page 5 for
further details



PrimeSupport
Elite

See page 5 for
further details



D-200



A compact and lightweight economical desktop projector for offices and classrooms, offering high performance, superior quality and ease of use.

High Image Quality

XGA and WXGA resolution, our new D-200 Series projectors feature new Vivid Mode for a much more brilliant, richer and stable colour experience.

Easy Connectivity

Two HDMI ports and a USB power supply port (5V 2A max) simplify connection with laptops plus other devices like 'stick' computers and smart dongles.

Auto On and Quick Off

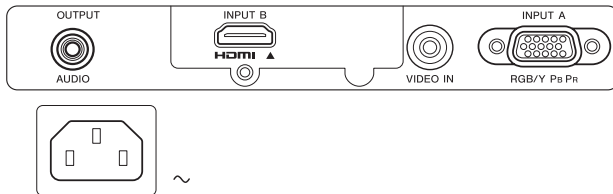
Connecting to a PC automatically turns the projector on and Quick Off feature makes the projectors extremely easy to use.

D-200

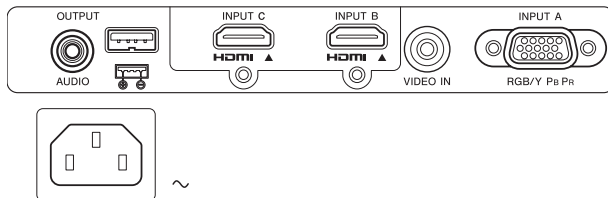


Connector Panel Information

Rear connector panel for VPL-DX221 projector



Rear connector panel for VPL-DX241, DX271 and DW241 projectors



D-200

Replacements



LMP-D214
Replacement projector lamp

Optional Accessories



PAM-210
Ceiling mount



PAM-0.5M
Extension pole & ceiling plate



PAM-1.0M
Extension pole & ceiling plate



PAM-1.5M
Extension pole & ceiling plate

Featuring



See page 5 for further details

Reference	Included Service PS.VPLB1.12X.L1		PS.VPL. DSERIES.1Y	PS.VPL. DSERIES.3Y	PS.LMP. DSERIES.2Y
Support	Projector	Lamp	Projector	Projector	Lamp
Duration	2 year swap service	1 year or 1000 h	+1 year (Total 3 years)	+3 years (Total 5 years)	+ 2 years or 2000 h (Total 3 years or 3000h)

For full product specifications and features please visit pro.sony/projectors-desktop

Specifications			VPL-DX221
Display system			3 LCD
Size of effective display area			0.63" (16mm) x 3, Aspect ratio: 4:3
Number of pixels			2,359,296 (1024x768 x 3) pixels
Projection lens	Manual Focus		Yes
	Zoom	Powered/Manual Ratio	Manual
	Throw Ratio		1.47-1.77
Light source			Ultra high pressure mercury lamp / 215 W type
Recommended lamp replacement time*3	Lamp mode:	High	3,000H (4,000H)
		Standard	5,000H (7,000H)
		Low	10,000H (10,000H)
Filter cleaning			1000 H
Screen size			30" to 300" (0.76 m to 7.62 m)
White & Colour Light output*1	Lamp mode:	High	2,800lm
		Standard	1,900lm
		Low	1,600lm
Contrast ratio (full white / full black)*2			4000:1
Speaker			1 W x 1 (monaural)
Displayable scanning frequency	Horizontal		19 kHz to 92 kHz
	Vertical		48 Hz to 92 Hz
Display resolution	Computer signal input		Maximum display resolution: UXGA 1600 x 1200 dots
	Video signal input		NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p
Colour System			NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N
Keystone correction (Max.)*4	Vertical	+/- 30 degrees	Yes
OSD language	23-languages		English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese (簡體), Korean, Russian, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Indonesian, Hungary, Greek, Czech, Slovak, Rumania
Operating Instructions languages (Note 1)			English, Germany, French, Italy, Spanish, Russian, Chinese, Japanese, Taiwanese
INPUT OUTPUT (Computer / Video /Control)	INPUT A		RGB / Y PB PR input connector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack
	INPUT B		HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
	INPUT C		HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
	VIDEO IN		Video input connector: Phono jack
	OUTPUT		Audio output connector: Stereo mini jack (Via USB Type A)
	POWER SUPPLY		5V 2A power supply
Acoustic noise*5	Lamp mode:	High	< 41dB
		Standard	< 38dB
		Low	< 35dB
Operating temperature / Operating humidity			0°C to 35°C (32°F to 95°F) / 20% to 80% (no condensation)
Storage temperature / Storage humidity			-10°C to +60°C (14°F to 140°F) / 20% to 80% (no condensation)
Power requirements			AC 100 - 240V, 2.9A to 1.1A, 50Hz/60Hz
Power consumption	AC 100 V to 120 V	High	293 W
		Standard	217 W
		Low	194 W
	AC 220 V to 240 V	High	269 W
		Standard	206 W
		Low	185 W
Power consumption (Standby Mode)	AC 100 V to 120 V		0.5 W
	AC 220 V to 240 V		0.5 W
Power consumption (On Mode)	AC 100 V to 120 V		279W
Heat dissipation	AC 100 V to 120 V		998 BTU/h
	AC 220 V to 240 V		938 BTU/h
Body Colour			White (Bottom : Gray)
Dimensions (W x H x D)			325.1 x 90.0x 233.2 mm
Dimensions (W x H x D) (without protrusions)			325.1 x 79.8 x 230.5 mm
Mass			Approx. 2.7kg (5.9 lb)
Battery for the remote	Category		Lithium Battery
	Type		CR2025
Supplied accessories			Remote commander RM-PJ8 (1), Battery CR2025 (1), HD15pin Cable (1.8m) (1), AC power cord (1), Lens Cap (1), Carrying Case (1), Operating Instructions (CD-ROM) (1), Operating Instructions (Paper) (1), Quick Reference Manual (1), Safety Regulation (1), Warranty card (1),

*1 The values are estimated.

*2 This value is average with lamp dimming.

*3 The figures are approximate. They vary depending on the environment or how the projector is used.

*4 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

*5 The figures are approximate. They vary depending on the environment or how the projector is used.

E-400 Series



Ideal for education applications, these compact, energy efficient portable projectors offer excellent image quality plus affordable running costs.

Bright, high contrast images

Fill classrooms and meeting rooms with bright, detail-packed images. High 20,000:1 contrast ratio ensures crisp, images and text that stand out in any environment.

Wider connectivity options

Project from a networked computer, or present wirelessly from laptops, tablets and smartphones. Dual HDMI ports for standard and latest wireless adaptors and direct USB display connection.

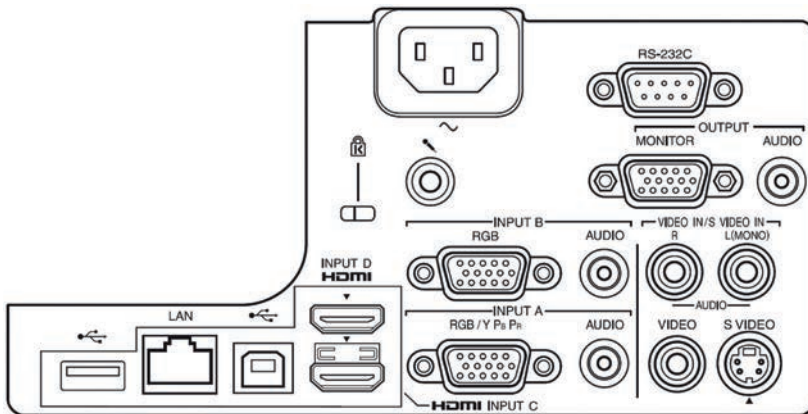
Affordable ownership costs

Smart energy-saving features plus up to 10,000 hours lamp replacement intervals contribute to low ownership costs and reduced maintenance.

E-400 Series

Connector Panel Information

Rear connector panel for the VPL-EX435, VPL-EX455, VPL-EW435 and VPL-EW455 projectors



E-400 Series

Replacements



LMP-E221
Replacement projector lamp

Optional Accessories



IFU-WLM3
USB wireless module



PAM-210
Ceiling mount



PAM-0.5M
Extension pole & ceiling plate



PAM-1.0M
Extension pole & ceiling plate



PAM-1.5M
Extension pole & ceiling plate

Featuring



PrimeSupport
Pro

See page 5 for further details

Reference	Included Service PS.VPLB3.123.L3		PS.VPL. SESERIES.2Y	PS.VPL. SESERIES.3YL	PS.VPL. SESERIES.5YL
Support	Projector	Lamp	Projector	Projector	Projector
Duration	3 years	3 years or 3000 h	+2 years (Total 5 years)	3 years repair & loan	+2 years repair extension & 5 years loan product



BrightEra
Long Lasting Optics

For full product specifications
and features please visit
pro.sony/projectors-desktop

Specifications			VPL-EX435	VPL-EX455	VPL-EW435	VPL-EW455
Display system	3 LCD		•	•	•	•
Size of effective display area	0.59" (15mm) x 3 BrightEra LCD Panel Aspect ratio 16:10				•	•
	0.63" (16 mm) x 3 BrightEra LCD Panel Aspect ratio 4:3		•	•		
Number of pixels			2,359,296 (1024x768 x 3) pixels	2,359,296 (1024x768 x 3) pixels	3,072,000 (1280x800 x 3) pixels	3,072,000 (1280x800 x 3) pixels
Projection lens	Manual Focus		•	•	•	•
	Throw Ratio		1.47:1 to 1.77:1	1.47:1 to 1.77:1	1.47:1 to 1.77:1	1.37:1 to 1.80:1
Light source	Ultra high pressure mercury lamp 225W type					
Recommended lamp replacement time*1	Lamp mode:	High	4,000 H			
		Standard	6,000 H			
		Low	10,000 H			
Filter cleaning*1	10,000 H					
Screen size	30" to 300" (0.76 m to 7.62 m)					
White & Colour Light output*2	Lamp mode:	High	3200 lm	3600 lm	3100 lm	3500 lm
		Standard	2300 lm	2500 lm	2200 lm	2500 lm
		Low	1800 lm	1900 lm	1900 lm	2100 lm
Contrast ratio (full white / full black)*3	20000:1					
Speaker	16W (monaural)					
Displayable scanning frequency	Horizontal		15khz to 92khz			
	Vertical		48 Hz to 92 Hz			
Display resolution	Computer signal input		Maximum display resolution: 1600 x 1200 dots, fv:60Hz			
	Video signal input		NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p			
Colour System	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PALN, PAL60					
Keystone correction (Max.)*4	Vertical		+/-30 degrees	+/-30 degrees	+/-20 degrees	+/-20 degrees
OSD language	27-languages	English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungarian, Greek, Czech, Slovakia, Romania				
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15 pin female/ Audio input connector: Stereo mini jack				
	INPUT B	RGB input connector: Mini Dsub 15 pin female/Audio input connector: Stereo mini jack				
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support/Audio input connector: HDMI audio support				
	INPUT D	HDMI input connector: HDMI 19-pin, HDCP support/Audio input connector: HDMI audio support				
	S VIDEO IN	S Video input connector: Mini DIN 4-pin				
	VIDEO IN	Video input connector: Phono jack				
	OUTPUT	MONITOR output connector: Mini D-sub 15 pin female/Audio output connector: Stereo mini				
	Y PB/CB PR/CR	Component: Mini D-sub 15 pin female				
	REMOTE	D-sub 9-pin male/RS232C				
	LAN	RJ-45, 10BASE-T/100BASE-TX				
	USB	Type-A & Type-B				
MICROPHONE IN	Mini Jack					
Acoustic noise*5	Lamp mode:	Low	29dB			
Operating temperature / Operating humidity	0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)					
Storage temperature / Storage humidity	-10°C to +60°C / 14°F to +140°F (20% to 80%; no condensation)					
Power requirements	AC 100 V to 240 V, 3.4 A to 1.5 A, 50 Hz / 60 Hz					•
	AC 100 V to 240 V, 3.2A to 1.4 A, 50 Hz / 60 Hz				•	
	AC 100 V to 240 V, 3.4 A to 1.5 A, 50 Hz / 60 Hz		•	•		
Power consumption	AC 100 V to 120 V	High	333 W	333 W	318 W	332 W
		Standard	270 W	270 W	260 W	270 W
		Low	233 W	233 W	232 W	233 W
	AC 220 V to 240 V	High	320 W	320 W	306 W	319 W
		Standard	260 W	260 W	252 W	261 W
		Low	25 W	25 W	226 W	225 W
Power consumption (when "Standby mode" is set to "Low")	AC 100 V to 120 V		0.5 W			
	AC 220 V to 240 V		0.5 W			
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V	5.5W (LAN) / 6.0W (optional WLAN module) / 6.2W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")				
	AC 220 V to 240 V	5.8W (LAN) / 6.3W (optional WLAN module) / 6.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")				
Standby Mode / Networked Standby Mode Activated	Approx. 10 Minutes					
Wireless Network(s) On/Off Switch	Press the MENU button, then select [Connection/Power] > [WLAN Settings] > [WLAN Connection] > Select On or Off					
Heat dissipation	AC 100 V to 120 V		1136 BTU	1136 BTU	1085 BTU	1133 BTU
	AC 220 V to 240 V		1092 BTU	1092 BTU	1044 BTU	1088 BTU
Dimensions (W x H x D) (without protrusions)	Approx. 365 x 96.2 x 252 mm (14 3/8 X3 25/32 X9 29/32 ")					
Mass	Approx. 3.9kg (8.6 lb)					
Supplied accessories	RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), Operating Instructions (CDROM) (1), Quick Reference Manual (1) Lens cap (1)					
Optional Accessories	LMP-E221, IFU-WLM3 (WLAN module)					

*1 This figure is expected maintenance time, not guaranteed time.
The actual value depends on the environment and how the projector is used.
*2 The values are estimate.
*3 The value is average.

*4 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.
*5 The figures are approximate. They vary depending on the environment or how the projector is used.

E-500 Series



These portable projectors fill larger rooms with bright, high-impact images. Smart features make the most of today's integrated AV/IT environments.

High brightness, high contrast images

Fill larger classrooms and meeting rooms with powerful output up to 4300 lumen brightness. High 20,000:1 contrast ratio ensures crisp, images and text.

Wider connectivity options

Project from a networked computer, or present wirelessly from laptops, tablets and smartphones. Dual HDMI ports for standard and latest wireless adaptors and direct USB display connection.

Affordable ownership costs

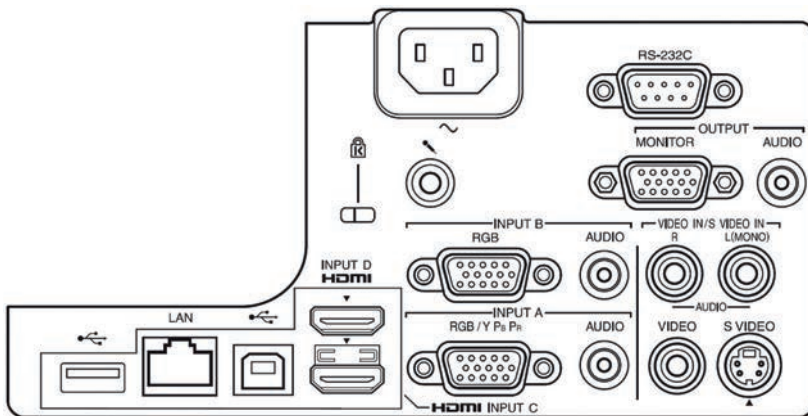
Smart energy-saving features like Auto Mode and Lamp Dimming, plus up to 10,000 hours lamp replacement intervals contribute to low ownership costs and reduced maintenance.

E-500 Series



Connector Panel Information

Rear connector panel for the VPL-EX575, VPL-EW575, and VPL-EW578 projectors



E-500 Series

Replacements



LMP-E221
Replacement projector lamp

Optional Accessories



IFU-WLM3
USB wireless module



PAM-210
Ceiling mount



PAM-0.5M
Extension poles & ceiling plate



PAM-1.0M
Extension poles & ceiling plate



PAM-1.5M
Extension poles & ceiling plate

Featuring



PrimeSupport
Pro

See page 5 for further details

Reference	Included Service PS.VPLB3.123.L3		PS.VPL. SESERIES.2Y	PS.VPL. SESERIES.3Y	PS.VPL. SESERIES.5Y
Support	Projector	Lamp	Projector	Projector	Projector
Duration	3 years	3 years or 3000 h	+2 years (Total 5 years)	3 years repair & loan	+2 years repair extension & 5 years loan product



BrightEra
Long Lasting Optics

For full product specifications
and features please visit
pro.sony/projectors-desktop

Specifications			VPL-EX575	VPL-EW575
Display system	3 LCD		•	•
Size of effective display area	0.75" (19mm) x 3 BrightEra LCD Panel Aspect ratio 16:10			•
	0.63" (16 mm) x 3 BrightEra LCD Panel, Aspect ratio: 4:3		•	
Number of pixels	3,072,000 (1280x800 x 3) pixels			•
	2,359,296 (1024x768 x 3) pixels		•	
Projection lens	Manual Focus		•	•
	Throw Ratio		1.40:1 to 2.27:1	
Light source	Ultra high pressure mercury lamp 225W type			
Recommended lamp replacement time*1	Lamp mode:	High	4,000 H	
		Standard	6,000 H	
		Low	10,000 H	
Filter cleaning / replacement cycle (Max.)*1	10,000 H			
Screen size	30" to 300" (0.76 m to 7.62 m)			
White & Colour Light output*2	Lamp mode:	High	4200 lm	
		Standard	3000 lm	
		Low	2300 lm	
Contrast ratio (full white / full black)*3	20000:1 (SYQ) 12000:1 (C1)			
Speaker	16W (monaural)			
Displayable scanning frequency	Horizontal	15 kHz to 92 kHz		
	Vertical	48 Hz to 92 Hz		
Display resolution	Computer signal input	Maximum display resolution: 1600 x 1200 dots, fV:60Hz		
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p		
Colour System	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60			
Keystone correction (Max.)*4	Vertical	+/-30 degrees		
OSD language	27-languages	English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Greek, Czech, Slovakia, Romania		
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15 pin female/Audio input connector: Stereo mini jack		
	INPUT B	RGB input connector: Mini D-sub 15 pin female/Audio input connector: Stereo mini jack		
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support/Audio input connector: HDMI audio support		
	INPUT D	HDMI input connector: HDMI 19-pin, HDCP support/Audio input connector: HDMI audio support		
	S VIDEO IN	S Video input connector: Mini DIN 4-pin		
	VIDEO IN	Video input connector: Phono jack		
	OUTPUT	MONITOR output connector: Mini D-sub 15 pin female/Audio output connector: Stereo mini		
	Y PB/CB PR/CR	Component: Mini D-sub 15 pin female		
	REMOTE	D-sub 9-pin male/RS232C		
	LAN	RJ-45, 10BASE-T/100BASE-TX	RJ45, 100BASE-TX (Shared with HDBaseT)	
	USB	Type-A & Type-B		
	MICROPHONE IN	Microphone jack: Mini Jack		
Acoustic noise*5	Lamp mode:	Low	29dB	
Operating temperature / Operating humidity	0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)			
Storage temperature / Storage humidity	-10°C to +60°C / 14°F to +140°F (20% to 80%; no condensation)			
Power requirements	AC 100 V to 240 V, 3.5 A to 1.5 A, 50 Hz / 60 Hz		•	•
	AC 100 V to 240 V, 3.4 A to 1.5 A, 50 Hz / 60 Hz			
Power consumption	AC 100 V to 120 V	High	333 W	332 W
		Standard	270 W	270 W
		Low	233 W	233 W
	AC 220 V to 240 V	High	320 W	319 W
		Standard	260 W	261 W
		Low	225 W	225 W
Power consumption (when "Standby mode" is set to "Low")	AC 100 V to 120 V	0.5 W		
	AC 220 V to 240 V	0.5 W		
Power Consumption (when "Standby Mode" is set to Standard")	AC 100 V to 120 V	5.5W (LAN) / 6.0W (optional WLAN module) / 6.2W (ALL Terminals and Networks Connected)		
	AC 220 V to 240 V	5.8W (LAN) / 6.3W (optional WLAN module) / 6.6W (ALL Terminals and Networks Connected)		
Standby Mode / Networked Standby Mode Activated	Approx. 10 Minutes			
Wireless Network(s) On/Off Switch	Press the MENU button, then select [Connection/Power] > [WLAN Settings] > [WLAN Connection] > Select On or Off			
Heat dissipation	AC 100 V to 120 V	1136 BTU		1133 BTU
	AC 220 V to 240 V	1092 BTU		1088 BTU
Dimensions (W x H x D) (without protrusions)	Approx. 365 x 96.2 x 252 mm (14 3/8 X3 25/32 X9 29/32")			
Mass	Approx. 4 kg (8.8 lb)		Approx. 4.1kg (9 lb)	
Supplied accessories	RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), Operating Instructions (CDROM) (1), Quick Reference Manual (1) Lens cap (1)			
Optional Accessories	LMP-E221, IFU-WLM3 (WLAN module)			

*1 This figure is expected maintenance time, not guaranteed time.
The actual value depends on the environment and how the projector is used.

*2 The values are estimate.

*3 The value is average.

*4 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

*5 The figures are approximate. They vary depending on the environment or how the projector is used.

CH-Series



Four Installation models that raise the bar with higher resolution images and the same energy efficiency, TCO, image quality, brightness and stylish design that comes with our other C-Series range.

HDBaseT

Allows simple connectivity using an HDBaseT digital interface, multi signal transmission system, providing a single cable, cost-effective, long-distance, and high-quality digital transmission solution*.

Audio / Speaker bypass

When set to "Always On," the speaker / microphone is available via Audio Input A.

WUXGA resolution installation projectors

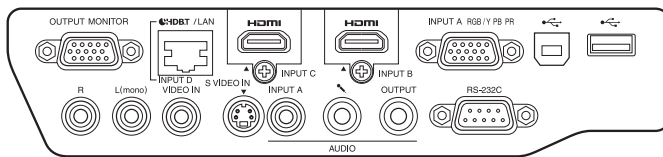
4000 – 5000 lumens brightness.

* VPL-CH355 and VPL-CH375 only

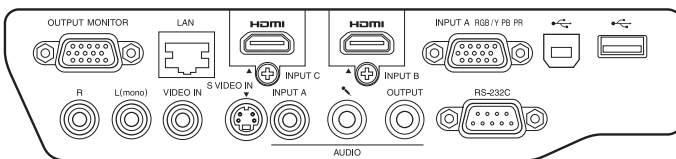
CH-Series

Connector Panel Information

Rear connector panel for the VPL-CH355 & VPL-CH375 projectors



Rear connector panel for the VPL-CH350 & VPL-CH370 projectors



CH-Series

Replacements



LMP-C250
Replacement projector lamp (CH350/CH355)



LMP-C281
Replacement projector lamp (CH370/CH375)

Optional Accessories



IFU-WLM3
USB wireless module



PAM-210
Ceiling mount



PAM-0.5M
Extension pole & ceiling plate



PAM-1.0M
Extension pole & ceiling plate



PAM-1.5M
Extension pole & ceiling plate

PrimeSupport Pro

See page 5 for further details

Reference	Included Service PS.VPLB3.123.L1		PS.LMP.FC SERIES.2Y
Support	Projector	Lamp	Lamp
Duration	3 years	1 years or 1000 h	+ 2 years or 2000 h (Total 3 years or 3000 h)

PrimeSupport Elite

See page 5 for further details

Reference	PSPVPLC-SER.EXC.3	PSPVPLC-SER.EXC.5
Support	Projector	Projector
Duration	5 years	5 years

Featuring



For full product specifications and features please visit pro.sony/installation

Specifications			VPL-CH350	VPL-CH355	VPL-CH370	VPL-CH375	
Display system	3 LCD system		•	•	•	•	
Size of effective display area	0.64" (16.3 mm) × 3, Aspect ratio: 16:10		•	•	•	•	
Number of pixels	6,912,000 (1920 × 1200 × 3) pixels		•	•	•	•	
Projection lens	Zoom	Optional: Manual (Approx. x1.45)	•	•	•	•	
	Focus	Manual	•	•	•	•	
	Lens shift	Manual (Vertical: +/- 5%, Horizontal: +/- 4%) Horizontal: +/- 2.3%	•	•	•	•	
	Throw ratio	1.5:1 to 2.2:1	•	•	•	•	
Light source	Ultra high pressure mercury lamp / 250 W type		•	•			
	Ultra high pressure mercury lamp / 280 W type				•	•	
Recommended lamp replacement time*2	Lamp mode:	High	3,000 H		2,500 H		
		Standard	4,000 H		3,000 H		
		Low	5,000 H		3,500 H		
Filter cleaning			Same time as the lamp replacement is recommended				
Screen size	40" to 300" (1.02 m to 7.62 m) (measured diagonally)		•	•	•	•	
White & Colour Light output	Lamp mode:	High	4000 lm		5000 lm		
		Standard	3200 lm		3600 lm		
		Low	2600 lm		3100 lm		
Contrast ratio (full white / full black)	2500: 1		•	•	•	•	
Acoustic noise	Lamp mode:	High	36dB		38dB		
		Standard	33dB		35dB		
		Low	29dB		29dB		
Display scanning frequency	Horizontal	19 kHz - 92 kHz	•	•	•	•	
	Vertical	48 Hz - 92 Hz	•	•	•	•	
Display resolution	Computer signal input		Maximum display resolution: 1920 × 1200 dots ¹ Panel display resolution: 1920 × 1200 dots				
	Video signal input		480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p				
Colour system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N		•	•	•	•	
Keystone correction	Vertical: Max. +/- 30 degrees, Horizontal: Max. +/- 20 degrees		•	•	•	•	
OSD language	24-languages	English, French, German, Italian, Spanish, Portuguese, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Indonesian, Finnish, Hungarian, Greek)					
INPUT OUTPUT (Computer / Video /Control)	INPUT A	RGB / Y PB PR input connector:	Mini D-sub 15-pin (female)				
		Audio input connector:	Stereo mini jack				
	INPUT B / INPUT C	HDMI input connector:	HDMI 19-pin, HDCP support				
	S VIDEO IN	S video input connector:	Mini DIN 4-pin				
	VIDEO IN	Video input connector:	Phono jack				
	OUTPUT	Monitor output connector*2:	Mini D-sub 15-pin (female)				
		Audio output connector*5:	Stereo mini jack				
	REMOTE	D-sub 9-pin (male)					
	SPEAKER	12 W x 1 (monaural)					
	MICROPHONE INPUT	Mini jack					
	LAN		RJ45, 100BASE-TXT / 100BASE-TX	RJ45, 100BASE-TX (Shared with HDBaseT)	RJ45, 100BASE-TX	RJ45, 100BASE-TX (Shared with HDBaseT)	
	HDBaseT	RJ45, 4 Play					
	USB	Type-A, Type-B					
Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)		•	•	•	•	
Storage temperature / Storage humidity	-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)		•	•	•	•	
Power requirements	AC 100 V to 240 V, 3.6 A to 1.6 A, 50/60 Hz		•	•			
	AC 100 V to 240 V, 3.9 A to 1.7 A, 50/60 Hz				•	•	
Power consumption AC 100 V - 120 V	Lamp mode:	High	353 W		388 W		
		Standard	285 W		315 W		
		Low	265 W		279 W		
Power consumption AC 220 V - 240 V	Lamp mode:	High	334 W		367 W		
		Standard	272 W		299 W		
		Low	254 W		266 W		
Power consumption (Standby Mode)	AC 100 V to 120 V	4.7W / 0.5W		6.1W / 0.5W		4.7 / 0.3W	
	AC 220 V to 240 V	4.9W / 0.5W		6.2W / 0.5W		4.9 / 0.5W	
Heat dissipation	AC 100 V to 120 V	1204 BTU			1323 BTU		
	AC 220 V to 240 V	1139 BTU			1252 BTU		
Outside Dimensions (W x H x D) (without protrusions)	Approx. 406 × 113 × D 330.5 mm (15 31/32 × 4 7/16 × 13 in)						
Mass	Approx. 5.7 kg / 12 lb						
Supplied accessories	RM-PJ8 Remote Commander (1), Lithium battery: CR2025 (1), AC Power Cord (1), Lens cap (1), Quick Reference Manual (1), Operating Instructions (CD-ROM) (1), Presentation Station for Network Presentation application (CDROM) (1)						

*1 Available for VESA Reduced Blanking signal.

*2 From INPUT A.

P-Series Laser Projectors



Compact, versatile laser projectors with excellent picture quality and easy maintenance: the bright choice for education and corporate environments.

Spectacular image quality

Powerful Z-Phosphor laser light source and advanced BrightEra 3LCD projection engine deliver detail-packed images with high 5000 lumens of colour brightness.

Long life, less maintenance

Reliable, long-lasting laser light source offers up to 20,000 hours virtually maintenance-free operation.

Flexible installation

Position the projector freely at any angle, on its side or even upside down. HDBaseT reduces cabling for simpler integration.

Discreet partner for any presentation space

Stylish blend-in design with tidy cable management and low fan noise.

P-Series

Connector Panel Information

Rear connector panel for the VPL-PHZ10 & VPL-PWZ10 projectors



PrimeSupport Pro

See page 5 for further details

Reference	Included Service PS.LASERPROJ.5	
Support	Projector	Laser
Duration	5 years	12000 hours
Type of service	Return to base for repair	

PrimeSupport Elite

See page 5 for further details

Reference	PSPVPLP-SER.EXC.5		PSPVPLP-SER.HVY.5	
Support	Projector	Laser	Projector	Laser
Duration	5 years	12000 hours	5 years	20000 hours
Type of service	Swap for like for like, new unit			

P-Series

Optional Accessories



IFU-WLM3
USB wireless module



PAM-310
Ceiling mount



PAM-0.5M
Extension pole & ceiling plate



PAM-1.0M
Extension pole & ceiling plate



PAM-1.5M
Extension pole & ceiling plate

Featuring



For full product specifications and features please visit pro.sony/laser

Specifications			VPL-PWZ10	VPL-PHZ10
White & Colour Light output	3 LCD system		•	•
Size of effective display area	0.76" (19.3 mm) x 3 BrightEra LCD Panel		•	•
Number of pixels Size of effective display area	WUXGA: 6,912,000 (1920 x 1200 x 3) pixels		•	•
	WXGA: 3,072,000 (1280 x 800 x 3) pixels		•	•
	Aspect ratio: 16:10		•	•
Projection lens	Zoom		Manual (Approx. x1.45)	
	Focus		Manual	
	Lens shift		Manual (Vertical: +20%~+55%, Horizontal: +/- 10%)	
	Throw ratio		1.28~1.88:1	
	Focal length (mm) / Aperture		f=21.37mm - 31.25mm f/ 1.50-1.95	
Light source			Laser + Phosphor	
Filter cleaning			20,000 H	
White & Colour Light output ¹	Lamp mode:	High	5,000 lm	
		Standard	4,000 lm	
		Low	3000 lm	
Contrast ratio (full white / full black) ²		500,000:1		
Key stone correction (Max) ³		Horizontal: +/-30 degrees Vertical: +/-20 degrees		
Power requirements		AC 100 V to 240 V, 4.3 A to 1.7 A, 50 Hz / 60 Hz		
Speaker		16W (monaural)		
Display scanning frequency	Horizontal		15 kHz to 92 kHz	
	Vertical		48 Hz to 92 Hz	
Display scanning frequency	Computer signal input		Maximum display resolution: 1920 x 1200 dots	
	Video signal input		NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p	
Colour system		NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60		
OSD language	27-languages		English, French, German, Italian, Spanish, Portuguese, Japanese, Chinese (簡·繁), Korean, Russian, Dutch, Norwegian, Swedish, Thai, Arabic, Turkish, Polish, Vietnamese, Farsi, Finnish, Indonesian, Hungary, Greek, Czech, Slovakia, Romania	
Operating Instructions languages		English, Germany, French, Italy, Spanish, Russian, Simplified Chinese, Japanese, Arabic		
INPUT OUTPUT (Computer / Video / Control)	INPUT A		RGB / Y PB PR input connector: Mini D-sub 15 pin female Audio input connector: Stereo mini jack	
	INPUT B		HDMI input connector: HDMI 19-pin, Digital RGB/YBPBR, HDCP support, HDMI audio support	
	INPUT C		HDMI input connector: HDMI 19-pin, Digital RGB/YBPBR, HDCP support, HDMI audio support	
	INPUT D		HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN (100BASE-TX), RS-232C)	
	VIDEO IN		Video input connector: Phono Jack Audio input connector: Shared with INPUT A	
	OUTPUT		Audio output connector: Stereo mini jack	
	REMOTE		D-sub 9-pin (male) / RS232C	
	LAN		RJ45,100BASE-TX (Shared with HDBaseT)	
Acoustic noise ⁴	Lamp mode:	High	36dB	
		Standard	28dB	
		Low	25dB	
Operating temperature / Operating humidity		0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)		
Storage temperature / Storage humidity		-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)		
Power consumption AC 100 V - 120 V	Lamp mode:	High	399 W	424 W
		Standard	266 W	287 W
		Low	198 W	217 W
Power consumption AC 220 V - 240 V	Lamp mode:	High	377 W	403 W
		Standard	256 W	279 W
		Low	193 W	211 W
Power consumption (when "Standby mode" is set to "Low")	AC 100 V to 120 V		0.5 W	0.5 W
	AC 220 V to 240 V		0.5 W	0.5 W
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V		342W	369W
	AC 220 V to 240 V		328W	353W
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V		12.5W (LAN) / 13.2W (optional WLAN module) / 16.8W (HDBaseT)/17.4W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")	
	AC 220 V to 240 V		11.9W (LAN) / 12.6W (optional WLAN module) / 17.0W (HDBaseT)/17.6W (ALL Terminals and Networks Connected, when "Standby Mode" is set to "Standard")	
On mode power consumption	AC 100 V to 120 V		342W	369W
	AC 220 V to 240 V		328W	353W
Heat dissipation	AC 100 V to 120 V		1361BTU	1446BTU
	AC 220 V to 240 V		1286BTU	1374BTU
Body Colour (Colour Code)	White/Gray		•	•
Dimensions (W x H x D)		Approx. 510 x128.5 x 354.6mm		
Outside Dimensions (W x H x D) (without protrusions)		Approx. 510 x 113 x 354.6mm		
Mass		Approx. 8.7 kg		
Supplied accessories		Remote commander (RM-PJ8), Battery (CR2025), AC power cord, Operating instructions (CD-ROM), Quick Reference Manual, Warranty card, Security label, Flyers (WEEE) / (EU battery direction), Application software (CD-ROM)		
Battery for the remote commander of the projector		Lithium Battery / CR2025 / 1		

¹ The values are estimates.

² This value is average with lamp dimming.

³ The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

⁴ The figures are approximate. They vary depending on the environment or how the projector is used.

F-Series Lamp Projectors



Model: VPL-FH60/65
Black and Lensless models are available

WUXGA resolution for the most demanding venues that require the highest resolutions, brightest projections and highly sophisticated features. The F-Series delivers powerful performance, optional lenses, longer life and low maintenance.

Edge-Blend and Warp capabilities

Built-in GUI and PC software for multi projector image blending with warping (VPL-FH60/65).

Reality creation

Clarity in every pixel. Sony's process technology and proprietary algorithm creates pixel mapping that is as close to the original as you can get (VPL-FH60/56 projectors).

DICOM capabilities

Display X-ray and MRI images that conform to GSDF (Grayscale Standard Display Function).

Side by Side content

Displays two different images / content from two different input sources.

F-Series

Optional Accessories



LMP-F370
(VPL-FH65)
Replacement lamp



LMP-F280
(VPL-FH60)
Replacement lamp

Ceiling mount and extension poles for VPL-60/65 and VPL-FHZ58/61/66



PAM-310
Ceiling mount



PAM-0.5M
Extension pole & ceiling plate



PAM-1.0M
Extension pole & ceiling plate



PAM-1.5M
Extension pole & ceiling plate

Featuring

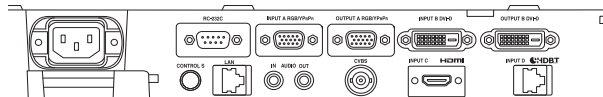


F-Series



Connector Panel Information

Rear connector panel for VPL-FH60/65 projectors



PrimeSupport Pro

See page 5 for further details

Reference	Included Service PS.VPLB3.123.1		PS.VPL.FCSERIES.2Y
Support	Projector	Lamp	Lamp
Duration	3 years	1 years or 1000 h	+ 2 years or 2000 h (Total 3 years or 3000h)

PrimeSupport Elite

See page 5 for further details

Reference	PSP.VPLF-SER.EXC.3	PSP.VPLF-SER.EXC.5
Support	Projector	Projector
Duration	3 years	5 years

For full product specifications and features please visit pro.sony/installation

Specifications			VPL-FH60	VPL-FH65
Display device	3 LCD		•	•
Size of effective display area	0.76" (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10		•	•
Number of pixels	6,912,000 (1920 x 1200 x 3) pixels		•	•
Projection lens*1	Focus		Powered	
	Zoom - Powered/Manual		Powered	
	Zoom - Ratio		Approx. x 1.6	
	Throw Ratio		1.39:1 to 2.23:1	
Lens shift	Powered/Manual		Powered	
	Range Vertical		-5%, +60%	
	Range Horizontal		+/- 32%	
Light source	Type/Wattage	High pressure mercury lamp	280 W type	330 W type
Recommended lamp replacement time*2	Lamp mode:	High	3,000 H	
		Standard	4,000 H	
Filter cleaning*2	20,000 H Same as the lamp replacement is recommended			
Screen size*1	40" to 600" (1.02 m to 15.24 m) (measured diagonally)			
White & Colour Light output	Lamp mode:	High	5000 lm	6000 lm
		Standard	3200 lm	4400 lm
Contrast ratio (full white / full black)*3	2000:1			
Displayable scanning frequency	Horizontal		15 kHz to 92 kHz	
	Vertical		48 kHz to 92 kHz	
Display resolution	Computer signal input		Maximum display resolution: 1920 x 1200 dots *4	
	Video signal input		NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for digital signal only; 1080/60p, 1080/50p, 1080/24p	
Colour System	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60			
Keystone correction (Max.)	Vertical		+/- 30 degrees	
	Horizontal		+/- 30 degrees	
OSD language	24-languages		English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek	
INPUT OUTPUT (Computer / Video / Control)	INPUT A	RGB / Y PB PR input connector:	RGB / Y PB PR input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack	
	INPUT B	RGB input connector:	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with Input A	
	INPUT C	HDMI input connector:	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI Audio Support	
	INPUT D	Audio input connector:	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)	
	S VIDEO IN	HDMI input connector:	Video input connector: BNC, Audio input connector: Shared with input A	
	VIDEO IN	S video input connector:	Monitor output for Input A Connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack	
	OUTPUT	Audio input connector:	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported/ Audio output, Monitor out connector: Stereo mini jack	
	REMOTE	Monitor output for Input A Connector:	D-sub 9-pin (male) / RS232C	
	LAN	Audio input connector:	RJ45, 10BASE-T/100BASE-TX	
IR (Control S)	Monitor output for Input B Connector:	Control S input connector: Stereo mini jack Plug in power DC 5V		
Acoustic noise	Lamp mode:	Standard	28 dB	
Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)			
Storage temperature / Storage humidity	-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)			
Power requirements	AC 100 V to 240 V, 4.3A to 1.8A, 50 Hz / 60 Hz		•	
	AC 100 V to 240 V, 5.0A to 2.1A, 50 Hz / 60 Hz			•
Power consumption Lamp mode:	AC 100 V to 120 V	High	429 W	498 W
		Standard	268 W	346 W
	AC 220 V to 240 V	High	416 W	483 W
		Standard	216 W	337 W
Power consumption (Standby Mode* is set to "Low")	AC 100 V to 120 V		0.5 W	
	AC 220 V to 240 V		0.5 W	
Power Consumption (Networked Standby Mode)	AC 100 V to 120 V		15.0 W (LAN) / 15.0 W (HDBaseT) / 15.0 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	
	AC 220 V to 240 V		13.3 W (LAN) / 13.3 W (HDBaseT) 13.3 W (All Terminals and Networks Connected) (when "Standby Mode" is set to "Standard")	
Heat dissipation	AC 100 V to 120 V		1464 BTU/h	1699 BTU/h
	AC 220 V to 240 V		1419 BTU/h	1648 BTU/h
Dimensions (W x H x D) (without protrusions)	Approx. 460 x 169 x 515 mm (18 1/8 x 6 21/32 x 20 9/32 inches) 15/32 x 12 7/32 inches)			
Mass	Approx. 13 kg (28 lb)			
Supplied accessories	RM-PJ27 Remote RM-PJ27 Remote Commander (1), Size AA (R6) batteries (2), AC Power Cord (1), Plug holder (1), Terminal (1) RM-PJ27 Remote Commander (1), Size AA (R6) batteries (2), AC Power Cord (1), Plug holder (1), Terminal, Size AA (R6) batteries (2), AC Power Cord (1), Plug holder (1), Terminal Cover (1), Quick Reference Manual (1), Operating Instructions (CD-ROM) (1)			

*1 Specifications based on VPL-Z4111 (VPL-FH290L & VPL-FH2120L)

*2 The values are estimate.

*3 This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.

*4 The figures are approximate. They are dependent on the environment or how the projector is used.

*5 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

F-Series Laser Projectors



Model: VPL-FHZ90L/120L
Black and Lensless models are available

Sony's flagship laser projectors for larger and more demanding venues requiring the best in technology, resolution and highly sophisticated features. Delivers powerful performance, optional lenses, up to 20,000 hours of life and attractive TCO.

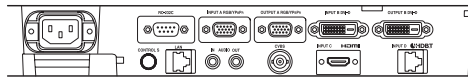
Laser light projectors with Sony 3LCD BrightEra™ Panel Technology

In a world first, Sony has combined a highly efficient laser light source with 3LCD BrightEra™ technology. This unique combination delivers exceptionally bright, high contrast pictures with excellent colour accuracy and stability, plus high efficiency and significantly greater durability for reduced lifetime ownership costs.

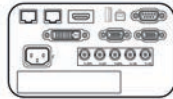
F-Series

Connector Panel Information

Rear connector panel for the VPL-FHZ58, VPL-FHZ61, VPL-FHZ70, VPL-FHZ66 & VPL-FHZ75 projectors



Rear connector panel for the VPL-FHZ90L and VPL-FHZ120L projectors



F-Series

Ceiling mount and extension poles for VPL-60/65 and VPL-FHZ58/61/66



PAM-310
Ceiling mount



PAM-0.5M
Extension pole & ceiling plate



PAM-1.0M
Extension pole & ceiling plate



PAM-1.5M
Extension pole & ceiling plate

Featuring



PrimeSupport Pro See page 5 for further details

Reference	F Laser models (VPL-FHZ58, FHZ61, FHZ70, FHZ66, & FHZ75) Included Service PS.LASERPROJ.5		
Support	Projector	Laser	
Duration	5 years	12000 hours	
Type of service	Return to base for repair		

PrimeSupport Elite See page 5 for further details

Reference	F Laser models (VPL-FHZ58, FHZ61, FHZ70, FHZ66, & FHZ75) PSP.VPL-FZ.EXC.5			
Support	Projector	Laser	Projector	Laser
Duration	5 years	12000 hours	5 years	20000 hours
Type of service	Swap for like for like, new unit			

PrimeSupport Pro See page 5 for further details

Reference	F laser high brightness (VPL-FHZ90L & VPL-FHZ120L) PS.HBPROJ.5		
Support	Projector	Laser	
Duration	5 years	20000 hours	
Type of service	Return to base for repair		

PrimeSupport Elite See page 5 for further details

Reference	F laser high brightness (VPL-FHZ90L & VPL-FHZ120L) PSP.VPL-Z-HB.HVY.5		
Support	Projector	Laser	
Duration	5 years	20000 hours	
Type of service	Swap for like for like, new unit		

THE GOLDEN SPIRAL



A traditional Golden Spiral is formed by the nesting of Golden Rectangles with a Golden Ratio of approximately 1.618. The two spirals are exactly opposite.

A Golden Spiral is dimensioned by the Golden Ratio. The spiral is formed by the nesting of Golden Rectangles with a Golden Ratio of approximately 1.618. The spiral is formed by the nesting of Golden Rectangles with a Golden Ratio of approximately 1.618. The spiral is formed by the nesting of Golden Rectangles with a Golden Ratio of approximately 1.618.

$$\frac{a+b}{a} = \frac{b}{a} = 1.618$$


Specifications			VPL-FHZ58	VPL-FHZ61	VPL-FHZ70	VPL-FHZ66	VPL-FHZ75
Display system	3LCD System		•	•	•	•	•
Size of effective display area	0.76" (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10		•	•	•	•	•
Number of pixels	6,912,000 (1920 x 1200 x 3) pixels		•	•	•	•	•
Projection lens *1	Focus	Powered					
	Zoom - Powered/Manual	Powered					
	Zoom - Ratio	Approx. x 1.6					
	Throw Ratio	1.39:1 to 2.23:1					
Lens shift	Powered/Manual	Powered					
	Range Vertical	-5% / +60% ⁵	-5% / +60% ⁵	-5% / +70%	-5% / +60% ⁵	-5% / +70%	
	Range Horizontal	+/- 32%					
Light source	Type		Laser diode				
Laser life *4	Light output mode: Standard		20,000 H				
Filter cleaning / replacement cycle (Max.) *2			20,000 H				
Auto filter cleaning			•	•	•	•	•
Screen size (Max)			40" to 600" (depending on projection lens)				
White & Colour Light output *2	Lamp mode:	Standard	4,200 lm	5,100 lm	5,500 lm	6,100 lm	6,500 lm
		Middle	3,000 lm	3,500 lm	5,100 lm	4,000 lm	6,100 lm
Contrast ratio (full white / full black) *3			500,000:1				
Colour calibration			•	•	•	•	•
Displayable scanning frequency	Horizontal	15 kHz to 92 kHz					
	Vertical	48 Hz to 92 Hz					
Display resolution	Computer signal input *4	Maximum display resolution: 1920 x 1200 dots					
	Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i (The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p)					
Colour System			NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60				
Keystone correction (Max.) *1*8	Vertical	+/- 30 degrees					
	Horizontal	+/- 30 degrees					
INPUT OUTPUT (Computer / Video /Control)	INPUT A	RGB / Y PB PR input connector: Mini D-sub 15 pin (female) Audio input connector: Stereo mini jack					
	INPUT B	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with input A					
	INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support					
	INPUT D	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)					
	VIDEO IN	Video input connector: BNC, Audio input connector: Shared with input A					
	OUTPUT A	Monitor output for Input A Connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack					
	OUTPUT B	Monitor output for Input B Connector: DVI-D 24-pin (single link), HDCP not supported Audio output, Monitor out connector: Stereo mini jack					
	REMOTE	D-sub 9-pin (male) / RS232C					
	LAN	RJ45, 10BASE-T/100BASE-TX					
IR (Control S)	Stereo mini jack, Plug in power DC5V						
OSD language	24-languages	English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek					
Acoustic noise	Standard	32 dB	34 dB				32 dB
	Middle	28 dB	28 dB				28 dB
Operating temperature / Operating humidity *5	0°C to 45°C (32°F to 109°F) / 20% to 80% (no condensation)		•	•	•	•	
Storage temperature / Storage humidity *5	-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)		•	•	•	•	
Power requirements			AC 100 V to 240 V, 50 Hz / 60 Hz				
Power consumption Lamp mode: High *5	AC 100 V to 120 V	367 W	420 W			515 W	
	AC 220 V to 240 V	352 W	408 W			497 W	
Power consumption (Standby mode)	AC 100 V to 120 V	0.5 W					
	AC 220 V to 240 V	0.5 W					
Power Consumption (Network Standby Mode) *5	AC 100 V to 120 V	15.0 W (LAN) 19.4 W (HDBaseT) 19.4 W (All Terminals / Networks) (when "Standby Mode" set to "Standard")					
	AC 220 V to 240 V	13.3 W (LAN) 17.4 W (HDBaseT) 17.4 W (All Terminals / Networks) (when "Standby Mode" set to "Standard")					
Body colour			White / Black Available				
Dimensions (W x H x D) (without protrusions)			Approx. 460 x 169 x 515 mm, 18 1/8 x 6 21/32 x 20 9/32 inches				
Mass			16 kg (34 lb)				
Supplied accessories	Remote commander		RM-PJ27				
Optional accessories	Projection Lens		PAM 310, PAM-0.5M / PAM-1.0M / PAM-1.5M VPLL-3003 / 3007 / Z3009 / Z3010 / Z3024 / Z3032				

*1 With supplied standard lens

*2 This figure is expected maintenance time, not guaranteed time.
The actual value depends on the environment and how the projector is used.

*3 The value is average.

*4 Available for VESA Reduced Blanking signal.

*5 To be updated for VPL-FHZ70 & VPL-FHZ75

*6 The values are estimate.

*7 This figure is expected maintenance time, not guaranteed time.

The actual value depends on the environment and how the projector is used.

*8 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

*9 When using BKM-PJ20

Correct as of February 2019. Subject to change.

Specifications		VPL-FHZ90L	VPL-FHZ120L	
Display system	3LCD System		•	
Size of effective display area	1" x 3 BrightEra LCD Panel, Aspect ratio: 16:10		•	
Number of pixels	6,912,000 (1920 x 1200 x 3) pixels		•	
Projection lens*1	Focus	Powered		
	Zoom - Powered/Manual	Powered		
	Zoom - Ratio	Approx. x1.5		
	Throw Ratio	1:30:1 to 1.96:1		
Lens shift	Powered/Manual	Powered		
	Range Vertical	+/- 99%		
	Range Horizontal	+/- 51%		
Light source	Type		Laser diode	
Laser life *4	Light output mode: Standard		20,000 H	
Filter cleaning / replacement cycle (Max.) *2	10,000 H (service maintenance)			
Auto filter cleaning	•		•	
Screen size (Max)	40" to 600" (depending on projection lens)			
White & Colour Light output *5	Lamp mode:	Standard	9,000 lm	12,000 lm
		Middle	8,000 lm	10,000 lm
Contrast ratio (full white / full black)	∞:1		∞:1	
Colour calibration	•			
Displayable scanning frequency	Horizontal	15 kHz to 92 kHz		
	Vertical	48 Hz to 92 Hz		
Display resolution	Computer signal input *4	Maximum display resolution: 1920 x 1200 dots		
	Video signal input	480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i (The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p), 1080/30p*9		
Colour System	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60			
Keystone correction (Max.) *1*8	Vertical	+/- 30 degrees		
	Horizontal	+/- 30 degrees		
INPUT OUTPUT (Computer / Video /Control)	INPUT A	RGB / Y PB PR input connector: 5 BNC (female)		
	INPUT B	RGB input connector: Mini D-sub 15-pin (female)		
	INPUT C	DVI input connector: DVI-D 24-pin (single link), HDCP support HDCP: v1.4		
	INPUT D	HDMI input connector: HDMI 19-pin, HDCP support HDCP: v1.4		
	INPUT E	HDBaseT interface connector: RJ45, 3 play		
	INPUT F	Optional adaptor slot for 3G-SDI Input Adaptor (BKM-PJ20)		
	INPUT G	USB Port: HTML Viewer Type-A x 1		
	VIDEO IN	Video input connector: BNC, Audio input connector: Shared with input A		
	OUTPUT A	Monitor output for Input A Input B Connector: Mini D-sub 15-pin (female)		
	REMOTE	D-sub 9-pin (male) / RS232C		
	LAN	RJ45, 10BASE-T/100BASE-TX/1000BASE-T/1000BASE-TX		
	IR (Control S)	Stereo mini jack, Plug in power DC5V		
OSD language	24-languages	English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek		
Acoustic noise	Lamp mode:	Standard	39 dB	42 dB
		Middle	39 dB	39 dB
Operating temperature / Operating humidity	0°C to 45°C (32°F to 109°F) / 20% to 80% (no condensation)		•	
Storage temperature / Storage humidity	-10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation)		•	
Power requirements	AC 100 V to 240 V, 50 Hz / 60 Hz			
Power consumption Lamp mode: High	AC 100 V to 120 V	840 W	1076 W	
	AC 220 V to 240 V	814 W	1033 W	
Power consumption (Standby mode)	AC 100 V to 120 V	0.50 W		
	AC 220 V to 240 V	0.50 W		
Power Consumption (Network Standby Mode)	AC 100 V to 120 V	21.6W (LAN) 26.5W (HDBT) 26.6W (All Terminals / Networks) (when "Standby Mode" set to "Standard")		
	AC 220 V to 240 V	21.3W (LAN) 26.5W (HDBT) 26.6W (All Terminals / Networks) (when "Standby Mode" set to "Standard")		
Body colour	White / Black Available			
Dimensions (W x H x D) (without protrusions)	Approx. 544 x 205 x 564 mm			
Mass	26 kg		27 kg	
Supplied accessories	Remote commander		RM-PJ30	
Optional accessories	Projection Lens		VPLL-4008, Z4111 (Standard), Z4015, Z4019, Z4025, & Z4045	

*1 With supplied standard lens

*2 This figure is expected maintenance time, not guaranteed time.
The actual value depends on the environment and how the projector is used.

*3 The value is average.

*4 Available for VESA Reduced Blanking signal.

*5 To be updated for VPL-FHZ70 & VPL-FHZ75

*6 The values are estimate.

*7 This figure is expected maintenance time, not guaranteed time.

The actual value depends on the environment and how the projector is used.

*8 The picture quality may deteriorate when the V Keystone function is used for it is an electrical correction.

*9 When using BKM-PJ20

VPL-FHZ58/61/66, VPL-FHZ70, VPL-FHZ75, FH60/65

Optional Bayonet Lenses

	VPLL-3003 WUXGA: 0.33:1		VPLL-3007 WUXGA: 0.65:1		VPLL-Z3009 WUXGA: 1.0-1.39:1
	VPLL-3010 WUXGA: 1.0-1.39:1		VPLL-Z3024 WUXGA: 2.34 - 3.19		VPLL-Z3032 WUXGA: 3.18 - 4.84

VPL-FHZ90L, FHZ120L

Optional Lenses

	VPLL-4008 WUXGA: 1.00:1		VPLL-Z4111 WUXGA: 1.30 - 1.96 Standard		VPLL-Z4015 WUXGA: 1.85 - 2.44
	VPLL-Z4019 WUXGA: 2.41 - 3.07		VPLL-Z4025 WUXGA: 3.02 - 5.58		VPLL-Z4045* WUXGA: 5.56 - 7.50

* VPLL-Z4045 max mechanical shift 9.6:1

For full product specifications and features please visit pro.sony/installation





BRAVIA

Professional Displays

Bring the spectacular depth and quality of BRAVIA to your business with the latest range of ultra-slim and energy efficient Professional Displays from HD to 4K HDR OLED all the way up to 8K HDR picture quality. Available from 32" to 98" our line-up offers all the technological performance and style you'd expect from BRAVIA.

Installation-friendly and easy to manage, they're ideal for presenting your best image in a wide range of environments, from retail spaces to meeting rooms and classrooms, communal areas and hospitality spaces with our latest range of TV Tuner models.

Highlights

- Brilliant 4K image quality with powerful 4K X1 processor and Reality Creation.
- Embedded HTML5 platform for easy digital signage.
- Copy custom settings to multiple screens via USB memory.
- Slim, stylish and installation friendly with versatile control options.
- Touchscreen option.
- 24/7 operation and reliable high-brightness panel.*
- Compatible with TEOS Workplace Solutions.

*Model dependent



PrimeSupport
Pro

See page 5 for
further details



Do more with BRAVIA built-in solutions

Bring the incredible depth and quality of 4K resolution to your business or university

Built-in Meeting-Room solution

Standard and enhanced interface in meeting rooms with smart features, and efficient automated systems for input management. There's no need for extra controllers in the room and settings stay exactly as they have been programmed.

Built-in mirroring (TEOSConnect)*

Great for collaborative working, TEOSConnect allows smooth, speedy wireless screen mirroring from laptops, directly to BRAVIA Professional Displays. It's available as an easy-to-install app, with no extra hardware needed.

Built-in workplace management solution (TEOSManage)*

Sony BRAVIA Professional Displays are fully compatible with TEOSManage. Intelligent workspaces can now have complete control of all of their connected devices and content in boardrooms, meeting rooms, offices, public areas and other locations. Plus, there's no player required.

Built-in Android Applications Store

Endless possibilities to display what you need, without external devices, through dedicated applications.

Built-in Digital Signage Platform* (TDM Digital Signage)

Create and generate your signage content simply and without limitation. This easy-to-use authoring tool lets you combine text, graphics, video, social media feeds and other live web content to produce dynamic marketing messages.

The total touchscreen solution

Turn your BRAVIA into an interactive touchscreen with our IR and capacitive technology overlays. Designed to fit seamlessly onto the BRAVIA screen, it's easy to set up and allows 10 multi-touch points for greater interaction.

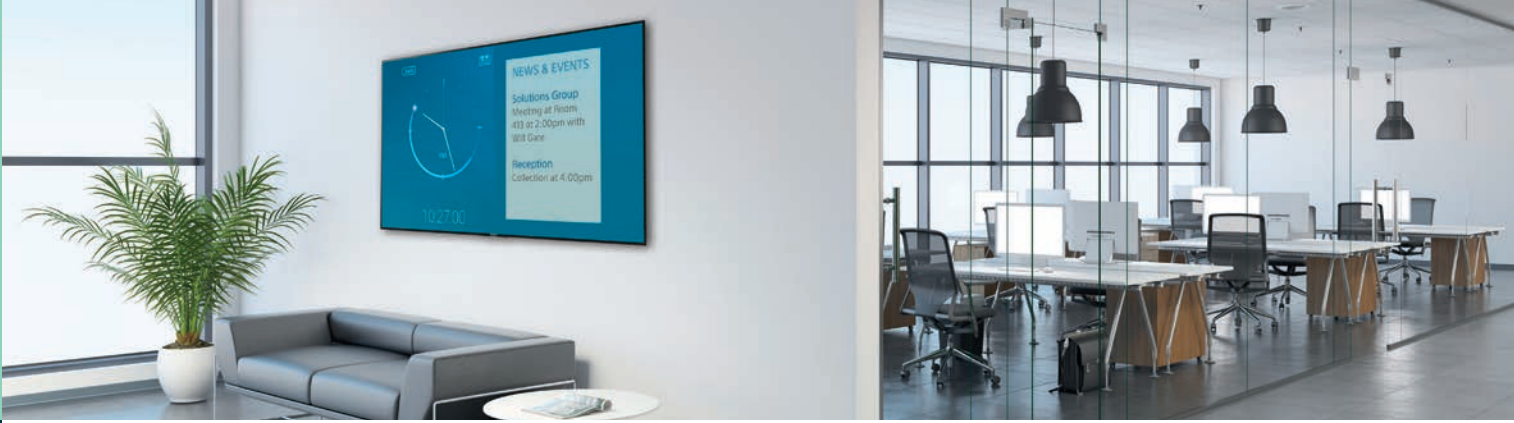
Looks great in every light

The screen overlay's tough anti-glare surface ensures optimum visibility, even in the sunniest environments.

Quick and easy to install and set up

Simple, fuss-free installation and set up allows deployment of your interactive touchscreen solution in minutes.

*Chargeable Option. Model dependent.



BRAVIA BZ-Series



Available in a wide range of screen sizes to suit any size classroom or meeting room, BRAVIA Professional Displays bring your visuals to life with bright, detail-packed 4K HDR pictures and easy content sharing. Ensure everyone's informed with attractive, colourful signage and keep costs in check with energy-saving features.

See every detail in 4K

The 4K resolution LCD panel (3840 x 2160 pixels) ensures incredible colour, contrast and realism, with four times the detail of Full HD. All models are HDR compatible, displaying a wider range of brightness levels for a level of detail and realism beyond anything you've seen before.

*Some solutions may be chargeable

Superior displays designed for business

Portrait, advanced control, professional mode, optional interactive compatibility, 24/7 operation or an embedded HTML5 platform for easy digital signage creation; our BRAVIA 4K Displays are designed to suit all professional needs.

Personalise BRAVIA your way

BRAVIA suits any business application with a range of personalisation options and built-in solutions, including TEOS solutions, Touchscreen solution, Meeting Room solution, Media Player, TDM Digital Signage, Smart Automation, Screen Mirroring and Android Applications Store*.



See page 5 for further details				
PrimeSupport Pro				
Reference	Included Service PS.B2B.3	PSP.FW43BZ35.2X	PSP.FW49BZ35.2X	PSP.FW55BZ35.2X
Duration	3 years Advanced Exchange	2 years extension, total 5 years		
Reference	PSP.FW65BZ35.2X	PSP.FW75BZ35.2X	PSP.FW85BZ35.2X	PSP.FW-4K.100.5
Duration	2 years extension, total 5 years			

For full product specifications and features please visit pro.sony/professional-displays



Specifications		FW-43BZ35F	FW-49BZ35F	FW-55BZ35F	FW-65BZ35F	FW-75BZ35F	FW-85BZ35F	
General features	Screen size (diagonal)	43"	49"	55"	65"	75"	85"	
	Brightness (cd/m ²)***	505 cd/m ²			620 cd/m ²			
	Native contrast ratio	3,500:1			4,000:1			
	Dynamic contrast ratio	over 1 million						
	Response time (ms)	5	8	5		6		
	Display resolution	4K (3840x2160)						
	Compatible with HDR	Yes (HDR10, HLG)						
	Aspect ratio	16:9						
Display features	Portrait compatibility	Yes						
	Dimming type	Frame Dimming						
	Display device	LCD						
	Backlight type	Edge LED						
	Operating system	Android 8.0						
	Processor	X1						
	Operation time	24/7						
Video specs	Wide Mode	Wide zoom/Normal/Full/Zoom/14:9						
	4:3 Default	Yes						
	Video Processing	4K X-Reality PRO						
	Motionflow	Motionflow XR 800Hz (Native 100Hz)						
	Triluminos	Yes						
	Viewing angle (Right/Left/Up/Down)	178 (89/89/89/89)						
	Video Signal (HDMI) 4K 60P quality format	4096x2160p (24,60Hz), 3840x2160p (24,30,60Hz), 1080p (30,60Hz), 1080/24p, 1080i (60Hz), 720p (30,60Hz), 720/24p, 480p, 480i Up to 18Gbps:4K 60p 4:4:4 (8bit), 4:2:2 (8;10;12bit), 4:2:0 (8;10bit) HDR included for HDMI 1/2/3/4						
Audio specs	Speaker position	Down Firing						
	Audio Power Output	10W + 10W						
	Invisible speaker	Yes						
Professional features	Professional Hidden Mode	Yes						
	HDMI auto wake-up	Yes						
	HTM5 platform	Yes						
	Multicast / IPTV	Yes (UDP/RTP)						
	Compatible with TDM Digital Signage	Yes						
	Available storage	16 GB						
	Compatible TDM content	Customised design, text, pictures, videos, YouTube, traffic, weather, public information, Facebook, Twitter, PowerPoint and more.						
Network specs	Wi-Fi Direct	Yes						
	Wi-Fi Certified	Yes						
	DLNA	Network Client / Network Renderer						
	Firmware update	Yes (network or USB)						
	Internet Browser	Yes (Opera)						
	Wireless LAN	Integrated						
Convenience features	USB HDD REC	Yes						
	USB Play (contents)	MPEG1:MPEG1/MPEG2PS:MPEG2/MPEG2TS (HDV,AVCHD):MPEG2,AVC/MP4 (XAVC EG4,HEVC/AVI:Xvid,MotInjpeg/ASF (WMV):VC1/ MOV:AVC,MPEG4, MotionJpeg/MKV:Xvid,AVC,MPEG4,VP8,HEVC/WEBM:VP8/3GPP:MPEG4,AVC/MP3/ASF (WMA)/WAV/MP4AAC/FLAC/JPEG						
	On screen clock	Yes						
	Sleep timer	Yes						
	On/Off timer	Yes						
	Google Cast	Yes						
Control specs	IP Control	Yes						
	RS-232C Control	Yes (jack 3.5)						
	HDMI CEC	Yes						
Inputs and outputs	HDCP	2.2 (for HDMI1/2/3/4)						
	Composite Video Input(s)	1 (Rear Hybrid w/Component)						
	Component Video (Y/Pb/Pr) Input(s)	1 (Rear Hybrid w/Composite)						
	HDMI™ Connection(s) (Total)	4 (3Side/1Rear)						
	Analog Audio Input(s) for HDMI (Total)	1 (Rear)						
	Digital Audio Output(s)	1 (Rear)						
	Audio Out	1 (Side/Hybrid w/HP and Subwoofer Out)						
	USB	3 (side)						
Design features	Ethernet Connection(s)	1 (side)						
	Finish (Surface Colour)	Black						
	Table Top Stand	Separate (assembly required)						
Energy saving and efficiency	VESA® Hole Spacing Compatible	Yes (10.0x20.0 cm)	Yes (20.0x20.0 cm)	Yes (30.0x20.0 cm)	Yes (30.0x30.0 cm)	Yes (40.0x30.0 cm)	Yes (40.0x40.0 cm)	
	Light Sensor	Yes						
	Energy Label	B	A		A+		A	
	Power Consumption (in Standby)	0.50 W						
	Power Consumption (in Operation)	76 W	88 W	103 W	120 W	149 W	233 W	
	Lead content	Yes						
	Mercury content (mg)	0.0						
	Dynamic Backlight Control	Yes						
	Power Saving Mode / Back Light Off Mode	Yes						
	AC Power Input	AC Adapter			1 (Rear)			
Measurements	Display Only (WxHxD)	96.5x56.9x5.8 (1.69) cm	109.8x64.4x5.8 (1.72) cm	123.1x71.3x5.2 (1.41) cm	145.0x83.6x5.2 (1.41) cm	167.3x96.3x5.4 (1.68) cm	191.1x109.8x7.3 cm	
	Display with Stand (WxHxD)	96.5x62.8x27.9 cm	109.8x70.3x27.9 cm	123.1x77.6x31.5 cm	145.0x90.0x31.5 cm	167.3x103.1x37.1 cm	191.1x117.6x42.9 cm	
	Package Carton (WxHxD)	107.0 x 69.5 x 14.8 cm	118.8 x 77.6 x 14.8 cm	133.2x81.7x15.8 cm	156.5 x 94.6 x 17.9 cm	188.4 x 108.3 x 18.8 cm	208.2 x 123.3 x 36.9 cm	
Weight	Display Only	10.8 Kg	13.2 Kg	19.1 Kg	25.6 Kg	38.9 Kg	44.1 Kg	
	Display with Stand	11.3 Kg	13.7 Kg	20 Kg	26.5 Kg	40.1 Kg	46.2 Kg	
	Package Carton	16 Kg	19 Kg	26 Kg	35 Kg	53 Kg	64 Kg	
Optional accessories	Wallmount bracket	SU-WL450/PSE				SU-WL450/PSE (optional)		-
	VGA to HDMI cable	CAB-VGAHDMI1						
	RS232 jack cable	RS232 jack cable CAB-RSJA1						

***Basic

BRAVIA TV Tuner Models



Our latest range of BRAVIA features a built in TV Tuner ideal for public places such as reception areas, waiting rooms and communal spaces. Comprised of 20 displays including our first ever 8K model, this range promises to take content display to the next level and deliver high impact imagery.

Set-up's fast and fuss-free with Pro mode that lets you copy custom settings to every screen in the building. Operation's refreshingly intuitive, too. With energy saving features like auto power on/off, you'll benefit from lower ownership costs. Even more flexibility's provided with our in-built software platform that offers powerful integration and control options.

WE6/WG6



Easily create digital signage**

Produce compelling digital signage with no prior training needed. Combine graphics, text, video and live web content to create attractive signage in minutes.



See finer detail

X-Reality™ PRO picture processing analyses every frame, matching scenes with our special image database to refine images and reduce noise.



Smoother movement

Motionflow XR inserts additional picture frames between the originals, ensuring smoother, sharper detail in fast-moving sequences.



Installation friendly

The slim, stylish display offers a wide range of mounting options, is VESA compliant and integrates colour neatly into any corporate, retail or educational environment.



Professional Mode***

There's now more control to disable input or remote control, remove labels and block buttons; customise and store display settings and features add security then copy them easily from display to display via USB flash memory.



The total touchscreen****

Turn your BRAVIA into an interactive touchscreen with our IR and capacitive technology overlays. Designed to fit seamlessly onto the BRAVIA screen, it's easy to set up and allows 10 multi-touch points for greater interaction. Contact your local Sony dealer for more information.

XG7

Includes the same features as WE6/WG6 models.



Compatible with High Dynamic Range (HDR)

View a wider range of brightness levels with HDR, the emerging video format that allows content creators to expand their range of creativity.



Ultimate Picture Quality More colour with TRILUMINOS Display

TRILUMINOS Display maps colours from a wider palette, faithfully reproducing a world of richer, more lifelike hues and tones.

** Requires TEP-TX5 Player

*** Basic

**** Optional

See page 5 for further details

PrimeSupport Pro

Reference	WE615/ WG6/ XG7/ XG8/ AG8/ AG9/ ZG9 Series models
Duration	3 years Advanced Exchange

For full product specifications and features please visit pro.sony/professional-displays



XG8

Includes the same features as WE6/WG6 and XG7 models.

Improve content quality with Reality Creation

This high picture quality engine takes Full HD content much, much closer to 4K Ultra HD quality. Whether it's a presentation to clients or engaging digital signage, you'll get the best picture possible.

Pictures and sound in perfect harmony

Sony's Acoustic Multi-Audio™ system combines two sound positioning tweeters in the rear of the display with the bass reflex speakers for Sound-from-Picture Reality™. Action and sound are precisely aligned for even more immersive viewing.

Automatic on/off feature

Easily programme your BRAVIA with the On-Timer feature to automatically turn the flat panel on /off.

Portrait

Use the BRAVIA Display in portrait for greater signage impact.

Do more with Android TV

Discover a world of apps and online content powered by Android TV. Use Voice Search to find content easily with no typing.

AG8/9

Includes the same features as WE6/WG6 and XG7/8 models.

Sound from the screen

With Acoustic Surface Audio+™, sound comes directly from the screen. Three actuators behind the TV vibrate to create acoustics that move with the picture. Two side-facing subwoofers deliver rich, spatial bass.

Spectacularly lifelike 4K images

Our most powerful ever Picture Processor X1™ Extreme/ Ultimate* features Object-based Super Resolution, Object-based HDR remaster and Super Bit Mapping™ 4K HDR for exceptionally detailed, realistic pictures with rich colour and ultra-low noise.

ZG9

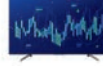
Includes the same features as WE6/WG6, XG7/8 and AG8/9 models.

Spectacularly lifelike 8K HDR images

Our most powerful ever Picture Processor X1™ Ultimate features. Object-based Super Resolution, Object-based HDR remaster and Super Bit Mapping™ 8K HDR for exceptionally detailed, realistic pictures with rich colour and ultra-low noise.

Experience greater contrast

Offering up to twenty times the contrast of conventional LED TVs, 8K X-tended Dynamic Range™ PRO unlocks details in shadow and highlights, ensuring dark scenes are darker and bright scenes brighter.



Specifications		FWD-43X80G/T	FWD-49X80G/T	FWD-55X85G/T	FWD-65X85G/T	FWD-75X85G/T	FWD-85X85G/T	
General features	Screen size	43"	49"	55"	65"	75"	85"	
	Brightness (cd/m ²)	393			620			
	Dynamic contrast ratio	350000:1			550000:1			
	Response Time (ms)	8			5			
Display features	Haze (%)	3%						
	Dimming type	Frame Dimming						
	Backlight type	Edge LED					Direct LED	
	Operation time	18/7						
	Backlight dimming type	Frame Dimming						
	Display type	LCD						
	Bezel Size (Top, Side, Bottom)	11.4/12/18.9	11.4/11.4/18.6	8.5/8.5/14.1		9.6/9.6/15.6	16.5/16.5/17.5	
TV System	TV System (Digital Terrestrial)	DVB-T/T2						
	TV System (Digital Cable)	DVB-C						
	TV System (Digital Sat)	DVB-S/S2						
	Number of Tuners (Terrestrial/Cable)	1 (Digital/Analog)			2 (Digital)/1 (Analog)			
	Number of Tuners (Sat)	1			2			
	Operating System	Android 8.0 Oreo						
Professional features	On-board Storage (GB)	16GB						
	Professional hidden mode	Yes						
	HDMI auto wake-up	Yes						
	HTML5 platform	Yes						
Network specs	Multicast / IPTV	Yes						
	Wi-Fi Direct	Yes						
	Screen mirroring (Miracast™)	Yes			Yes (only for B2B purpose)			
	Wireless LAN	Integrated						
Convenience features	USB HDD Recording	Yes						
	USB playback codecs	MPEG1:MPEG1/MPEG2PS:MPEG2/MPEG2TS(HDV,AVCHD):MPEG2,AVC/MP4(XAVC S):AVC,MPEG4,HEVC/AVI:Xvid,MotionJpeg/ASF(WMV):VCI/ MOV:AVC,MPEG4,MotionJpeg/MKV:Xvid,AVC,MPEG4,VP8.HEVC/WEBM:VP8/3GPP:MPEG4,AVC/MP3/ASF(WMA)/WAV/MP4AAC/FLAC/JPEG						
	On/Off Timer	Yes						
	IP Control	Yes						
Inputs and outputs	RF (Terrestrial/Cable) Connection Input(s)	1 (Side)						
	IF (Satellite) Input(s)	1 (Side)			2 (Side)			
	Composite Video Input(s)	1 (Bottom)			1 (Rear)			
	HDMI Connection(s) (Total)	4 (2Side,2Rear)			4 (3Side,1Rear)			
	HDMI input Audio format	5.1 channel linear PCM: 32/44.1/48/88.2/96/176.4/192kHz 16/20/24bits, Dolby Digital, Dolby Digital Plus, DTS						
	Digital Audio Output(s)	1 (Rear)						
	Audio Out	1 (Rear/Hybrid with Headphone Out) All sizes						
	USB ports	3 (Side)						
	Ethernet inputs	1 (Bottom)			1 (Side)			
Energy saving and efficiency	Audio Power Output	10W+10W						
	Energy label	A				A+	A	
	Power Consumption (in Standby)	0.50W						
	Power Consumption (in Operation)	Standard: 69W	Standard: 77W	Standard: 111W	Standard: 127W	Standard: 158W	Standard: 216W	
Measurements	Annual Power Consumption	96 kWh/Year	107 kWh/Year	154 kWh/Year	176 kWh/Year	219 kWh/Year	300 kWh/Year	
	Dimension of TV without Stand (W x H x D)	Approx. 97.0x57.0x5.7 (1.30) cm	Approx. 110.1x64.5x5.7 (1.30) cm	Approx. 123.1x71.3x5.2 (1.41) cm	Approx. 145.0x83.6x5.2 (1.41) cm	Approx. 167.3x96.3x5.4 (1.68) cm	Approx. 190.9x109.7x8.0 (1.45) cm	
	Dimension of TV with Stand (W x H x D)	Approx. 97.0x63.0x26.0 cm	Approx. 110.1x70.4x26.0 cm	Approx. 123.1x77.6x31.6 cm	Approx. 145.0x89.9x31.6 cm	Approx. 167.3x103.1x35.8 cm	Approx. 190.9x117.5x43.3 cm	
Weights (Approx.)	Weight of TV without Stand	Approx. 9.6 Kg	Approx. 11.8 Kg	Approx. 18.7 Kg	Approx. 25.3 Kg	Approx. 37.8 Kg	Approx. 46.5 Kg	
	Weight of TV with Stand	Approx. 10.2 Kg	Approx. 12.4 Kg	Approx. 19.7 Kg	Approx. 26.3 Kg	Approx. 39.3 Kg	Approx. 49 Kg	



Specifications		FWD-55A8G/T	FWD-65A8G/T	FWD-55A9G/T	FWD-65A9G/T	FWD-77A9G/T
General features	Screen size	55"	65"	55"	65"	77"
	Brightness (cd/m ²)					
	Dynamic contrast ratio					
	Response Time (ms)					
Display features	Haze (%)					
	Dimming type					
	Backlight type					
	Operation time	18/7				
	Backlight dimming type					
	Display type	OLED				
	Bezel Size (Top, Side, Bottom)	6.75/3.45/6.75	6.65/3.3/6.65			
TV System	TV System (Digital Terrestrial)	DVB-T/T2				
	TV System (Digital Cable)	DVB-C				
	TV System (Digital Sat)	DVB-S/S2				
	Number of Tuners (Terrestrial/Cable)	2 (Digital)/1 (Analog)				
	Number of Tuners (Sat)	2				
	Operating System	Android 8.0 Oreo				
	On-board Storage (GB)	16GB				
Professional features	Professional hidden mode	Yes				
	HDMI auto wake-up	Yes				
	HTML5 platform	Yes				
	Multicast / IPTV	Yes				
Network specs	Wi-Fi Direct	Yes				
	Screen mirroring (Miracast™)	Yes	Yes (only for B2B purpose)			
	Wireless LAN	Integrated				
Convenience features	USB HDD Recording	Yes				
	USB playback codecs	MPEG1:MPEG1/MPEG2PS:MPEG2/MPEG2TS(HDV,AVCHD):MPEG2,AVC/MP4(XAVC S):AVC,MPEG4,HEVC/AVI:Xvid,MotionJpeg/ASF(WMV):VC1/ MOV:AVC,MPEG4,MotionJpeg/MKV:Xvid,AVC,MPEG4,VP8.HEVC/WEBM:VP8/3GPP:MPEG4,AVC/MP3/ASF(WMA)/WAV/MP4AAC/FLAC/JPEG				
	On/Off Timer	Yes				
	IP Control	Yes				
Inputs and outputs	RF (Terrestrial/Cable) Connection Input(s)	1 (Bottom)				
	IF (Satellite) Input(s)	2 (Bottom)				
	Composite Video Input(s)	1 (Side)				
	HDMI Connection(s) (Total)	4 (1Side,3Bottom)				
	HDMI input Audio format	5.1 channel linear PCM: 32/44.1/48/88.2/96/176.4/192kHz 16/20/24bits, Dolby Digital, Dolby Digital Plus, DTS				
	Digital Audio Output(s)	1 (Bottom)				
	Audio Out	1 (Side / Hybrid with Headphone Out)				
	USB ports	2 (Side) / 1 (Bottom)				
	Ethernet inputs	1 (Bottom)				
Audio Power Output	10W+10W+10W+10W			20W+20W+10W+10W		
Energy saving and efficiency	Energy label	B				A
	Power Consumption (in Standby)	0.50W				
	Power Consumption (in Operation)	Standard: 130W	Standard: 167W			Standard: 211W
	Annual Power Consumption	180 kWh/Year	232 kWh/Year	183 kWh/Year	234 kWh/Year	293 kWh/Year
Measurements	Dimension of TV without Stand (W x H x D)	Approx. 122.9x71.0x5.1(0.64) cm	Approx. 145.0x83.4x5.1(0.64) cm	Approx. 122.6x71.0x4.0(0.62) cm	Approx. 144.7x83.4x4.0(0.62) cm	Approx. 172.1x99.6x4.9(0.69) cm
	Dimension of TV with Stand (W x H x D)	Approx. 122.9(122.9)x73.0(78.0)x29.0(29.0) cm	Approx. 145.0(145.0)x85.4(90.4)x29.0(29.0) cm	Approx. 122.6x71.4x25.5 cm	Approx. 144.7x83.8x25.5 cm	Approx. 172.1x100.1x30.2 cm
Weights (Approx.)	Weight of TV without Stand	Approx. 17.6 Kg	Approx. 20.3 Kg	Approx. 18.7 Kg	Approx. 21.2 Kg	Approx. 35.3 kg
	Weight of TV with Stand	Approx. 19.8 Kg	Approx. 22.5 Kg	Approx. 22.3 Kg	Approx. 24.8 Kg	Approx. 39.7 kg



Specifications		FWD-85Z9G/T	FWD-98Z9G/T	FWD-43X70G/T	FWD-49X70G/T	FWD-55X70G/T	FWD-65X70G/T	
General features	Screen size	85"	98"	43"	49"	55"	65"	
	Brightness (cd/m ²)	-	-	393	393	393	393	
	Dynamic contrast ratio	-	-	350000:1	350000:1	350000:1	350000:1	
	Response Time (ms)	6	-	8	-	12	-	
Display features	Haze (%)	-	-	3%		2%		
	Dimming type	Local Dimming			Frame Dimming			
	Backlight type	Direct LED (Backlight Master Drive)			Edge LED		Direct LED	
	Operation time				18/7			
	Backlight dimming type	Local Dimming			Frame Dimming			
	Display type	LCD						
	Bezel Size (Top, Side, Bottom)	-	-	11.4/12/18.9	11.4/11.4/18.6	13.5/13.5/17.8	14.4/15.2/17.9	
TV System	TV System (Digital Terrestrial)	DVB-T/T2						
	TV System (Digital Cable)	DVB-C						
	TV System (Digital Sat)	DVB-S/S2						
	Number of Tuners (Terrestrial/Cable)	2 (Digital)/1 (Analog)			1 (Digital/Analog)			
	Number of Tuners (Sat)	2			1			
	Operating System	Android 8.0 Oreo			Linux			
	On-board Storage (GB)	16GB			4GB			
Professional features	Professional hidden mode	Yes						
	HDMI auto wake-up	Yes						
	HTML5 platform	Yes						
	Multicast / IPTV	Yes						
Network specs	Wi-Fi Direct	Yes						
	Screen mirroring (Miracast™)	Yes (only for B2B purpose)			Yes			
	Wireless LAN	Integrated						
Convenience features	USB HDD Recording	Yes	Yes	Yes (Except Italy)				
	USB playback codecs	MPEG1:MPEG1/MPEG2PS:MPEG2/MPEG2TS(HDV,AVCHD):MPEG2,AVC/MP4(XAVC S):AVC,MPEG4,HEVC/AVI:Xvid,MotionJpeg/ASF(WMV):VC1/MOV:AVC,MPEG4,MotionJpeg/MKV:Xvid,AVC,MPEG4,VP8,HEVC/WEBM:VP8/3GPP:MPEG4,AVC/MP3/ASF(WMA)/WAV/MP4AAC/FLAC/JPEG			MPEG1/MPEG2PS/MPEG2TS/AVCHD/MP4Part10/MP4Part2/AVI(XVID)/AVI(MotionJpeg)/WMV9/MKV/WEBM/WAV/MP3/WMA/JPEG			
	On/Off Timer	Yes						
	IP Control	Yes						
	Inputs and outputs	RF (Terrestrial/Cable) Connection Input(s)	1 (Bottom)			1 (Side)		
IF (Satellite) Input(s)	2 (Bottom)			1 (Side)				
Composite Video Input(s)	1 (Side)			1 (Bottom)				
HDMI Connection(s) (Total)	4 (1Side,3Bottom)			3 (2Side,1Rear)				
HDMI input Audio format	5.1 channel linear PCM: 32/44.1/48/88.2/96/176.4/192kHz 16/20/24bits, Dolby Digital, Dolby Digital Plus, DTS			Two channel linear PCM: 32/44.1/48 kHz 16/20/24 bits, Dolby Digital,Dolby Digital Plus,DTS				
Digital Audio Output(s)	1 (Bottom)							
Audio Out	1 (Rear / Hybrid with Headphone Out)							
USB ports	2 (Side) / 1 (Bottom)			3 (Side)				
Ethernet inputs	1 (Bottom)							
Audio Power Output	10W+10W+10W+10W+10W+10W+10W+10W					10W + 10W		
Energy saving and efficiency	Energy label	D			A			
	Power Consumption (in Standby)	0.50W						
	Power Consumption (in Operation)	Standard: 636W	Standard: 802W	Standard: 66W	Standard: 75W	Standard: 110W	Standard: 151W	
	Annual Power Consumption	882 kWh/Year	1112 kWh/Year	96 kWh/Year	110 kWh/Year	161 kWh/Year	220 kWh/Year	
Measurements	Dimension of TV without Stand (W x H x D)	Approx. 191.3x114.1 x12.0 cm	Approx. 220.2x131.1 x11.1 cm	Approx. 97.0x57.0 x5.7(1.30) cm	Approx. 110.1x64.5 x5.7(1.30) cm	Approx. 124.1x72.1 x7.9(1.07) cm	Approx. 146.3x84.5 x8.0(1.30) cm	
	Dimension of TV with Stand (W x H x D)	Approx. 191.3x122.6x43.2 cm	Approx. 220.2(224.0) x139.5(172.5) x48.6(69.4) cm	Approx. 97.0x63.0 x26.0 cm	Approx. 110.1x70.4 x26.0 cm	Approx. 124.1x78.5 x33.6 cm	Approx. 146.3x90.9x33.6 cm	
Weights (Approx.)	Weight of TV without Stand	Approx. 71.7 kg	Approx. 94.2 Kg	Approx. 9.7 Kg	Approx. 11.9 Kg	Approx. 15.4 Kg	Approx. 20.5 Kg	
	Weight of TV with Stand	Approx. 74.5 kg	Approx. 113.2 Kg	Approx. 10.3 Kg	Approx. 12.5 Kg	Approx. 16.5 Kg	Approx. 21.6 Kg	

Optional Accessories



CAB-VGAHDMI1*
VGA to HDMI cable



CAB-RSJA1*
RS232 jack cable



TEOS Connect license
TEC-SC100



TEOS Manage licenses
TEM-CO10, TEM-MR10, TEM-DS10



TDM digital signage
software licenses, TDM-DS1Y: 1 year,
TDM-DS3Y: 3 years

* Only applicable to BRAVIA BZ-Series

To view the latest range of BRAVIA accessories visit pro.sony/display-accessories



Specifications		FWD-32WE615/T	FWD-43W66G/T	FWD-50W66G/T
General features	Screen size (diagonal)	32" (31.5")	43" (42.5")	50" (49.5")
	Brightness (cd/m ²)		350	
	Dynamic contrast ratio		300000:1	
	Response Time (ms)		8	
Display features	Haze (%)	-	-	-
	Dimming type		Frame Dimming	
	Operation time		18/7	
	Backlight dimming type		Frame Dimming	
	Backlight type		Direct LED	
	Display type		LCD	
	Bezel Size (Top, Side, Bottom)	11.4/12/18.9	12/14.4/16.9	12.6/14.6/18
TV System	TV System (Digital Terrestrial)		DVB-T/T2	
	TV System (Digital Cable)		DVB-C	
	TV System (Digital Sat)		DVB-S/S2	
	Number of Tuners (Terrestrial/Cable)		1 (Digital/Analog)	
	Number of Tuners (Sat)		1	
	Operating System		Linux	
	On-board Storage (GB)		4GB	
Professional features	Professional hidden mode		Yes	
	HDMI auto wake-up		Yes	
	HTML5 platform		Yes	
	Multicast / IPTV		Yes	
Network specs	Wi-Fi Direct	-		Yes
	Screen mirroring (Miracast™)		Yes	
	Wireless LAN	Yes		Integrated
Convenience features	USB HDD Recording		Yes (Except Italy)	
	USB playback codecs		MPEG1/MPEG2PS/MPEG2TS/AVCHD/MP4Part10/MP4Part2/AVI(XVID)/AVI(MotionJpeg)/WMV9/MKV/WEBM/WAV/MP3/WMA/JPEG	
	On/Off Timer		Yes	
	IP Control		Yes	
Inputs and outputs	RF (Terrestrial/Cable) Connection Input(s)		1 (Side)	
	IF (Satellite) Input(s)		1 (Side)	
	Composite Video Input(s)	-		1 (Rear)
	HDMI Connection(s) (Total)		2 (Side)	
	HDMI input Audio format	-	Two channel linear PCM: 32/44.1/48 kHz 16/20/24 bits, Dolby Digital, Dolby Digital Plus, DTS	
	Digital Audio Output(s)		1 (Rear)	
	Audio Out		1 (Side Hybrid with Headphone Out, Audio Out and Subwoofer Out)	
	USB ports	-		2 (Side)
	Ethernet inputs		1 (Rear)	
Audio Power Output		5W + 5W		
Energy saving and efficiency	Energy label	A	A+	A
	Power Consumption (in Standby)		0.50W	
	Power Consumption (in Operation)	Standard: 41W	Standard: 46.0W	Standard: 79.0W
	Annual Power Consumption	60kWh/Year 1	67 kWh/Year	115 kWh/Year
Measurements	Dimension of TV without Stand (W x H x D)	Approx. 73.1x44.2x7.0(1.30) cm	Approx. 97.4x57.2x6.8(0.90) cm	Approx. 113.0x66.0x6.8(0.90) cm
	Dimension of TV with Stand (W x H x D)	Approx. 73.1x49.0x18.7 cm	Approx. 97.4x62.8x26.8 cm	Approx. 113.0x71.9x26.8 cm
Weights (Approx.)	Weight of TV without Stand	Approx. 5.8 kg	Approx. 7.8 kg	Approx. 11 kg
	Weight of TV with Stand	Approx. 6.2 kg	Approx. 8.2 kg	Approx. 11.4 kg

Optional Accessories



SU-WL450/PSE Wall Mount



Frontcover accessories



Totems



Touch overlays-



TEP-TXS Player*

* Only applicable to the WE6 WG6 XG7 Series to work with TEOS Manage and TDM.

To view the latest range of BRAVIA accessories visit pro.sony/display-accessories



Visual Imaging Cameras

Sony's professional 4K and Full HD visual imaging cameras take your video creation to a new level

Smooth, silent operation combined with a powerful zoom range: you'll capture every presenter and contributor with crisp clarity using our PTZ cameras.

The SRGs feature unique View-DR* and XDNR* and Clear Image Zoom* technology from Sony, ensuring you capture clarity at distance or in poor light environments.

Control is easy, over standard IP networks as well as the ability to stream* video over the same network connection.

*Camera model dependent



 <p>PrimeSupport Pro</p>	<p>See page 5 for further details</p>  <p>PrimeSupport Elite</p>	<p>See page 5 for further details</p>
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SRG Series



Ideal for a wide range of applications - from classrooms and meeting spaces to houses of worship, lecture halls and medical environments. The SRG Series feature smart monitoring features and standard compliance for easy network integration.




Specifications	SRG-X400	SRG-360SHE	SRG-300SE	SRG-300H
Interface	HDMI x1 and IP (streaming) x 1	3G-SDI, HDMI, IP	3G-SDI, IP	HDMI
Sensor	1/2.5 type ExmorR CMOS	1/2.8 type Exmor CMOS		
Signal format	2160*1/29.97p, 25p, 23.98p (HDMI and IP only), 1080/59.94p, 50p, 29.97p, 25p, 23.98p 1080/59.94i, 50i 720/59.94p, 50p	1080/59.94p, 50p, 1080/59.94i, 50i, 720/59.95p, 50p	1080/59.94p (A/B), 29.97p, 25p, 1080/59.94i, 50i, 720/59.94p, 50p, 29.97p, 25p	1080/59.94p, 50p, 29.97p, 25p, 1080/59.94i, 50i, 720/59.94p, 50p, 29.97p, 25p
NDI® HX*	Yes (Optional)	No		
IP Streaming		Yes		No
Zoom	30x (4K with CIZ)/40x (HD with CIZ)	Optical 30x, Digital 12x		
Pan/Tilt Speed	Max. Pan: 300°/sec Max. Tilt: 126°/sec	Max. Pan: 60°/sec Max. Tilt: 60°/sec	Max. Pan: 100°/sec Max. Tilt: 90°/sec	
Horizontal Viewing Angle	Approx. 70.0 degree (Wide)	Approx. 65 degree (wide)		
Preset Position	256 (CGI), 100 (VISCA)	256 (16 by Visca, 256 by CGI)		16
Broadcast Picture Adjustment	No			
Audio Input		Yes (2ch)	Yes (1ch)	No
Genlock	No			
Power	DC 12 V, PoE+		DC 12V	
Control	RS-422, VISCA over IP, CGI			VISCA, RI-45 VISCA over IP
Ceiling Mount	Yes			


For full product specifications and features please visit pro.sony/network-camera-systems



Specifications	SRG-X120	SRG-120DH	SRG-120DS	SRG-120DU
Interface	HDMI x1 and IP (streaming) x 1	HDMI	3G-SDI	USB
Sensor	1/2.5 type ExmorR CMOS	1/2.8 type Exmor CMOS		
Signal format	2160*1/29.97p, 25p, 23.98p (HDMI and IP only), 1080/59.94p, 50p, 29.97p, 25p, 23.98p 1080/59.94i, 50i 720/59.94p, 50p	1080/59.94p, 50p, 29.97p, 25p, 1080/59.94i, 50i, 720/59.94p, 50p, 29.97p, 25p	1080/59.94p (A/B), 50p (A/B), 29.97p, 25p, 1080/59.94i, 50i, 720/59.94p, 50p, 29.97p, 25p	1080/59.94p, 50p, 29.97p, 25p, 720/59.94p, 50p, 29.97p, 25p, 15p
NDI® HX*	Yes (Optional)	No		
IP Streaming	Yes	No		
Zoom	12x (4K/HD)	12 x		
Pan/Tilt Speed	Max. Pan: 300°/sec Max. Tilt: 126°/sec			
Horizontal Viewing Angle	Approx. 70.0 degree (Wide)	Approx. 71 degree (Wide)		
Preset Position	256 (CGI), 100 (VISCA)	16		
Broadcast Picture Adjustment	No			
Audio Input	Yes (2ch)	No		
Genlock	No			
Power	DC 12 V, PoE+	DC 12V		
Control	RS-422, RJ-45 VISCA over IP, CGI	RS-232, VISCA, RJ-45 VISCA over IP		RS-232, VISCA, RJ-45 VISCA over IP, UVC
Ceiling Mount	Yes	No		

* 1 Available when 4K Option is attached

 See page 5 for further details					
Reference	Included service PS.VIDEOCONF.3	PSP. SDCAMERA.4	PSP. SDCAMERA.5	PSP. HDCAMERA.4	PSP. HDCAMERA.5
Duration	3 years	1 year repair extension, total 4 years	2 years repair extension, total 5 years	1 year repair extension, total 4 years	2 years repair extension, total 5 years

 See page 5 for further details			
Reference	PSP. HDCAMERA. RL3	PSP. HDCAMERA. RL4	PSP. HDCAMERA. RL5
Duration	3 years repair & loan	4 years repair & loan	5 years repair & loan

* The values for dimensions are approximate.
** Real customer environment requires local test.

For full product specifications and features please visit pro.sony/network-camera-systems

BRC Series



From TV studios and sports stadiums to auditoriums, lecture theatres and houses of worship – our sophisticated, dependable BRC remote cameras capture and stream broadcast-quality video footage in detail-packed 4K or Full HD.



4K



4K



HD



HD

Specifications	BRC-X1000 (4K)	BRC-X400 (4K)	BRC-H900 (HD)	BRC-H800 (HD)
Interface	3G-SDI x2, HDMI	3G-SDI, HDMI, IP	HD/SD-SDI, Composite, RGB/Component, S Video	3G-SDI, HDMI
Sensor	1.0-type Exmor R CMOS	1/2.5 type Exmor R CMOS	1/2 type Exmor 3CMOS	1.0 type Exmor R CMOS
Signal format	2160/29.97p, 25p, 23.98p 1080/59.94p, 59.94i, 50p, 50i, 23.98p 720/59.94p, 50p	2160/29.97p, 25p, 23.98p (HDMI and IP only), 1080/59.94p, 50p, 29.97p, 25p, 23.98p 1080/59.94i, 50i 720/59.94p, 50p	60 Hz: 1080/59.94i, 720/59.94P, NTSC 50 Hz: 1080/50i, 720/50P, PAL	1080/59.94p, 59.94i, 50p, 50i, 23.98p 720/59.94p, 50p
NDI® HX*	No	Yes (Optional)	No	
IP Streaming	No	Yes	No	
Zoom	18x (4K with CIZ)/24x (HD with CIZ), Max. 48x (HD with CIZ and Tele Convert Mode)	30x (4K with CIZ)/40x (HD with CIZ), Max.80x (HD with CIZ and Tele Convert Mode)	14x	24x (with CIZ), Max. 48x (HD with CIZ and Tele Convert Mode)
Pan/Tilt Speed	0.3°/sec ~ 60°/sec	Max. Pan: 300°/sec Max. Tilt: 126°/sec	0.3°/sec ~ 60°/sec	
Horizontal Viewing Angle	Approx. 64.6 degree (Wide)	Approx. 70.0 degree(Wide)	Approx. 59.6 degree (Wide)	Approx. 64.6 degree (Wide)
Preset Position	100	256 (CGI), 100 (VISCA)	16	100
Broadcast Picture Adjustment	Gamma/Knee/Detail/ Black gamma/Colour matrix	Gamma/Knee/Black Gamma/ Colour Matrix	Gamma/Knee/Detail/ Black gamma/Colour matrix	
Audio Input	No	Yes (2ch)	No	No
Genlock	Yes			
Power	DC12 V, PoE+		DC 12 V	DC12 V, PoE+
Control	RS-422 (VISCA)/RJ-45 (VISCA over IP) RS-422 (VISCA)/RJ-45 (VISCA over IP)		RS-232C, RS-422 (VISCA)/ RJ-45 (VISCA over IP (Optional))	RS-422 (VISCA)/RJ-45 (VISCA over IP)
Ceiling Mount	Yes			

*1 with Dual link 3G-SDI (2SI only) for 4K video output

* CNA-1 and HZC-BRCN1 are required.

For full product specifications and features please visit pro.sony/network-camera-systems

RM-IP10



Up to 5 controllers can operate on a single network

- Up to 5 RM-IP10 control panels can be used on a single network allowing shared control and simultaneous multi-operator control of large camera systems.

Control of up to 112 SRG/BRC cameras via IP

- The RM-IP10 remote control panel gives you control of up to 112 BRC cameras over an IP network.

Simple RJ-45 (10Base-T/100Base-TX) connection for easy connection

- The RM-IP10 links to an IP network with via a RJ-45 connector providing very easy, low cost and speedy installation.

Additional ability to use VISCA control

- The RM-IP10 can also control up to 7 SRG/BRC cameras over a traditional VISCA (Video System Control Architecture) network.

RM-IP500



Control up to 100 BRC or SRG cameras via IP

- SRG-300 and SRG-120 series are newly supported.

Simple set-up

- Automatic IP address assignment of connected cameras.
- Auto assignment of camera.

High-quality control of PTZF functions

- Pan and tilt adjustment with joystick.
- Zoom control either via joystick or a separate seesaw lever.
- Adjustable speed control of PTZF via dedicated dials.

Store and recall camera presets

- Up to 100 presets (camera angles and settings) can be stored.
- Presets can be recalled instantly via the numeric keypad.





Visual Simulation and Visual Entertainment

Every projector in our simulation and visualisation line-up delivers stunning high contrast, native 4K images. At more than four times the resolution of Full HD, it guarantees an astonishingly detail-packed experience, with richer colour and unbeatable image quality.

Whether you're creating a flight simulation for pilot training, a Planetarium, or sharing a finely-detailed visualisation for an automotive design, all projectors can provide you with the very best picture.



For full product specifications and features please visit pro.sony/simulation-projectors

 <p>PrimeSupport Pro</p>	 <p>PrimeSupport Elite</p>	 <p>PrimeSupport On-Demand</p>	 <p>PrimeSupport Bespoke</p> <p>See page 5 for further details</p>
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Laser Light Source Projectors



Sony combines the best of its projection technologies, 4K SXRD imagery and laser light source technology, to create projectors with native 4K resolution.

VPL-GTZ280



High-speed signal processing, fast motion blur reduction, infrared light output for night vision, and vibration resistance - all ideal for visualisation, simulation and training applications.

- Exclusive SXRD chip provides native 4K resolution and high contrast ratio.
- 2,000 lumens brightness (5,000 lumens with optional upgrade).
- Quad DisplayPort inputs.
- 4K 3D capability for reliable simulation*.
- Deep blacks reduce white band visibility for multi-projector blending.
- Long life optics, up to 20,000h (up to 40,000h in low brightness mode).
- Dust resistance by sealed optics.
- Constant brightness mode and periodic auto calibration for enduring image quality.
- High speed motion functions: 4K 120Hz input, smear reduction, transport delay reduction*.
- Infrared light output for night vision simulation*.
- Angle-free installation and vibration endurance for motion based system.
- Whisper quiet operation less than 35dB.
- HDR (High Dynamic Range) Gamma*.

VPL-GTZ270



4K SXRD up to 5000 lumens. An extremely high contrast ratio, high dynamic range and wide colour space - ideal for visual entertainment applications including planetariums, theme parks, and museums.

- Exclusive SXRD chip provides native 4K resolution and high contrast ratio.
- Flexible input capabilities: 2 x DisplayPort, 2 x HDMI
- 'Reality Creation' upscaling.
- HDR (High Dynamic Range)*.
- Wide Colour Space - covers full DCI range and simulated BT2020.
- 4K 3D capability.
- Deep blacks reduce white band visibility for multi-projector blending.
- Less maintenance.
- Long life optics, up to 20,000h (up to 40,000h in low brightness mode).
- Dust resistance by sealed optics.
- Angle-free installation.
- Constant brightness mode and periodic auto calibration for enduring image quality.
- Robust chassis for easy handling and self stack capability.
- Whisper quiet operation less than 35dB.

*Optional

VPL-GTZ240



Combining 4K SXRD imagery and Z-Phosphor™ laser light source technology, to create a compact size projector with native 4K resolution, high-speed signal processing, fast motion blur reduction and vibration resistance – all ideal for visualisation, simulation, and training applications.

Advanced Usability

- Advanced Laser Light Source
- 2,000 lumens brightness
- Rugged chassis with motion based operation
- 2 x HDMI inputs
- Long-life optics up to 20,000h
- Low noise operation
- Quick start enhances operation
- Low transport delay
- Changeable lens
- Compact design

Great Image Quality

- Native 4K resolution
- Excellent colour reproduction
- Super high contrast ratio
- Reality Creation 4K upscaling
- Advanced motion blur reduction

Multi Projection Usability

- Pre-adjusted brightness and colour temperature for multi projection

PrimeSupport Pro		See page 5 for further details	
Reference	Included service PS.LASPROJPD.3		
Support	Projector	Optical Block & Laser	
Duration	3 years	7000h	

PrimeSupport Elite				See page 5 for further details	
Reference	PSP.VPLGTZ2.PREM.5		PSP.VPLGTZ240.2X		
Support	Projector	Optical Block & Laser	Projector	Optical Block & Laser	
Duration	Premium 2 years extension	12000h	Premium 2 years extension	12000h	

PrimeSupport Bespoke		See page 5 for further details			
Reference	BUILD ON REQUEST				
Support	Projector	Optical Block & Laser			
Duration	4-10 years	Custom			

Classification

This data projector is classified as a CLASS 2 LASER PRODUCT. (Laser radiation IEC60825-1:2007)

Featuring

HDMI 4K SXRD

For full product specifications and features please visit pro.sony/simulation-projectors

Specifications		VPL-GTZ240	VPL-GTZ270	VPL-GTZ280	
Display system		4K SXRD panel, projection system			
Size of effective display area		0.74" x 3			
Number of pixels		26,542,080 (4096 x 2160 x 3) pixels			
Projection lens ²	Focus	Powered			
	Zoom	Powered			
Light source		Laser diode			
Light output	Standard	2,000 lm	5,000 lm	2,000 lm	
	using the LSM-BRIN1 optional upgrade	-	-	5,000 lm	
Colour light output	Standard	2,000 lm	5,000 lm	2,000 lm	
	using the LSM-BRIN1 optional upgrade	-	-	5,000 lm	
Contrast ratio	Native (conditions apply)	16,000:1 ^{*1}	Up to 20,000:1 ^{*1}	Up to 20,000:1 ^{*1} (native contrast)	
	Dynamic	∞	∞	∞	
Accepted digital signals ³	VGA, SVGA, XGA, WXGA (1280x768), Quad-VGA, SXGA, 720x480/60p, 720x576/50p, 1280x720/50p, 1280x720/60p, 1920x1080/24p, 1920x1080/50p, 1920x1080/60p, 3840x2160/24p, 3840x2160/50p, 3840x2160/60p, 3840x2160/100p, 3840x2160/120p, 4096x2160/24p, 4096x2160/50p, 4096x2160/60p, 4096x2160/100p, 4096x2160/120p		•	•	
	VGA, SVGA, XGA, WXGA (1280x768), Quad-VGA, SXGA, 720x480/60p, 720x576/50p, 1280x720/50p, 1280x720/60p, 1920x1080/50i*4, 1920x1080/60i*4, 1920x1080/24p, 1920x1080/50p, 1920x1080/60p, 3840x2160/24p, 3840x2160/25p*4, 3840x2160/30p*4, 3840x2160/50p, 3840x2160/60p, 4096x2160/24p, 4096x2160/25p*4, 4096x2160/30p*4, 4096x2160/50p, 4096x2160/60p		•	•	
Accepted signals	480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 1080/24p, 3840 x 2160/24p, 3840 x 2160/25p, 3840 x 2160/30p, 3840 x 2160/50p, 3840 x 2160/60p, 4096 x 2160/24p, 4096 x 2160/25p, 4096 x 2160/30p, 4096 x 2160/50p, 4096 x 2160/60p	•			
Colour bit depth		Up to 12 bit	Up to 12 bit via HDMI / Up to 10 bit via Display Port	Up to 10 bit	
OSD language	18-languages	English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Arabic, Polish			
INPUT OUTPUT (Computer/Video/ Control)	HDMI 1 / HDMI 2	2 inputs (HDCP 2.2 x 2), Digital (RGB/Y Pb/Cb Pr/Cr)		•	
	DISPLAY PORT	4 inputs (HDCP 1.3 x 2, HDCP 1.3 for V Split x 2), Digital (RGB)		•	
	TRIGGER	2 connectors, Mini jack, DC 12V Max.100 mA			
	ROMOTE	RS-232C, D-sub 9-pin (female)		•	•
		RS-232C, D-sub 9-pin (male)	•		
	LAN	RJ45, 10BASE-T/100BASE-TX			
	IR IN / OUT	IN:1, Out:1, Mini jack			
	SYNC	IN:1, Out:1			
USB	Type A				
Acoustic noise	Standard	39 dB		30 dB ~ 35 dB ^{*1}	
Operating temperature / Operating humidity	5°C to 40°C (41°F to +104°F)/20% to 80% (no condensation)	•	•	•	
Storage temperature / Storage humidity	-10° to + 60° (14°F to +140°F)/20% to 80% (no condensation)	•	•	•	
Power requirements	AC 220 V to 240 V, 6 A, 50/60 Hz (For Europe and China) AC 100 V to 240 V, 12 A to 6 A, 50/60 Hz (For the other countries)	•	•	•	
Power consumption: High		MAX. 1.2 kW			
Power consumption (Standby mode, When "Remote Start" is set to "Off")		0.4 W			
Power Consumption (Networked Standby Mode, When "Remote Start" is set to "On")		0.6 W			
Heat dissipation		1671 BTU/h	4092 BTU/h	4092 BTU/h	
Dimensions (W x H x D) (without protrusions)	550 x 228 x 750 mm (21 21/32 x 8 31/32 x 29 17/32 in)		•	•	
	560 x 223 x 496 mm (22 1/16 x 8 25/32 x 19 17/32 in)	•			
Dimensions (W x H x D)	550 x 262 x 750 mm (21 21/32 x 10 5/16 x 29 17/32 in)		•	•	
	560 x 230 x 496 mm (22 x 9 x 19.5 in)	•			
Mass		Approx. 19.5 kg / 43 lb (without lens)	Approx. 40 kg / 88 lb (excluding lens)	Approx. 40 kg / 88 lb (excluding lens)	
Supplied accessories	RM-PJ29 Remote Commander (1), Size AA (R6), Manganese Batteries (2), AC Power Cord (1), Operating Instructions (CD-ROM) (1), Safety Regulations (5)				

*1 This value is approximate. Depends on the projector setting condition and usage environment

*2 The lenses are optional accessories

*3 60p,30p,24p include 59.94/60Hz, 29.97Hz/30Hz, 23.98Hz/24Hz

*4 Available via HDMI input

VPL-GTZ270, VPL-GTZ280, VPL-GTZ240

Optional accessories



VPLL-Z7008
0.80:1 to 1.02:1



VPLL-Z7013
1.27:1 to 2.73:1

VPL-VZ1000ES



Compact 4K Ultra Short Throw laser light source projector, suited to corporate environments, retail spaces, galleries, museums and home cinema use.

- Project 4K images up to 305cm diagonal size onto a screen or wall.
- Z-Phosphor laser light source and SXRD panel technology for stunning images with 2,500 lumens brightness.
- Up to 20,000 hours operation with virtually no maintenance.
- TRILUMINOS™ Display for cinema-like colour gamut.
- HDR compatible for wider brightness level range.
- Can be operated floor-standing, ceiling mounted or used for rear projection.
- Extensive connectivity with 4x HDMI inputs.
- Quiet operation with low fan noise.

Specifications		VPL-VZ1000ES
Display system		4K SXRD panel, projection system
Display device		0.74" x 3 SXRD
Number of pixels		26,542,080 (4096 x 2160 x 3) pixels
Projection lens	Focus	Powered (Approx. x 1.02)
	Zoom	Powered
	Lens shift	Powered, Vertical: +/- 6%, Horizontal: +/- 3%
Light source		Laser diode
Screen size		80" to 120" (2030 mm to 3050 mm)
Light output (Lamp mode: High)		2500 lm
Colour light output (Lamp mode: High)		2500 lm
Contrast ratio		∞:1 (dynamic contrast)
Accepted digital signals*1		VVGA, SVGA, XGA, WXGA (1280x768), Quad-VGA, SXGA, 720x480/60p, 720x576/50p, 1280x720/50p, 1280x720/60p, 1920x1080/50i, 1920x1080/60i, 1920x1080/24p, 1920x1080/50p, 1920x1080/60p, 3840x2160/24p, 3840x2160/25p, 3840x2160/30p, 3840x2160/50p, 3840x2160/60p, 4096x2160/24p, 4096x2160/25p, 4096x2160/30p, 4096x2160/50p, 4096x2160/60p
INPUT OUTPUT (Computer / Video / Control)	HDMI (HDCP 2.2)	HDMI (x4)
	REMOTE	RS-232C, D-sub 9-pin
	LAN	RJ-45, 10Base-T/100BASE-TX
	IR IN	Mini Jack
	USB	Type A, DC 5V, Max. 500 mA
Operating temperature (Operating humidity)		5°C to 35°C (41°F to 95°F) (20% to 80% (no condensation))
Storage temperature (Storage humidity)		-10°C to +60°C (14°F to +140°F) (20% to 80% (no condensation))
Power requirements		AC 100 V to 240 V, 4.2 A to 1.8 A, 50/60 Hz
Power consumption		420 W

PrimeSupport Pro		See page 5 for further details
Reference	Included Service PS.LASPROJPD.3	
Support	Projector	Optical Block & Laser
Duration	3 years	7000h

PrimeSupport Elite		See page 5 for further details
Reference	PSPVPLVZ1000.2X	
Support	Projector	Optical Block & Laser
Duration	2 years extension, total 5 years	12000h

Featuring




For full product specifications and features please visit pro.sony/simulation-projectors

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